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THE INFORMATION IN THIS CATALOG HAS BEEN GATHERED FROM THE BEST AVAILABLE RESOURCES. EVERY EFFORT HAS BEEN MADE TO ENSURE ACCURACY. HOWEVER, WE CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR OMISSIONS.

VEHICLE MAKE INDEX

ACURA
ALLIS-CHALMERS
AMC-See Chrysler Pass. Car/Truck
AUDI
BMW
BUDA
BUICK - See GM Pass. Car/Truck
CASE
CATERPILLAR
CHEVROLET - See GM Pass. Car
CHEVROLET TRUCK - See GM Truck
CHRYSLER PASSENGER CAR & TRUCK
CHRYSLER INDUSTRIAL
CHRYSLER MARINE
CLIMAX
CONTINENTAL
CUMMINS
DAEWOO
DETROIT DIESEL
DODGE - See Chrysler Pass. Car/Truck
FIAT
FORD PASSENGER CAR
FORD INDUSTRIAL
FORD TRACTOR
FORD TRUCK
GEO - See GM Pass. Car/Truck
GM INDUSTRIAL
GM PASSENGER CAR
GM TRUCK
HARLEY DAVIDSON
HERCULES
HINO
HONDA
HYUNDAI
I.H.C. / NAVISTAR
I.H.C. TRACTOR & POWER UNITS
INFINITI
ISUZU
ISUZU INDUSTRIAL
JAGUAR
JEEP - See Chrysler Pass. Car/Truck
JOHN DEERE
KIA
KOMATSU
KUBOTA
LANDROVER
LEXUS
LINCOLN - See Ford Pass. Car/Truck
MACK
MASSEY FERGUSON
MAZDA
MAZDA INDUSTRIAL
MERCEDES BENZ PASSENGER CAR
MERCEDES BENZ HEAVY DUTY
MERCEDES BENZ PASSENGER TRUCK
MERCURY MARINE
MINI
MINNEAPOLIS MOLINE
MITSUBISHI
MITSUBISHI INDUSTRIAL
MWM
NEW HOLLAND
NISSAN
NISSAN INDUSTRIAL
OLDSMOBILE -See GM Pass. Car/Truck
OLIVER
OMC MARINE
PERKINS
PLYMOUTH -See Chrysler Pass. Car/Truck
PONTIAC -See GM Pass. Car/Truck
RENAULT -See Chrysler Pass. Car/Truck
REO
SAAB
SATURN -See GM Pass. Car/Truck
SCION
SHIBAURA
STUDABAKER
SUBARU
SUPERIOR
SUZUKI
THERMO KING
TOYOTA
TOYOTA INDUSTRIAL
VOLKSWAGEN
VOLVO PASSENGER CAR
VOLVO INDUSTRIAL
VOLVO HEAVY DUTY
WAUKESHA
WISCONSIN
WITTE
YANMAR

STANDARD ABBREVIATIONS

Adjuster = Adj.	High Performance = Hi-Perf.	Right Hand = R.H.
And = &	Including = Incl.	Round = RD
Barrel = Bbl.	Inside Diameter = I.D.	Serial Number = S/N
California = Calif.	Intake = Int.	Standard = Std.
Carburetor = Carb.	Left Hand = L.H.	Stud Bolt = Std./Bit.
Compressed Nat. Gas = CNG	Liquid Propane Gas = LPG	Square = SQ
Cylinder = Cyl.	Mechanical = Mech.	Transmission = Trans.
Diameter = Dia.	Multi Port Fuel Injection = MFI	Undersize (d) = U/S
Engine(s) = Eng.	Optional/Alternate = Opt.	With = W/



ABOUT US

Founded 1982 in Nashville, Tennessee, S. B. International, Inc.® (SBI®) is a premier supplier of cylinder head components to the automotive, light truck, small- and medium-duty diesel, heavy-duty diesel truck and equipment, agricultural tractor, marine, and industrial engine market worldwide. Our priorities are quality and on-time delivery at a competitive price. Our customers are engine parts distributors, production remanufacturers, and specialty manufacturers and suppliers.

Beginning in 1982 with valve seat inserts, SBI introduced the J-LOY® brand Valve Seat Inserts, a product line focused on heavy duty which evolved to full-line coverage within several years. In 1991, SBI added to its lineup with its E-LOY® brand Engine Valves. With these two major cylinder head component lines, SBI further enhanced product offerings in 1997 by the introductions of valve guides, valve keepers (locks), valve stem seals, valve springs, valve spring rotators, pushrods, rocker components and other related components to offer a full product line for cylinder head remanufacturing. In 2001 SBI acquired Ertel®, Ohio® and Nylen® brand valve guide marketing rights to become the exclusive worldwide aftermarket distributor. To meet the demands of the cylinder head aftermarket, SBI added a full range of injector tubes for most popular heavy-duty applications to its product line in early 2007.

In 2008, SBI and K-Line® Industries signed an agreement making SBI Exclusive Master Distributor of K-Line's renowned Bronze Bullet® brand valve guide liners and guide-liner tooling. For more than a quarter-century, K-Line Bronze Bullet valve guide liners have consistently maintained their top spot around the world as the industry standard in engine rebuilding based on quality of material and manufacture, efficiency of installation, and durability. SBI is honored to team with K-Line in providing quality valve guide liners and guide-liner tooling to the world.

Components supplied by SBI are manufactured to meet or exceed original equipment manufacturers' (OEM) specifications and tested within our quality control lab using Statistical Process Control (SPC) to ensure correct specifications in every product.

SBI has more than 40 factory warehouse distribution centers located throughout United States and Canada as well as an efficient network of authorized distributors and remanufacturers around the world. This infrastructure enables SBI to provide local support and dependable availability for customer convenience. SBI's commitment to inventory investment, as well as technical research, has earned the company the reputation of having the best customer and technical service, along with the best quality and availability of parts in the cylinder head parts aftermarket.

Celebrating more than thirty-five years of experience and expertise, SBI continues to be the dominant force in the valvetrain aftermarket by offering the latest and up-to-date product worldwide with unequalled customer and technical service.

PRODUCT INFORMATION

Valve Seat Inserts

S.B. International is the exclusive marketer of J-LOY brand valve seat inserts.

All J-LOY inserts with the "SB" prefix are premium (Hard) seats with a typical hardness range of 35 - 40 Rc.

NOTE:

Several different alloys are utilized depending on the specific requirements of the engine.

Powdered Metal Valve Seat Inserts

As anyone who has machined factory inserts in late model heads already knows the technology for the production and use of PM valve seats has been around for some years now. The challenge for the seat manufacturer has always been to provide a consistent material with excellent wear characteristics coupled with good machinability, the latter being a property the OEM does not require when building a new head. In fact after the engine has run for some time the OEM seat will tend to work harden and become almost impossible to machine. SBI "PM" material is primarily suited for gasoline applications. The material incorporates good machinability, has consistent quality and takes advantage of the cost savings associated with this new technology.

Frequently asked questions. (FAQ's)

1. How do I know if an SBI Powder Metal Seat is available for my applications?

Look up your engine in the application section of the catalog. If a Powder Metal Seat is available you will find a note to that effect in the note column of the Valve Seat Insert section.

2. Can I use an SBI Powder Metal Seat for Diesel or Propane applications?

We do not recommend the use of SBI Powder Metal Seats for these applications. Use the seat recommended in the application section of the catalog.

3. How do I machine SBI Powder Metal Seats?

Depending on your machine you may have to INCREASE spindle speeds by up to 50%. On an SB1562-1PM seat we recommend using about 500 RPM to achieve the best surface finish.

4. What cutter life will I experience?

The tests we have run indicate that you can expect to cut from four to ten times as many seats before you have to sharpen the cutter. It really depends on what you cut in between cutting the Powder Metal Seats.

5. Are there any productivity gains?

The faster cutting speeds and longer tool life will greatly increase machine output. The floor to floor time will be substantially improved and machine down time will decrease.

6. What kind of surface finish can I expect?

The SBI Powder Metal Seat will provide one of the best finished seat surfaces of any seats available in the industry. With a sharp cutter and the correct spindle speeds you can expect a consistent "mirror" finish on the cut surface.

PRODUCT INFORMATION

Part Number Explanation

Letter Prefix indicates
Type of Material

Basic Part No.
4 Digits

Suffix

SB = Premium Grade
Cobalt, Iron or
Nickel Base Alloys

Nominal
or actual
O.D.

0 Thru 49 = Different I.D. & Depth Versions
50 & Up = Oversized Inserts For Aluminum
Cylinder Heads
C = Stellite #3 or Tribaloy Cobalt Base
Materials
E = Factory Installed Insert & Basic
Part No. Is Actual O.D.
N = Star Series Non-Magnetic Material
PM = Powdered Metal

EXAMPLES: SB1562-1 = High-Chrome Premium Grade Material with 1-9/16" (1.562 Nominal O.D.)
SB1562-1N = Same as SB1562-1 except Star Series material.
SB1562-1PM = Same as SB1562-1 except Powdered Metal Material
SB2088E-1 = Factory-installed insert with 2.088 actual O.D.
SB2088E-1 + 030 = Same as above except +.030 Oversize with 2.118 actual O.D.

Automotive Inserts (Incl. Passenger Cars, Light & Medium Duty Trucks, Tractors, etc.)

1. Cast Iron Cylinder Heads

For ease in selecting and stocking inserts our part numbering system incorporates the cutter size as the basic part number on universal size seats. For example: SB1625-1, "1625" indicates this seat requires the use of a 1-5/8" cutter. Actual O.D. is 1.6305/1.6295 allowing for press fit. For factory-installed replacement inserts, the basic part number is the exact O.D. followed by suffix "E". For example: SB1678E-1, "1678E" indicates a factory-installed seat with an actual O.D. of 1.678".

2. Aluminum Cylinder Heads

The same part numbering logic is used for these inserts and they are identified with suffix 50 & greater. **NOTE:** These inserts are oversized from the OEM Metric size to the next largest standard U.S. cutter size. For example: SB1500-57, "1500" indicates this seat requires the use of a 1-1/2" cutter. Actual O.D. is 1.507 allowing for .007 recommended press fit for aluminum heads. These inserts also have a blended radius on the installation side to prevent damage to the counterbore during installation.

3. "Star Series" Valve Seats

Super-Premium Non-Magnetic "STAR SERIES" Exhaust Valve Seats for Passenger Cars, Lt. & Md. Duty Trucks, Stationary Eng., etc. operating on Propane, LPG & Natural Gas. Due to a variety of factors, certain exhaust valve seats particularly in engines operating on Propane, LPG & Natural Gas require super high hot hardness characteristics. "STAR SERIES" is a true Non-Magnetic insert which will retain it's hardness beyond 1600° F. Part numbers are the same as our Regular Premium Series seats with the addition of suffix "N". For complete size information, see Numerical or Progressive size list.

4. Heavy Duty Diesel Inserts

J-LOY inserts for Heavy Duty Diesel Engines (Caterpillar, Cummins, Detroit Diesel, Mack, etc.) are supplied in materials that meet or exceed OEM specifications for the particular application. Standard size inserts are exact O.E. duplicates dimensionally and oversize inserts have been designed to meet particular requirements of the aftermarket.

THE "STAR SERIES" STORY

The Super-Premium "STAR SERIES" valve seat is intended for Exhaust applications operating on Propane, LPG, Natural Gas as well as other difficult applications where extreme heat may be encountered. Several years ago it became apparent that in certain cases remanufactured cylinder heads for such engines experienced severe and rapid exhaust valve seat erosion. This erosion was noted on premium "Hi-Chrome" Stainless seats as well as other manufacturer's Nickel Base Material.

It should be pointed out that the above materials should be more than adequate to handle exhaust applications for Propane and all other fuels. Many customers have used and continue to use regular type Premium valve seats for these engines and report no problems. We believe that failures may be caused by, but not limited to the following factors:

- 1) Improper air-fuel mixture
- 2) Improper timing
- 3) Emission control devices
- 4) Stop and go operation. Excessive idling, Abusive operation, Excessive vehicle weight for engine, etc. (Delivery Vans, Taxis, Stationary Engines, etc.)

"STAR SERIES" is a true Nickel/Cobalt Non-Magnetic insert which will retain its hardness beyond 1600° F. This is substantially beyond other premium valve seats available in the aftermarket. We are presently offering over 100 sizes of "STAR SERIES" valve seats. These sizes will cover nearly all of the exhaust valve seats required on engines operating on Propane, LPG, and Natural Gas. Part numbers are the same as our regular Premium grade seats with the addition of suffix "N" (Non-Magnetic).

For complete information on the above parts, refer to numerical or diametric listings.

SUPER UNIVERSAL REPAIR INSERTS

SBI Super Universal Repair Valve Seat Inserts, A.K.A. "A Hockey Puck With A Hole In It", are offered in a range of sizes in 1/16" incremental O.D.s from 1" to 2-3/8". All seats have a 1/4" wall thickness and 7/16" depth. This range of sizes should cover most of those odd repair situations.

<u>PART#</u>	<u>I.D.</u>	<u>O.D.</u>	<u>DEPTH</u>
SB1000-3	1/2	1	7/16
SB1062-6	9/16	1-1/16	7/16
SB1125-11	5/8	1-1/8	7/16
SB1187-12	11/16	1-3/16	7/16
SB1250-13	3/4	1-1/4	7/16
SB1312-16	13/16	1-5/16	7/16
SB1375-27	7/8	1-3/8	7/16
SB1437-32	15/16	1-7/16	7/16
SB1500-33	1	1-1/2	7/16
SB1562-44	1-1/16	1-9/16	7/16
SB1625-41	1-1/8	1-5/8	7/16
SB1687-42	1-3/16	1-11/16	7/16
SB1750-43	1-1/4	1-3/4	7/16
SB1875-39	1-3/8	1-7/8	7/16
SB1937-39	1-7/16	1-15/16	7/16
SB2000-24	1-1/2	2	7/16
SB2062-20	1-9/16	2-1/16	7/16
SB2125-12	1-5/8	2-1/8	7/16
SB2187-31	1-11/16	2-3/16	7/16
SB2250-17	1-3/4	2-1/4	7/16
SB2312-8	1-13/16	2-5/16	7/16
SB2375-15	1-7/8	2-3/8	7/16

PRODUCT INFORMATION

Valves

S.B. International is the marketer of E-LOY brand engine valves. All E-LOY engine valves are manufactured utilizing the latest processes, techniques and statistical methods available in the industry today. Materials used consist of Austenitic (Non-Magnetic) or Martensitic (Magnetic) Steels and Nickel Base Super Alloys along with other Cobalt, Iron and Nickel Base facing alloys which have been designed to run in modern unleaded fuel and Diesel engines. Chrome Plating is provided where specific engine applications require it.

Gaseous Fuel Applications

S.B. International supplies the most comprehensive model coverage in the industry. We supply valves for factory converted LPG/Propane engines, valves for the most popular Aftermarket converted engines and coverage for the Liquefied Natural Gas (LNG) engines running in both Automotive and Oil and Natural Gas applications. These engines require a specific combination of valve and seat materials to give good service life. The replacement of ONLY the valve or ONLY the seat can often cause problems for the Rebuilder as one mismatched component will often cause the mating part to fail. It is not safe to assume that a worn valve is all that needs to be replaced. The worn valve may be caused by the use of an incorrect seat material in that application. If you are not sure the mating part is correct for the fuel being used it is always recommended to replace BOTH components at the same time.

Valve Symbols And Explanation

“S” Suffix = Stellite Faced. Required for many Heavy Duty Diesel and some gasoline exhaust valve applications. Used where corrosion and burning are a problem and shown as an optional valve in some applications.

“SN” Suffix = Stellite Faced & Sodium Cooled. Used in some Heavy Duty applications and features a hollow stem which is partially filled with sodium that transfers the heat away from the critical valve head area.

Valve Stem Seals

A valve stem seal list sorted by valve stem diameter is located in the back of the catalog. This listing will enable the installer to find a seal by size and type of seal required. The practice of selecting seals in this manner should be considered a “last resort” exercise when no other listing can be found. The materials used in today’s emission controlled gas and diesel engines are specifically selected to provide the best performance under all operating conditions. Often the materials differ from intake to exhaust even though the size specifications are the same. It is for these reasons we recommend that the application section be checked for these application specific situations before selecting seals by stem size only.

Valve Guides

The SBI line of Valve Guides is primarily supplied in various types of Cast Iron Materials. The requirements of modern emission control engines presents unique challenges to the cylinder head rebuilder. Almost all new OEM engine designs incorporate positive valve stem seals and chrome plated valves to reduce exhaust emissions. This fact together with higher operating temperatures has made good guide lubrication a prerequisite of a good valve job. SBI offers valve guides with an internal spiral groove (SR) designed to provide excellent oil retention and fight valve guide wear.

It is not uncommon to find loose guides in overheated Aluminum Heads. Where necessary S.B.I. supplies guides with an external snap ring to prevent guide movement. In these critical engines a +0.002” or a +0.006” oversize O.D. is available. This information is listed in the Notes column of the application section of the catalog.

PRODUCT INFORMATION

Valve Springs

S.B. International has put together the most comprehensive and accurate Valve Spring Specifications listing available today. Each spring has been tested to provide the latest information available. In some cases the spring specifications may have changed from those originally installed in the cylinder head. Where possible we have indicated in the applications section where a spring can replace an earlier version or where some casting modifications may be required. It is also not safe to assume that the test specifications represent the actual spring installed height requirements. Although this is true in many cases it is always recommended to check installed height requirements against the OEM specifications.

Push Rods

The S.B. International push rod specifications changed in 2005. Previous listings required the use of "Graduated Checking Balls" when measuring drilled or cupped push rods. These graduated balls were inserted into the drilling or cup and the resulting measurement was listed as the overall length. This was done to OEM specifications so that the effective operating length of the push rod was measurable. The lack of availability of these checking balls has resulted in an industry wide problem in measuring push rods. SBI has measured every push rod and now lists the actual measurable length using equipment available in every Rebuilder's shop. It should be noted that variations to specifications will be greater for push rods with forged cups due to variations in "as forged" components.

Head Saver Shims

If an Overhead Cam Cylinder Head has been excessively machined the distance between the Cam and the Crank centerline is too small. This will affect the valve timing and the engine will not run properly. There is also a very good chance that the engine will not pass emissions tests. SBI Head Saver Shims are designed to replace this lost height and restore the centerline distance. These Shims are 0.020" thick and are made from steel. They should be installed on the block surface directly under the Head Gasket. Overhead Valve Cylinder Heads are also good candidates for shims. Surface machining reduces combustion chamber size boosting the compression ratio and potential for gasket failure. On V6 and V8 OHV heads, thinner heads can cause intake manifold misalignment. The Head Saver Shim corrects this.

Torque To Yield Bolts

Many current engine designs use bolts that are called "Torque To Yield". As the name implies, these bolts are designed to stretch a certain amount when tightened correctly. During the Heat Cooling Cycle these bolts often take a permanent set and are not capable of regaining the correct torque if re-used. It is recommended that on all engines requiring Torque To Yield Bolts that the bolts are replaced every time the head is removed. Refer to the factory manuals for the correct tightening specifications for each engine. SBI sells TTY Bolts in engine sets for 4 cylinder engines because they normally have only one cylinder head. In the case of the "V" style engines where only one head may have been removed we sell head bolts in single head packs. This means that in most applications two sets will be required for a complete engine. The Notes column of the catalog application section will indicate how many sets are required for that engine.

Valve Keepers

Many Valve Keeper groove failures are due to the use of worn Valve Keepers. When an engine has to run for many miles, the components in the valve train "wear in" together and form wear patterns on mating parts. Often when a cylinder head is rebuilt, these parts are all cleaned together. When the head is reassembled, the mating parts are not assembled in the same order, and the wear patterns are now different. This will cause stress fractures especially when new valves are installed with mismatched worn keepers.

It is recommended that new keepers are ***always*** installed during cylinder head reconditioning procedures!

PRODUCT INFORMATION

Heat Tabs

In most cases the Engine Rebuilder has no control over the installation procedure used on his products. The new head or engine may be running with the same leaky radiator that caused the problem in the first place. SBI recommends the use of heat tabs which give some indication as to engine operating temperatures. Heat Tabs will not indicate individual cylinder conditions, only the coolant temperature in the engine.

<u>Part No.</u>	<u>Melting Point</u>	<u>Qty.</u>
231-1001	250° - 255°	100 Tabs
231-1002	225° - 230°	100 Tabs
231-1000	Adhesive	3.0 Oz.

Injector Tubes, O-Rings And Water Directors

S.B. International, Inc. is now offering **Injector Tubes, O-Rings and Water Directors** for the most popular Heavy Duty Diesel applications.

Our Injector Tubes, O-Rings and Water Directors meet and/or exceed all OEM materials to include **Copper, Stainless Steel, Cast Iron and Brass** as well as all dimensional requirements in order to meet the demands of today's tougher emission standards and ultimately provide a quality product to our customers.

Valve Guide-Liners® / Valve Guide-Liner® Tooling & Miscellaneous Tooling

S.B. International, Inc. is the exclusive master distributor of K-Line® Bronze Bullet Guide-Liners®, Valve Guide-Liner® Tooling and Miscellaneous Tooling.

K-Line®

BRONZE
BULLET®



S. B. INTERNATIONAL, INC.
LIMITED WARRANTY

All products sold by S. B. International, Inc. are warranted to the consumer owner for one (1) year from the date of installation to be free from substantive defects in materials or workmanship.

This Warranty does not apply to any product that has been altered, misused, subject to excessive operating conditions, malfunctions because of foreign particles such as engine dirt or pieces of other deteriorating engine components, products used in a vehicle that has been altered for other than intended purposes.

If a product fails to conform to this warranty, the product should be returned to the place of purchase, then sent back, prepaid to S. B. International. If S. B. International determines that this product fails to conform to this warranty, it will either replace the product or refund its original purchase price, at the option of S. B. International. Purchaser's sole and exclusive remedy under this warranty shall be limited to replacement of the defective part only. S.B. International shall not be responsible for any lost profit or consequential damages of any nature alleged to have been caused by any product defect.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR WARRANTY OF QUALITY, WHETHER EXPRESS OR IMPLIED, EXCEPT THE WARRANTY OF TITLE. ALL IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THIS WARRANTY. THE REMEDIES SET FORTH IN THIS WARRANTY ARE EXCLUSIVE.

The information in this catalog has been gathered from the best available resources. Every effort has been made to ensure accuracy. However, we cannot be responsible for errors or omission.

ACURA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1497cc, (1.5L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LEA2 (2013-15)	ILX	1
1590cc, (1.6L), DOHC, GAS, FI, 16 Valve, D16A1 (1986-89)	Integra	2
1678cc, (1.7L), DOHC, GAS, FI, 16 Valve, B17A1 (1992-93)	Integra	3
1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18C1 (1994-01)	Integra GS-R	4
1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18C5 (1997-01)	Integra Type-R	5
1834cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18A1, B18B1 (1990-01)	Integra	6
1997cc, (2.0L), SOHC, GAS, FI, 16 Valve, R20A5 (2013-15)	ILX	7
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A2 (2002-04)	RSX Type-S	8
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A3 (2002-06)	RSX	9
2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B1 (1997-97)	CL	10
2254cc, (2.3L), SOHC, GAS, FI, 16 Valve, F23A1 (1998-99)	CL	11
2300cc, (2.3L), DOHC, GAS, FI, 16 Valve, K23A1 (2007-12)	RDX	12
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A2 (2004-08)	TSX	13
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z3 (2009-14)	TSX	14
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z7 (2013-15)	ILX	15
2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24W7 (2015-17)	TLX	16
5 Cylinder		
2451cc, (2.5L), SOHC, GAS, FI, 20 Valve, G25A1 (1992-94)	Vigor	17
2451cc, (2.5L), SOHC, GAS, FI, 20 Valve, G25A4 (1995-98)	TL	18
6 Cylinder		
2494cc, (2.5L), SOHC, GAS, FI, 24 Valve, C25A1 (1986-87)	Legend, Sterling 825	19
2675cc, (2.7L), SOHC, GAS, FI, 24 Valve, C27A1 (1987-90)	Legend, Sterling 827	20
2977cc, (3.0L), DOHC, GAS, FI, 24 Valve, C30A1 (1991-05)	NSX	21
2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A1 (1997-99)	CL	22
3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, Vin V, 6VD1 "Isuzu" (1996-97)	SLX	23
3206cc, (3.2L), SOHC, GAS, FI, 24 Valve, C32A1 (1991-95)	Legend L, LS, SE	24
3206cc, (3.2L), SOHC, GAS, FI, 24 Valve, C32A1 "GS Models" (1994-95)	Legend GS	25
3206cc, (3.2L), SOHC, GAS, FI, 24 Valve, C32A6 (1996-98)	TL	26
3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A1 (1999-03)	CL, TL	27
3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A2 (2001-03)	CL, TL	28
3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A3 (2004-08)	TL	29
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A3 (2001-02)	MDX	30
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A5 (2003-06)	MDX	31
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A8 (2005-08)	RL, TL	32
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y4 (2014-17)	RLX	33
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y5 (2015-17)	MDX	34
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y6 (2015-17)	TLX	35
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z2 (2013-17)	RDX	36
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z6 (2009-14)	TL, TSX	37
3475cc, (3.5L), SOHC, GAS, FI, 24 Valve, C35A1 (1996-04)	RL	38

ACURA / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
6 Cylinder		
3494cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin X, 6VE1 "Isuzu" (1998-99)	SLX	39
3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A1 (2007-12) .	MDX	40
3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A2 (2009-12) .	RL	41
3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A4 (2009-14) .	TL	42
3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A5 (2010-13) .	ZDX	43

1 1497cc, (1.5L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LEA2 **ACU-LEA2**
 2013-15 L4 91 CID **BORE - 73mm/2.87"**

PART	YEARS	PART NO.	NOTES
Keeper	Both 2013-15	121-1060	1 RD Bead Type
Stem Seal	Int 2013-15	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2013-15	122-1202	Positive Type,Viton Material,Metal Clad Style

2 1590cc, (1.6L), DOHC, GAS, FI, 16 Valve, D16A1 **D16A1**
 1986-89 L4 97 CID **BORE - 75.2mm/2.96"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1986-89	SB1250-62	1¼ O.D.,1.000 I.D.,0.3050 Depth
	Exh 1986-89	SB1187-54	1¾ O.D.,0.880 I.D.,0.2800 Depth
Keeper	Both 1986-89	121-1054	1 RD Bead Type
Stem Seal	Int 1986-87	122-1136	Positive Type,Viton Material,Ring & Spring Style,1986 - Early 1987, W/ Guide Height 5.8mm
	Exh 1986-87	122-1136	Positive Type,Viton Material,Ring & Spring Style
	Both 1987-89	122-1152	Positive Type,Viton Material,Metal Clad Style,Late 1987-1989 W/ Guide Height 6.3mm
Guide	Int 1986-89	140-8156	0.2605 I.D.,1.770 Length,0.4765 O.D.
	Exh 1986-89	140-8155	0.2605 I.D.,1.975 Length,0.4765 O.D.

3 1678cc, (1.7L), DOHC, GAS, FI, 16 Valve, B17A1 **B17A1**
 1992-93 L4 102 CID **BORE - 81mm/3.19"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1992-93	SB1375-56	1¾ O.D.,1.102 I.D.,0.2600 Depth
	Exh 1992-93	SB1250-58	1¼ O.D.,0.955 I.D.,0.2550 Depth
Valve	Int 1992-93	10434	1.299 Head Diameter
	Exh 1992-93	10435	1.103 Head Diameter
Keeper	Both 1992-93	121-1060	1 RD Bead Type
Stem Seal	Int 1992-93	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 1992-93	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1992-93	140-8397	0.2173 I.D.,1.640 Length,0.4765 O.D.
	1992-93	340-1007BR	0.2161 I.D.,1.641 Length,0.4755 O.D.,Optional Bronze Guide
	Exh 1992-93	140-8577	0.2175 I.D.,1.875 Length,0.4763 O.D.
	1992-93	340-1008BR	0.2165 I.D.,1.870 Length,0.4750 O.D.,Optional Bronze Guide
Head Saver Shim	1992-93	230-2123	New Hgt. 5.589 - 5.593; Min. Hgt. 5.581

4 1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18C1 **B18C1**
 1994-01 L4 110 CID **BORE - 81mm/3.19"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1994-01	SB1375-56	1¾ O.D.,1.102 I.D.,0.2600 Depth
	Exh 1994-01	SB1250-58	1¼ O.D.,0.955 I.D.,0.2550 Depth
Valve	Int 1994-01	10434	1.299 Head Diameter
	Exh 1994-01	10435	1.103 Head Diameter

(Cont'd) **ACURA / PASSENGER CAR OR TRUCK**

1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18C1
1994-01 L4 110 CID

B18C1 4
BORE - 81mm/3.19" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both	1994-01 121-1060	1 RD Bead Type
Stem Seal	Int	1994-01 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1994-01 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1994-01 140-8397	0.2173 I.D.,1.640 Length,0.4765 O.D.
		1994-01 340-1007BR	0.2161 I.D.,1.641 Length,0.4755 O.D.,Optional Bronze Guide
	Exh	1994-01 140-8577	0.2175 I.D.,1.875 Length,0.4763 O.D.
		1994-01 340-1008BR	0.2165 I.D.,1.870 Length,0.4750 O.D.,Optional Bronze Guide
Head Saver Shim	1994-01	230-2123	New Hgt. 5.589 - 5.593; Min. Hgt. 5.581

1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18C5
1997-01 L4 110 CID

B18C5 5
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1997-01 SB1375-56	1 $\frac{3}{8}$ O.D.,1.102 I.D.,0.2600 Depth
	Exh	1997-01 SB1250-58	1 $\frac{1}{4}$ O.D.,0.955 I.D.,0.2550 Depth
Valve	Int	1997-01 10434	1.299 Head Diameter
	Exh	1997-01 10435	1.103 Head Diameter
Keeper	Both	1997-01 121-1060	1 RD Bead Type
Stem Seal	Int	1997-01 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1997-01 122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1997-01 140-8397	0.2173 I.D.,1.640 Length,0.4765 O.D.
		1997-01 340-1007BR	0.2161 I.D.,1.641 Length,0.4755 O.D.,Optional Bronze Guide
	Exh	1997-01 140-8577	0.2175 I.D.,1.875 Length,0.4763 O.D.
		1997-01 340-1008BR	0.2165 I.D.,1.870 Length,0.4750 O.D.,Optional Bronze Guide
Head Saver Shim	1997-01	230-2123	New Hgt. 5.589 - 5.593; Min. Hgt. 5.581

1834cc, (1.8L), DOHC, GAS, FI, 16 Valve, B18A1, B18B1
1990-01 L4 112 CID

B18A1-B1 6
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-01 SB1312-64	1 $\frac{5}{16}$ O.D.,1.045 I.D.,0.3160 Depth
	Exh	1990-01 SB1250-63	1 $\frac{1}{4}$ O.D.,0.930 I.D.,0.3250 Depth
Valve	Int	1990-95 10122	1.217 Head Diameter
		1996-01 10742	1.224 Head Diameter
	Exh	1990-01 10196	1.102 Head Diameter
Keeper	Both	1990-01 121-1054	1 RD Bead Type
Stem Seal	Both	1990-01 122-1152	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-93 140-8156	0.2605 I.D.,1.770 Length,0.4765 O.D.
		1994-01 140-8578	0.2605 I.D.,1.775 Length,0.4763 O.D.,W/Snap Ring
	Exh	1990-93 140-8155	0.2605 I.D.,1.975 Length,0.4765 O.D.
		1994-01 140-8579	0.2605 I.D.,1.970 Length,0.4755 O.D.,W/ Snap Ring

1997cc, (2.0L), SOHC, GAS, FI, 16 Valve, R20A5
2013-15 L4 122 CID

ACU-R20A5 7
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2013-15 121-1060	1 RD Bead Type
Stem Seal	Int	2013-15 122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2013-15 122-1202	Positive Type,Viton Material,Metal Clad Style

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A2
2002-04 L4 122 CID

ACU-K20A2 8
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Guide	Int	2002-04 140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.

ACURA / PASSENGER CAR OR TRUCK (Cont'd)

8 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A2 ACU-K20A2
 (cont.) 2002-04 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Guide	Exh	2002-04 140-3137	0.2173 I.D., 1.790 Length, 0.4370 O.D.

9 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A3 ACU-K20A3
 2002-06 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int Exh	2002-06 2002-06	122-1201 122-1202	Positive Type, Viton Material, Metal Clad Style Positive Type, Viton Material, Metal Clad Style
Guide	Int Exh	2002-06 2002-06	140-3136 140-3137	0.2173 I.D., 1.630 Length, 0.4370 O.D. 0.2173 I.D., 1.790 Length, 0.4370 O.D.

10 2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B1 ACU-F22B1
 1997-97 L4 132 CID BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1997-97 1997-97	SB1375-55 SB1250-64	1 $\frac{3}{8}$ O.D., 1.120 I.D., 0.3250 Depth 1 $\frac{1}{4}$ O.D., 0.970 I.D., 0.2700 Depth
Valve	Int Exh	1997-97 1997-97	10541 10542	1.339 Head Diameter 1.142 Head Diameter, Inconel
Keeper	Both	1997-97	121-1060	1 RD Bead Type
Stem Seal	Int Exh	1997-97 1997-97	122-1201 122-1202	Positive Type, Viton Material, Metal Clad Style Positive Type, Viton Material, Metal Clad Style
Guide	Int Exh	1997-97 1997-97	140-8158 140-8157	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring 0.2173 I.D., 2.130 Length, 0.4358 O.D.
Spring	Int Exh	1997-97 1997-97	160-1393 160-1394	2.020 Length 2.185 Length
Head Saver Shim		1997-97	230-2163	New Hgt. 3.935 - 3.939; Min. Hgt. - 3.932

11 2254cc, (2.3L), SOHC, GAS, FI, 16 Valve, F23A1 ACU-F23A1
 1998-99 L4 137 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	1998-99 1998-99	10541 10542	1.339 Head Diameter 1.142 Head Diameter, Inconel
Keeper	Both	1998-99	121-1060	1 RD Bead Type
Stem Seal	Int Exh	1998-99 1998-99	122-1201 122-1202	Positive Type, Viton Material, Metal Clad Style Positive Type, Viton Material, Metal Clad Style
Guide	Int Exh	1998-99 1998-99	140-8158 140-8157	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring 0.2173 I.D., 2.130 Length, 0.4358 O.D.
Spring	Int Exh	1998-99 1998-99	160-1402 160-1403	2.011 Length 2.180 Length
Head Saver Shim		1998-99	230-2163	New Hgt. 3.935 - 3.939; Min. Hgt. - 3.932

12 2300cc, (2.3L), DOHC, GAS, FI, 16 Valve, K23A1 ACU-K23A1
 2007-12 L4 140 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int Exh	2007-12 2007-12	122-1201 122-1202	Positive Type, Viton Material, Metal Clad Style Positive Type, Viton Material, Metal Clad Style

13 2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A2 ACU-K24A2
 2004-08 L4 144 CID BORE - 87mm/3.42"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-05	13172	1.378 Head Diameter

(Cont'd) **ACURA / PASSENGER CAR OR TRUCK**

2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A2
2004-08 L4 144 CID

ACU-K24A2 13
BORE - 87mm/3.42" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both 2004-08	121-1060	1 RD Bead Type
Stem Seal	Int 2004-08	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2004-08	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2004-08	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh 2004-08	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z3
2009-14 L4 144 CID

ACU-K24Z3 14
BORE - 87mm/3.42"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2009-14	121-1060	1 RD Bead Type
Stem Seal	Int 2009-14	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2009-14	122-1202	Positive Type,Viton Material,Metal Clad Style

2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z7
2013-15 L4 144 CID

ACU-K24Z7 15
BORE - 87mm/3.42"

PART	YEARS	PART NO.	NOTES
Valve	Int 2013-15	13358	1.417 Head Diameter
	Exh 2013-15	13359	1.220 Head Diameter,Inconel
Keeper	Both 2013-15	121-1060	1 RD Bead Type
Stem Seal	Int 2013-15	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2013-15	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2013-15	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh 2013-15	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24W7
2015-17 L4 144 CID

ACU-K24W7 16
BORE - 87mm/3.42"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2015-16	121-1060	1 RD Bead Type
Stem Seal	Int 2015-16	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2015-16	122-1202	Positive Type,Viton Material,Metal Clad Style

2451cc, (2.5L), SOHC, GAS, FI, 20 Valve, G25A1
1992-94 L5 150 CID

G25A1 17
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES
Valve	Int 1992-94	10197A	1.339 Head Diameter,Nitride
	Exh 1992-94	10546	1.142 Head Diameter
Keeper	Int 1992-94	121-1060	1 RD Bead Type
Stem Seal	Int 1992-94	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 1992-94	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1992-94	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 1992-94	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

2451cc, (2.5L), SOHC, GAS, FI, 20 Valve, G25A4
1995-98 L5 150 CID

G25A4 18
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES
Valve	Int 1995-98	10197A	1.339 Head Diameter,Nitride
	Exh 1995-98	10546	1.142 Head Diameter
Keeper	Int 1995-98	121-1060	1 RD Bead Type
Stem Seal	Both 1995-98	122-1201	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1995-98	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

ACURA / PASSENGER CAR OR TRUCK (Cont'd)

18 2451cc, (2.5L), SOHC, GAS, FI, 20 Valve, G25A4 G25A4
 (cont.) 1995-98 L5 150 CID BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES
Guide	Exh	1995-98 140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

19 2494cc, (2.5L), SOHC, GAS, FI, 24 Valve, C25A1 C25A1
 1986-87 V6 152 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve	Int	1986-87 10195	1.299 Head Diameter
	Exh	1986-87 10123	1.084 Head Diameter, 4.204 Overall Length
Keeper	Both	1986-87 121-1054	1 RD Bead Type
Stem Seal	Int	1986-87 122-1136	Positive Type, Viton Material, Ring & Spring Style
	Exh	1986-87 122-1152	Positive Type, Viton Material, Metal Clad Style

20 2675cc, (2.7L), SOHC, GAS, FI, 24 Valve, C27A1 C27A1
 1987-90 V6 163 CID BORE - 87mm/3.42"

PART	YEARS	PART NO.	NOTES
Valve	Int	1987-90 10195	1.299 Head Diameter
	Exh	1987-90 10123	1.084 Head Diameter, 4.204 Overall Length
Keeper	Both	1987-90 121-1054	1 RD Bead Type
Stem Seal	Int	1987-90 122-1136	Positive Type, Viton Material, Ring & Spring Style
	Exh	1987-90 122-1152	Positive Type, Viton Material, Metal Clad Style

21 2977cc, (3.0L), DOHC, GAS, FI, 24 Valve, C30A1 C30A1
 1991-05 V6 182 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Stem Seal	Int	1991-02 122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1991-02 122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1991-02 140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	1991-02 140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

22 2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A1 ACU-J30A1
 1997-99 V6 183 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve	Int	1997-99 10541	1.339 Head Diameter
	Exh	1997-99 10542	1.142 Head Diameter, Inconel
Stem Seal	Int	1997-99 122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1997-99 122-1202	Positive Type, Viton Material, Metal Clad Style
Head Saver Shim		1998-02 230-2170	New Hgt. - 4.762 - 4.766; Min. Hgt. - N/A

23 3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, Vin V, 6VD1 "Isuzu" ACU-6VD1
 1996-97 V6 193 CID BORE - 93.4mm/3.68"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1996-97 SB1437-67	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.2550 Depth
Valve	Int	1996-97 10502	1.339 Head Diameter
	Exh	1996-97 10503	1.181 Head Diameter
Keeper	Both	1996-97 121-1074	1 RD Bead Type
Stem Seal	Both	1996-97 122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1996-97 140-8255	0.2345 I.D., 1.775 Length, 0.4355 O.D., I.D. Must Be Reamed To Size
Spring	Both	1996-97 160-1372	1.970 Length
Head Saver Shim		1996-97 230-2094	New Hgt. - 4.126, 2 Required

(Cont'd) **ACURA / PASSENGER CAR OR TRUCK**

3206cc, (3.2L), SOHC, GAS, FI, 24 Valve, C32A1
1991-95 V6 196 CID

C32A1_LS 24
BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1991-95	10436	1.299 Head Diameter
	Exh	1991-95	10437	1.104 Head Diameter, To Eng. 1310929
Keeper	Both	1991-95	121-1060	1 RD Bead Type
Stem Seal	Int	1991-95	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1991-95	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1991-95	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	1991-95	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

3206cc, (3.2L), SOHC, GAS, FI, 24 Valve, C32A1 "GS Models"
1994-95 V6 196 CID

C32A1_GS 25
BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1994-95	10437	1.104 Head Diameter
Keeper	Both	1994-95	121-1060	1 RD Bead Type
Stem Seal	Int	1994-95	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1994-95	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1994-95	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	1994-95	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

3206cc, (3.2L), SOHC, GAS, FI, 24 Valve, C32A6
1996-98 V6 196 CID

C32A6 26
BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1996-98	10436	1.299 Head Diameter
	Exh	1996-98	10437	1.104 Head Diameter
Keeper	Both	1996-98	121-1060	1 RD Bead Type
Stem Seal	Int	1996-98	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1996-98	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1996-98	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	1996-98	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A1
1999-03 V6 196 CID

ACU-J32A1 27
BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1999-99	10541	1.339 Head Diameter
		2000-03	10778	1.378 Head Diameter
	Exh	1999-99	10542	1.142 Head Diameter, Inconel
		2000-03	10779	1.181 Head Diameter
Keeper	Both	1999-03	121-1060	1 RD Bead Type
Stem Seal	Int	1999-03	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1999-03	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1999-03	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	1999-03	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.
Head Saver Shim		1999-03	230-2171	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A2
2001-03 V6 196 CID

ACU-J32A2 28
BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-03	10778	1.378 Head Diameter
	Exh	2001-03	10779	1.181 Head Diameter
Keeper	Both	2001-03	121-1060	1 RD Bead Type
Stem Seal	Int	2001-03	122-1201	Positive Type, Viton Material, Metal Clad Style

ACURA / PASSENGER CAR OR TRUCK (Cont'd)

28 3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A2 ACU-J32A2
 (cont.) 2001-03 V6 196 CID BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Exh	2001-03	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-03	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2001-03	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		2001-03	230-2171	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

29 3210cc, (3.2L), SOHC, GAS, FI, 24 Valve, J32A3 ACU-J32A3
 2004-08 V6 196 CID BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-08	10778	1.378 Head Diameter
	Exh	2004-08	10779	1.181 Head Diameter
Keeper	Both	2004-08	121-1060	1 RD Bead Type
Stem Seal	Int	2004-08	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2004-08	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-08	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2004-08	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		2004-08	230-2172	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

30 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A3 ACU-J35A3
 2001-02 V6 212 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-02	10778	1.378 Head Diameter
	Exh	2001-02	10779	1.181 Head Diameter
Keeper	Both	2001-02	121-1060	1 RD Bead Type
Stem Seal	Int	2001-02	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2001-02	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-02	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2001-02	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		2001-02	230-2171	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

31 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A5 ACU-J35A5
 2003-06 V6 212 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2003-06	10778	1.378 Head Diameter
	Exh	2003-06	10779	1.181 Head Diameter
Keeper	Both	2003-06	121-1060	1 RD Bead Type
Stem Seal	Int	2003-06	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2003-06	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2003-06	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2003-06	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		2003-06	230-2172	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

32 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A8 ACU-J35A8
 2005-08 V6 212 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2005-08	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2005-08	122-1202	Positive Type,Viton Material,Metal Clad Style

(Cont'd) **ACURA / PASSENGER CAR OR TRUCK**

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y4
2014-17 V6 212 CID

ACU-J35Y4 **33**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2014-16	13336	1.417 Head Diameter
	Exh	2014-16	10779	1.181 Head Diameter
Keeper	Both	2014-16	121-1060	1 RD Bead Type
Stem Seal	Int	2014-16	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2014-16	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2014-16	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2014-16	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y5
2015-17 V6 212 CID

ACU-J35Y5 **34**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2015-16	13336	1.417 Head Diameter
	Exh	2015-16	10779	1.181 Head Diameter
Keeper	Both	2015-16	121-1060	1 RD Bead Type
Stem Seal	Int	2015-16	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2015-16	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2015-16	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2015-16	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y6
2015-17 V6 212 CID

ACU-J35Y6 **35**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2015-16	13336	1.417 Head Diameter
	Exh	2015-16	10779	1.181 Head Diameter
Keeper	Both	2015-16	121-1060	1 RD Bead Type
Stem Seal	Int	2015-16	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2015-16	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2015-16	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2015-16	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z2
2013-17 V6 212 CID

ACU-J35Z2 **36**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-16	13336	1.417 Head Diameter
	Exh	2013-16	10779	1.181 Head Diameter
Keeper	Both	2013-16	121-1060	1 RD Bead Type
Stem Seal	Int	2013-16	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2013-16	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2013-16	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2013-16	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z6
2009-14 V6 212 CID

ACU-J35Z6 **37**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-14	13336	1.417 Head Diameter
	Exh	2009-14	10779	1.181 Head Diameter,TL Only
Keeper	Both	2009-14	121-1060	1 RD Bead Type
Stem Seal	Int	2009-14	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2009-14	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2009-14	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

ACURA / PASSENGER CAR OR TRUCK (Cont'd)

37 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z6 ACU-J35Z6
 (cont.) 2009-14 V6 212 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Guide	Exh 2009-14	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

38 3475cc, (3.5L), SOHC, GAS, FI, 24 Valve, C35A1 C35A1
 1996-04 V6 212 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Valve	Int 1996-04	10436	1.299 Head Diameter
	Exh 1996-04	10437	1.104 Head Diameter
Keeper	Both 1996-04	121-1060	1 RD Bead Type
Stem Seal	Int 1996-04	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 1996-04	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1996-04	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 1996-04	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

39 3494cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin X, 6VE1 "Isuzu" ACU6VE1-DC
 1998-99 V6 213 CID BORE - 93.4mm/3.68"

PART	YEARS	PART NO.	NOTES
Valve	Int 1998-99	10739	1.338 Head Diameter
	Exh 1998-99	10740	1.142 Head Diameter
Keeper	Both 1998-99	121-1074	1 RD Bead Type
Guide	Both 1998-99	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

40 3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A1 ACU-J37A1
 2007-12 V6 224 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Valve	Int 2007-12	13336	1.417 Head Diameter
	Exh 2007-12	10779	1.181 Head Diameter
Keeper	Both 2007-12	121-1060	1 RD Bead Type
Stem Seal	Int 2007-12	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2007-12	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2007-12	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2007-12	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

41 3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A2 ACU-J37A2
 2009-12 V6 224 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2009-12	121-1060	1 RD Bead Type
Stem Seal	Int 2009-12	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2009-12	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2009-12	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2009-12	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

42 3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A4 ACU-J37A4
 2009-14 V6 224 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Valve	Int 2009-14	13336	1.417 Head Diameter
	Exh 2009-14	10779	1.181 Head Diameter
Keeper	Both 2009-14	121-1060	1 RD Bead Type
Stem Seal	Int 2009-14	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2009-14	122-1202	Positive Type,Viton Material,Metal Clad Style

(Cont'd) **ACURA / PASSENGER CAR OR TRUCK**

3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A4
2009-14 V6 224 CID

ACU-J37A4 **42**
BORE - 90mm/3.54" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Int	2009-14	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2009-14	
		140-8158	
		140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3664cc, (3.7L), SOHC, GAS, FI, 24 Valve, J37A5
2010-13 V6 224 CID

ACU-J37A5 **43**
BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Valve	Int	2010-13	1.417 Head Diameter
	Exh	2010-13	
		13336	
		10779	1.181 Head Diameter
Keeper	Both	2010-13	1 RD Bead Type
Stem Seal	Int	2010-13	Positive Type,Viton Material,Metal Clad Style
	Exh	2010-13	
		122-1201	
		122-1202	
Guide	Int	2010-13	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2010-13	
		140-8158	
		140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

ALLIS-CHALMERS / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
125 C.I., (2.0L), B15 8 Valve	C, CA, RC, B125, 60H	1
125 C.I., (2.0L), B 8 Valve	C, CA, RC, B125, 60H	2
125 C.I., (2.0L), B 8 Valve	C, CA, RC, B125, 60H	3
125 C.I., (2.0L), 1B 8 Valve	C, CA, RC, B125, 60H	4
125 C.I., (2.0L), 1B 8 Valve	C, CA, RC, B125, 60H	5
125 C.I., (2.0L), B15 8 Valve	C, CA, RC, B125, 60H	6
138 C.I., (2.3L), G138 8 Valve		7
149 C.I., (2.4L), G149 8 Valve	D10, D12, D14, D15, H3, 66, 72, 90, 10	8
153 C.I., (2.5L), G153 8 Valve	Lift Truck	9
153 C.I., (2.5L), D153/DA153 8 Valve	WD45D	10
160 C.I., (2.6L), G160 8 Valve		11
175 C.I., (2.9L), D175/DA175 8 Valve		12
201 C.I., (3.3L), G201 8 Valve	WC, WF, W25, W, WD, D Motor Grader	13
200 C.I., (3.3L), 8 Valve, Turbo Diesel	433T	14
226 C.I., (3.7L), G226 Gas 8 Valve	D17, WD45, W226	15
226 C.I., (3.7L), G226 LPG 8 Valve		16
236 C.I., (3.9L), 4.236 Perkins Diesel 8 Valve	170, 175	19
248 C.I., (4.2L), 4.248 Perkins Diesel 8 Valve		20
344 C.I., (5.6L), HD344 Buda 8 Valve		27
344 C.I., (5.6L), 7000 8 Valve		28
344 C.I., (5.6L), 6000 8 Valve		29
516 C.I., (8.5L), HD516 Buda 8 Valve		33
6 Cylinder		
230 C.I., (3.8L), G230 12 Valve	Lift Truck	17
230 C.I., (3.8L), D230/DA230 12 Valve	WD45D	18
262 C.I., (4.3L), G262 12 Valve		21
262 C.I., (4.3L), D262 12 Valve		22
262 C.I., (4.3L), DA262 12 Valve		23

ALLIS-CHALMERS / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
6 Cylinder		
265 C.I., (4.3L), G2500 12 Valve		24
301 C.I., (4.9L), D2900 12 Valve	649T, 180, 185, 190, 200, 7000, 7020	25
301 C.I., (4.9L), D2800 12 Valve	649T, 180, 185, 190, 200, 7000, 7020	26
426 C.I., (7.0L), D3750 12 Valve		30
426 C.I., (7.0L), D3400 12 Valve	670T, 6701, 670HI, 7030, 7040, 7045, 7050, 7060, 7080, 7580	31
426 C.I., (7.0L), D3500 12 Valve	670T, 6701, 670HI, 7030, 7040, 7045, 7050, 7060, 7080, 7580	32
516 C.I., (8.5L), 10000 12 Valve		34
516 C.I., (8.5L), 11000 12 Valve		35

1 125 C.I., (2.0L), B15 8 Valve **B15_3.25**
 L4 125 CID **BORE - 82.55mm/3.25"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1375-4	1¾ O.D., 1½ I.D., 3/16 Depth
Valve	Int 00155	1.438 Head Diameter
	Exh 00154	1.313 Head Diameter, W/ Rotators
Keeper	Both 121-1003	1 SQ Bead Type
Guide	Both 140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.
Spring	Both 160-1220	2.313 Length

2 125 C.I., (2.0L), B 8 Valve **B3.25**
 L4 125 CID **BORE - 82.55mm/3.25"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1375-4	1¾ O.D., 1½ I.D., 3/16 Depth
Valve	Int 00155	1.438 Head Diameter
	Exh 00154	1.313 Head Diameter, W/ Rotators
Keeper	Both 121-1003	1 SQ Bead Type
Guide	Both 140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.
Spring	Both 160-1220	2.313 Length

3 125 C.I., (2.0L), B 8 Valve **B 3.375**
 L4 125 CID **BORE - 85.725mm/3.346"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1375-4	1¾ O.D., 1½ I.D., 3/16 Depth
Valve	Int 00155	1.438 Head Diameter
	Exh 00154	1.313 Head Diameter, W/ Rotators
Keeper	Both 121-1003	1 SQ Bead Type
Guide	Both 140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.
Spring	Both 160-1220	2.313 Length

4 125 C.I., (2.0L), 1B 8 Valve **1B_3.25**
 L4 125 CID **BORE - 82.55mm/3.25"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) **ALLIS-CHALMERS / HEAVY DUTY**

125 C.I., (2.0L), 1B 8 Valve **1B_3.25 4**
L4 125 CID **BORE - 82.55mm/3.25" (cont.)**

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1375-4	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{3}{16}$ Depth
Valve	Int	00155	1.438 Head Diameter
	Exh	00154	1.313 Head Diameter, W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.
Spring	Both	160-1220	2.313 Length

125 C.I., (2.0L), 1B 8 Valve **1B_3.375 5**
L4 125 CID **BORE - 85.725mm/3.346"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-4	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{3}{16}$ Depth
Valve	Int	00155	1.438 Head Diameter
	Exh	00154	1.313 Head Diameter, W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.
Spring	Both	160-1220	2.313 Length

125 C.I., (2.0L), B15 8 Valve **B15_3.375 6**
L4 125 CID **BORE - 85.725mm/3.346"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-4	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{3}{16}$ Depth
Valve	Int	00155	1.438 Head Diameter
	Exh	00154	1.313 Head Diameter, W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.
Spring	Both	160-1220	2.313 Length

138 C.I., (2.3L), G138 8 Valve **G138 7**
L4 138 CID **BORE - 85.725mm/3.346"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, D10 To S/N 3501, D12 To S/N 3001
	Exh	SB1375-4	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{3}{16}$ Depth, D10 To S/N 3501, D12 To S/N 3001
Valve	Int	00155	1.438 Head Diameter
	Exh	00154	1.313 Head Diameter, W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D., 2.250 Length, 0.5665 O.D.
Spring	Both	160-1220	2.313 Length, D10 To S/N 3501, D12 To S/N 3001

149 C.I., (2.4L), G149 8 Valve **G149 8**
L4 149 CID **BORE - 88.9mm/3.40"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, D10 From S/N 3501, D12 From S/N 3001, D14, D15 To S/N 9001, H3, 66, 72, 90, 10
Valve	Int	00155	1.438 Head Diameter

ALLIS-CHALMERS / HEAVY DUTY (Cont'd)

8 149 C.I., (2.4L), G149 8 Valve G149
 (cont.) L4 149 CID BORE - 88.9mm/3.40"

PART		PART NO.	NOTES
Valve	Exh	00154	1.313 Head Diameter,W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D.,2.250 Length,0.5665 O.D.

9 153 C.I., (2.5L), G153 8 Valve G153
 L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-2N	
Valve	Int	01073	1.438 Head Diameter
	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1943	0.3445 I.D.,2.250 Length,0.5640 O.D.
	Exh	140-1944	

10 153 C.I., (2.5L), D153/DA153 8 Valve D153
 L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ¹ / ₄ Depth,+3 O/S Available
	Exh	SB1437-2	
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Int	140-1852	0.3130 I.D.,2.656 Length,0.5640 O.D.
	Exh	140-1851	

11 160 C.I., (2.6L), G160 8 Valve G160
 L4 160 CID BORE - 92.075mm/3.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-4	
Valve	Int	00155	1.438 Head Diameter
	Exh	00154	1.313 Head Diameter,W/ Rotators
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1854	0.3445 I.D.,2.250 Length,0.5665 O.D.

12 175 C.I., (2.9L), D175/DA175 8 Valve D175
 L4 175 CID BORE - 90.5mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ¹ / ₄ Depth,+3 O/S Available,W/ 1.375 Valve Head Dia., To S/N 11950
		SB1562-4	
	Exh	SB1562-5	1 ¹ / ₁₆ O.D.,1 ¹ / ₈ I.D., ¹ / ₄ Depth,W/ 1.546 Valve Head Dia., From S/N 119505 To D05033
		SB1375-1N SB1437-2N	
Valve	Int	01042	1.480 Head Diameter,HD3 From S/N D05033
	Exh	01041	1.250 Head Diameter,HD3 From S/N D05033
Keeper	Both	121-1011	1 SQ Bead Type

(Cont'd) ALLIS-CHALMERS / HEAVY DUTY**175 C.I., (2.9L), D175/DA175 8 Valve**
L4 175 CIDD175 **12**
BORE - 90.5mm/3.50" (cont.)

PART		PART NO.	NOTES
Guide	Int	140-1852	0.3130 I.D.,2.656 Length,0.5640 O.D.
	Exh	140-1851	0.3130 I.D.,2.250 Length,0.5640 O.D.

201 C.I., (3.3L), G201 8 Valve
L4 201 CIDG201 **13**
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1¼ O.D.,1½ I.D.,¼ Depth,+10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1562-4+010	1.577 O.D.,1⅝ I.D.,¼ Depth
Valve	Int	00169 00626	1.688 Head Diameter,W/ Narrow Grooves; Groove Width 0.100 1.688 Head Diameter,30 Degree
	Exh	00168	1.500 Head Diameter,W/ Narrow Grooves; Groove Width 0.100
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Int	140-1421	0.3750 I.D.,2.750 Length,0.6895 O.D.
	Exh	140-1853	0.3750 I.D.,2.344 Length,0.6890 O.D.
Spring	Both	160-1220	2.313 Length

200 C.I., (3.3L), 8 Valve, Turbo Diesel
L4 200 CID433T **14**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1609E-1	1.609 O.D.,1.400 I.D.,¼ Depth
	Exh	SB1486E-1	1.486 O.D.,1.270 I.D.,0.2910 Depth
Valve	Int	01524	1.620 Head Diameter,30 Degree Late Style, Replaces 45 Degree Early Style
	Exh	01523S	1.444 Head Diameter,Stellite Face,30 Degree Late Style, Replaces 45 Degree Early Style
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Exh	140-7813	0.3740 I.D.,2.880 Length,0.6263 O.D.,Both Ends Undercut, New Style
	Both	140-6730	0.3739 I.D.,2.880 Length,0.6263 O.D.,Old Style, One End Undercut, +2 O/S Available
Spring	Both	160-1219	2.760 Length

226 C.I., (3.7L), G226 Gas 8 Valve
L4 226 CIDG226G **15**
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1¼ O.D.,1½ I.D.,¼ Depth,+10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1562-4+010	1.577 O.D.,1⅝ I.D.,¼ Depth,D17, D Motor Grader From S/N 5424
Valve	Int	00169 00626	1.688 Head Diameter,WD45 & W226 Only 1.688 Head Diameter,30 Degree
	Exh	00168	1.500 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Int	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Int	140-1421	0.3750 I.D.,2.750 Length,0.6895 O.D.
	Exh	140-1853	0.3750 I.D.,2.344 Length,0.6890 O.D.
Spring	Both	160-1220	2.313 Length

ALLIS-CHALMERS / HEAVY DUTY (Cont'd)

16 226 C.I., (3.7L), G226 LPG 8 Valve
L4 226 CID

G226LP
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1562-4+010	1.577 O.D., 1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth, D17, D Motor Grader From S/N 5424
Valve	Int	00169 00626	1.688 Head Diameter, WD45 & W226 Only 1.688 Head Diameter, 30 Degree
	Exh	00168	1.500 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Int	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Int	140-1421	0.3750 I.D., 2.750 Length, 0.6895 O.D.
	Exh	140-1853	0.3750 I.D., 2.344 Length, 0.6890 O.D.
Spring	Exh	160-1220	2.313 Length

17 230 C.I., (3.8L), G230 12 Valve
L6 230 CID

G230
BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-2N	1 $\frac{7}{16}$ O.D., 1 $\frac{7}{32}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	01073	1.438 Head Diameter
	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1943	0.3445 I.D., 2.250 Length, 0.5640 O.D.
	Exh	140-1944	0.3445 I.D., 2.125 Length, 0.5640 O.D.
Spring	Both	160-1221	2.313 Length

18 230 C.I., (3.8L), D230/DA230 12 Valve
L6 230 CID

D230
BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth, +3 O/S Available
	Exh	SB1437-2	1 $\frac{7}{16}$ O.D., 1 $\frac{7}{32}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Int	140-1852	0.3130 I.D., 2.656 Length, 0.5640 O.D.
	Exh	140-1851	0.3130 I.D., 2.250 Length, 0.5640 O.D.

19 236 C.I., (3.9L), 4.236 Perkins Diesel 8 Valve
L4 236 CID

4.236P
BORE - 98.476mm/3.877"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D., 1 $\frac{9}{16}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D., 1.589 I.D., 0.2825 Depth, OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D., 1.251 I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D., 1.251 I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter, OEM # 31431315
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108

(Cont'd) ALLIS-CHALMERS / HEAVY DUTY**236 C.I., (3.9L), 4.236 Perkins Diesel 8 Valve****4.236P 19**

L4 236 CID

BORE - 98.476mm/3.877" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1015	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D. Positive Type, Poly Material, All Rubber Style, OEM # 33817117
		122-1398	
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM # 3343F002
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM # 3343J002
Spring	Both	160-1291	2.578 Length, Outer, OEM # 31745121
		160-1301	2.000 Length, Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

248 C.I., (4.2L), 4.248 Perkins Diesel 8 Valve**4.248P 20**

L4 248 CID

BORE - 100.965mm/3.975"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D., 1.589 I.D., 0.2825 Depth, OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D., 1.251 I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D., 1.251 I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter, OEM # 31431315
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Stem Seal	Both	122-1015	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D. Positive Type, Poly Material, All Rubber Style, OEM # 33817117
		122-1398	
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM # 3343F002
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM # 3343J002
Spring	Both	160-1291	2.578 Length, Outer, OEM # 31745121
		160-1301	2.000 Length, Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

262 C.I., (4.3L), G262 12 Valve**G262 21**

L6 262 CID

BORE - 90.5mm/3.563"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 $\frac{9}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-2	1 $\frac{7}{16}$ O.D., 1 $\frac{7}{32}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1943	0.3445 I.D., 2.250 Length, 0.5640 O.D.
	Exh	140-1944	0.3445 I.D., 2.125 Length, 0.5640 O.D.
Spring	Both	160-1221	2.313 Length

262 C.I., (4.3L), D262 12 Valve**D262 22**

L6 262 CID

BORE - 90.5mm/3.563"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth, +3 O/S Available, To S/N 119938
		SB1562-4	1 $\frac{9}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, W/ 1.480 Valve Head Dia., From S/N 01681

ALLIS-CHALMERS / HEAVY DUTY (Cont'd)

22 262 C.I., (4.3L), D262 12 Valve
(cont.) L6 262 CID

D262
BORE - 90.5mm/3.563"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-5	1 ⁹ / ₁₆ O.D., 1 ³ / ₈ I.D., 1/4 Depth, W/ 1.546 Valve Head Dia., From S/N 119938 To S/N 01681
	Exh	SB1375-1N SB1437-2N	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., 7/32 Depth, W/ 1.250 Valve Head Dia., From S/N 01681 1 ⁷ / ₁₆ O.D., 1 ¹ / ₃₂ I.D., 7/32 Depth, W/ 1.376 Valve Head Dia. To S/N 01681
Valve	Int	01042	1.480 Head Diameter, From S/N 01681
	Exh	01041	1.250 Head Diameter, From S/N 01681
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Int	140-1852	0.3130 I.D., 2.656 Length, 0.5640 O.D.
	Exh	140-1851	0.3130 I.D., 2.250 Length, 0.5640 O.D.

23 262 C.I., (4.3L), DA262 12 Valve
L6 262 CID

DA262
BORE - 90.5mm/3.563"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 1/4 Depth, +3 O/S Available, W/ 1.375 Valve Head Dia., To S/N 119938
		SB1562-4	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 1/4 Depth, +10 O/S Available, W/ 1.480 Valve Head Dia., From S/N 01681
	Exh	SB1562-5	1 ⁹ / ₁₆ O.D., 1 ³ / ₈ I.D., 1/4 Depth, W/ 1.546 Valve Head Dia., From S/N 119938 To S/N 01681
		SB1375-1N SB1437-2N	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., 7/32 Depth, W/ 1.250 Valve Head Dia., From S/N 01681 1 ⁷ / ₁₆ O.D., 1 ¹ / ₃₂ I.D., 7/32 Depth, W/ 1.376 Valve Head Dia. From S/N 119938 To S/N 01681
Valve	Int	01042	1.480 Head Diameter, From S/N 01681
	Exh	01041	1.250 Head Diameter, From S/N 01681
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Int	140-1852	0.3130 I.D., 2.656 Length, 0.5640 O.D.
	Exh	140-1851	0.3130 I.D., 2.250 Length, 0.5640 O.D.

24 265 C.I., (4.3L), G2500 12 Valve
L6 265 CID

G2500
BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1609E-1	1.609 O.D., 1.400 I.D., 1/4 Depth
	Exh	SB1486E-1	1.486 O.D., 1.270 I.D., 0.2910 Depth
Valve	Int	01524	1.620 Head Diameter
	Exh	01523S	1.444 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-6730	0.3739 I.D., 2.880 Length, 0.6263 O.D., Old Style, One End Undercut, +2 O/S Available
		140-7813	0.3740 I.D., 2.880 Length, 0.6263 O.D., Both Ends Undercut, New Style
Spring	Both	160-1219	2.760 Length

25 301 C.I., (4.9L), D2900 12 Valve
L6 301 CID

D2900
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1609E-1	1.609 O.D., 1.400 I.D., 1/4 Depth
	Exh	SB1486E-1	1.486 O.D., 1.270 I.D., 0.2910 Depth
Valve	Int	01524	1.620 Head Diameter, 30 Degree Late Style, Replaces 45 Degree Early Style
	Exh	01523S	1.444 Head Diameter, Stellite Face, 30 Degree Late Style, Replaces 45 Degree Early Style
Keeper	Both	121-1007	1 SQ Bead Type

(Cont'd) **ALLIS-CHALMERS / HEAVY DUTY**

301 C.I., (4.9L), D2900 12 Valve **D2900 25**
L6 301 CID BORE - 98.425mm/3.875" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-6730	0.3739 I.D.,2.880 Length,0.6263 O.D.,Old Style, One End Undercut, +2 O/S Available
		140-7813	0.3740 I.D.,2.880 Length,0.6263 O.D.,Both Ends Undercut, New Style
Spring	Both	160-1219	2.760 Length

301 C.I., (4.9L), D2800 12 Valve **D2800 26**
L6 301 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1609E-1	1.609 O.D.,1.400 I.D.,¼ Depth
	Exh	SB1486E-1	1.486 O.D.,1.270 I.D.,0.2910 Depth
Valve	Int	01524	1.620 Head Diameter,30 Degree Late Style, Replaces 45 Degree Early Style
	Exh	01523S	1.444 Head Diameter,Stellite Face,30 Degree Late Style, Replaces 45 Degree Early Style
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-6730	0.3739 I.D.,2.880 Length,0.6263 O.D.,Old Style, One End Undercut, +2 O/S Available
		140-7813	0.3740 I.D.,2.880 Length,0.6263 O.D.,Both Ends Undercut, New Style
Spring	Both	160-1219	2.760 Length

344 C.I., (5.6L), HD344 Buda 8 Valve **HD344 27**
L4 344 CID BORE - 112.6mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1687-7	1 ¹¹ / ₁₆ O.D.,1 ³ / ₈ I.D.,¼ Depth,+5 O/S Available

344 C.I., (5.6L), 7000 8 Valve **7000 28**
L4 344 CID BORE - 112.6mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-11	1 ⁷ / ₈ O.D.,1 ¹ / ₁₆ I.D., ⁵ / ₁₆ Depth,Early, 1960-66
	Exh	SB1687-8	1 ¹¹ / ₁₆ O.D.,1 ³ / ₈ I.D., ⁵ / ₁₆ Depth,Early, 1960-66
Guide	Both	140-5745	0.3730 I.D.,3.500 Length,0.6265 O.D.

344 C.I., (5.6L), 6000 8 Valve **6000 29**
L4 344 CID BORE - 112.6mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-11	1 ⁷ / ₈ O.D.,1 ¹ / ₁₆ I.D., ⁵ / ₁₆ Depth,Early, 1960-66
	Exh	SB1687-8	1 ¹¹ / ₁₆ O.D.,1 ³ / ₈ I.D., ⁵ / ₁₆ Depth,Early, 1960-66
Guide	Both	140-5745	0.3730 I.D.,3.500 Length,0.6265 O.D.

426 C.I., (7.0L), D3750 12 Valve **D3750 30**
L6 426 CID BORE - 107.9mm/4.248"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1814E-1	1.814 O.D.,1.600 I.D.,0.3150 Depth
	Exh	SB1670E-1	1.670 O.D.,1.420 I.D.,0.3020 Depth

426 C.I., (7.0L), D3400 12 Valve **D3400 31**
L6 426 CID BORE - 107.95mm/4.250"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1814E-1	1.814 O.D.,1.600 I.D.,0.3150 Depth
	Exh	SB1670E-1	1.670 O.D.,1.420 I.D.,0.3020 Depth
Valve	Int	01526	1.839 Head Diameter
	Exh	01525S	1.651 Head Diameter,Stellite Face

ALLIS-CHALMERS / HEAVY DUTY (Cont'd)

31 426 C.I., (7.0L), D3400 12 Valve D3400
 (cont.) L6 426 CID BORE - 107.95mm/4.250"

PART		PART NO.	NOTES
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1017	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Both	140-6730	0.3739 I.D.,2.880 Length,0.6263 O.D.,Old Style, One End Undercut, +2 O/S Available
		140-7813	0.3740 I.D.,2.880 Length,0.6263 O.D.,Both Ends Undercut, New Style
Spring	Both	160-1219	2.760 Length

32 426 C.I., (7.0L), D3500 12 Valve D3500
 L6 426 CID BORE - 107.95mm/4.250"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1814E-1	1.814 O.D.,1.600 I.D.,0.3150 Depth
	Exh	SB1670E-1	1.670 O.D.,1.420 I.D.,0.3020 Depth
Valve	Int	01526	1.839 Head Diameter,30 Degree
	Exh	01525S	1.651 Head Diameter,Stellite Face,30 Degree
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1017	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Both	140-6730	0.3739 I.D.,2.880 Length,0.6263 O.D.,Old Style, One End Undercut, +2 O/S Available
		140-7813	0.3740 I.D.,2.880 Length,0.6263 O.D.,Both Ends Undercut, New Style
Spring	Both	160-1219	2.760 Length

33 516 C.I., (8.5L), HD516 Buda 8 Valve HD516
 L4 516 CID BORE - 112.6mm/4.433"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2187-13	2 ³ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth
	Exh	SB1687-7	1 ¹¹ / ₁₆ O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth,+5 O/S Available

34 516 C.I., (8.5L), 10000 12 Valve 10000
 L6 516 CID BORE - 112.6mm/4.433"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-11	1 ⁷ / ₈ O.D.,1 ⁹ / ₁₆ I.D., ⁵ / ₁₆ Depth,Early, 1960-66
	Exh	SB1687-8	1 ¹¹ / ₁₆ O.D.,1 ³ / ₈ I.D., ⁵ / ₁₆ Depth,Early, 1960-66
Guide	Both	140-5745	0.3730 I.D.,3.500 Length,0.6265 O.D.

35 516 C.I., (8.5L), 11000 12 Valve 11000
 L6 516 CID BORE - 112.6mm/4.433"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-11	1 ⁷ / ₈ O.D.,1 ⁹ / ₁₆ I.D., ⁵ / ₁₆ Depth,Early, 1960-66
	Exh	SB1687-8	1 ¹¹ / ₁₆ O.D.,1 ³ / ₈ I.D., ⁵ / ₁₆ Depth,Early, 1960-66

AUDI / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1471cc, (1.5L), SOHC, GAS, CARB, XZ (1973-74)	Fox	1
1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin H, CY (1982-83)	4000	2
1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, YG, YH, YK (1975-80)	4000, Fox	3
1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin G, CR, JK (1982-83)	4000	4

(Cont'd) AUDI / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1715cc, (1.7L), SOHC, GAS, FI, 8 Valve, Vin A, WT (1981-83)	4000	5
1760cc, (1.8L), OHV, GAS, CARB, 32 Valve, ZT, ZY (1970-71)	100 Series, Super 90	6
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, JN, MG (1984-87)	4000	7
1781cc, (1.8L), DOHC, GAS, FI, 20 Valve, Vin B, C, S, T, X, AEB, AMB, AMU, ATC, ATW, AWM, AWP, BEA "TURBO" (1997-06)	A4, A4 Quattro, TT, TT Quattro	8
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CNSB (2015-16) .	A3	9
1872cc, (1.9L), GAS, CARB, XT, XU, ZG, ZH, ZK, ZL, ZW (1972-74)	100 Series	10
1872cc, (1.9L), OHV, GAS, FI, 8 Valve, YA, YB, YC, YD (1975-77)	100 Series	11
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CBEA "TDI" (2010-13)	A3	12
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CRUA (2015-15)	A3	13
1983cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin A, B, 3A (1988-90)	80, 90	14
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, BPG, BPY, BWT "TURBO" (2005-09)	A3, A4, A4 Quattro, TT	15
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CAEB "Turbo" (2009-13)	A4, A4 allroad, A4 Quattro, A5, A5 Quattro, A6, A6 Quattro, Q5 .	16
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CAED "Turbo" (2014-16)	A4, A4 Quattro, A5, A5 Quattro, A6, A6 Quattro	17
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CBFA "Turbo" (2008-13)	A3, A3 Quattro	18
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CCTA "Turbo" (2008-16)	A3, A3 Quattro, Q3, Q3 Quattro, TT, TT Quattro	19
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CDMA "Turbo" (2009-15)	TT Quattro	20
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CETA "Turbo" (2011-15)	TT Quattro	21
1984cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, CHJA (2013-16)	Q5	22
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CNTC (2015-16) .	A3 Quattro, TT Quattro	23
1984cc, (2.0L), DOHC, FLEX, FI, 16 Valve, CPMA "Turbo" (2013-13)	A4 allroad, A4 Quattro, A5 Quattro, allroad, Q5	24
1984cc, (2.0L), DOHC, FLEX, FI, 16 Valve, CPMB (2014-16)	A4 allroad, A4 Quattro, A5 Quattro, allroad, Q5	25
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYFB (2015-16) .	S3, TT Quattro	26
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYNB (2016-16) .	A6, A6 Quattro	27
5 Cylinder		
1986cc, (2.0L), SOHC, DIESEL, FI, 10 Valve, Vin G, CN (1979-81)	5000	28
1986cc, (2.0L), SOHC, DIESEL, FI, 10 Valve, Vin H, DE (1982-84)	5000	29
2144cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin A, B, WD, WE, WU (1978-84)	4000, 5000, Coupe	30

AUDI / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
5 Cylinder		
2144cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin C, KH, WK "Turbo" (1980-85)	5000	31
2226cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin B, JT, KZ (1984-87)	4000 Quattro, 5000	32
2226cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin C, D, E, MC "TURBO" (1986-91)	200, 200 Quattro, 5000, 5000 Quattro	33
2226cc, (2.2L), DOHC, GAS, FI, 20 Valve, Vin A, P, R, AAN (1992-96)	S4, S6	34
2309cc, (2.3L), SOHC, GAS, FI, 10 Valve, Vin B, C, D, NF, NG (1988-92)	100, 100 Quattro, 5000, 5000 Quattro, 80, 80 Quattro, 90, 90 Quattro	35
2309cc, (2.3L), DOHC, GAS, FI, 20 Valve, Vin E, 7A (1990-91)	90 Quattro, Coupe Quattro	36
2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, CEPB "Turbo" (2012-13)	TT Quattro	37
6 Cylinder		
2671cc, (2.7L), DOHC, GAS, FI, 30 Valve, Vin D, P, APB, BEL "TURBO" (2000-05)	A6 Quattro, Allroad Quattro, S4	38
2771cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin A, B, C, E, J, K, L, AAH, AFC (1992-98)	100, 100 Quattro, 90, 90 Quattro, A4, A4 Quattro, A6, A6 Quattro, Cabriolet	39
2771cc, (2.8L), DOHC, GAS, FI, 30 Valve, Vin A, D, H, AHA, ATQ (1998-01)	A4, A4 Quattro, A6, A6 Quattro	40
2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CATA "TDI" (2009-12)	Q7	41
2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CNRB "TDI" (2013-15)	Q7	42
2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CPNA "TDI" (2014-14)	A8 Quattro	43
2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CPNB "TDI" (2014-16)	A6 Quattro, A7 Quattro, A8 Quattro, Q5	44
2976cc, (3.0L), DOHC, GAS, FI, 30 Valve, Vin T, AVK (2002-04)	A4, A4 Quattro, A6, A6 Quattro	45
2976cc, (3.0L), DOHC, GAS, FI, 30 Valve, BGN (2005-06)	A4, A4 Quattro	46
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CAJA "Supercharged" (2009-09)	A6 Quattro	47
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CAKA "Supercharged" (2010-12)	S5	48
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CCAA "Supercharged" (2009-11)	A6 Quattro	49
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CCBA "Supercharged" (2010-12)	S4, S5	50
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CGXB "Supercharged" (2012-12)	A7 Quattro	51
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CGXC "Direct Injected Supercharged" (2013-13)	S4, S5	52
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWB "Supercharged" (2011-12)	Q7	53
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWC "Supercharged" (2011-11)	Q7	54

(Cont'd) AUDI / PASSENGER CAR

Engine	Models	Line No.
6 Cylinder		
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWE "Supercharged" (2012-12)	Q7	55
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CREC "Supercharged" (2015-16)	A6 Quattro, A7 Quattro, A8 Quattro	56
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUA "Supercharged" (2013-15)	A6 Quattro, A7 Quattro	57
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUB "Supercharged" (2013-16)	A8 Quattro, S4, S5	58
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUC "Supercharged" (2013-16)	Q5	59
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUD "Direct Injected Supercharged" (2014-16)	SQ5	60
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTWA "Supercharged" (2013-15)	Q7	61
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTWB "Supercharged" (2013-15)	Q7	62
3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, BKH (2005-09)	A4, A4 Quattro, A6, A6 Quattro	63
3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, CALA (2008-11)	A4 Quattro, A5 Quattro, A6	64
3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, CALB (2009-12)	Q5	65
3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, BHE (2004-06)	TT Quattro	66
3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, BUB (2006-07)	A3 Quattro	67
3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, CBRA (2008-09)	A3 Quattro, TT Quattro	68
3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, BHK (2007-10)	Q7	70
8 Cylinder		
3562cc, (3.6L), DOHC, GAS, FI, 32 Valve, Vin E, PT (1990-91)	V8 Quattro	69
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CEUA "Direct Injected Turbo" (2013-14)	A8 Quattro	71
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CEUC "Direct Injected Turbo" (2013-15)	S6, S7	72
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CGTA "Supercharged" (2013-14)	S8	73
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CRDB "Direct Injected Turbo" (2014-15)	RS7	74
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CTGA "Direct Injected Turbo" (2015-15)	A8 Quattro	75
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CTGE (2016-16)	S6, S7	76
3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CWUB (2016-16)	RS7	77
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BAR (2007-10)	Q7	78
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BVJ (2007-11)	A6 Quattro, A8 Quattro	79
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BYH (2008-10)	R8	80
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CAUA (2008-12)	S5	81
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CDRA (2011-12)	A8 Quattro	82
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CFSA "Direct Injected" (2013-15)	RS5	83
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CNDA (2011-15)	R8	84
4163cc, (4.2L), DOHC, GAS, FI, 40 Valve, BHF (2004-09)	S4	85
4163cc, (4.2L), DOHC, GAS, FI, 40 Valve, BNK (2005-06)	A6 Quattro	86

AUDI / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
8 Cylinder		
4172cc, (4.2L), DOHC, GAS, FI, 32 Valve, Vin G, ABZ (1997-99)	A8 Quattro	87
4172cc, (4.2L), DOHC, GAS, FI, 32 Valve, Vin W, ABH (1992-94)	V8 Quattro	88
4172cc, (4.2L), DOHC, GAS, FI, 32 Valve, BNS (2007-08)	RS4	89
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, ART (2000-00)	A6 Quattro	90
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, AKB (2000-03)	A8 Quattro	91
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, AUX (2001-03)	A8 Quattro	92
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, AWN (2001-04)	A6 Quattro	93
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin U, AYS (2001-03)	S8	94
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BAS (2003-05)	Allroad Quattro	95
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin U, BBD (2002-03)	S6	96
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BFM (2004-05)	A8 Quattro	97
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BGK (2006-06)	A8 Quattro	98

10 Cylinder

5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, BSM (2007-09)	S8	99
5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, BXA (2007-11)	S6	100
5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, Vin N, BUJ (2010-12)	R8	101
5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, Vin N, CMPA (2012-12)	R8	102
5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, CTPA (2014-15)	R8	103
5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, CTYA (2014-15)	R8	104

12 Cylinder

5998cc, (6.0L), DOHC, GAS, FI, 48 Valve, BSB (2005-09)	A8 Quattro	105
6229cc, (6.3L), DOHC, GAS, FI, 48 Valve, CEJA "Direct Injected" (2013-14)	A8 Quattro	106
6229cc, (6.3L), DOHC, GAS, FI, 48 Valve, CTNA (2015-16)	A8 Quattro	107

1 1471cc, (1.5L), SOHC, GAS, CARB, XZ 1.5XZ
 1973-74 L4 90 CID BORE - 76.5mm/3.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1973-74	SB1437-50	1 ⁷ / ₁₆ O.D., 1.140T I.D., 0.3050 Depth
	Exh	1973-74	SB1312-50	1 ⁵ / ₁₆ O.D., 1.086T I.D., 0.3050 Depth
		1973-74	SB1312-56	1 ⁵ / ₁₆ O.D., 1.086 I.D., 0.3050 Depth, Optional Straight I.D.
Keeper	Both	1973-74	121-1020	1 RD Bead Type
Stem Seal	Both	1973-74	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1973-74	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
Spring	Both	1973-74	160-1028	1.540 Length, Outer
		1973-74	160-1029	1.390 Length, Inner

(Cont'd) **AUDI / PASSENGER CAR**

1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin H, CY **1.6CY 2**
1982-83 L4 97 CID **BORE - 79.5mm/3.13"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-83	SB1437-50	17/16 O.D.,1.140T I.D.,0.3050 Depth
	Exh	1982-83	SB1312-50	15/16 O.D.,1.086T I.D.,0.3050 Depth
		1982-83	SB1312-56	15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Spring	Both	1982-83	160-1028	1.540 Length,Outer
		1982-83	160-1029	1.390 Length,Inner

1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, YG, YH, YK **1.6Y 3**
1975-80 L4 97 CID **BORE - 79.5mm/3.13"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-80	SB1437-50	17/16 O.D.,1.140T I.D.,0.3050 Depth
	Exh	1975-80	SB1312-50	15/16 O.D.,1.086T I.D.,0.3050 Depth
		1975-80	SB1312-56	15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Keeper	Both	1975-80	121-1020	1 RD Bead Type
Stem Seal	Both	1975-80	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1975-80	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
Spring	Both	1975-80	160-1028	1.540 Length,Outer
		1975-80	160-1029	1.390 Length,Inner

1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin G, CR, JK **1.6CJ 4**
1982-83 L4 97 CID **BORE - 79.5mm/3.13"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-83	SB1437-50	17/16 O.D.,1.140T I.D.,0.3050 Depth
	Exh	1982-83	SB1312-50	15/16 O.D.,1.086T I.D.,0.3050 Depth
		1982-83	SB1312-56	15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Valve	Int	1982-83	10367	1.337 Head Diameter,4.126 Overall Length, 3 Groove
	Exh	1982-83	10370S	1.227 Head Diameter,Stellite Face,4.118 Overall Length, 3 Groove
Keeper	Both	1982-83	121-1020	1 RD Bead Type
		1982-83	121-1024	3 RD Bead Type
Stem Seal	Both	1982-83	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1982-83	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
Spring	Both	1982-83	160-1028	1.540 Length,Outer
		1982-83	160-1029	1.390 Length,Inner

1715cc, (1.7L), SOHC, GAS, FI, 8 Valve, Vin A, WT **1.7WT 5**
1981-83 L4 105 CID **BORE - 79.5mm/3.13"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1981-83	SB1437-50	17/16 O.D.,1.140T I.D.,0.3050 Depth
	Exh	1981-83	SB1312-50	15/16 O.D.,1.086T I.D.,0.3050 Depth
		1981-83	SB1312-56	15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Keeper	Both	1981-83	121-1024	3 RD Bead Type
Stem Seal	Both	1981-83	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1981-83	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.,Exc. 1982-83 Exh.
Spring	Both	1981-83	160-1028	1.540 Length,Outer
		1981-83	160-1029	1.390 Length,Inner

1760cc, (1.8L), OHV, GAS, CARB, 32 Valve, ZT, ZY **1.82Z 6**
1970-71 L4 107 CID **BORE - 81.5mm/3.21"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1970-71	SB1437-59	17/16 O.D.,1.180T I.D.,0.3050 Depth

AUDI / PASSENGER CAR (Cont'd)

7 1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, JN, MG
1984-87 L4 109 CID

1.8MJ
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-87	SB1625-50	1 $\frac{5}{8}$ O.D., 1.340T I.D., 0.3070 Depth
	Exh	1984-87	SB1375-55	1 $\frac{3}{8}$ O.D., 1.120 I.D., 0.3250 Depth
Valve	Exh	1984-87	10356S	1.299 Head Diameter, Stellite Face
Keeper	Both	1984-87	121-1024	3 RD Bead Type
Stem Seal	Both	1984-87	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1984-84	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
		1985-87	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
Spring	Both	1984-87	160-1028	1.540 Length, Outer
		1984-87	160-1029	1.390 Length, Inner
Lifter	Both	1984-87	VL116	Hydraulic Bucket Type

8 1781cc, (1.8L), DOHC, GAS, FI, 20 Valve, Vin B, C, S, T, X, AEB, AMB,
AMU, ATC, ATW, AWM, AWP, BEA "TURBO"
1997-06 L4 109 CID

AUD1.8-20VT
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1997-06	SB1125-53	1 $\frac{1}{8}$ O.D., 0.890T I.D., 0.2370 Depth, NOTE: Seat May Need To Be Machined .020"-.030" To Achieve Correct Depth
	Exh	1997-06	SB1250-54	1 $\frac{1}{4}$ O.D., 1.010T I.D., 0.2570 Depth, NOTE: Seat May Need To Be Machined .020"-.030" To Achieve Correct Depth
Valve	Int	1997-06	10804S	1.059 Head Diameter, Stellite Face
		1997-06	10803S	1.177 Head Diameter, Stellite Face, W/.157 Tip To Groove Length, OEM # 058109611M
		1997-06	10805S	1.177 Head Diameter, Stellite Face, W/.222 Tip To Groove Length, OEM # 058109611E
Exh	1997-06			
Keeper	Both	1997-06	121-1098	3 RD Bead Type
Stem Seal	Both	1997-06	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1997-06	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Spring	Int	1997-06	160-1471	1.615 Length
	Exh	1997-06	160-1472	1.725 Length
Lifter	Int	1997-06	VL523	Hydraulic Bucket Type
	Exh	1997-06	VL524	Hydraulic Bucket Type
Head Bolt Set		2000-06	220-1120	Torque To Yield, Except AEB Engine Code; Services Engine
Head Saver Shim		1997-06	230-2138	New Hgt. - N/A - Min. Hgt. - 5.480"

9 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CNSB
2015-16 L4 110 CID

AUD1.8-CNSB
BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2015-16	13318	1.102 Head Diameter
Keeper	Both	2015-16	121-1098	3 RD Bead Type
Stem Seal	Both	2015-16	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2015-16	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2015-16	VL569	Hydraulic Lash Adjuster Type

10 1872cc, (1.9L), GAS, CARB, XT, XU, ZG, ZH, ZK, ZL, ZW
1972-74 L4 114 CID

1.9Z-CA
BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1972-74	SB1437-59	1 $\frac{7}{16}$ O.D., 1.180T I.D., 0.3050 Depth

(Cont'd) **AUDI / PASSENGER CAR**

1872cc, (1.9L), OHV, GAS, FI, 8 Valve, YA, YB, YC, YD 1.9Z-FI **11**
1975-77 L4 114 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1975-77	SB1437-59	1 $\frac{7}{16}$ O.D.,1.180T I.D.,0.3050 Depth

1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CBEA "TDI" AUD2.0-CBEA **12**
2010-13 L4 120 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2010-13	121-1098	3 RD Bead Type
Stem Seal	Both 2010-13	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2010-13	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CRUA AUD2.0-CRUA **13**
2015-15 L4 120 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2015-15	121-1098	3 RD Bead Type
Stem Seal	Both 2015-15	122-1363	Positive Type,Viton Material,Metal Clad Style

1983cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin A, B, 3A 2.03A **14**
1988-90 L4 121 CID BORE - 84.1mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1988-90 Exh 1988-90	SB1625-50 SB1375-55	1% O.D.,1.340T I.D.,0.3070 Depth 1% O.D.,1.120 I.D.,0.3250 Depth
Valve	Int 1988-90 Exh 1988-90	10158S 10356S	1.555 Head Diameter,Stellite Face 1.299 Head Diameter,Stellite Face
Keeper	Exh 1988-90	121-1024	3 RD Bead Type
Stem Seal	Both 1988-90	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1988-90	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
Lifter	Both 1988-90	VL116	Hydraulic Bucket Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, BPG, BPY, BWT "TURBO" 2.0BPG **15**
2005-09 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES
Valve	Int 2005-09 Exh 2005-09	13315S 13316SN	1.333 Head Diameter,Stellite Face 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both 2005-09	121-1098	3 RD Bead Type
Stem Seal	Both 2005-09	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2005-09	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both 2005-09	VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CAEB "Turbo" AUD2.0-CAEB **16**
2009-13 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES
Valve	Int 2009-13 Exh 2009-13	13315S 13316SN	1.333 Head Diameter,Stellite Face 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both 2009-13	121-1098	3 RD Bead Type
Stem Seal	Both 2009-13	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2009-13	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both 2009-13	VL569	Hydraulic Lash Adjuster Type

AUDI / PASSENGER CAR (Cont'd)

17 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CAED "Turbo" AUD2.0-CAED
 2014-16 L4 121 CID BORE - 82.6mm/3.25"

PART		YEARS	PART NO.	NOTES
Valve	Int	2014-16	13315S	1.333 Head Diameter,Stellite Face
	Exh	2014-16	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2014-16	121-1098	3 RD Bead Type
Stem Seal	Both	2014-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-16	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2014-16	VL569	Hydraulic Lash Adjuster Type

18 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CBFA "Turbo" AUD2.0-CBFA
 2008-13 L4 121 CID BORE - 82.6mm/3.25"

PART		YEARS	PART NO.	NOTES
Valve	Int	2008-13	13315S	1.333 Head Diameter,Stellite Face
	Exh	2008-13	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2008-13	121-1098	3 RD Bead Type
Stem Seal	Both	2008-13	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-13	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2008-13	VL569	Hydraulic Lash Adjuster Type

19 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CCTA "Turbo" AUD2.0-CCTA
 2008-16 L4 121 CID BORE - 82.6mm/3.25"

PART		YEARS	PART NO.	NOTES
Valve	Int	2008-13	13315S	1.333 Head Diameter,Stellite Face
	Exh	2008-16	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2008-16	121-1098	3 RD Bead Type
Stem Seal	Both	2008-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-16	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2008-16	VL569	Hydraulic Lash Adjuster Type

20 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CDMA "Turbo" AUD2.0-CDMA
 2009-15 L4 121 CID BORE - 82.6mm/3.25"

PART		YEARS	PART NO.	NOTES
Valve	Int	2009-15	13315S	1.333 Head Diameter,Stellite Face
	Exh	2009-15	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2009-15	121-1098	3 RD Bead Type
Stem Seal	Both	2009-15	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2009-15	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2009-15	VL569	Hydraulic Lash Adjuster Type

21 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CETA "Turbo" AUD2.0-CETA
 2011-15 L4 121 CID BORE - 82.6mm/3.25"

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-15	13315S	1.333 Head Diameter,Stellite Face
	Exh	2011-15	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2011-15	121-1098	3 RD Bead Type
Stem Seal	Both	2011-15	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-15	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2011-15	VL569	Hydraulic Lash Adjuster Type

(Cont'd) **AUDI / PASSENGER CAR**

1984cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, CHJA AUD2.0-CHJA **22**
2013-16 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-16	13315S	1.333 Head Diameter,Stellite Face
	Exh	2013-16	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-16	121-1098	3 RD Bead Type
Stem Seal	Both	2013-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-16	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-16	VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CNTC AUD2.0-CNTC **23**
2015-16 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2015-16	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2015-16	121-1098	3 RD Bead Type
Stem Seal	Both	2015-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2015-16	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2015-16	VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, FLEX, FI, 16 Valve, CPMA "Turbo" AUD2.0-CPMA **24**
2013-13 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-13	13315S	1.333 Head Diameter,Stellite Face
	Exh	2013-13	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-13	121-1098	3 RD Bead Type
Stem Seal	Both	2013-13	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-13	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-13	VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, FLEX, FI, 16 Valve, CPMB AUD2.0-CPMB **25**
2014-16 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2014-16	13315S	1.333 Head Diameter,Stellite Face
	Exh	2014-16	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2014-16	121-1098	3 RD Bead Type
Stem Seal	Both	2014-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-16	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2014-16	VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYFB AUD2.0-CYFB **26**
2015-16 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2015-16	13318	1.102 Head Diameter
Keeper	Both	2015-16	121-1098	3 RD Bead Type
Stem Seal	Both	2015-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	2015-16	VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYNB AUD2.0-CYNB **27**
2016-16 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-16	121-1098	3 RD Bead Type

AUDI / PASSENGER CAR (Cont'd)

27 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYNB AUD2.0-CYNB
 (cont.) 2016-16 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	2016-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Lifter		2016-16	v1569	Hydraulic Lash Adjuster Type

28 1986cc, (2.0L), SOHC, DIESEL, FI, 10 Valve, Vin G, CN 2.0CN
 1979-81 L5 121 CID BORE - 76.5mm/3.01"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1979-81	SB1500-62	1½ O.D.,1.220T I.D.,0.3100 Depth
	Exh	1979-81	SB1312-50	1⅝ O.D.,1.086T I.D.,0.3050 Depth
		1979-81	SB1312-56	1⅝ O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Valve	Exh	1979-81	10370S	1.227 Head Diameter,Stellite Face,4.118 Overall Length, 3 Groove
Keeper	Both	1979-81	121-1020	1 RD Bead Type
		1979-81	121-1024	3 RD Bead Type
Stem Seal	Both	1979-81	122-1089	Positive Type,Viton Material,Metal Clad Style
Spring	Both	1979-81	160-1028	1.540 Length,Outer
		1979-81	160-1029	1.390 Length,Inner

29 1986cc, (2.0L), SOHC, DIESEL, FI, 10 Valve, Vin H, DE 2.0DE
 1982-84 L5 121 CID BORE - 76.5mm/3.01"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-84	SB1500-62	1½ O.D.,1.220T I.D.,0.3100 Depth
	Exh	1982-84	SB1312-50	1⅝ O.D.,1.086T I.D.,0.3050 Depth
		1982-84	SB1312-56	1⅝ O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Valve	Exh	1982-84	10370S	1.227 Head Diameter,Stellite Face,4.118 Overall Length, 3 Groove
Keeper	Exh	1982-84	121-1024	3 RD Bead Type
Stem Seal	Both	1982-84	122-1089	Positive Type,Viton Material,Metal Clad Style
Spring	Both	1982-84	160-1028	1.540 Length,Outer
		1982-84	160-1029	1.390 Length,Inner

30 2144cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin A, B, WD, WE, WU 2.2W-DEU
 1978-84 L5 131 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1978-84	SB1312-50	1⅝ O.D.,1.086T I.D.,0.3050 Depth
		1978-84	SB1312-56	1⅝ O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Keeper	Exh	1978-80	121-1020	1 RD Bead Type
Stem Seal	Both	1978-84	122-1089	Positive Type,Viton Material,Metal Clad Style
Spring	Both	1978-82	160-1028	1.540 Length,Outer
		1978-82	160-1029	1.390 Length,Inner

31 2144cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin C, KH, WK "Turbo" 2.2W-KH
 1980-85 L5 131 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1980-85	SB1312-50	1⅝ O.D.,1.086T I.D.,0.3050 Depth
		1980-85	SB1312-56	1⅝ O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Valve	Exh	1983-85	10356S	1.299 Head Diameter,Stellite Face,3.591 Overall Length
Keeper	Both	1983-85	121-1024	3 RD Bead Type
Stem Seal	Both	1980-85	122-1089	Positive Type,Viton Material,Metal Clad Style
Spring	Both	1980-85	160-1028	1.540 Length,Outer
		1980-85	160-1029	1.390 Length,Inner

(Cont'd) **AUDI / PASSENGER CAR**

2226cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin B, JT, KZ
1984-87 L5 136 CID

2.2JT-KZ 32
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-87	SB1625-50	1 $\frac{5}{8}$ O.D., 1.340T I.D., 0.3070 Depth
	Exh	1984-87	SB1375-55	1 $\frac{5}{8}$ O.D., 1.120 I.D., 0.3250 Depth
Valve	Exh	1984-87	10356S	1.299 Head Diameter, Stellite Face
Keeper	Both	1984-87	121-1024	3 RD Bead Type
Stem Seal	Both	1984-87	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1984-87	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
	Exh	1984-87	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
Lifter	Both	1984-87	VL116	Hydraulic Bucket Type

2226cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin C, D, E, MC "TURBO"
1986-91 L5 136 CID

2.2MC 33
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-91	SB1625-50	1 $\frac{5}{8}$ O.D., 1.340T I.D., 0.3070 Depth
	Exh	1986-91	SB1375-55	1 $\frac{5}{8}$ O.D., 1.120 I.D., 0.3250 Depth
Keeper	Int	1986-91	121-1024	3 RD Bead Type
Stem Seal	Both	1986-91	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1986-91	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
	Exh	1986-91	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
Lifter	Both	1986-91	VL116	Hydraulic Bucket Type

2226cc, (2.2L), DOHC, GAS, FI, 20 Valve, Vin A, P, R, AAN
1992-96 L5 136 CID

2.2AAN 34
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-96	SB1312-64	1 $\frac{5}{16}$ O.D., 1.045 I.D., 0.3160 Depth
	Exh	1992-96	SB1125-54	1 $\frac{1}{8}$ O.D., 0.900 I.D., 0.3250 Depth
Stem Seal	Both	1992-96	122-1250	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1992-96	140-8139	0.2765 I.D., 1.488 Length, 0.4763 O.D.
Lifter	Both	1992-96	VL116	Hydraulic Bucket Type

2309cc, (2.3L), SOHC, GAS, FI, 10 Valve, Vin B, C, D, NF, NG
1988-92 L5 141 CID

2.3N-FG 35
BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-92	SB1625-50	1 $\frac{5}{8}$ O.D., 1.340T I.D., 0.3070 Depth, W/ 1.579 Valve Head Dia.
	Exh	1988-92	SB1375-55	1 $\frac{5}{8}$ O.D., 1.120 I.D., 0.3250 Depth
Valve	Int	1988-92	10158S	1.555 Head Diameter, Stellite Face, NG Engine
	Exh	1988-92	10356S	1.299 Head Diameter, Stellite Face
Keeper	Both	1988-92	121-1024	3 RD Bead Type
Stem Seal	Both	1988-92	122-1089	Positive Type, Viton Material, Metal Clad Style, NG Eng. Only
Guide	Both	1988-92	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
Lifter	Both	1988-92	VL116	Hydraulic Bucket Type

2309cc, (2.3L), DOHC, GAS, FI, 20 Valve, Vin E, 7A
1990-91 L5 141 CID

2.3-7A 36
BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-91	SB1312-64	1 $\frac{5}{16}$ O.D., 1.045 I.D., 0.3160 Depth
	Exh	1990-91	SB1125-54	1 $\frac{1}{8}$ O.D., 0.900 I.D., 0.3250 Depth
Stem Seal	Both	1990-91	122-1250	Positive Type, Viton Material, Metal Clad Style
Lifter	Both	1990-91	VL116	Hydraulic Bucket Type

AUDI / PASSENGER CAR (Cont'd)

37 2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, CEPB "Turbo"
2012-13 L5 151 CID

AUD2.5-CEPB
BORE - 82.6mm/3.25"

PART		YEARS	PART NO.	NOTES
Valve	Int	2012-13	13315S	1.333 Head Diameter,Stellite Face
	Exh	2012-13	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2012-13	121-1098	3 RD Bead Type
Stem Seal	Both	2012-13	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-13	140-3159BR	0.2362 I.D., 1.415 Length,0.4355 O.D.
Lifter	Both	2012-13	VL569	Hydraulic Lash Adjuster Type

38 2671cc, (2.7L), DOHC, GAS, FI, 30 Valve, Vin D, P, APB, BEL "TURBO"
2000-05 V6 163 CID

AUD-2.7T
BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2000-05	SB1125-53	1 $\frac{1}{8}$ O.D.,0.890T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .020"-.030" To Achieve Correct Depth
	Exh	2000-05	SB1250-54	1 $\frac{1}{4}$ O.D.,1.010T I.D.,0.2570 Depth,NOTE: Seat May Need To Be Machined .020"-.030" To Achieve Correct Depth
Valve	Int	2000-05	10804S	1.059 Head Diameter,Stellite Face
	Exh	2000-05	10803S	1.177 Head Diameter,Stellite Face,W/.157 Tip To Groove Length, OEM # 058109611M
		2000-05	10805S	1.177 Head Diameter,Stellite Face,W/.222 Tip To Groove Length, OEM # 058109611E
Keeper	Both	2000-05	121-1098	3 RD Bead Type
Stem Seal	Both	2000-05	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2000-05	140-3159BR	0.2362 I.D., 1.415 Length,0.4355 O.D.
Spring	Int	2000-05	160-1471	1.615 Length
	Exh	2000-05	160-1472	1.725 Length
Lifter	Int	2000-05	VL523	Hydraulic Bucket Type
	Exh	2000-05	VL524	Hydraulic Bucket Type

39 2771cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin A, B, C, E, J, K, L, AAH, AFC
1992-98 V6 169 CID

AUD2.8-SC12V
BORE - 82.5mm/3.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1992-95	SB1625-50	1 $\frac{5}{8}$ O.D.,1.340T I.D.,0.3070 Depth
	Exh	1992-95	SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
Valve	Int	1992-95	10158S	1.555 Head Diameter,Stellite Face,W/8mm Stem Dia.
		1995-98	10733	1.555 Head Diameter,W/7mm Stem Dia.
	Exh	1992-95	10356S	1.299 Head Diameter,Stellite Face,W/8mm Stem Dia.
		1995-98	10734S	1.295 Head Diameter,Stellite Face,W/7mm Stem Dia.
Keeper	Both	1992-95	121-1024	3 RD Bead Type,W/8mm Stem Dia.
		1995-98	121-1128	3 RD Bead Type,W/7mm Stem Dia.
Stem Seal	Both	1992-95	122-1089	Positive Type,Viton Material,Metal Clad Style,W/8mm Stem Dia.
		1995-98	122-1250	Positive Type,Viton Material,Metal Clad Style,W/7mm Stem Dia.
Guide	Both	1992-95	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.,W/8mm Stem Dia.
		1995-98	140-8558	0.2765 I.D.,1.435 Length,0.4763 O.D.,W/7mm Stem Dia.
Lifter	Both	1992-95	VL116	Hydraulic Bucket Type

(Cont'd) **AUDI / PASSENGER CAR**

2771cc, (2.8L), DOHC, GAS, FI, 30 Valve, Vin A, D, H, AHA, ATQ **2.8-AHA 40**
1998-01 V6 169 CID **BORE - 81mm/3.19", 82.5mm/3.27"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1998-01	1 1/8 O.D., 0.890T I.D., 0.2370 Depth, NOTE: Seat May Need To Be Machined .020"-.030" To Achieve Correct Depth
	Exh	1998-01	
Valve	Int	1998-01	1.059 Head Diameter, Stellite Face
	Exh	1998-01	1.177 Head Diameter, Stellite Face, W/.157 Tip To Groove Length, OEM # 058109611M
		1998-01	1.177 Head Diameter, Stellite Face, W/.222 Tip To Groove Length, OEM # 058109611E
Keeper	Both	1998-01	121-1098 3 RD Bead Type
Stem Seal	Both	1998-01	122-1363 Positive Type, Viton Material, Metal Clad Style
Guide	Both	1998-01	140-3159BR 0.2362 I.D., 1.415 Length, 0.4355 O.D.
Spring	Int	1998-01	160-1471 1.615 Length
	Exh	1998-01	160-1472 1.725 Length
Lifter	Int	1998-01	VL523 Hydraulic Bucket Type
	Exh	1998-01	VL524 Hydraulic Bucket Type

2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CATA "TDI" **AUD3.0-CATA 41**
2009-12 V6 181 CID **BORE - 83mm/3.27"**

PART	YEARS	PART NO.	NOTES
Keeper	Both	2009-12	121-1098 3 RD Bead Type
Stem Seal	Both	2009-12	122-1363 Positive Type, Viton Material, Metal Clad Style
Guide	Both	2009-12	140-3159BR 0.2362 I.D., 1.415 Length, 0.4355 O.D.

2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CNRB "TDI" **AUD3.0-CNRB 42**
2013-15 V6 181 CID **BORE - 83mm/3.27"**

PART	YEARS	PART NO.	NOTES
Keeper	Both	2013-15	121-1098 3 RD Bead Type
Stem Seal	Both	2013-15	122-1363 Positive Type, Viton Material, Metal Clad Style
Guide	Both	2013-15	140-3159BR 0.2362 I.D., 1.415 Length, 0.4355 O.D.

2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CPNA "TDI" **AUD3.0-CPNA 43**
2014-14 V6 181 CID **BORE - 83mm/3.27"**

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-14	121-1098 3 RD Bead Type
Stem Seal	Both	2014-14	122-1363 Positive Type, Viton Material, Metal Clad Style
Guide	Both	2014-14	140-3159BR 0.2362 I.D., 1.415 Length, 0.4355 O.D.

2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CPNB "TDI" **AUD3.0-CPNB 44**
2014-16 V6 181 CID **BORE - 83mm/3.27"**

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-16	121-1098 3 RD Bead Type
Stem Seal	Both	2014-16	122-1363 Positive Type, Viton Material, Metal Clad Style
Guide	Both	2014-16	140-3159BR 0.2362 I.D., 1.415 Length, 0.4355 O.D.

2976cc, (3.0L), DOHC, GAS, FI, 30 Valve, Vin T, AVK **3.0-AVK 45**
2002-04 V6 **BORE - 82.5mm/3.25"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2002-04	SB1250-54 1 1/4 O.D., 1.010T I.D., 0.2570 Depth, NOTE: Seat May Need To Be Machined .020"-.030" To Achieve Correct Depth

AUDI / PASSENGER CAR (Cont'd)

45 2976cc, (3.0L), DOHC, GAS, FI, 30 Valve, Vin T, AVK 3.0-AVK
 (cont.) 2002-04 V6 BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2002-04	SB1125-53	1 1/8 O.D., 0.890T I.D., 0.2370 Depth, NOTE: Seat May Need To Be Machined .020"-.030" To Achieve Correct Depth
Valve	Int	2002-04	10804S	1.059 Head Diameter, Stellite Face
	Exh	2002-04	10803S	1.177 Head Diameter, Stellite Face, W/.157 Tip To Groove Length, OEM # 058109611M
		2002-04	10805S	1.177 Head Diameter, Stellite Face, W/.222 Tip To Groove Length, OEM # 058109611E
Keeper	Both	2002-04	121-1098	3 RD Bead Type
Stem Seal	Both	2002-04	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2002-04	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Spring	Int	2002-04	160-1471	1.615 Length
	Exh	2002-04	160-1472	1.725 Length
Lifter	Int	2002-04	VL523	Hydraulic Bucket Type
	Exh	2002-04	VL524	Hydraulic Bucket Type

46 2976cc, (3.0L), DOHC, GAS, FI, 30 Valve, BGN 3.0-BGN
 2005-06 V6 182 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2005-06	SB1125-53	1 1/8 O.D., 0.890T I.D., 0.2370 Depth, NOTE: Seat May Need To Be Machined .020"-.030" To Achieve Correct Depth
	Exh	2005-06	SB1250-54	1 1/4 O.D., 1.010T I.D., 0.2570 Depth, NOTE: Seat May Need To Be Machined .020"-.030" To Achieve Correct Depth
Valve	Int	2005-06	10804S	1.059 Head Diameter, Stellite Face
	Exh	2005-06	10803S	1.177 Head Diameter, Stellite Face, W/ .157 Tip To Groove Length, OEM # 058109611M
		2005-06	10805S	1.177 Head Diameter, Stellite Face, W/ .222 Tip To Groove Length, OEM # 058109611E
Keeper	Both	2005-06	121-1098	3 RD Bead Type
Stem Seal	Both	2005-06	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2005-06	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Spring	Int	2005-06	160-1471	1.615 Length
	Exh	2005-06	160-1472	1.725 Length
Lifter	Int	2005-06	VL523	Hydraulic Bucket Type
	Exh	2005-06	VL524	Hydraulic Bucket Type

47 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CAJA "Supercharged" AUD3.0-CAJA
 2009-09 V6 183 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-09	13314	1.333 Head Diameter
	Exh	2009-09	13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2009-09	121-1098	3 RD Bead Type
Stem Seal	Both	2009-09	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2009-09	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2009-09	VL569	Hydraulic Lash Adjuster Type

48 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CAKA "Supercharged" AUD3.0-CAKA
 2010-12 V6 183 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2010-12	121-1098	3 RD Bead Type
Stem Seal	Both	2010-12	122-1363	Positive Type, Viton Material, Metal Clad Style

(Cont'd) **AUDI / PASSENGER CAR**

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CAKA "Supercharged" AUD3.0-CAKA **48**
2010-12 V6 183 CID BORE - 84.5mm/3.33" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both	2010-12 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CCAA "Supercharged" AUD3.0-CCAA **49**
2009-11 V6 183 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2009-11 13314 2009-11 13316SN	1.333 Head Diameter 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2009-11 121-1098	3 RD Bead Type
Stem Seal	Both	2009-11 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2009-11 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2009-11 VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CCBA "Supercharged" AUD3.0-CCBA **50**
2010-12 V6 183 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2010-12 13314 2010-12 13316SN	1.333 Head Diameter 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2010-12 121-1098	3 RD Bead Type
Stem Seal	Both	2010-12 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2010-12 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2010-12 VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CGXB "Supercharged" AUD3.0-CGXB **51**
2012-12 V6 183 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2012-12 13314 2012-12 13316SN	1.333 Head Diameter 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2012-12 121-1098	3 RD Bead Type
Stem Seal	Both	2012-12 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-12 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2012-12 VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CGXC "Direct Injected Supercharged" AUD3.0-CGXC **52**
2013-13 V6 183 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2013-13 13314 2013-13 13316SN	1.333 Head Diameter 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-13 121-1098	3 RD Bead Type
Stem Seal	Both	2013-13 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-13 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-13 VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWB "Supercharged" AUD3.0-CJWB **53**
2011-12 V6 183 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2011-12 13314 2011-12 13316SN	1.333 Head Diameter 1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2011-12 121-1098	3 RD Bead Type

AUDI / PASSENGER CAR (Cont'd)

53 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWB "Supercharged" AUD3.0-CJWB
 (cont.) 2011-12 V6 183 CID BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	2011-12	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-12	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2011-12	VL569	Hydraulic Lash Adjuster Type

54 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWC "Supercharged" AUD3.0-CJWC
 2011-11 V6 183 CID BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-11	13314	1.333 Head Diameter
	Exh	2011-11	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2011-11	121-1098	3 RD Bead Type
Stem Seal	Both	2011-11	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-11	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2011-11	VL569	Hydraulic Lash Adjuster Type

55 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CJWE "Supercharged" AUD3.0-CJWE
 2012-12 V6 183 CID BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve	Int	2012-12	13314	1.333 Head Diameter
	Exh	2012-12	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2012-12	121-1098	3 RD Bead Type
Stem Seal	Both	2012-12	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-12	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2012-12	VL569	Hydraulic Lash Adjuster Type

56 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CREC "Supercharged" AUD3.0-CREC
 2015-16 V6 183 CID BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve	Int	2015-16	13314	1.333 Head Diameter
	Exh	2015-16	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2015-16	121-1098	3 RD Bead Type
Stem Seal	Both	2015-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2015-16	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2015-16	VL569	Hydraulic Lash Adjuster Type

57 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUA "Supercharged" AUD3.0-CTUA
 2013-15 V6 183 CID BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve	Int	2013-15	13314	1.333 Head Diameter
	Exh	2013-15	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-15	121-1098	3 RD Bead Type
Stem Seal	Both	2013-15	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-15	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-15	VL569	Hydraulic Lash Adjuster Type

58 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUB "Supercharged" AUD3.0-CTUB
 2013-16 V6 183 CID BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve	Int	2013-16	13314	1.333 Head Diameter
	Exh	2013-15	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled

(Cont'd) **AUDI / PASSENGER CAR**

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUB "Supercharged" AUD3.0-CTUB **58**
2013-16 V6 183 CID BORE - 84.5mm/3.33" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both	2013-16 121-1098	3 RD Bead Type
Stem Seal	Both	2013-16 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-16 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-16 VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUC "Supercharged" AUD3.0-CTUC **59**
2013-16 V6 183 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2013-16 13314 2013-16 13318	1.333 Head Diameter 1.102 Head Diameter
Keeper	Both	2013-16 121-1098	3 RD Bead Type
Stem Seal	Both	2013-16 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-16 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-16 VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTUD "Direct Injected Supercharged" AUD3.0-CTUD **60**
2014-16 V6 183 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2014-16 13314 2014-16 13318	1.333 Head Diameter 1.102 Head Diameter
Keeper	Both	2014-16 121-1098	3 RD Bead Type
Stem Seal	Both	2014-16 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-16 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2014-16 VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTWA "Supercharged" AUD3.0-CTWA **61**
2013-15 V6 183 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2013-15 13314	1.333 Head Diameter
Keeper	Both	2013-15 121-1098	3 RD Bead Type
Stem Seal	Both	2013-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-15 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-15 VL569	Hydraulic Lash Adjuster Type

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, CTWB "Supercharged" AUD3.0-CTWB **62**
2013-15 V6 183 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2013-15 13314	1.333 Head Diameter
Keeper	Both	2013-15 121-1098	3 RD Bead Type
Stem Seal	Both	2013-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-15 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-15 VL569	Hydraulic Lash Adjuster Type

3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, BKH AUD3.2-BKH **63**
2005-09 V6 195 CID BORE - 84.6mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2005-09 13314	1.333 Head Diameter

AUDI / PASSENGER CAR (Cont'd)

63 3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, BKH AUD3.2-BKH
 (cont.) 2005-09 V6 195 CID BORE - 84.6mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Exh	2005-09 13318	1.102 Head Diameter
Keeper	Both	2005-09 121-1098	3 RD Bead Type
Stem Seal	Both	2005-09 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2005-09 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2005-09 VL569	Hydraulic Lash Adjuster Type

64 3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, CALA AUD3.2-CALA
 2008-11 V6 191 CID BORE - 84.6mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2008-11 13314	1.333 Head Diameter
	Exh	2008-11 13318	1.102 Head Diameter
Keeper	Both	2008-11 121-1098	3 RD Bead Type
Stem Seal	Both	2008-11 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-11 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2008-11 VL569	Hydraulic Lash Adjuster Type

65 3123cc, (3.2L), DOHC, GAS, FI, 24 Valve, CALB AUD3.2-CALB
 2009-12 V6 191 CID BORE - 84.6mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2009-12 13314	1.333 Head Diameter
	Exh	2009-12 13318	1.102 Head Diameter
Keeper	Both	2009-12 121-1098	3 RD Bead Type
Stem Seal	Both	2009-12 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2009-12 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2009-12 VL569	Hydraulic Lash Adjuster Type

66 3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, BHE AUD3.2-BHE
 2004-06 V6 195 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve	Int	2004-06 13310	1.307 Head Diameter,136.36mm Overall Length
		2004-06 13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2004-06 13311S	1.189 Head Diameter,Stellite Face,136.00mm Overall Length
		2004-06 13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2004-06 121-1098	3 RD Bead Type
Stem Seal	Both	2004-06 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-06 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

67 3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, BUB AUD3.2-BUB
 2006-07 V6 195 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve	Int	2006-07 13310	1.307 Head Diameter,136.36mm Overall Length
		2006-07 13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2006-07 13311S	1.189 Head Diameter,Stellite Face,136.00mm Overall Length
		2006-07 13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2006-07 121-1098	3 RD Bead Type
Stem Seal	Both	2006-07 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2006-07 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

(Cont'd) AUDI / PASSENGER CAR**3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, CBRA**
2008-09 V6 195 CIDAUD3.2-CBRA **68**
BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-09	13310	1.307 Head Diameter,136.36mm Overall Length
		2008-09	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2008-09	13311S	1.189 Head Diameter,Stellite Face,136.20mm Overall Length
		2008-09	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2008-09	121-1098	3 RD Bead Type
Stem Seal	Both	2008-09	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-09	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

3562cc, (3.6L), DOHC, GAS, FI, 32 Valve, Vin E, PT
1990-91 V8 217 CID3.6-PT **69**
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1990-91	122-1250	Positive Type,Viton Material,Metal Clad Style

3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, BHK
2007-10 V6 219 CIDAUD3.6-BHK **70**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-10	13310	1.307 Head Diameter,136.36mm Overall Length
		2007-10	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2007-10	13311S	1.189 Head Diameter,Stellite Face,136.00mm Overall Length
		2007-10	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2007-10	121-1098	3 RD Bead Type
Stem Seal	Both	2007-10	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-10	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CEUA "Direct Injected Turbo"
2013-14 V8 243 CIDAUD4.0-CEUA **71**
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-14	13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2013-14	121-1098	3 RD Bead Type
Stem Seal	Both	2013-14	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-14	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CEUC "Direct Injected Turbo"
2013-15 V8 243 CIDAUD4.0-CEUC **72**
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-15	13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2013-15	121-1098	3 RD Bead Type
Stem Seal	Both	2013-15	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-15	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CGTA "Supercharged"
2013-14 V8 243 CIDAUD4.0-CGTA **73**
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-14	13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2013-14	121-1098	3 RD Bead Type
Stem Seal	Both	2013-14	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-14	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

AUDI / PASSENGER CAR (Cont'd)

74 3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CRDB "Direct Injected Turbo" AUD4.0-CRDB
2014-15 V8 243 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2014-15 13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2014-15 121-1098	3 RD Bead Type
Stem Seal	Both	2014-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-15 140-3159BR	0.2362 I.D., 1.415 Length,0.4355 O.D.

75 3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CTGA "Direct Injected Turbo" AUD4.0-CTGA
2015-15 V8 243 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2015-15 13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2015-15 121-1098	3 RD Bead Type
Stem Seal	Both	2015-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2015-15 140-3159BR	0.2362 I.D., 1.415 Length,0.4355 O.D.

76 3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CTGE AUD4.0-CTGE
2016-16 V8 243 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2016-16 13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2016-16 121-1098	3 RD Bead Type

77 3993cc, (4.0L), DOHC, GAS, FI, 32 Valve, CWUB AUD4.0-CWUB
2016-16 V8 243 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Exh	2016-16 13315S	1.333 Head Diameter,Stellite Face
Keeper	Both	2016-16 121-1098	3 RD Bead Type

78 4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BAR AUD4.2-BAR
2007-10 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2007-10 13314	1.333 Head Diameter
	Exh	2007-10 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2007-10 121-1098	3 RD Bead Type
Stem Seal	Both	2007-10 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-10 140-3159BR	0.2362 I.D., 1.415 Length,0.4355 O.D.
Lifter	Both	2007-10 VL569	Hydraulic Lash Adjuster Type

79 4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BVJ AUD4.2-BVJ
2007-11 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2007-11 13314	1.333 Head Diameter
	Exh	2007-11 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2007-11 121-1098	3 RD Bead Type
Stem Seal	Both	2007-11 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-11 140-3159BR	0.2362 I.D., 1.415 Length,0.4355 O.D.
Lifter	Both	2007-11 VL569	Hydraulic Lash Adjuster Type

80 4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BYH AUD4.2-BYH
2008-10 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Exh	2008-10 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled

(Cont'd) **AUDI / PASSENGER CAR**

4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BYH AUD4.2-BYH **80**
2008-10 V8 254 CID BORE - 84.5mm/3.33" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both	2008-10 121-1098	3 RD Bead Type
Stem Seal	Both	2008-10 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-10 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CAUA AUD4.2-CAUA **81**
2008-12 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2008-12 13314	1.333 Head Diameter
	Exh	2008-12 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2008-12 121-1098	3 RD Bead Type
Stem Seal	Both	2008-12 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-12 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CDRA AUD4.2-CDRA **82**
2011-12 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Exh	2011-12 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2011-12 121-1098	3 RD Bead Type
Stem Seal	Both	2011-12 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-12 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2011-12 VL569	Hydraulic Lash Adjuster Type

4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CFSA "Direct Injected" AUD4.2-CFSA **83**
2013-15 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Exh	2013-15 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-15 121-1098	3 RD Bead Type
Stem Seal	Both	2013-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-15 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, CNDA AUD4.2-CNDA **84**
2011-15 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Exh	2011-15 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2011-15 121-1098	3 RD Bead Type
Stem Seal	Both	2011-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-15 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4163cc, (4.2L), DOHC, GAS, FI, 40 Valve, BHF AUD4.2-BHF **85**
2004-09 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2004-09 13319S	1.059 Head Diameter,Stellite Face
	Exh	2004-09 13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2004-09 121-1098	3 RD Bead Type
Stem Seal	Both	2004-09 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-09 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

AUDI / PASSENGER CAR (Cont'd)

86 4163cc, (4.2L), DOHC, GAS, FI, 40 Valve, BNK AUD4.2-BNK
2005-06 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-05	13319S	1.059 Head Diameter,Stellite Face
		2006-06	13314	1.333 Head Diameter
	Exh	2005-05	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
		2006-06	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2005-06	121-1098	3 RD Bead Type
Stem Seal	Both	2005-06	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2005-06	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

87 4172cc, (4.2L), DOHC, GAS, FI, 32 Valve, Vin G, ABZ AUD4.2-ABZ
1997-99 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1997-99	121-1098	3 RD Bead Type
Stem Seal	Both	1997-99	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1997-99	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

88 4172cc, (4.2L), DOHC, GAS, FI, 32 Valve, Vin W, ABH AUD4.2-ABH
1992-94 V8 255 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1992-94	122-1250	Positive Type,Viton Material,Metal Clad Style

89 4172cc, (4.2L), DOHC, GAS, FI, 32 Valve, BNS AUD4.2-BNS
2007-08 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-08	13319S	1.059 Head Diameter,Stellite Face
		2007-08	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2007-08	121-1098	3 RD Bead Type
		2007-08	122-1363	Positive Type,Viton Material,Metal Clad Style
Stem Seal	Both	2007-08	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Guide	Both	2007-08	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

90 4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, ART AUD4.2-ART
2000-00 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2000-00	13319S	1.059 Head Diameter,Stellite Face
		2000-00	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2000-00	121-1098	3 RD Bead Type
		2000-00	122-1363	Positive Type,Viton Material,Metal Clad Style
Stem Seal	Both	2000-00	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Guide	Both	2000-00	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

91 4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, AKB AUD4.2-AKB
2000-03 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2000-03	13319S	1.059 Head Diameter,Stellite Face
		2000-03	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2000-03	121-1098	3 RD Bead Type
		2000-03	122-1363	Positive Type,Viton Material,Metal Clad Style
Stem Seal	Both	2000-03	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Guide	Both	2000-03	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

(Cont'd) **AUDI / PASSENGER CAR**

4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, AUX **AUD4.2-AUX 92**
2001-03 V8 254 CID **BORE - 84.5mm/3.33"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2001-03	13319S	1.059 Head Diameter,Stellite Face
	Exh	2001-03	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2001-03	121-1098	3 RD Bead Type
Stem Seal	Both	2001-03	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-03	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin L, AWN **AUD4.2-AWN 93**
2001-04 V8 254 CID **BORE - 84.5mm/3.33"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2001-04	13319S	1.059 Head Diameter,Stellite Face
	Exh	2001-04	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2001-04	121-1098	3 RD Bead Type
Stem Seal	Both	2001-04	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-04	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin U, AYS **AUD4.2-AYS 94**
2001-03 V8 254 CID **BORE - 84.5mm/3.33"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2001-03	13319S	1.059 Head Diameter,Stellite Face
	Exh	2001-03	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2001-03	121-1098	3 RD Bead Type
Stem Seal	Both	2001-03	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-03	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BAS **AUD4.2-BAS 95**
2003-05 V8 254 CID **BORE - 84.5mm/3.33"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2003-05	13319S	1.059 Head Diameter,Stellite Face
	Exh	2003-05	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2003-05	121-1098	3 RD Bead Type
Stem Seal	Both	2003-05	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2003-05	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, Vin U, BBD **AUD4.2-BBD 96**
2002-03 V8 254 CID **BORE - 84.5mm/3.33"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2002-03	13319S	1.059 Head Diameter,Stellite Face
	Exh	2002-03	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2002-03	121-1098	3 RD Bead Type
Stem Seal	Both	2002-03	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2002-03	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BFM **AUD4.2-BFM 97**
2004-05 V8 254 CID **BORE - 84.5mm/3.33"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2004-05	13319S	1.059 Head Diameter,Stellite Face
	Exh	2004-05	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2004-05	121-1098	3 RD Bead Type
Stem Seal	Both	2004-05	122-1363	Positive Type,Viton Material,Metal Clad Style

AUDI / PASSENGER CAR (Cont'd)

97 4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BFM AUD4.2-BFM
 (cont.) 2004-05 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Guide	Both	2004-05 140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.

98 4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, BGK AUD4.2-BGK
 2006-06 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2006-06 13319S	1.059 Head Diameter, Stellite Face
	Exh	2006-06 13320SN	1.177 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2006-06 121-1098	3 RD Bead Type
Stem Seal	Both	2006-06 122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2006-06 140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.

99 5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, BSM AUD5.2-BSM
 2007-09 V10 317 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2007-09 13314	1.333 Head Diameter
	Exh	2007-09 13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2007-09 121-1098	3 RD Bead Type
Stem Seal	Both	2007-09 122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2007-09 140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2007-09 VL569	Hydraulic Lash Adjuster Type

100 5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, BXA AUD5.2-BXA
 2007-11 V10 317 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2007-11 13314	1.333 Head Diameter
	Exh	2007-11 13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2007-11 121-1098	3 RD Bead Type
Stem Seal	Both	2007-11 122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2007-11 140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2007-11 VL569	Hydraulic Lash Adjuster Type

101 5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, Vin N, BUJ AUD5.2-BUJ
 2010-12 V10 317 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Exh	2010-12 13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2010-12 121-1098	3 RD Bead Type
Stem Seal	Both	2010-12 122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2010-12 140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.

102 5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, Vin N, CMPA AUD5.2-CMPA
 2012-12 V10 317 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Exh	2012-12 13316SN	1.102 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2012-12 121-1098	3 RD Bead Type
Stem Seal	Both	2012-12 122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2012-12 140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.

(Cont'd) **AUDI / PASSENGER CAR**

5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, CTPA AUD5.2-CTPA **103**
2014-15 V10 317 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Exh 2014-15	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both 2014-15	121-1098	3 RD Bead Type
Stem Seal	Both 2014-15	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2014-15	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

5204cc, (5.2L), DOHC, GAS, FI, 40 Valve, CTYA AUD5.2-CTYA **104**
2014-15 V10 317 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Exh 2014-15	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both 2014-15	121-1098	3 RD Bead Type
Stem Seal	Both 2014-15	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2014-15	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

5998cc, (6.0L), DOHC, GAS, FI, 48 Valve, BSB AUD6.0-BSB **105**
2005-09 W12 366 CID BORE - 83.82mm/3.30"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2005-09	121-1098	3 RD Bead Type
Stem Seal	Both 2005-09	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2005-09	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

6229cc, (6.3L), DOHC, GAS, FI, 48 Valve, CEJA "Direct Injected" AUD6.3-CEJA **106**
2013-14 W12 384 CID BORE - 86.1mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve	Int 2013-14	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh 2013-14	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both 2013-14	121-1098	3 RD Bead Type
Stem Seal	Both 2013-14	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2013-14	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

6229cc, (6.3L), DOHC, GAS, FI, 48 Valve, CTNA AUD6.3-CTNA **107**
2015-16 W12 384 CID BORE - 86.1mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve	Int 2015-16	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh 2015-16	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both 2015-16	121-1098	3 RD Bead Type
Stem Seal	Both 2015-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2015-16	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

BMW / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1766cc, (1.8L), SOHC, GAS, FI, 8 Valve, M10 (1980-85)	318i, 320i	1
1796cc, (1.8L), DOHC, GAS, FI, 16 Valve, M42 (1991-95)	318i, 318is, 318ti	2
1895cc, (1.9L), DOHC, GAS, FI, 16 Valve, M44 (1996-99)	318i, 318is, 318ti, Z3	3
1990cc, (2.0L), SOHC, GAS, CARB, FI, 8 Valve, M10 (1975-79)	2002, 320i	4

BMW / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
6 Cylinder		
2494cc, (2.5L), SOHC, GAS, FI, 12 Valve, M20 (1987-93) . . .	325i, 325is, 325iX, 525i	5
2494cc, (2.5L), DOHC, GAS, FI, 24 Valve, M50, M50TU (1991-95)	325i, 325is, 525i	6
2494cc, (2.5L), DOHC, GAS, FI, 24 Valve, M52 (1998-00) . . .	323Ci, 323i, 323is, Z3	7
2693cc, (2.7L), SOHC, GAS, FI, 12 Valve, M20 (1982-88) . . .	325, 325e, 325es, 528e	8
2788cc, (2.8L), SOHC, GAS, CARB, FI, M30 (1969-81)	2.8 Bavaria, 2800, 2800CS, 528i	9
2793cc, (2.8L), DOHC, GAS, FI, 24 Valve, M52 (1996-00) . . .	328Ci, 328i, 328is, 528i, Z3	10
2985cc, (3.0L), SOHC, GAS, CARB, FI, M30 (1972-77)	3.0CS, 3.0CSi, 3.0S, 3.0Si, 530i, 630CSi, Bavaria	11
2990cc, (3.0L), DOHC, GAS, FI, 24 Valve, S50 (1995-95) . . .	M3	12
3152cc, (3.2L), DOHC, GAS, FI, 24 Valve, S52 (1996-00) . . .	M3, Z3	13
3210cc, (3.2L), SOHC, GAS, FI, 12 Valve, M30 (1978-84) . . .	533i, 633CSi, 733i	14
3430cc, (3.5L), SOHC, GAS, FI, 12 Valve, M30 (1985-93) . . .	535i, 535is, 635CSi, 735i, 735iL, L6, L7	15

12 Cylinder

4988cc, (5.0L), SOHC, GAS, FI, 24 Valve, M70 (1988-94) . . .	750iL, 850Ci, 850i	16
5379cc, (5.4L), SOHC, GAS, FI, 24 Valve, M73, M73N (1995-01)	750iL, 850Ci	17
5576cc, (5.6L), SOHC, GAS, FI, 24 Valve, S70 (1994-95) . . .	850CSi	18

1 1766cc, (1.8L), SOHC, GAS, FI, 8 Valve, M10 1980-85 L4 107 CID 1.8-M10 BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1980-85	SB1625-63	1 ⁵ / ₈ O.D., 1.345T I.D., 0.2900 Depth

2 1796cc, (1.8L), DOHC, GAS, FI, 16 Valve, M42 1991-95 L4 110 CID 1.8-M42 BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1991-95	SB1375-55	1 ³ / ₈ O.D., 1.120 I.D., 0.3250 Depth
	Exh 1991-95	SB1312-64	1 ⁵ / ₁₆ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int 1992-95	10695	1.299 Head Diameter, 0.2349 Stem Dia.
	Exh 1992-95	10696S	1.198 Head Diameter, Stellite Face, 0.2349 Stem Dia.

3 1895cc, (1.9L), DOHC, GAS, FI, 16 Valve, M44 1996-99 L4 116 CID 1.9-M44 BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES
Valve	Int 1996-99	10695	1.299 Head Diameter
	Exh 1996-99	10696S	1.198 Head Diameter, Stellite Face

4 1990cc, (2.0L), SOHC, GAS, CARB, FI, 8 Valve, M10 1975-79 L4 121 CID 2.0-M10 BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1975-79	SB1625-63	1 ⁵ / ₈ O.D., 1.345T I.D., 0.2900 Depth

5 2494cc, (2.5L), SOHC, GAS, FI, 12 Valve, M20 1987-93 L6 152 CID 2.5-M20 BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1987-93	SB1750-60	1 ³ / ₄ O.D., 1.437T I.D., 0.3020 Depth
	Exh 1987-93	SB1500-62	1 ¹ / ₂ O.D., 1.220T I.D., 0.3100 Depth
Valve	Int 1987-93	10373	1.651 Head Diameter
	Exh 1987-93	10374S	1.415 Head Diameter, Stellite Face
Head Saver Shim	1987-93	230-2000	New Hgt. - 4.9200 - 4.9250; Min. Hgt - 4.9090

(Cont'd) **BMW / PASSENGER CAR**

2494cc, (2.5L), DOHC, GAS, FI, 24 Valve, M50, M50TU				2.5-M50	6
1991-95		L6	152 CID	BORE - 84mm/3.31"	
PART	YEARS	PART NO.	NOTES		
Valve Seat Insert	Int	1991-95	SB1375-55	1 $\frac{3}{8}$ O.D., 1.120 I.D., 0.3250 Depth	
	Exh	1991-95	SB1312-64	1 $\frac{5}{16}$ O.D., 1.045 I.D., 0.3160 Depth	
Valve	Int	1993-95	10695	1.299 Head Diameter, 0.2349 Stem Dia.	
	Exh	1993-95	10696S	1.198 Head Diameter, Stellite Face, 0.2349 Stem Dia.	
2494cc, (2.5L), DOHC, GAS, FI, 24 Valve, M52				2.5-M52	7
1998-00		L6	152 CID	BORE - 84mm/3.31"	
PART	YEARS	PART NO.	NOTES		
Valve	Int	1998-00	10695	1.299 Head Diameter	
	Exh	1998-00	10696S	1.198 Head Diameter, Stellite Face	
2693cc, (2.7L), SOHC, GAS, FI, 12 Valve, M20				2.7-M20	8
1982-88		L6	164 CID	BORE - 84mm/3.31"	
PART	YEARS	PART NO.	NOTES		
Valve Seat Insert	Int	1986-88	SB1750-60	1 $\frac{3}{4}$ O.D., 1.437T I.D., 0.3020 Depth	
	Exh	1986-88	SB1500-62	1 $\frac{1}{2}$ O.D., 1.220T I.D., 0.3100 Depth	
Head Saver Shim		1982-88	230-2000	New Hgt. - 4.9350 - 4.9400; Min. Hgt - 4.9090	
2788cc, (2.8L), SOHC, GAS, CARB, FI, M30				2.8-M30	9
1969-81		L6	170 CID	BORE - 86mm/3.39"	
PART	YEARS	PART NO.	NOTES		
Valve Seat Insert	Exh	1969-81	SB1625-63	1 $\frac{5}{8}$ O.D., 1.345T I.D., 0.2900 Depth	
2793cc, (2.8L), DOHC, GAS, FI, 24 Valve, M52				M52	10
1996-00		L6	170 CID	BORE - 84mm/3.31"	
PART	YEARS	PART NO.	NOTES		
Valve	Int	1996-00	10695	1.299 Head Diameter	
	Exh	1996-00	10696S	1.198 Head Diameter, Stellite Face	
2985cc, (3.0L), SOHC, GAS, CARB, FI, M30				3.0-M30	11
1972-77		L6	182 CID	BORE - 89mm/3.50"	
PART	YEARS	PART NO.	NOTES		
Valve Seat Insert	Exh	1972-77	SB1625-63	1 $\frac{5}{8}$ O.D., 1.345T I.D., 0.2900 Depth	
2990cc, (3.0L), DOHC, GAS, FI, 24 Valve, S50				3.0-S50	12
1995-95		L6	182 CID	BORE - 84mm/3.31"	
PART	YEARS	PART NO.	NOTES		
Valve Seat Insert	Int	1995-95	SB1375-55	1 $\frac{3}{8}$ O.D., 1.120 I.D., 0.3250 Depth	
	Exh	1995-95	SB1312-64	1 $\frac{5}{16}$ O.D., 1.045 I.D., 0.3160 Depth	
Valve	Int	1995-95	10695	1.299 Head Diameter	
	Exh	1995-95	10696S	1.198 Head Diameter, Stellite Face	
3152cc, (3.2L), DOHC, GAS, FI, 24 Valve, S52				3.2-S52	13
1996-00		L6	192 CID	BORE - 86.4mm/3.40"	
PART	YEARS	PART NO.	NOTES		
Valve	Int	1996-00	10695	1.299 Head Diameter	
	Exh	1996-00	10696S	1.198 Head Diameter, Stellite Face	
3210cc, (3.2L), SOHC, GAS, FI, 12 Valve, M30				3.2-M30	14
1978-84		L6	196 CID	BORE - 88.9mm/3.50"	
PART	YEARS	PART NO.	NOTES		
Valve Seat Insert	Exh	1978-84	SB1625-63	1 $\frac{5}{8}$ O.D., 1.345T I.D., 0.2900 Depth	

BMW / PASSENGER CAR (Cont'd)

15 3430cc, (3.5L), SOHC, GAS, FI, 12 Valve, M30 3.5-M30
 1985-93 L6 209 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1985-89	SB1625-63	1 ⁵ / ₈ O.D., 1.345T I.D., 0.2900 Depth
		1987-93	SB1625-56	1 ⁵ / ₈ O.D., 1.298T I.D., 0.3170 Depth, +10, +30 O/S Available

16 4988cc, (5.0L), SOHC, GAS, FI, 24 Valve, M70 5.0-M70
 1988-94 V12 304 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-94	SB1750-60	1 ³ / ₄ O.D., 1.437T I.D., 0.3020 Depth
	Exh	1988-94	SB1500-63	1 ¹ / ₂ O.D., 1.210T I.D., 0.3450 Depth

17 5379cc, (5.4L), SOHC, GAS, FI, 24 Valve, M73, M73N 5.4-M73
 1995-01 V12 328 CID BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-98	SB1750-60	1 ³ / ₄ O.D., 1.437T I.D., 0.3020 Depth
	Exh	1995-98	SB1500-53	1 ¹ / ₂ O.D., 1.180T I.D., 0.3070 Depth

18 5576cc, (5.6L), SOHC, GAS, FI, 24 Valve, S70 5.6-S70
 1994-95 V12 340 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-95	SB1750-60	1 ³ / ₄ O.D., 1.437T I.D., 0.3020 Depth
	Exh	1994-95	SB1500-53	1 ¹ / ₂ O.D., 1.180T I.D., 0.3070 Depth

BUDA / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
153 C.I., (2.5L), 4D153 8 Valve		1
153 C.I., (2.5L), 4DA153 8 Valve		2
153 C.I., (2.5L), 4G153 Gas 8 Valve		3
153 C.I., (2.5L), 4G153 LPG 8 Valve		4
153 C.I., (2.5L), 4DME153 8 Valve		5
153 C.I., (2.5L), 4BDMR153 8 Valve		6
153 C.I., (2.5L), 4B153 8 Valve		7
153 C.I., (2.5L), 4BD153 8 Valve		8
153 C.I., (2.5L), 4BDMG153 8 Valve		9
182 C.I., (3.0L), 4BDMR182 8 Valve		10
182 C.I., (3.0L), 4B182 8 Valve		11
182 C.I., (3.0L), 4BD182 8 Valve		12
193 C.I., (3.2L), 4DT196 8 Valve		13
196 C.I., (3.2L), 4DTM196 8 Valve		14
212 C.I., (3.5L), 4DTM212 8 Valve		15
212 C.I., (3.5L), 4DT212 8 Valve		16
6 Cylinder		
230 C.I., (3.8L), 6B230 12 Valve		17
230 C.I., (3.8L), 6BDM230 12 Valve		18
230 C.I., (3.8L), 6BDMR230 12 Valve		19
230 C.I., (3.8L), 6D230 12 Valve		20
230 C.I., (3.8L), 6BD230 12 Valve		21
230 C.I., (3.8L), 6G230 LPG 12 Valve		22

(Cont'd) BUDA / HEAVY DUTY

Engine	Models	Line No.
6 Cylinder		
230 C.I., (3.8L), 6DA230 12 Valve		23
230 C.I., (3.8L), 6G230 Gas 12 Valve		24
272 C.I., (4.5L), 6DA273 12 Valve		25
273 C.I., (4.5L), D273 12 Valve		26
273 C.I., (4.5L), 6B273 12 Valve		27
273 C.I., (4.5L), 6BD273 12 Valve		28
278 C.I., (4.6L), 6DT278 12 Valve		29
294 C.I., (4.8L), 6DT294 12 Valve		30
317 C.I., (5.2L), 6DTM317 12 Valve		31
317 C.I., (5.2L), 6DTMR317 12 Valve		32
317 C.I., (5.2L), 6DT317 12 Valve		33
844 C.I., (13.8L), 6DC-844 12 Valve	HD16, HD16A, HD16AC, HD21, HD21AC	34

153 C.I., (2.5L), 4D153 8 Valve **4D153** **1**
 L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1½ O.D., 1¼ I.D., ¼ Depth, +3 O/S Available
	Exh	SB1437-2	17/16 O.D., 17/32 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Int	140-1852	0.3130 I.D., 2.656 Length, 0.5640 O.D.
	Exh	140-1851	0.3130 I.D., 2.250 Length, 0.5640 O.D.

153 C.I., (2.5L), 4DA153 8 Valve **4DA153** **2**
 L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1½ O.D., 1¼ I.D., ¼ Depth, +3 O/S Available
	Exh	SB1437-2	17/16 O.D., 17/32 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Guide	Int	140-1852	0.3130 I.D., 2.656 Length, 0.5640 O.D.
	Exh	140-1851	0.3130 I.D., 2.250 Length, 0.5640 O.D.

153 C.I., (2.5L), 4G153 Gas 8 Valve **4G153G** **3**
 L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	19/16 O.D., 15/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-2	17/16 O.D., 17/32 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01073	1.438 Head Diameter
	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1943	0.3445 I.D., 2.250 Length, 0.5640 O.D.
	Exh	140-1944	0.3445 I.D., 2.125 Length, 0.5640 O.D.

153 C.I., (2.5L), 4G153 LPG 8 Valve **4G153LP** **4**
 L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	19/16 O.D., 15/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

BUDA / HEAVY DUTY (Cont'd)

4 153 C.I., (2.5L), 4G153 LPG 8 Valve 4G153LP
(cont.) L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1437-2	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01073	1.438 Head Diameter
	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1943	0.3445 I.D., 2.250 Length, 0.5640 O.D.
	Exh	140-1944	0.3445 I.D., 2.125 Length, 0.5640 O.D.

5 153 C.I., (2.5L), 4DME153 8 Valve 4DME153
L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material

6 153 C.I., (2.5L), 4BDMR153 8 Valve 4BDMR153
L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

7 153 C.I., (2.5L), 4B153 8 Valve 4B153
L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material
Valve	Int	00311	1.511 Head Diameter
	Exh	00310	1.281 Head Diameter
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.
Spring	Both	160-1635	2.090 Length, W/Damper

8 153 C.I., (2.5L), 4BD153 8 Valve 4BD153
L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

9 153 C.I., (2.5L), 4BDMG153 8 Valve 4BDMG153
L4 153 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

(Cont'd) BUDA / HEAVY DUTY

182 C.I., (3.0L), 4BDMR182 8 Valve			4BDMR182 10
L4 182 CID			BORE - 95.25mm/3.70"
PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, Also Available Non-Magnetic (N) Material
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.
182 C.I., (3.0L), 4B182 8 Valve			4B182 11
L4 182 CID			BORE - 95.25mm/3.70"
PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, Also Available Non-Magnetic (N) Material
Valve	Int	00311	1.511 Head Diameter
	Exh	00310	1.281 Head Diameter
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.
Spring	Both	160-1635	2.090 Length, W/Damper
182 C.I., (3.0L), 4BD182 8 Valve			4BD182 12
L4 182 CID			BORE - 95.25mm/3.70"
PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, Also Available Non-Magnetic (N) Material
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.
193 C.I., (3.2L), 4DT196 8 Valve			4DT196 13
L4 193 CID			BORE - 92mm/3.60"
PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
196 C.I., (3.2L), 4DTM196 8 Valve			4DTM196 14
L4 196 CID			BORE - 92mm/3.60"
PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
212 C.I., (3.5L), 4DTM212 8 Valve			4DTM212 15
L4 212 CID			BORE - 92mm/3.60"
PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
212 C.I., (3.5L), 4DT212 8 Valve			4DT212 16
L4 212 CID			BORE - 92mm/3.60"
PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

BUDA / HEAVY DUTY (Cont'd)

16 212 C.I., (3.5L), 4DT212 8 Valve 4DT212
(cont.) L4 212 CID BORE - 92mm/3.60"

PART	PART NO.	NOTES
Valve Seat Insert	Exh SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

17 230 C.I., (3.8L), 6B230 12 Valve 6B230
L6 230 CID BORE - 87.3mm/3.40"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material
Valve	Int 00311	1.511 Head Diameter
	Exh 00310	1.281 Head Diameter
Keeper	Both 121-1011	1 SQ Bead Type
Guide	Both 140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.
Spring	Both 160-1635	2.090 Length, W/Damper

18 230 C.I., (3.8L), 6BDM230 12 Valve 6BDM230
L6 230 CID BORE - 87.3mm/3.40"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material

19 230 C.I., (3.8L), 6BDMR230 12 Valve 6BDMR230
L6 230 CID BORE - 87.3mm/3.40"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material
Guide	Both 140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

20 230 C.I., (3.8L), 6D230 12 Valve 6D230
L6 230 CID BORE - 87.3mm/3.40"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available
	Exh SB1437-2	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Guide	Int 140-1852	0.3130 I.D., 2.656 Length, 0.5640 O.D.
	Exh 140-1851	0.3130 I.D., 2.250 Length, 0.5640 O.D.

21 230 C.I., (3.8L), 6BD230 12 Valve 6BD230
L6 230 CID BORE - 87.3mm/3.40"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material
Guide	Both 140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

22 230 C.I., (3.8L), 6G230 LPG 12 Valve 6G230LP
L6 230 CID BORE - 95.25mm/3.70"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1562-1	1 ³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) BUDA / HEAVY DUTY**230 C.I., (3.8L), 6G230 LPG 12 Valve**
L6 230 CID**6G230LP 22**
BORE - 95.25mm/3.70" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1437-2	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01073	1.438 Head Diameter
	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1943	0.3445 I.D., 2.250 Length, 0.5640 O.D.
	Exh	140-1944	0.3445 I.D., 2.125 Length, 0.5640 O.D.

230 C.I., (3.8L), 6DA230 12 Valve
L6 230 CID**6DA230 23**
BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available
	Exh	SB1437-2	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Guide	Int	140-1852	0.3130 I.D., 2.656 Length, 0.5640 O.D.
	Exh	140-1851	0.3130 I.D., 2.250 Length, 0.5640 O.D.

230 C.I., (3.8L), 6G230 Gas 12 Valve
L6 230 CID**6G230G 24**
BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-2	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01073	1.438 Head Diameter
	Exh	00989	1.375 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1943	0.3445 I.D., 2.250 Length, 0.5640 O.D.
	Exh	140-1944	0.3445 I.D., 2.125 Length, 0.5640 O.D.

272 C.I., (4.5L), 6DA273 12 Valve
L6 273 CID**6DA273 25**
BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

273 C.I., (4.5L), D273 12 Valve
L6 273 CID**D273 26**
BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available
Guide	Both	140-1703	0.3125 I.D., 2.563 Length, 0.5640 O.D.

273 C.I., (4.5L), 6B273 12 Valve
L6 273 CID**6B273 27**
BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material
Valve	Int	00311	1.511 Head Diameter
	Exh	00310	1.281 Head Diameter

BUDA / HEAVY DUTY (Cont'd)

27 273 C.I., (4.5L), 6B273 12 Valve 6B273
(cont.) L6 273 CID BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1703	0.3125 I.D.,2.563 Length,0.5640 O.D.
Spring	Both	160-1635	2.090 Length,W/Damper

28 273 C.I., (4.5L), 6BD273 12 Valve 6BD273
L6 273 CID BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,Also Available Non-Magnetic (N) Material
Guide	Both	140-1703	0.3125 I.D.,2.563 Length,0.5640 O.D.

29 278 C.I., (4.6L), 6DT278 12 Valve 6DT278
L6 278 CID BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

30 294 C.I., (4.8L), 6DT294 12 Valve 6DT294
L6 294 CID BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

31 317 C.I., (5.2L), 6DTM317 12 Valve 6DTM317
L6 317 CID BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

32 317 C.I., (5.2L), 6DTMR317 12 Valve 6DTMR317
L6 317 CID BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

33 317 C.I., (5.2L), 6DT317 12 Valve 6DT317
L6 317 CID BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) **BUDA / HEAVY DUTY**

844 C.I., (13.8L), 6DC-844 12 Valve
L6 844 CID

6DC_844 **34**
BORE - 133.4mm/5.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 ³ / ₈ O.D.,2.000 I.D., ⁹ / ₃₂ Depth
	Exh	SB2250-13	2 ¹ / ₄ O.D.,1 ⁷ / ₈ I.D., ³ / ₈ Depth
Guide	Both	140-1703	0.3125 I.D.,2.563 Length,0.5640 O.D.

CASE / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
124 C.I., (2.0L), F124 Continental 8 Valve	V, VA,VC, VI, VO	1
126 C.I., (2.1L), G126 8 Valve	B20	2
133 C.I., (2.2L), FC Waukesha 8 Valve	R, RC, RO	3
148 C.I., (2.4L), G148B 8 Valve		4
148 C.I., (2.4L), G148 8 Valve		5
154 C.I., (2.5L), G154 Gas 8 Valve	S,SC Series	6
157 C.I., (2.6L), GD157, 300 Continental 8 Valve		7
159 C.I., (2.6L), G159 Gas 8 Valve		8
159 C.I., (2.6L), G159 LPG 8 Valve		9
164 C.I., (2.7L), G164 Gas 8 Valve		10
164 C.I., (2.7L), G164 LPG 8 Valve		11
188 C.I., (3.1L), G188D Diesel 8 Valve		12
188 C.I., (3.1L), G188 LPG 8 Valve		13
188 C.I., (3.1L), G188B Gas 8 Valve		14
207 C.I., (3.4L), 207D, Diesel, 8 Valve	450B	15
239 C.I., (3.9L), Cummins B & BT Diesel 8 Valve		17
239 C.I., (3.9L), Cummins 4B3.9 Diesel		18
239 C.I., (3.9L), Cummins 4B3.9NA Diesel		19
251 C.I., (4.1L), 251 Diesel 8 Valve		20
251 C.I., (4.1L), 251 Gas 8 Valve		21
260 C.I., (4.3L), 260 8 Valve	C, D Series	22
267 C.I., (4.4L), A267D Diesel 8 Valve		23
284 C.I., (4.7L), 284 Gas & LPG 8 Valve		24
301 C.I., (4.9L), 301D Diesel 8 Valve		25
336 C.I., (5.5L), A336BD Turbo Diesel 8 Valve		27
6 Cylinder		
209 C.I., (3.4L), 209 Continental 12 Valve		16
301 C.I., (4.9L), 301BD Diesel 12 Valve		26
359 C.I., (5.9L), Cummins 6B5.9NA, 6B5.9TA,6B5.9T		28
359 C.I., (5.9L), Cummins B & BT Diesel 12 Valve		29
377 C.I., (6.2L), 377 Gas 12 Valve		30
377 C.I., (6.2L), 377 Diesel 12 Valve		31
377 C.I., (6.2L), 377 LPG 12 Valve		32
401 C.I., (6.6L), A401BD		33
401 C.I., (6.6L), A401D Diesel 12 Valve		34
451 C.I., (7.4L), 451BD Diesel 12 Valve		35

CASE / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
6 Cylinder		
451 C.I., (7.4L), 451BDT Turbo Diesel 12 Valve		36
504 C.I., (8.3L), A504BD Diesel 12 Valve		37
504 C.I., (8.3L), A504BDT Turbo Diesel 12 Valve		38
505 C.I., (8.3L), Cummins 6CT & 6CTA Diesel		39
611 C.I., (10.0L), Cummins LTA10		40
855 C.I., (14.0L), Cummins NTA 855 Series BC III		41

1 124 C.I., (2.0L), F124 Continental 8 Valve **F124**
L4 124 CID **BORE - 76.2mm/3.00"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1375-3	
Valve	Int 00810	1.516 Head Diameter, Drilled Stem
	Exh 00170	1.203 Head Diameter, Drilled Stem
	00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh 121-1010	PIN Bead Type, Pin Length 0.5020"; Pin Diameter 0.130"
	Both 121-1012	PIN Bead Type, Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both 140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D., OEM # F400I213; NOTE: Except Rototype

2 126 C.I., (2.1L), G126 8 Valve **G126**
L4 126 CID **BORE - 79.3mm/3.125"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1348E-1N SB1375-25	
Valve	Int 00269	1.328 Head Diameter
	Exh 00268	1.203 Head Diameter
Keeper	Both 121-1003	1 SQ Bead Type
Guide	Int 140-1673	0.3434 I.D., 2.688 Length, 0.6571 O.D.
	Exh 140-1872	0.3427 I.D., 2.437 Length, 0.6570 O.D.
Spring	Int 160-1223	2.375 Length, OEM # A30025
	Exh 160-1608	2.175 Length, OEM # G10004

3 133 C.I., (2.2L), FC Waukesha 8 Valve **FC**
L4 133 CID **BORE - 82.5mm/3.25"**

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Guide	Both 140-1458	0.3135 I.D., 2.500 Length, 0.5016 O.D.

4 148 C.I., (2.4L), G148B 8 Valve **G148B**
L4 148 CID **BORE - 85.7mm/3.375"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1500-1	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1348E-1N SB1375-25	
Valve	Int 00269	1.328 Head Diameter
	Exh 00268	1.203 Head Diameter

(Cont'd) CASE / HEAVY DUTY

148 C.I., (2.4L), G148B 8 Valve **G148B 4**
 L4 148 CID **BORE - 85.7mm/3.375" (cont.)**

PART		PART NO.	NOTES
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1872	0.3427 I.D.,2.437 Length,0.6570 O.D.,NOTE; After S/N 2638707 0.3434 I.D.,2.688 Length,0.6571 O.D.
	Both	140-1673	
Spring	Int	160-1223	2.375 Length,OEM # A30025 2.175 Length,OEM # G10004
	Exh	160-1608	

148 C.I., (2.4L), G148 8 Valve **G148 5**
 L4 148 CID **BORE - 85.7mm/3.375"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1437-3	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1.348 O.D.,1.087 I.D.,0.2000 Depth,+10 O/S Available 1 ³ / ₈ O.D.,1 ³ / ₃₂ I.D.,0.2030 Depth,Optional
	Exh	SB1348E-1N SB1375-25	
Valve	Int	00269	1.328 Head Diameter 1.203 Head Diameter
	Exh	00268	
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1673	0.3434 I.D.,2.688 Length,0.6571 O.D.
Spring	Int	160-1223	2.375 Length,OEM # A30025 2.175 Length,OEM # G10004
	Exh	160-1608	

154 C.I., (2.5L), G154 Gas 8 Valve **154 6**
 L4 154 CID **BORE - 89mm/3.50"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 ³ / ₈ O.D.,1 ¹ / ₈ I.D., ³ / ₁₆ Depth
	Exh	SB1375-4	
Guide	Both	140-1577	0.3130 I.D.,2.750 Length,0.5645 O.D.,NOTE; After S/N 8027114

157 C.I., (2.6L), GD157, 300 Continental 8 Valve **300 7**
 L4 157 CID **BORE - 85.7mm/3.375"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1437-3	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 ⁵ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1312-1	
Guide	Both	140-1833	0.3432 I.D.,1.813 Length,0.6575 O.D.

159 C.I., (2.6L), G159 Gas 8 Valve **G159G 8**
 L4 159 CID **BORE - 89mm/3.50"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 ³ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,Also Available Non-Magnetic (N) Material
	Exh	SB1375-1	
Valve	Int	00682	1.415 Head Diameter 1.270 Head Diameter
	Exh	00683	
Guide	Int	140-1872	0.3427 I.D.,2.437 Length,0.6570 O.D. 0.3434 I.D.,2.688 Length,0.6571 O.D.
	Exh	140-1673	
Spring	Both	160-1223	2.375 Length,OEM # A30025

CASE / HEAVY DUTY (Cont'd)

9 159 C.I., (2.6L), G159 LPG 8 Valve
L4 159 CID

G159LP
BORE - 89mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
	Exh	SB1348E-1N	
Valve	Int	00682	1.415 Head Diameter
	Exh	00683	1.270 Head Diameter
Guide	Int	140-1872	0.3427 I.D., 2.437 Length, 0.6570 O.D. 0.3434 I.D., 2.688 Length, 0.6571 O.D.
	Exh	140-1673	
Spring	Both	160-1223	2.375 Length, OEM # A30025

10 164 C.I., (2.7L), G164 Gas 8 Valve
L4 164 CID

G164
BORE - 90.4mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1½ O.D., 1½ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
	Exh	SB1348E-1N	
Valve	Int	00269	1.328 Head Diameter
	Exh	00268	1.203 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1872	0.3427 I.D., 2.437 Length, 0.6570 O.D. 0.3427 I.D., 2.844 Length, 0.6575 O.D.
	Exh	140-1873	
Spring	Int	160-1223	2.375 Length, OEM # A30025
	Exh	160-1608	2.175 Length, OEM # G10004

11 164 C.I., (2.7L), G164 LPG 8 Valve
L4 164 CID

G164LP
BORE - 90.4mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-6	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
	Exh	SB1348E-1N	
Valve	Int	00269	1.328 Head Diameter
	Exh	00268	1.203 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Int	140-1872	0.3427 I.D., 2.437 Length, 0.6570 O.D. 0.3434 I.D., 2.688 Length, 0.6571 O.D.
	Exh	140-1673	
Spring	Int	160-1223	2.375 Length, OEM # A30025
	Exh	160-1608	2.175 Length, OEM # G10004

12 188 C.I., (3.1L), G188D Diesel 8 Valve
L4 188 CID

G188D
BORE - 96.84mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1½ O.D., 1¼ I.D., 7/32 Depth
	Exh	SB1500-1N	
Valve	Int	00691	1.604 Head Diameter, OEM # A38422
	Exh	00690	1.403 Head Diameter, OEM # A38423
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Int	140-1875	0.3440 I.D., 3.250 Length, 0.6575 O.D., OEM # G2068 0.3440 I.D., 3.125 Length, 0.6570 O.D., OEM # G2069
	Exh	140-1874	
Spring	Both	160-1223	2.375 Length, OEM # A30025

(Cont'd) CASE / HEAVY DUTY**188 C.I., (3.1L), G188 LPG 8 Valve**
L4 188 CID**G188LP 13**
BORE - 96.84mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-1N	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth
Guide	Int	140-1874	0.3440 I.D., 3.125 Length, 0.6570 O.D.
	Exh	140-1873	0.3427 I.D., 2.844 Length, 0.6575 O.D.
Spring	Int	160-1223	2.375 Length, OEM # A30025
	Exh	160-1608	2.175 Length, OEM # G10004

188 C.I., (3.1L), G188B Gas 8 Valve
L4 188 CID**G188B 14**
BORE - 96.84mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-3	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth, +3 O/S Available
Guide	Int	140-1874	0.3440 I.D., 3.125 Length, 0.6570 O.D., OEM # G2069
	Exh	140-1873	0.3427 I.D., 2.844 Length, 0.6575 O.D., OEM # G2033
Spring	Int	160-1223	2.375 Length, OEM # A30025
	Exh	160-1608	2.175 Length, OEM # G10004

207 C.I., (3.4L), 207D, Diesel, 8 Valve
L4 207 CID**207D 15**
BORE - 101.625mm/4.001"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 $\frac{1}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-1N	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00691	1.604 Head Diameter, OEM # A38422
	Exh	00690	1.403 Head Diameter, OEM # A38423
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Int	140-1875	0.3440 I.D., 3.250 Length, 0.6575 O.D., OEM # G2068
	Exh	140-1874	0.3440 I.D., 3.125 Length, 0.6570 O.D., OEM # G2069
Spring	Both	160-1223	2.375 Length, OEM # A30025

209 C.I., (3.4L), 209 Continental 12 Valve
L6 209 CID**209 16**
BORE - 81mm/3.1875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
		00210	1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh	121-1003	1 SQ Bead Type
	Both	121-1010	PIN Bead Type, Pin Length 0.5020"; Pin Diameter 0.130"
		121-1012	PIN Bead Type, Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1515	0.3427 I.D., 2.563 Length, 0.6573 O.D.

CASE / HEAVY DUTY (Cont'd)**17 239 C.I., (3.9L), Cummins B & BT Diesel 8 Valve****390**

L4 239 CID

BORE - 102mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D., 1.498T I.D., 0.2730 Depth, OEM # 3906854
	Exh	SB1875-8 SB1722E-1 SB1750-7	1.722 O.D., 1.357T I.D., 0.2650 Depth, Universal Size Seat For Head W/O OEM Seat 1.722 O.D., 1.357T I.D., 0.2650 Depth, OEM # 3904105 1.722 O.D., 1.357T I.D., 0.2650 Depth, Universal Size Seat For Head W/O OEM Seat
Valve	Int	01665	1.772 Head Diameter, OEM # 3802355, W/ 30 Degree Seat
	Exh	01664	1.654 Head Diameter, OEM # 3802356, W/ 45 Degree Seat
		01862	1.654 Head Diameter, W/ 20 Degree Seat, Natural Gas
Keeper	Both	121-1079	1 RD Bead Type, OEM # 3900250
Stem Seal	Int	122-1269	Positive Type, Viton Material, Ring & Band Style, Orange Color Seal, OEM # 3921640; Turbo
	Both	122-1053	Positive Type, Viton Material, Ring & Band Style, Black Color Seal, OEM # 3901097, Naturally Aspirated; NOTE: Exhaust Only Turbo
		122-1365	Positive Type, Viton Material, Top Hat Style, OEM # 3957912
Guide	Int	140-8177 140-8177SA	0.3162 I.D., 2.382 Length, 0.5528 O.D., OEM # 3904408 0.3162 I.D., 2.382 Length, 0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Exh	140-8178 140-8178SA	0.3160 I.D., 2.052 Length, 0.5528 O.D., OEM # 3904409 0.3160 I.D., 2.052 Length, 0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Both	140-8277	0.3162 I.D., 2.500 Length, 0.4393 O.D., W/O Seal Boss, Universal Length
Spring	Both	160-1348	2.235 Length, OEM # 3900276
		160-1379	2.385 Length, OEM # 3926700
Lifter	Both	VL156	Mechanical Type, OEM # 3931623
Push Rod	Both	190-1530	10.910 Length

18 239 C.I., (3.9L), Cummins 4B3.9 Diesel**239NA**

L4 239 CID

BORE - 102mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D., 1.498T I.D., 0.2730 Depth, OEM # 3906854
	Exh	SB1722E-1	1.722 O.D., 1.357T I.D., 0.2650 Depth, OEM # 3904105
Valve	Int	01665	1.772 Head Diameter, OEM # 3920867
	Exh	01664	1.654 Head Diameter, OEM # 3920868
Keeper	Both	121-1079	1 RD Bead Type, OEM # 3900250
Stem Seal	Both	122-1269	Positive Type, Viton Material, Ring & Band Style, Orange Color Seal, OEM # 3921640
Guide	Int	140-8177 140-8177SA	0.3162 I.D., 2.382 Length, 0.5528 O.D., OEM # 3904408 0.3162 I.D., 2.382 Length, 0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Exh	140-8178 140-8178SA	0.3160 I.D., 2.052 Length, 0.5528 O.D., OEM # 3904409 0.3160 I.D., 2.052 Length, 0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Both	140-8277	0.3162 I.D., 2.500 Length, 0.4393 O.D., W/O Seal Boss, Universal Length
Spring	Both	160-1379	2.385 Length, OEM # 3926700
Lifter	Both	VL156	Mechanical Type, OEM # 3961623
Push Rod	Both	190-1530	10.910 Length

19 239 C.I., (3.9L), Cummins 4B3.9NA Diesel**239NA-239T-239TA**

L4 239 CID

BORE - 102mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D., 1.498T I.D., 0.2730 Depth, OEM # 3906854
	Exh	SB1722E-1	1.722 O.D., 1.357T I.D., 0.2650 Depth, OEM # 3904105

(Cont'd) CASE / HEAVY DUTY**239 C.I., (3.9L), Cummins 4B3.9NA Diesel**

L4 239 CID

239NA-239T-239TA **19**

BORE - 102mm/4.00" (cont.)

PART		PART NO.	NOTES
Valve	Int	01665	1.772 Head Diameter,OEM # 3802355
	Exh	01664	1.654 Head Diameter,OEM # 3802356
Keeper	Both	121-1079	1 RD Bead Type,OEM # 3900250
Stem Seal	Both	122-1053	Positive Type,Viton Material, Ring & Band Style,Black Color Seal,OEM # 3901097
Guide	Int	140-8177	0.3162 I.D.,2.382 Length,0.5528 O.D.,OEM # 3904408
		140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Exh	140-8178	0.3160 I.D.,2.052 Length,0.5528 O.D.,OEM # 3904409
		140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Both	140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D.,W/O Seal Boss, Universal Length
Spring	Both	160-1348	2.235 Length,OEM # 3900276
Lifter	Both	VL156	Mechanical Type,OEM # 3931623
Push Rod	Both	190-1530	10.910 Length

251 C.I., (4.1L), 251 Diesel 8 Valve

L4 251 CID

251D **20**

BORE - 101.5mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-3	1 $\frac{1}{2}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth,+3 O/S Available
Guide	Int	140-1829	0.4050 I.D.,4.375 Length,0.7520 O.D.,OEM # 6321A
Spring	Both	160-1225	2.640 Length

251 C.I., (4.1L), 251 Gas 8 Valve

L4 251 CID

251 **21**

BORE - 101.5mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 $\frac{13}{16}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
Spring	Both	160-1225	2.640 Length

260 C.I., (4.3L), 260 8 Valve

L4 260 CID

260 **22**

BORE - 98.4mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1812-5	1 $\frac{13}{16}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth,+30 O/S Available, Also Available In Non-Magnetic (N) Material
Guide	Int	140-1814	0.4380 I.D.,3.438 Length,0.8140 O.D.,Non-Flanged
	Exh	140-1813	0.4380 I.D.,3.125 Length,0.8138 O.D.,Non-Flanged

267 C.I., (4.4L), A267D Diesel 8 Valve

L4 267 CID

A267D **23**

BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 $\frac{13}{16}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	00678	1.731 Head Diameter,OEM # A21712
	Exh	02084	1.484 Head Diameter,OEM # A24910
Keeper	Both	121-1049	1 SQ Bead Type
Guide	Int	140-1829	0.4050 I.D.,4.375 Length,0.7520 O.D.,OEM # 6321A

CASE / HEAVY DUTY (Cont'd)

23 267 C.I., (4.4L), A267D Diesel 8 Valve A267D
(cont.) L4 267 CID BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Guide	Exh	140-1865	0.4050 I.D.,3.219 Length,0.7520 O.D.,OEM # A11803
Spring	Both	160-1225	2.640 Length

24 284 C.I., (4.7L), 284 Gas & LPG 8 Valve 284G
L4 284 CID BORE - 107.9mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-2	1 $\frac{7}{8}$ O.D.,1 $\frac{9}{16}$ I.D., $\frac{1}{4}$ Depth,Optional
	Exh	SB1812-5N	1 $\frac{13}{16}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth
Guide	Both	140-1830	0.4050 I.D.,3.594 Length,0.7518 O.D.

25 301 C.I., (4.9L), 301D Diesel 8 Valve 301D
L4 301 CID BORE - 111mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-1	1 $\frac{15}{16}$ O.D.,1 $\frac{11}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	SB1750-5	1 $\frac{3}{4}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{5}{16}$ Depth
Keeper	Both	121-1049	1 SQ Bead Type,OEM # A27872
Guide	Int	140-1829	0.4050 I.D.,4.375 Length,0.7520 O.D.,OEM # 6321A
	Exh	140-1865	0.4050 I.D.,3.219 Length,0.7520 O.D.,OEM # A11803

26 301 C.I., (4.9L), 301BD Diesel 12 Valve 301BD
L6 301 CID BORE - 111mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-1	1 $\frac{15}{16}$ O.D.,1 $\frac{11}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	SB1750-9	1 $\frac{3}{4}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{5}{16}$ Depth
Keeper	Both	121-1021	1 RD Bead Type

27 336 C.I., (5.5L), A336BD Turbo Diesel 8 Valve A336BDT
L4 336 CID BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2062-29	2 $\frac{1}{16}$ O.D.,1 $\frac{13}{16}$ I.D., $\frac{7}{32}$ Depth,W/O Factory Installed Seat
	Exh	SB1946E-1N	1.946 O.D.,1.574 I.D.,0.3150 Depth
Valve	Int	01512	2.000 Head Diameter,OEM # A58626
	Exh	01511	1.750 Head Diameter,OEM # A58627
Keeper	Both	121-1049	1 SQ Bead Type,OEM # A27872
Stem Seal	Both	122-1422	Positive Type,Tef/Rub Material,1-Ring Style,OEM # M20614
Guide	Both	140-7444	0.4050 I.D.,3.219 Length,0.7513 O.D.,OEM # A41783
Spring	Both	160-1226	2.234 Length,OEM # A66444
Rotator	Exh	161-1003	OEM # A66336

28 359 C.I., (5.9L), Cummins 6B5.9NA, 6B5.9TA,6B5.9T 359NA-359T-359TA
L6 359 CID BORE - 102mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D.,1.498T I.D.,0.2730 Depth,OEM # 3906854
	Exh	SB1722E-1	1.722 O.D.,1.357T I.D.,0.2650 Depth,OEM # 3904105
Valve	Int	01665	1.772 Head Diameter,OEM # 3802355
	Exh	01664	1.654 Head Diameter,OEM # 3802356
Keeper	Both	121-1079	1 RD Bead Type,OEM # 3900250
Stem Seal	Both	122-1053	Positive Type,Viton Material, Ring & Band Style,Black Color Seal,OEM # 3901097
Guide	Int	140-8177	0.3162 I.D.,2.382 Length,0.5528 O.D.,OEM # 3904408

(Cont'd) CASE / HEAVY DUTY**359 C.I., (5.9L), Cummins 6B5.9NA, 6B5.9TA,6B5.9T**
L6 359 CID**359NA-359T-359TA 28**
BORE - 102mm/4.00" (cont.)

PART		PART NO.	NOTES
Guide	Int	140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel
	Exh	140-8178	0.3160 I.D.,2.052 Length,0.5528 O.D.,OEM # 3904409
		140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel
	Both	140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D.,W/O Seal Boss, Universal Length
Spring	Exh	160-1379	2.385 Length,OEM # 3926700
Lifter	Both	VL156	Mechanical Type,OEM # 3931623
Push Rod	Both	190-1530	10.910 Length
Head Saver Shim		230-2174	New Hgt. - 3.747 - 3.749; Min. Hgt. - 3.700

359 C.I., (5.9L), Cummins B & BT Diesel 12 Valve
L6 360 CID**590 29**
BORE - 102mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D.,1.498T I.D.,0.2730 Depth,OEM # 3906854
	Exh	SB1875-8	1 $\frac{7}{8}$ O.D.,1 $\frac{1}{2}$ T I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Head W/O OEM Seat
		SB1722E-1	1.722 O.D.,1.357T I.D.,0.2650 Depth,OEM # 3904105
		SB1750-7	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Head W/O OEM Seat
Valve	Int	01665	1.772 Head Diameter,OEM # 3802355, W/ 30 Degree Seat
	Exh	01664	1.654 Head Diameter,OEM # 3802356, W/ 45 Degree Seat
		01862	1.654 Head Diameter,OEM # 3922714, W/ 20 Degree Seat, Natural Gas
Keeper	Both	121-1079	1 RD Bead Type,OEM # 3900250
Stem Seal	Int	122-1269	Positive Type,Viton Material,Ring & Band Style,Orange Color Seal,OEM # 3921640
	Both	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal,OEM # 3901097, Naturally Aspirated; NOTE: Exhaust Only Turbo
		122-1365	Positive Type,Viton Material,Top Hat Style,OEM # 3957912
Guide	Int	140-8177	0.3162 I.D.,2.382 Length,0.5528 O.D.,OEM # 3904408
		140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel
	Exh	140-8178	0.3160 I.D.,2.052 Length,0.5528 O.D.,OEM # 3904409
		140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel
Both	140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D.,W/O Seal Boss, Universal Length	
Spring	Both	160-1348	2.235 Length,OEM # 3900276
		160-1379	2.385 Length,OEM # 3926700
Lifter	Both	VL156	Mechanical Type,OEM # 3931623
Push Rod	Both	190-1530	10.910 Length

377 C.I., (6.2L), 377 Gas 12 Valve
L6 377 CID**377 30**
BORE - 101.5mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 $\frac{1}{16}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
Guide	Both	140-1830	0.4050 I.D.,3.594 Length,0.7518 O.D.
Spring	Both	160-1225	2.640 Length

CASE / HEAVY DUTY (Cont'd)

31 377 C.I., (6.2L), 377 Diesel 12 Valve

L6 377 CID

377D

BORE - 101.5mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₁₆ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available
Guide	Int	140-1829	0.4050 I.D., 4.375 Length, 0.7520 O.D., OEM # 6321A
	Exh	140-1865	0.4050 I.D., 3.219 Length, 0.7520 O.D., OEM # A11803, NOTE: 930 & 940

32 377 C.I., (6.2L), 377 LPG 12 Valve

L6 377 CID

377LP

BORE - 101.5mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2N	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ¹ / ₄ Depth
Guide	Both	140-1830	0.4050 I.D., 3.594 Length, 0.7518 O.D.

33 401 C.I., (6.6L), A401BD

L6 401 CID

A401BD

BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1630E-1	1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	00678	1.731 Head Diameter, OEM # 21712
	Exh	02084	1.484 Head Diameter, OEM # 21713
Keeper	Both	121-1049	1 SQ Bead Type, OEM # A27872
Guide	Int	140-1829	0.4050 I.D., 4.375 Length, 0.7520 O.D., OEM # 6321A
	Exh	140-1865	0.4050 I.D., 3.219 Length, 0.7520 O.D., OEM # A11803
Spring	Both	160-1226	2.234 Length, OEM # A66444

34 401 C.I., (6.6L), A401D Diesel 12 Valve

L6 401 CID

A401D

BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1630E-1	1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	00678	1.731 Head Diameter, OEM # A21712
	Exh	02084	1.484 Head Diameter, OEM # A24910.
Keeper	Both	121-1049	1 SQ Bead Type, OEM # A27872
Guide	Int	140-1829	0.4050 I.D., 4.375 Length, 0.7520 O.D., OEM # 6321A
	Exh	140-1865	0.4050 I.D., 3.219 Length, 0.7520 O.D., OEM # A11803
Spring	Both	160-1226	2.234 Length, OEM # A66444

35 451 C.I., (7.4L), 451BD Diesel 12 Valve

L6 451 CID

451BD

BORE - 111mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-1	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	SB1750-9	1 ³ / ₄ O.D., 1 ³ / ₈ I.D., ⁵ / ₁₆ Depth
Keeper	Both	121-1021	1 RD Bead Type
Guide	Int	140-1829	0.4050 I.D., 4.375 Length, 0.7520 O.D.
	Exh	140-1865	0.4050 I.D., 3.219 Length, 0.7520 O.D.
Spring	Both	160-1225	2.640 Length, Model 1070 Only
		160-1226	2.234 Length, OEM # A66444

(Cont'd) CASE / HEAVY DUTY**451 C.I., (7.4L), 451BDT Turbo Diesel 12 Valve**

L6 451 CID

451BDT **36**

BORE - 111mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-1	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 1/4 Depth
	Exh	SB1750-9	1 ³ / ₄ O.D., 1 ³ / ₈ I.D., 5/16 Depth
Keeper	Both	121-1021	1 RD Bead Type
Guide	Int	140-1829	0.4050 I.D., 4.375 Length, 0.7520 O.D.
	Exh	140-1865	0.4050 I.D., 3.219 Length, 0.7520 O.D.
Spring	Both	160-1225	2.640 Length

504 C.I., (8.3L), A504BD Diesel 12 Valve

L6 504 CID

A504BD **37**

BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2062-29	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., 7/32 Depth, W/O Factory Installed Seat
	Exh	SB1946E-1N	1.946 O.D., 1.574 I.D., 0.3150 Depth
Valve	Int	01512	2.000 Head Diameter, OEM # A58626, Early Style W/ 45 Degree Seat
	Exh	01511	1.750 Head Diameter, OEM # A58627
Keeper	Both	121-1049	1 SQ Bead Type, OEM # A27872
Stem Seal	Both	122-1422	Positive Type, Tef/Rub Material, 1-Ring Style, OEM # M20614
Guide	Both	140-7444	0.4050 I.D., 3.219 Length, 0.7513 O.D., OEM # A41783
Spring	Both	160-1226	2.234 Length, OEM # A66444
Rotator	Exh	161-1003	OEM # A66336

504 C.I., (8.3L), A504BDT Turbo Diesel 12 Valve

L6 504 CID

A504BDT **38**

BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2100E-1	2.100 O.D., 1.782 I.D., 0.2670 Depth
	Exh	SB1946E-1N	1.946 O.D., 1.574 I.D., 0.3150 Depth
Valve	Int	01512	2.000 Head Diameter, OEM # A58626, Early Style W/ 45 Degree Seat
	Exh	01826	2.000 Head Diameter, OEM #s A66193 & A182172, Late Style W/ 30 Degree Seat, Turbo Intercooled
		01650S	1.750 Head Diameter, Stellite Face, OEM # A182173, Turbo Intercooled
Keeper	Both	121-1049	1 SQ Bead Type, OEM # A27872
Stem Seal	Both	122-1422	Positive Type, Tef/Rub Material, 1-Ring Style, OEM # M20614
Guide	Both	140-7444	0.4050 I.D., 3.219 Length, 0.7513 O.D., OEM # A41783
Spring	Both	160-1226	2.234 Length, OEM # A66444
Rotator	Exh	161-1003	OEM # A66336

505 C.I., (8.3L), Cummins 6CT & 6CTA Diesel

L6 505 CID

505T-505TA **39**

BORE - 114.05mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2129E-2	2.129 O.D., 1.752T I.D., 0.3060 Depth, OEM # 3908830, 3924582
	Exh	SB1857E-1	1.857 O.D., 1.575T I.D., 0.2290 Depth, OEM # 3904716, 3924583, 3929005
		SB1857E-1T	1.857 O.D., 1.575T I.D., 0.2500 Depth, OEM # 3928174, 3970278; NOTE: Same As SB1857E-1 Except 0.020 Thicker
Valve	Int	01667	2.047 Head Diameter, OEM # 3924492
	Exh	01666	1.811 Head Diameter, OEM # 3921444
Keeper	Both	121-1073	1 RD Bead Type, OEM # 3901177
Stem Seal	Both	122-1243	Positive Type, Viton Material, Top Hat Style, OEM # 3901178, 3915707, 3919038, 3927642
Guide	Both	140-8122	0.3761 I.D., 2.835 Length, 0.6297 O.D., OEM # 3923564

CASE / HEAVY DUTY (Cont'd)

39 505 C.I., (8.3L), Cummins 6CT & 6CTA Diesel 505T-505TA
(cont.) L6 505 CID BORE - 114.05mm/4.40"

PART		PART NO.	NOTES
Spring	Exh	160-1669	3.070 Length,W/ Damper,OEM # 3916588; NOTE: With Pink Stripes, W/ 70 lbs Additional Seat Pressure
	Both	160-1592	2.608 Length,OEM # 3906412, 3991085, 5292625

40 611 C.I., (10.0L), Cummins LTA10 611
L6 611 CID BORE - 125mm/4.921"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1812E-4	1.812 O.D.,1.450 I.D.,0.1860 Depth,+5, +10, +20 & +30 O/S Available,OEM # 3028070
Valve	Int	01532	1.673 Head Diameter,OEM # 3033234
	Exh	01531	1.673 Head Diameter,OEM # 3818520
Keeper	Both	121-1027	1 RD Bead Type,OEM # 3275354
Stem Seal	Both	122-1241	Positive Type,Viton Material,Metal Clad Style,OEM # 3328781; NOTE: Use W/ 140-8210 Valve Guide
Guide	Both	140-7625	0.3819 I.D.,2.934 Length,0.6504 O.D.,OEM # 3033314
		140-7625SA	0.3819 I.D.,2.934 Length,0.6504 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
		140-8210	0.3819 I.D.,2.633 Length,0.6504 O.D.,OEM # 3703512, 3328785, Machined For Seal, Guide Must Protrude 1.079 Above The Top Surface Of The Head, +2 O/S Available
		140-8210SA	0.3819 I.D.,2.633 Length,0.6504 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1303	3.100 Length,Outer, OEM # 3033233
		160-1304	3.300 Length,Inner, OEM # 3033232

41 855 C.I., (14.0L), Cummins NTA 855 Series BC III 855
L6 855 CID BORE - 139.7mm/5.50"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2003E-1	2.003 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,OEM # 3017759
		SB2003E-1N	2.003 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic
		SB2003E-6N	2.003 O.D.,1.625 I.D.,0.2795 Depth,+5 & +10 O/S Available,Optional, Nickel Base Alloy Version of Stellite SB2006E-6C. Can Be Used W/ 15 & 20 Degree Valves
		SB2006E-1	2.006 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,+5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # 3032285, +3 Additional Press Fit Over OEM Replacement
		SB2006E-1N	2.006 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,+5, +10, +20 & +30 O/S Available,OEM #127930, Turbo & High Heat Application
		SB2006E-6C	2.006 O.D.,1.630 I.D.,0.2800 Depth,OEM # 80610016 & 90210014, Stellite Material, Can Be Used W/ Natural Gas 15 & 20 Degree Valve
Valve	Int	00603	1.870 Head Diameter,Letter "O" in Head,OEM # 135957
	Exh	00602	1.870 Head Diameter,Letter "N" In Head,OEM # 3040830
		00602S	1.870 Head Diameter,Stellite Face, W/ Letter "S" or "J" In Head,OEM # 145701
Keeper	Both	121-1006	2 RD Bead Type,OEM # 127554
Guide	Both	140-7994	0.4530 I.D.,3.400 Length,0.7518 O.D.,OEM # 3006456
		140-7994SA	0.4530 I.D.,3.400 Length,0.7518 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1177	2.685 Length,OEM # 211999
Rocker Components		187-1052	Bridge Guide,OEM # 123558, Big Cam
		187-1061	Injector Roller Pin,OEM # 3013330, Big Cam I, II, III

(Cont'd) **CASE / HEAVY DUTY**

855 C.I., (14.0L), Cummins NTA 855 Series BC III

855 41

L6 855 CID

BORE - 139.7mm/5.50" (cont.)

PART	PART NO.	NOTES
Rocker Components	187-1067	Injector Cam Roller,OEM # 3036934, Big Cam I, II, III
	187-1068	Injector Cam Roller,OEM # 3062096, Small Cam
Injector Tubes and Components	Both 240-1009	Injector Tube, Thin Nose,OEM # 3011934, 3070486; (250) NT 855
	240-1009R	O-Ring, Black,OEM # 3007759; (250) NT 855
	240-1010	Injector Tube, Heavy Nose,OEM # 3011935, 3071147; (250) NT855

CATERPILLAR / HEAVY DUTY

Engine	Models	Line No.
3 Cylinder		
69 C.I., (1.1L), C1.1, 6 Valve, Diesel	Industrial	1
91 C.I., (1.5L), 3013, 6 Valve, Diesel	Industrial, 302.5, 303.5	2
91 C.I., (1.5L), 3013C, 6 Valve, Diesel	Industrial	3
91 C.I., (1.5L) C1.5, 6 Valve, Naturally Aspirated/Turbo, Diesel "Shibaura "	Industrial	4
201 C.I., (3.3L), C3.3, 6 Valve, Naturally Aspirated/Turbo, Diesel "Perkins 1100 Series"	Industrial	14
4 Cylinder		
92 C.I., (1.5L), C1.6, 8 Valve, Diesel	Industrial	5
120 C.I., (2.0L), XN1P, 8 Valve, Diesel, Peugeot Forklift		6
122 C.I., (2.0L), 3014, 8 Valve, Diesel	Industrial	7
135 C.I., (2.2L), 3024, 8 Valve, Diesel "Shibaura "	Industrial	8
135 C.I., (2.2L), 3024C/T, 8 Valve, Turbo Diesel "Shibaura "	Industrial	9
135 C.I., (2.2L), C2.2, 8 Valve, Diesel "Shibaura "	Industrial	10
135 C.I., (2.2L), C2.2T, 8 Valve, Turbo Diesel "Shibaura "	Industrial	11
163 C.I., (2.7L), G1600 Gas & LPG Hercules 8 Valve		12
183 C.I., (3.0L), 3034, 8 Valve, Turbo, Diesel "Perkins 700 Series"	Industrial	13
203 C.I., (3.3L), 3044, 8 Valve, Diesel "Mitsubishi S4S"	Forklift, DP20,DP25,DP30,DP35	15
208 C.I., (3.4L), C3.4, 8 Valve, Turbo, Diesel	Industrial	16
208 C.I., (3.4L), C3.4B ACERT, 16 Valve, Turbo, Diesel	Industrial	17
244 C.I., (4.0L), 3054, 8 Valve, Naturally Aspirated, Diesel "Perkins 1004.40"	Industrial	18
244 C.I., (4.0L), 3054, 8 Valve, Turbo, Diesel "Perkins 1004.40T"		19
244 C.I., (4.0L), 3054, 8 Valve, Turbo & Naturally Aspirated, Diesel "Perkins 4.401"	Industrial	20
258 C.I., (4.2L), 3054B, 8 Valve, Naturally Aspirated, Diesel "Perkins 1004.4/4.421"		21
260 C.I., (4.3L), 3064, 8 Valve, Diesel "Mitsubishi"	Industrial 311, 312, 314	22
268 C.I., (4.4L), 3114 8 Valve		23
269 C.I., (4.4L), 3054 C & E, 8 Valve, Turbo & Naturally Aspirated, Diesel "Perkins 1100C Series"	Industrial	24
269 C.I., (4.4L), C4.4, 8 Valve, Turbo, Diesel "Perkins 1100C Series"	Industrial	25
269 C.I., (4.4L), C4.4 ACERT, 16 Valve, Turbo, Diesel		26
318 C.I., (5.2L), 3204, 8 Valve, Naturally Aspirated, Diesel		28

CATERPILLAR / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
4 Cylinder		
318 C.I., (5.2L), 3204, 8 Valve, Turbo, Diesel		29
350 C.I., (5.7L), 1670, 8 Valve, Diesel		30
350 C.I., (5.7L), D4CD		31
350 C.I., (5.7L), D312, 8 Valve, Diesel		32
350 C.I., (5.7L), D315, 8 Valve, Diesel		33
350 C.I., (5.7L), D315G, 8 Valve, Diesel		34
350 C.I., (5.7L), D330A, 8 Valve, Diesel		35
350 C.I., (5.7L), D330B, 8 Valve, Diesel		36
425 C.I., (7.0L), D330C 8 Valve		43
425 C.I., (7.0L), 3304, 8 Valve, Diesel		44
425 C.I., (7.0L), G3304, 8 Valve, Gas		45
831 C.I., (13.6L), D339		72
6 Cylinder		
305 C.I., (5.0L), 3046, 12 Valve, Diesel "Mitsubishi S6S"	Forklifts, DP40,DPL40,DP45,DP50,DP50C,DP60,DP70	27
365 C.I., (6.0L), 3056, 12 Valve, Turbo & Naturally Aspirated, Diesel "Perkins T6.601 / 6.601"		37
365 C.I., (6.0L), 3056, 12 Valve, Diesel "Perkins 1006.60"		38
365 C.I., (6.0L), 3056, 12 Valve, Turbo, Diesel "Perkins 1006.60T"		39
390 C.I., (6.4L), 3066, 12 Valve, Diesel "Mitsubishi 7JK1"	320	40
403 C.I., (6.6L), 3116 12 Valve		41
403 C.I., (6.6L), C6.6 ACERT, 24 Valve, Turbo, Diesel		42
428 C.I., (7.0L), C7.1 ACERT, 24 Valve, Turbo, Diesel	Industrial	46
442 C.I., (7.2L), 3126 12 Valve		47
442 C.I., (7.2L), 3126B 18 Valve		48
442 C.I., (7.2L), C7, 18 Valve, Turbo, Diesel "ACERT"		49
525 C.I., (8.6L), D6B		50
525 C.I., (8.6L), D318 12 Valve		51
525 C.I., (8.6L), D318G 12 Valve		52
525 C.I., (8.6L), D333A 12 Valve		53
525 C.I., (8.6L), 1673 12 Valve		54
537 C.I., (8.8L), C9, 24 Valve Turbo Diesel		55
568 C.I., (9.3L), C9.3 ACERT, 24 Valve, Turbo Diesel		56
629 C.I., (10.3L), C10 24 Valve		57
629 C.I., (10.3L), 3176, 24 Valve, Diesel		58
638 C.I., (10.5L), D333C 12 Valve		63
638 C.I., (10.5L), D334 12 Valve		64
638 C.I., (10.5L), 3306, 12 Valve, Diesel		65
638 C.I., (10.5L), G3306, 12 Valve, Gas		66
638 C.I., (10.5L), 1673C 12 Valve		67
638 C.I., (10.5L), 1674 12 Valve		68
677 C.I., (11.1L), C11 24 Valve Turbo Diesel		69
732 C.I., (12.0L), C12 24 Valve		70
763 C.I., (12.5L), C13A 24 Valve, Turbo Diesel		71

(Cont'd) CATERPILLAR / HEAVY DUTY

Engine	Models	Line No.
6 Cylinder		
893 C.I., (14.6L), D343 24 Valve		73
893 C.I., (14.6L), 1693 24 Valve		74
893 C.I., (14.6L), 3406, 24 Valve, Diesel		75
893 C.I., (14.6L), 3406B, 24 Valve, Diesel		76
893 C.I., (14.6L), 3406C, 24 Valve, Diesel		77
893 C.I., (14.6L), 3406E, 24 Valve, Diesel		78
893 C.I., (14.6L), G3406, 24 Valve, Gas		79
928 C.I., (15.2L), C15 24 Valve		80
964 C.I., (15.8L), C16, 24 Valve, Turbo, Diesel		81
964 C.I., (15.8L), 3456 24 Valve		82
1099 C.I., (18.0L), G3408, 32 Valve, Gas		86
1106 C.I., (18.1L), C18 24 Valve Turbo Diesel		87
1246 C.I., (20.4L), D8, D342 12 Valve		89
1473 C.I., (24.1L), D9, D353 12 Valve		90
1473 C.I., (24.1L), G353, 12 Valve, Natural Gas		91
8 Cylinder		
636 C.I., (10.5L), 1676		59
636 C.I., (10.5L), 3208, Naturally Aspirated, 16 Valve, Diesel		60
636 C.I., (10.5L), 3208, Turbo, 16 Valve, Diesel		61
636 C.I., (10.5L), D336		62
1099 C.I., (18.0L), 3408, 32 Valve, Diesel		83
1099 C.I., (18.0L), 3408C, 32 Valve, Diesel		84
1099 C.I., (18.0L), 3408E, 32 Valve, Diesel		85
1191 C.I., (19.5L), D346		88
1662 C.I., (27.2L), D364		97
1662 C.I., (27.2L), D375		98
1964 C.I., (32.3L), D379, Diesel		101
1964 C.I., (32.3L), G379, Natural Gas		102
2107 C.I., (34.5L), 3508, 32 Valve, Diesel		103
2107 C.I., (34.5L), 3508B, 32 Valve, Diesel, Industrial, Marine	Industrial, Marine	104
2107 C.I., (34.5L), G3508, 32 Valve, Gas		105
2107 C.I., (34.5L), G3508B, 32 Valve, Gas		106
12 Cylinder		
1648 C.I., (27.0L), C27, 48 Valve, Turbo, Diesel, Industrial	Industrial	92
1649 C.I., (27.0L), 3412, 48 Valve, Diesel		93
1649 C.I., (27.0L), 3412C, 48 Valve, Diesel		94
1649 C.I., (27.0L), 3412E, 48 Valve, Diesel		95
1649 C.I., (27.0L), G3412, 48 Valve, Gas		96
1786 C.I., (29.2L), D348		99
1959 C.I., (32.1L), C32, 48 Valve, Turbo, Diesel, Industrial	Industrial	100
2493 C.I., (41.0L), D386, Diesel		108
2493 C.I., (41.0L), D397, Diesel		109
2946 C.I., (48.3L), D398, Diesel		110

CATERPILLAR / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
12 Cylinder		
2946 C.I., (48.3L), G398, Natural Gas		111
3160 C.I., (51.8L), 3512, 48 Valve, Diesel		112
3160 C.I., (51.8L), 3512B, 48 Valve, Diesel, Industrial, Marine	Industrial, Marine	113
3160 C.I., (51.8L), G3512, 48 Valve, Gas		114
3160 C.I., (51.8L), G3512B, 48 Valve, Gas		115
16 Cylinder		
2382 C.I., (39.0L), D349, Diesel		107
3928 C.I., (64.4L), D399, Diesel		116
3928 C.I., (64.4L), G399, Natural Gas		117
4210 C.I., (69.0L), 3516, 64 Valve, Diesel		118
4210 C.I., (69.0L), 3516B, 64 Valve, Diesel, Industrial, Marine	Industrial, Marine	119
4210 C.I., (69.0L), G3516, 64 Valve, Gas		120
4210 C.I., (69.0L), G3516B, 64 Valve, Gas		121
20 Cylinder		
5266 C.I., (86.3L), G3520, 80 Valve, Gas		122
5266 C.I., (86.3L), G3520B, 80 Valve, Gas		123
5266 C.I., (86.3L), G3520C, 80 Valve, Gas		124
5266 C.I., (86.3L), G3520E, 80 Valve, Gas		125
24 Cylinder		
7143 C.I., (117.0L), 3524B, 96 Valve, Turbo, Diesel	Industrial	126

1 69 C.I., (1.1L), C1.1, 6 Valve, Diesel **C1.1**
L3 69 CID **BORE - 77.0mm/3.03"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5599
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Spring	Both	160-1638	1.382 Length,OEM # 153-5558

2 91 C.I., (1.5L), 3013, 6 Valve, Diesel **3013**
L3 91 CID **BORE - 84.01mm/3.3075"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Valve	Int	13326	1.457 Head Diameter,OEM # 154-0888, 308-1860; NOTE: Model 303.5
	Exh	13327	1.299 Head Diameter,OEM # 154-0889, 308-1861; NOTE: Model 303.5
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # 153-5558

3 91 C.I., (1.5L), 3013C, 6 Valve, Diesel **3013C**
L3 91 CID **BORE - 84.01mm/3.3075"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085

(Cont'd) **CATERPILLAR / HEAVY DUTY**

91 C.I., (1.5L), 3013C, 6 Valve, Diesel **3013C 3**
L3 91 CID **BORE - 84.01mm/3.3075" (cont.)**

PART		PART NO.	NOTES
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # 153-5558

91 C.I., (1.5L) C1.5, 6 Valve, Naturally Aspirated/Turbo, Diesel " Shibaura " **C1.5 4**
L3 1.5 CID **BORE - 84.01mm/3.3075"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Valve	Int	13326	1.457 Head Diameter,OEM # 154-0888, 308-1860; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # 154-0889, 308-1861; NOTE: Late
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104

92 C.I., (1.5L), C1.6, 8 Valve, Diesel **C1.6 5**
L4 92 CID **BORE - 77.0mm/3.03"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Spring	Both	160-1638	1.382 Length,OEM # 153-5558

120 C.I., (2.0L), XN1P, 8 Valve, Diesel, Peugeot Forklift **XN1P 6**
L4 120 CID **BORE - 88mm/3.465"**

PART		PART NO.	NOTES
Valve	Int	13055	1.673 Head Diameter,OEM # 7C3792
	Exh	13056	1.398 Head Diameter,OEM # 4P7223
Stem Seal	Both	122-1381	Positive Type,Teflon Material,All Teflon Style,OEM #G6144
Guide	Int	140-8247	0.3165 I.D.,2.265 Length,0.5533 O.D.,OEM # 7C3830H
	Exh	140-8248	0.3180 I.D.,2.195 Length,0.5533 O.D.,OEM # 7C3829H

122 C.I., (2.0L), 3014, 8 Valve, Diesel **3014 7**
L4 122 CID **BORE - 84.01mm/3.3075"**

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085; NOTE: Check S/N
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Spring	Both	160-1638	1.382 Length,OEM # 153-5558
Lifter	Both	VL574	Mechanical Type,OEM # 154-1249

135 C.I., (2.2L), 3024, 8 Valve, Diesel " Shibaura " **3024 8**
L4 135 CID **BORE - 84.01mm/3.3075"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Valve	Int	13326	1.457 Head Diameter,OEM # 154-0888, 308-1860; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # 154-0889, 308-1861; NOTE: Late
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559

CATERPILLAR / HEAVY DUTY (Cont'd)

8 135 C.I., (2.2L), 3024, 8 Valve, Diesel " Shibaura " 3024
 (cont.) L4 135 CID BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Stem Seal	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # 153-5558
Lifter	Both	VL574	Mechanical Type,OEM # 154-1249

9 135 C.I., (2.2L), 3024C/T, 8 Valve, Turbo Diesel " Shibaura " 3024C/T
 L4 135 CID BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Valve	Int	13326	1.457 Head Diameter,OEM # 154-0888, 308-1860; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # 154-0889, 308-1861; NOTE: Late
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # 153-5558
Lifter	Both	VL574	Mechanical Type,OEM # 154-1249

10 135 C.I., (2.2L), C2.2, 8 Valve, Diesel " Shibaura " C2.2
 L4 135 CID BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Valve	Int	13326	1.457 Head Diameter,OEM # 154-0888, 308-1860; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # 154-0889, 308-1861; NOTE: Late
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # 153-5558
Lifter	Both	VL574	Mechanical Type,OEM # 154-1249

11 135 C.I., (2.2L), C2.2T, 8 Valve, Turbo Diesel " Shibaura " C2.2T
 L4 135 CID BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # 256-2084
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # 256-2085
Valve	Int	13326	1.457 Head Diameter,OEM # 154-0888, 308-1860; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # 154-0889, 308-1861; NOTE: Late
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5559
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # 153-5554, 440-5104
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # 153-5558
Lifter	Both	VL574	Mechanical Type,OEM # 154-1249

12 163 C.I., (2.7L), G1600 Gas & LPG Hercules 8 Valve G1600
 L4 163 CID BORE - 101.5mm/4.00"

PART		PART NO.	NOTES
Valve	Int	01880	1.812 Head Diameter,Gas & LPG, 30 Degree Seat, OEM # 40-2022507
	Exh	01881	1.602 Head Diameter,Gas, 45 Degree Seat, OEM # 40-2022508

(Cont'd) **CATERPILLAR / HEAVY DUTY**

163 C.I., (2.7L), G1600 Gas & LPG Hercules 8 Valve

G1600 12

L4 163 CID

BORE - 101.5mm/4.00" (cont.)

PART		PART NO.	NOTES
Valve	Exh	01882	1.550 Head Diameter,LPG, 30 Degree Seat, OEM # 40-2022516 & 7N0360
Guide	Both	140-9872	0.3120 I.D.,2.281 Length,0.4390 O.D.,Spiral I.D. Conversion Guide,Must Be Cut For Installed Height
		140-9977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Valve Guide Liners	Both	KL1840A	Bronze Bullet Liner, Smooth Wall,OEM # 1N-4995, NOTE: Guide Liner

183 C.I., (3.0L), 3034, 8 Valve, Turbo, Diesel "Perkins 700 Series"

3034 13

L4 183 CID

BORE - 97.0mm/3.820"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-2	1.782 O.D.,1.535T I.D.,0.2450 Depth,OEM # 188-8637
	Exh	SB1518E-1	1.518 O.D.,1.245T I.D.,0.2450 Depth,OEM # 188-8636
Valve	Int	13143	1.735 Head Diameter,OEM # 188-8640
	Exh	13142	1.465 Head Diameter,OEM # 152-9857
Keeper	Both	121-1093	3 RD Bead Type,OEM # 152-9860
Stem Seal	Both	122-1475	Positive Type,Viton Material,All Rubber Style,OEM # 192-6335
Guide	Both	140-3105	0.2752 I.D.,1.790 Length,0.4740 O.D.,OEM # 188-8633
Spring	Both	160-1502	1.500 Length,OEM # 152-9858

201 C.I., (3.3L), C3.3, 6 Valve, Naturally Aspirated/Turbo, Diesel "Perkins 1100 Series"

14

C3.3

L3 201 CID

BORE - 105.0mm/4.133"

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter,OEM # 225-5495
	Exh	13138	1.634 Head Diameter,OEM # 225-5499
Keeper	Both	121-1118	1 RD Bead Type,OEM # 147-1979
Stem Seal	Int	122-1434	Positive Type,Viton Material,Top Hat Style,OEM # 252-6438; NOTE: Green
	Exh	122-1435	Positive Type,Viton Material,Top Hat Style,OEM # 254-3954; NOTE: Brown
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 185-0882
Spring	Both	160-1569	1.729 Length,Conical,OEM # 225-5496, 436-0519; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

203 C.I., (3.3L), 3044, 8 Valve, Diesel "Mitsubishi S4S"

3044 15

L4 203 CID

BORE - 94.04mm/3.702"

PART		PART NO.	NOTES
Valve	Int	13063	1.732 Head Diameter,OEM # 233-5469
	Exh	13064	1.380 Head Diameter,OEM # 233-5470
Stem Seal	Both	122-1116	Positive Type,ACM Material,Metal Clad Style,OEM # 103-9260
Guide	Both	140-3097	0.3157 I.D.,1.970 Length,0.4737 O.D.,OEM # 103-9247
Spring	Both	160-1514	1.934 Length,OEM # 103-2782

208 C.I., (3.4L), C3.4, 8 Valve, Turbo, Diesel

C3.4 8V 16

L4 208 CID

BORE - 99.0mm/3.90"

PART		PART NO.	NOTES
Valve	Int	13063	1.732 Head Diameter,OEM # 233-5469
	Exh	13064	1.380 Head Diameter,OEM # 233-5470
Stem Seal	Both	122-1116	Positive Type,ACM Material,Metal Clad Style,OEM # 103-9260
Guide	Both	140-3097	0.3157 I.D.,1.970 Length,0.4737 O.D.,OEM # 103-9247

CATERPILLAR / HEAVY DUTY (Cont'd)

16 208 C.I., (3.4L), C3.4, 8 Valve, Turbo, Diesel C3.4_8V
 (cont.) L4 208 CID BORE - 99.0mm/3.90"

PART		PART NO.	NOTES
Spring	Both	160-1514	1.934 Length,OEM # 103-2782

17 208 C.I., (3.4L), C3.4B ACERT, 16 Valve, Turbo, Diesel C3.4B_16V
L4 208 CID BORE - 99.0mm/3.90"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1381E-1 SB1322E-1	1.381 O.D.,1.161 I.D.,0.255 Depth,OEM # 377-0399 1.322 O.D.,1.114 I.D.,0.2360 Depth,OEM # 377-0400
Valve	Int Exh	13329 13330	1.378 Head Diameter,OEM # 309-6678 1.299 Head Diameter,OEM # 339-9637
Keeper	Both	121-1098	3 RD Bead Type,OEM # 276-8123
Stem Seal	Both	122-1457	Positive Type,Viton Material,Top Hat Style,OEM # 299-5511
Guide	Both	140-3164	0.2364 I.D.,1.820 Length,0.3952 O.D.,OEM # 380-2073

18 244 C.I., (4.0L), 3054, 8 Valve, Naturally Aspirated, Diesel "Perkins 1004.40" 3054NA
L4 244 CID BORE - 100.03mm/3.9385"

PART		PART NO.	NOTES
Valve	Int Exh	01887 01784	1.772 Head Diameter,OEM # 6I-0282 1.473 Head Diameter,OEM # 7W-4602
Keeper	Both	121-1018	1 RD Bead Type,OEM # 067-6834
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 1W-5849
Guide	Int Exh	140-3063 140-3064	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 160-5436 0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 160-5438
Spring	Both	160-1496 160-1497	1.672 Length,Inner, OEM # 6I-0284 1.809 Length,Outer, OEM # 6I-0283
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

19 244 C.I., (4.0L), 3054, 8 Valve, Turbo, Diesel "Perkins 1004.40T" 3054T
L4 244 CID BORE - 100.03mm/3.9385"

PART		PART NO.	NOTES
Valve	Int Exh	01887 05000 01784	1.772 Head Diameter,OEM # 6I-1196; NOTE: 45 Degree 1.772 Head Diameter,OEM # 100-4626; NOTE: 30 Degree 1.473 Head Diameter,OEM # 7W-4602
Keeper	Both	121-1018	1 RD Bead Type,OEM # 067-6834
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 1W-5849
Guide	Int Exh	140-3063 140-3064	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 160-5436 0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 160-5438
Spring	Both	160-1496 160-1497	1.672 Length,Inner, OEM # 6I-0284 1.809 Length,Outer, OEM # 6I-0283
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

20 244 C.I., (4.0L), 3054, 8 Valve, Turbo & Naturally Aspirated, Diesel "Perkins 4.401" 3054TNA
L4 244 CID BORE - 103.03mm/3.9385"

PART		PART NO.	NOTES
Valve	Int Exh	05001 13136 05002S 13219	1.693 Head Diameter,OEM # 138-2052, 45 Degree 1.693 Head Diameter,OEM # 145-6855, 30 Degree 1.620 Head Diameter,Stellite Face,OEM # 138-2050, 45 Degree 1.616 Head Diameter,OEM # 145-6857, 30 Degree
Keeper	Both	121-1118	1 RD Bead Type,OEM # 147-1979
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 145-6856

(Cont'd) **CATERPILLAR / HEAVY DUTY**

244 C.I., (4.0L), 3054, 8 Valve, Turbo & Naturally Aspirated, Diesel "Perkins" 20
4.401" 3054TNA (cont.)

L4 244 CID

BORE - 103.03mm/3.9385"

PART		PART NO.	NOTES
Stem Seal	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 145-6858
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 185-0882
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 163-9256
Spring	Both	160-1498	1.847 Length,OEM # 206-4127
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

258 C.I., (4.2L), 3054B, 8 Valve, Naturally Aspirated, Diesel "Perkins" 21
1004.4/4.421" 3054B

L4 258 CID

BORE - 103.03mm/3.9385"

PART		PART NO.	NOTES
Valve	Int	05003	1.772 Head Diameter,OEM # 176-3134
	Exh	05004	1.654 Head Diameter,OEM # 176-3137
Keeper	Both	121-1118	1 RD Bead Type,OEM # 147-1979
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 145-6856
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 145-6858
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 185-0882
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 163-9256
Spring	Both	160-1499	1.674 Length,OEM # 176-3139
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

260 C.I., (4.3L), 3064, 8 Valve, Diesel "Mitsubishi" 22
3064 8V

L4 260 CID

BORE - 102.17mm/4.0164"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-2	1.815 O.D.,1.570 I.D.,0.2610 Depth,OEM # 5I-8011; NOTE: Use With 5I-7738 Intake Valve W/ 1.732 Head Dia.
		SB1894E-4	1.894 O.D.,1.580T I.D.,0.2410 Depth,OEM # 212-8474; NOTE: Use With 212-8477 Intake Valve W/ 1.811 Head Dia.
	Exh	SB1540E-1	1.540 O.D.,1.295 I.D.,0.2610 Depth,OEM # 5I-8012
Valve	Int	13392	1.732 Head Diameter,OEM # 5I-7738; NOTE: Use With Valve Seat # 5I-8011
		13393	1.811 Head Diameter,OEM # 212-8477; NOTE: Use With Valve Seat # 212-8474
	Exh	13394	1.457 Head Diameter,OEM # 5I-7739
Stem Seal	Both	122-1476	Positive Type,Viton Material,All Metal Clad Style,OEM # 5I-7624
Guide	Int	140-3192	0.3155 I.D.,2.200 Length,0.5130 O.D.,OEM # 183-8172
	Exh	140-3193	0.3155 I.D.,1.970 Length,0.5130 O.D.,OEM # 183-8173
Spring	Both	160-1657	2.200 Length,OEM # 5I-7740

268 C.I., (4.4L), 3114 8 Valve 23
3114

L4 268 CID

BORE - 105.0mm/4.133"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1969E-3	1.969 O.D.,1.704 I.D.,0.2340 Depth,OEM # 7W8065
		SB1969E-4N	1.969 O.D.,1.726 I.D.,0.2480 Depth,OEM # 130-9004
	Exh	SB1693E-8N	1.693 O.D.,1.458 I.D.,0.2340 Depth,+5 O/S Available,OEM # 1W2713
Valve	Int	01580	1.850 Head Diameter,OEM # 7W-8064
	Exh	01579S	1.575 Head Diameter,Stellite Face,OEM # 105-1779 & 136-0819
Keeper	Both	121-1079	1 RD Bead Type,OEM # 1W2715
Stem Seal	Both	122-1299	Positive Type,Viton Material,Top Hat Style,OEM # 119-3036
Guide	Both	140-8590	0.3180 I.D.,2.955 Length,0.5133 O.D.,OEM # 9Y8848

CATERPILLAR / HEAVY DUTY (Cont'd)

23 268 C.I., (4.4L), 3114 8 Valve 3114
 (cont.) L4 268 CID BORE - 105.0mm/4.133"

PART		PART NO.	NOTES
Spring	Exh	160-1452	3.230 Length,W/Engine Brake, OEM # 6I2307
	Both	160-1451	2.800 Length,Both W/O Engine Brake, Intake W/Engine Brake, OEM # 7C4273
Injector Tubes and Components		240-1002	Injector Tube,OEM # 119-3061

24 269 C.I., (4.4L), 3054 C & E, 8 Valve, Turbo & Naturally Aspirated, Diesel 3054CE
 "Perkins 1100C Series" L4 269 CID BORE - 105.0mm/4.133"

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter,OEM # 225-5495
	Exh	13138	1.634 Head Diameter,OEM # 225-5499
Keeper	Both	121-1118	1 RD Bead Type,OEM # 147-1979
Stem Seal	Int	122-1434	Positive Type,Viton Material,Top Hat Style,OEM # 252-6438; NOTE: Green
	Exh	122-1435	Positive Type,Viton Material,Top Hat Style,OEM # 254-3954; NOTE: Brown
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 185-0882
Spring	Both	160-1569	1.729 Length,Conical,OEM # 225-5496, 436-0519; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

25 269 C.I., (4.4L), C4.4, 8 Valve, Turbo, Diesel "Perkins 1100C Series" C4.4 8V
 L4 269 CID BORE - 105.0mm/4.133"

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter,OEM # 225-5495
	Exh	13138	1.634 Head Diameter,OEM # 225-5499
Keeper	Both	121-1118	1 RD Bead Type,OEM # 147-1979
Stem Seal	Int	122-1434	Positive Type,Viton Material,Top Hat Style,OEM # 252-6438; NOTE: Green
	Exh	122-1435	Positive Type,Viton Material,Top Hat Style,OEM # 254-3954; NOTE: Brown
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 185-0882

26 269 C.I., (4.4L), C4.4 ACERT, 16 Valve, Turbo, Diesel C4.4 16V
 L4 269 CID BORE - 105.0mm/4.133"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1381E-1	1.381 O.D.,1.161 I.D.,0.255 Depth,OEM # 377-0399
	Exh	SB1322E-1	1.322 O.D.,1.114 I.D.,0.2360 Depth,OEM # 377-0400
Valve	Int	13329	1.378 Head Diameter,OEM # 309-6678
	Exh	13330	1.299 Head Diameter,OEM # 339-9637
Keeper	Both	121-1098	3 RD Bead Type,OEM # 276-8123
Stem Seal	Both	122-1457	Positive Type,Viton Material,Top Hat Style,OEM # 299-5511
Guide	Both	140-3164	0.2364 I.D.,1.820 Length,0.3952 O.D.,OEM # 380-2073

27 305 C.I., (5.0L), 3046, 12 Valve, Diesel "Mitsubishi S6S" 3046
 L6 305 CID BORE - 94.04mm/3.702"

PART		PART NO.	NOTES
Valve	Int	13063	1.732 Head Diameter,OEM # 233-5469
	Exh	13064	1.380 Head Diameter,OEM # 233-5470
Stem Seal	Both	122-1116	Positive Type,ACM Material,Metal Clad Style,OEM # 103-9260
Guide	Both	140-3097	0.3157 I.D.,1.970 Length,0.4737 O.D.,OEM # 103-9247
Spring	Both	160-1514	1.934 Length,OEM # 103-2782

(Cont'd) **CATERPILLAR / HEAVY DUTY**

318 C.I., (5.2L), 3204, 8 Valve, Naturally Aspirated, Diesel
L4 318 CID

3204NA 28
BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D.,1-55/64 I.D.,0.2920 Depth,+10, +20 O/S Available,OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D.,1 $\frac{1}{8}$ I.D., $\frac{3}{32}$ Depth,+10, +20 O/S Available,OEM # 9N2837
Valve	Int	01379	2.094 Head Diameter,OEM #s 9L7682 & 9L8368
	Exh	01378	1.804 Head Diameter,OEM # 9L7683
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Int	140-7681	0.3735 I.D.,2.579 Length,0.5020 O.D.,Plain I.D. Conversion Guide,Optional, OEM # 4W3778
	Exh	140-7682	0.3735 I.D.,2.980 Length,0.5021 O.D.,Plain I.D. Conversion Guide,Optional, OEM # 4W3779
Spring	Both	160-1198	2.005 Length,OEM # 1W-4259, Replaces All Early SINGLE Spring Designs, Some Early Castings May Need The Spring Seat Machined To 1.660 Dia.
		160-1228	1.900 Length,OEM #s 9N3617, 9N3387.

318 C.I., (5.2L), 3204, 8 Valve, Turbo, Diesel
L4 318 CID

3204TD 29
BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D.,1-55/64 I.D.,0.2920 Depth,+10, +20 O/S Available,OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D.,1 $\frac{1}{8}$ I.D., $\frac{3}{32}$ Depth,+10, +20 O/S Available,OEM # 9N2837
Valve	Int	01379	2.094 Head Diameter,OEM #s 9L7682 & 9L8368
	Exh	01497S	1.804 Head Diameter,Stellite Face,Turbo & H.O. OEM # 9N5125 & 119-6772
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Int	140-7681	0.3735 I.D.,2.579 Length,0.5020 O.D.,Plain I.D. Conversion Guide,Optional, OEM # 4W3778
	Exh	140-7682	0.3735 I.D.,2.980 Length,0.5021 O.D.,Plain I.D. Conversion Guide,Optional, OEM # 4W3779
Spring	Both	160-1198	2.005 Length,OEM # 1W-4259, Replaces All Early SINGLE Spring Designs, Some Early Castings May Need The Spring Seat Machined To 1.660 Dia.
		160-1228	1.900 Length,OEM #s 9N3617, 9N3387.

350 C.I., (5.7L), 1670, 8 Valve, Diesel
L4 350 CID

1670 30
BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2006E-2	2.006 O.D.,1 $\frac{1}{16}$ T I.D., $\frac{7}{16}$ Depth,+10, +20 & +30 O/S Available,Exc. Direct Injection & Natural Gas
	Exh	SB1880E-2	1.880 O.D.,1 $\frac{1}{16}$ T I.D., $\frac{7}{16}$ Depth,+20 O/S Available,OEM # 9M6495
Valve	Int	00755	1.895 Head Diameter,OEM # 7M7358
	Exh	00753S	1.771 Head Diameter,Stellite Face,OEM #s 7M7360, 8N3724 & 9M4163
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Both	140-1906N	0.3771 I.D.,3.220 Length,0.6577 O.D.,Flanged,Old Style, OEM # 5S4507
		140-7242	0.3750 I.D.,3.180 Length,0.6585 O.D.,High Strength Alloy,New Style, OEM # 4N3668, +5 O/S Available
Spring	Both	160-1179	2.650 Length,OEM # 9H9164
Rotator	Exh	161-1028	OEM # 3S0461

CATERPILLAR / HEAVY DUTY (Cont'd)

31 350 C.I., (5.7L), D4CD

L4 350 CID

D4CD

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-8	2 $\frac{1}{4}$ O.D., 1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	SB2000-13	2.000 O.D., 1 $\frac{5}{8}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00755	1.895 Head Diameter, OEM # 7M7358
	Exh	00754	1.771 Head Diameter, OEM # 7M7359
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Both	140-1906N	0.3771 I.D., 3.220 Length, 0.6577 O.D., Flanged, Old Style, OEM # 5S4507
		140-7242	0.3750 I.D., 3.180 Length, 0.6585 O.D., High Strength Alloy, New Style, OEM # 4N3668, +5 O/S Available
Spring	Both	160-1179	2.650 Length, OEM # 2S5267

32 350 C.I., (5.7L), D312, 8 Valve, Diesel

L4 350 CID

D312

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2006E-2	2.006 O.D., 1 $\frac{11}{16}$ I.D., $\frac{7}{16}$ Depth, +10, +20 & +30 O/S Available, Exc. Direct Injection & Natural Gas
	Exh	SB1880E-2	1.880 O.D., 1 $\frac{9}{16}$ I.D., $\frac{7}{16}$ Depth, +20 O/S Available, OEM # 9M6495
Valve	Int	00755	1.895 Head Diameter, OEM # 7M7358
	Exh	00753S	1.771 Head Diameter, Stellite Face, OEM #s 7M7360, 8N3724 & 9M4163
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429

33 350 C.I., (5.7L), D315, 8 Valve, Diesel

L4 350 CID

D315

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D., 1-55/64 I.D., 0.2920 Depth, +10, +20 O/S Available, OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D., 1 $\frac{5}{8}$ I.D., $\frac{9}{32}$ Depth, +10, +20 O/S Available, OEM # 9N2837
Valve	Int	00318	2.028 Head Diameter, OEM #s 4F213 & 6H3026
	Exh	00319	1.840 Head Diameter, OEM # 4F212
Guide	Both	140-1711	0.4405 I.D., 4.250 Length, 0.8133 O.D., To S/N 6U-110112 & 7U-28227, OEM # 4F6949.
		140-1888	0.4405 I.D., 4.250 Length, 0.8140 O.D., From S/N 6U-110112 & 7U-28227, OEM # 4H621

34 350 C.I., (5.7L), D315G, 8 Valve, Diesel

L4 350 CID

D315G

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D., 1-55/64 I.D., 0.2920 Depth, +10, +20 O/S Available, OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D., 1 $\frac{5}{8}$ I.D., $\frac{9}{32}$ Depth, +10, +20 O/S Available, OEM # 9N2837
Valve	Int	00318	2.028 Head Diameter, OEM #s 4F213 & 6H3026
	Exh	00319	1.840 Head Diameter, OEM # 4F212
Guide	Both	140-1711	0.4405 I.D., 4.250 Length, 0.8133 O.D., To S/N 6U-110112 & 7U-28227, OEM # 4F6949.
		140-1888	0.4405 I.D., 4.250 Length, 0.8140 O.D., From S/N 6U-110112 & 7U-28227, OEM # 4H621

35 350 C.I., (5.7L), D330A, 8 Valve, Diesel

L4 350 CID

D330A

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2006E-2	2.006 O.D., 1 $\frac{11}{16}$ I.D., $\frac{7}{16}$ Depth, +10, +20 & +30 O/S Available, Exc. Direct Injection & Natural Gas
	Exh	SB1880E-2	1.880 O.D., 1 $\frac{9}{16}$ I.D., $\frac{7}{16}$ Depth, +20 O/S Available, OEM # 9M6495

(Cont'd) **CATERPILLAR / HEAVY DUTY**

350 C.I., (5.7L), D330A, 8 Valve, Diesel
L4 350 CID

D330A 35
BORE - 114.3mm/4.50" (cont.)

PART		PART NO.	NOTES
Valve	Int	00755	1.895 Head Diameter,OEM # 7M7358
	Exh	00753S	1.771 Head Diameter,Stellite Face,OEM #s 7M7360, 8N3724 & 9M4163
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Both	140-1906N	0.3771 I.D.,3.220 Length,0.6577 O.D.,Flanged,Old Style, OEM # 5S4507
		140-7242	0.3750 I.D.,3.180 Length,0.6585 O.D.,High Strength Alloy,New Style, OEM # 4N3668, +5 O/S Available
Spring	Both	160-1179	2.650 Length,OEM # 2S5267
Rotator	Exh	161-1028	OEM # 3S0461
Lifter	Both	170-1011	Mechanical Type,OEM # 7S3161

350 C.I., (5.7L), D330B, 8 Valve, Diesel
L4 350 CID

D330B 36
BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2006E-2	2.006 O.D.,1 ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,Exc. Direct Injection & Natural Gas
	Exh	SB1880E-2	1.880 O.D.,1 ⁹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+20 O/S Available,OEM # 9M6495
Valve	Int	00755	1.895 Head Diameter,OEM # 7M7358
	Exh	00753S	1.771 Head Diameter,Stellite Face,OEM #s 7M7360, 8N3724 & 9M4163
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Both	140-1906N	0.3771 I.D.,3.220 Length,0.6577 O.D.,Flanged,Old Style, OEM # 5S4507
		140-7242	0.3750 I.D.,3.180 Length,0.6585 O.D.,High Strength Alloy,New Style, OEM # 4N3668, +5 O/S Available
Spring	Both	160-1179	2.650 Length,OEM # 2S5267
Rotator	Exh	161-1028	OEM # 3S0461
Lifter	Both	170-1011	Mechanical Type,OEM # 7S3161

365 C.I., (6.0L), 3056, 12 Valve, Turbo & Naturally Aspirated, Diesel "Perkins T6.601 / 6.601"

L6 365 CID

3056TNA 37
BORE - 100mm/3.94"

PART		PART NO.	NOTES
Valve	Int	05001	1.693 Head Diameter,OEM # 138-2052, 45 Degree
		13136	1.693 Head Diameter,OEM # 145-6855, 30 Degree
	Exh	05002S	1.620 Head Diameter,Stellite Face,OEM # 138-2050, 45 Degree
		13219	1.616 Head Diameter,OEM # 145-6857, 30 Degree
Keeper	Both	121-1118	1 RD Bead Type,OEM # 147-1979
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 145-6856
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 145-6858
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 185-0882
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 163-9256
Spring	Both	160-1498	1.847 Length,OEM # 206-4127
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

365 C.I., (6.0L), 3056, 12 Valve, Diesel "Perkins 1006.60"

L6 365 CID

3056NA 38
BORE - 100mm/3.94"

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM # 6I-0282
	Exh	01784	1.473 Head Diameter,OEM # 7W-4602
Keeper	Both	121-1018	1 RD Bead Type,OEM # 067-6834
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 1W-5849

CATERPILLAR / HEAVY DUTY (Cont'd)

38 365 C.I., (6.0L), 3056, 12 Valve, Diesel "Perkins 1006.60" 3056NA
 (cont.) L6 365 CID BORE - 100mm/3.94"

PART		PART NO.	NOTES
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 160-5436
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 160-5438
Spring	Both	160-1496	1.672 Length,Inner, OEM # 6I-0284
		160-1497	1.809 Length,Outer, OEM # 6I-0283
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

39 365 C.I., (6.0L), 3056, 12 Valve, Turbo, Diesel "Perkins 1006.60T" 3056T
 L6 365 CID BORE - 100mm/3.94"

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM # 6I-1196; NOTE: 45 Degree
		05000	1.772 Head Diameter,OEM # 100-4626; NOTE: 30 Degree
	Exh	01784	1.473 Head Diameter,OEM # 7W-4602
Keeper	Both	121-1018	1 RD Bead Type,OEM # 067-6834
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 1W-5849
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 160-5436
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 160-5438
Spring	Both	160-1496	1.672 Length,Inner, OEM # 6I-0284
		160-1497	1.809 Length,Outer, OEM # 6I-0283
Lifter	Both	VL549	Mechanical Type,OEM # 138-2053

40 390 C.I., (6.4L), 3066, 12 Valve, Diesel "Mitsubishi 7JK1" 3066_12V
 L6 390 CID BORE - 102.027mm/4.017"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-2	1.815 O.D.,1.570 I.D.,0.2610 Depth,OEM # 5I-8011; NOTE: Use Wirh 5I-7738 Intake Valve W/ 1.732 Head Dia.
		SB1894E-4	1.894 O.D.,1.580T I.D.,0.2410 Depth,OEM # 212-8474; NOTE: Use With 212-8477 Intake Valve W/ 1.811 Head Dia.
	Exh	SB1540E-1	1.540 O.D.,1.295 I.D.,0.2610 Depth,OEM # 5I-8012
Valve	Int	13392	1.732 Head Diameter,OEM # 5I-7738; NOTE: Use With Valve Seat # 5I-8011
		13393	1.811 Head Diameter,OEM # 212-8477; NOTE: Use With Valve Seat # 212-8474
	Exh	13394	1.457 Head Diameter,OEM # 5I-7739
Stem Seal	Both	122-1476	Positive Type,Viton Material,All Metal Clad Style,OEM # 5I-7624
Guide	Int	140-3192	0.3155 I.D.,2.200 Length,0.5130 O.D.,OEM # 183-8172
	Exh	140-3193	0.3155 I.D.,1.970 Length,0.5130 O.D.,OEM # 183-8173
Spring	Both	160-1657	2.200 Length,OEM # 5I-7740

41 403 C.I., (6.6L), 3116 12 Valve 3116
 L6 403 CID BORE - 104.99mm/5.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1969E-3	1.969 O.D.,1.704 I.D.,0.2340 Depth,OEM # 7W8065
		SB1969E-4N	1.969 O.D.,1.726 I.D.,0.2480 Depth,OEM # 130-9004; NOTE: Can Also Be Used For OEM # 163-9063
	Exh	SB1693E-8N	1.693 O.D.,1.458 I.D.,0.2340 Depth,+5 O/S Available,OEM # 1W2713
Valve	Int	01580	1.850 Head Diameter,OEM # 7W8064
		02231	1.850 Head Diameter,OEM # 161-4280
	Exh	01579S	1.575 Head Diameter,Stellite Face,OEM # 105-1779 or 136-0819
Keeper	Both	121-1079	1 RD Bead Type,OEM # 1W2715
Stem Seal	Both	122-1299	Positive Type,Viton Material,Top Hat Style,OEM # 119-3036

(Cont'd) **CATERPILLAR / HEAVY DUTY**

403 C.I., (6.6L), 3116 12 Valve **3116 41**
L6 403 CID **BORE - 104.99mm/5.00" (cont.)**

PART		PART NO.	NOTES
Guide	Both	140-8590	0.3180 I.D.,2.955 Length,0.5133 O.D.,OEM # 9Y8848
Spring	Exh	160-1452	3.230 Length,W/Engine Brake, OEM # 6I2307
	Both	160-1451	2.800 Length,Both W/O Engine Brake & Marine, Intake W/Engine Brake, OEM # 7C4273
Injector Tubes and Components		240-1002	Injector Tube,OEM # 1193061

403 C.I., (6.6L), C6.6 ACERT, 24 Valve, Turbo, Diesel **C6.6 42**
L6 403 CID **BORE - 105.025mm/4.1348"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1381E-1	1.381 O.D.,1.161 I.D.,0.255 Depth,OEM # 377-0399
	Exh	SB1322E-1	1.322 O.D.,1.114 I.D.,0.2360 Depth,OEM # 377-0400
Valve	Int	13329	1.378 Head Diameter,OEM # 309-6678
	Exh	13330	1.299 Head Diameter,OEM # 339-9637
Keeper	Both	121-1098	3 RD Bead Type,OEM # 276-8123
Stem Seal	Both	122-1457	Positive Type,Viton Material,Top Hat Style,OEM # 299-5511
Guide	Both	140-3164	0.2364 I.D.,1.820 Length,0.3952 O.D.,OEM # 380-2073
Spring	Both	160-1630	1.692 Length,OEM # 276-8132, 436-0521

425 C.I., (7.0L), D330C 8 Valve **D330C 43**
L4 425 CID **BORE - 120.65mm/4.75"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2129E-1	2.129 O.D.,1 ¹³ / ₁₆ T I.D., ⁷ / ₁₆ Depth,OEM Replacement for OEM # 5S7218
		SB2131E-1	2.131 O.D.,1 ¹³ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,To S/N 76R3176
	Exh	SB2004E-2	2.003 O.D.,1 ¹³ / ₁₆ T I.D., ⁷ / ₁₆ Depth,OEM Replacement for OEM # 5S7221 & 1W5321
		SB2006E-2	2.006 O.D.,1 ¹¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,Exc. Direct Injection & Natural Gas
Valve	Int	01204	2.020 Head Diameter,5.510 Overall Length, Indirect Injection N/A, OEM # 5S6452.
		01314S	2.020 Head Diameter,Stellite Face,5.510 Overall Length, Indirect Injection Turbo, OEM # 9N6117, Incl. Spark Ignited Short Valve.
		01631S	2.020 Head Diameter,Stellite Face,6.437 Overall Length, Spark Ignited, OEM # 7W7490, Long Valve.
		01760S	2.020 Head Diameter,Stellite Face,5.350 Overall Length, OEM # 100-7860, Small Margin Valve, Direct Injected
	Exh	01203	1.896 Head Diameter,5.469 Overall Length, Indirect Injection N/A, OEM # 5S6449.
		01205S	1.896 Head Diameter,Stellite Face,5.469 Overall Length, Indirect Injection Turbo, OEM # 8N0875.
		01491S	1.896 Head Diameter,Stellite Face,5.469 Overall Length, Spark Ignited, OEM # 2W2877 Short Valve.
		01630S	1.896 Head Diameter,Stellite Face,6.396 Overall Length, Spark Ignited, OEM # 7W7491, Long Valve.
		01761S	1.896 Head Diameter,Stellite Face,5.300 Overall Length, OEM # 148-7455, Small Margin Valve, Direct Injected
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, Use W/ 161-1018 Rotocoil W/ Direct Injection
Guide	Both	140-3037	0.3743 I.D.,2.780 Length,0.6580 O.D.,OEM # 1487425, 1487502, 1621589, +2 O/S Available

CATERPILLAR / HEAVY DUTY (Cont'd)

43 425 C.I., (7.0L), D330C 8 Valve D330C
 (cont.) L4 425 CID BORE - 120.65mm/4.75"

PART		PART NO.	NOTES
Guide	Both	140-7194	0.3750 I.D.,2.781 Length,0.6578 O.D.,All Exc. Spark Ignited & Natural Gas, OEM # 2P1262, +2 & +5 O/S Available
		140-7194SA	0.3750 I.D.,2.781 Length,0.6578 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
		140-8220	0.3750 I.D.,3.700 Length,0.6578 O.D.,High Strength Alloy,Natural Gas, OEM # 7W7489. Long Valve Eng.
		140-8408	0.3750 I.D.,2.775 Length,0.6580 O.D.,High Strength Alloy,Natural Gas, OEM # 7N4310, Short Valve Engine
		140-8486 140-8594	0.3750 I.D.,3.230 Length,0.6580 O.D.,Hardened,Short Valve Eng. 0.3750 I.D.,2.640 Length,0.6578 O.D.,High Strength Alloy,Improved Cooling, OEM # 7E1551, Short Valve Engine
Spring	Both	160-1192	2.050 Length,OEM # 7S7144; This Spring Works With Both Long & Short Valves
Rotator	Both	161-1018	OEM # 8N7782, 103-1800
Lifter	Both	170-1011	Mechanical Type,OEM # 7S3161

44 425 C.I., (7.0L), 3304, 8 Valve, Diesel 3304
 L4 425 CID BORE - 120.65mm/4.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2049E-1	2.049 O.D., ¹ / ₂₅ T I.D., ¹¹ / ₃₂ Depth,+05, +10 & +020 O/S Available,Direct Injected, Includes Spark Ignited, OEM # 7N4448, 107-0268, From S/N 76R3177
		SB2129E-1	2.129 O.D., ¹ / ₁₉ T I.D., ⁷ / ₁₆ Depth,OEM Replacement for OEM # 5S7218
		SB2131E-1	2.131 O.D., ¹ / ₁₉ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,To S/N 76R3176
	Exh	SB2004E-2	2.003 O.D., ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,OEM Replacement for OEM # 5S7221 & 1W5321
		SB2004E-3N	2.004 O.D.,1.685T I.D.,0.3170 Depth,+5, +10, & +20 O/S Available,Direct Injection, OEM # 2W4837, 107-0265
		SB2004E-4N SB2006E-2	2.004 O.D.,1.688 I.D.,0.4380 Depth,OEM # 7N1649; Spark Ignited 2.006 O.D., ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,Exc. Direct Injection & Spark Ignited
Valve	Int	01204	2.020 Head Diameter,5.510 Overall Length, Indirect Injection N/A, OEM # 5S6452.
		01314S	2.020 Head Diameter,Stellite Face,5.510 Overall Length, Indirect Injection Turbo, OEM # 9N6117, Incl. Spark Ignited Short Valve.
		01631S	2.020 Head Diameter,Stellite Face,6.437 Overall Length, Spark Ignited, OEM # 7W7490, Long Valve.
		01760S	2.020 Head Diameter,Stellite Face,5.350 Overall Length, OEM # 100-7860, Small Margin Valve, Direct Injected
	Exh	01203	1.896 Head Diameter,5.469 Overall Length, Indirect Injection N/A, OEM # 5S6449.
		01205S	1.896 Head Diameter,Stellite Face,5.469 Overall Length, Indirect Injection Turbo, OEM # 8N0875
		01491S	1.896 Head Diameter,Stellite Face,5.469 Overall Length, Spark Ignited, OEM # 2W2877 Short Valve.
		01630S 01761S	1.896 Head Diameter,Stellite Face,6.396 Overall Length, Spark Ignited, OEM # 7W7491, Long Valve. 1.896 Head Diameter,Stellite Face,5.300 Overall Length, OEM # 148-7455, Small Margin Valve, Direct Injected
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, Use W/ 161-1018 Rotocoil W/ Direct Injection
Guide	Both	140-3037	0.3743 I.D.,2.780 Length,0.6580 O.D.,OEM # 1487425, 1487502, 1621589, +2 O/S Available

(Cont'd) **CATERPILLAR / HEAVY DUTY**

425 C.I., (7.0L), 3304, 8 Valve, Diesel
L4 425 CID

3304 44
BORE - 120.65mm/4.75" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-7194	0.3750 I.D.,2.781 Length,0.6578 O.D.,All Exc. Spark Ignited & Natural Gas, OEM # 2P1262, +2 & +5 O/S Available
		140-7194SA	0.3750 I.D.,2.781 Length,0.6578 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel
		140-8220	0.3750 I.D.,3.700 Length,0.6578 O.D.,High Strength Alloy,Natural Gas, OEM # 7W7489. Long Valve Eng.
		140-8408	0.3750 I.D.,2.775 Length,0.6580 O.D.,High Strength Alloy,Natural Gas, OEM # 7N4310, Short Valve Engine
		140-8594	0.3750 I.D.,2.640 Length,0.6578 O.D.,High Strength Alloy,Improved Cooling, OEM # 7E1551, Short Valve Engine
Spring	Both	160-1192	2.050 Length,OEM # 7S7144; This Spring Works With Both Long & Short Valves
Rotator	Both	161-1018	OEM # 8N7782, 103-1800
Lifter	Both	170-1011	Mechanical Type,OEM # 7S3161
Injector Tubes and Components		240-1000	Water Director, Long,OEM # 5H7071
		240-1001	Water Director, Short,OEM # 1S3062

425 C.I., (7.0L), G3304, 8 Valve, Gas
L4 425 CID

G3304 45
BORE - 120.65mm/4.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2049E-1	2.049 O.D.,1 ²⁵ / ₃₂ T I.D.,1 ¹ / ₃₂ Depth,+05, +10 & +020 O/S Available,OEM # 7N4448, 107-0268
		SB2129E-1	2.129 O.D.,1 ¹³ / ₁₆ T I.D.,7 ⁷ / ₁₆ Depth,OEM # 5S7218
	Exh	SB2004E-4N	2.004 O.D.,1.688 I.D.,0.4380 Depth,OEM # 7N1649
Valve	Int	01314S	2.020 Head Diameter,Stellite Face,OEM # 9N6117; Short Valve; 5.510 Overall Length
		01631S	2.020 Head Diameter,Stellite Face,OEM # 7W7490; Long Valve, 6.437 Overall Length
	Exh	01491S	1.896 Head Diameter,Stellite Face,OEM # 2W2877; Short Valve, 5.469 Overall Length
		01630S	1.896 Head Diameter,Stellite Face,OEM # 7W7491, Long Valve, 6.396 Overall Length,
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, Use W/ 161-1018 Rotocoil
Guide	Both	140-8220	0.3750 I.D.,3.700 Length,0.6578 O.D.,High Strength Alloy,OEM # 7W7489, Long Valve Eng.
		140-8408	0.3750 I.D.,2.775 Length,0.6580 O.D.,High Strength Alloy,OEM # 7N4310, Short Valve Engine
		140-8594	0.3750 I.D.,2.640 Length,0.6578 O.D.,High Strength Alloy,OEM # 7E1551, Improved Cooling, Short Valve Engine
Spring	Both	160-1192	2.050 Length,OEM # 7S7144; This Spring Works With Both Long & Short Valves
Rotator	Both	161-1018	OEM # 8N7782, 103-1800
Lifter	Both	170-1011	Mechanical Type,OEM # 7S3161

428 C.I., (7.0L), C7.1 ACERT, 24 Valve, Turbo, Diesel
L6 428 CID

C7.1 46
BORE - 105.0mm/4.10"

PART		PART NO.	NOTES
Valve	Int	13329	1.378 Head Diameter,OEM # 309-6678
	Exh	13330	1.299 Head Diameter,OEM # 339-9637
Keeper	Both	121-1098	3 RD Bead Type,OEM # 276-8123

CATERPILLAR / HEAVY DUTY (Cont'd)

46 428 C.I., (7.0L), C7.1 ACERT, 24 Valve, Turbo, Diesel C7.1
 (cont.) L6 428 CID BORE - 105.0mm/4.10"

PART	PART NO.	NOTES
Stem Seal	Both 122-1457	Positive Type,Viton Material,Top Hat Style,OEM # 299-5511

47 442 C.I., (7.2L), 3126 12 Valve 3126
 L6 442 CID BORE - 110mm/4.33"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1969E-4N Exh SB1693E-8N	1.969 O.D.,1.726 I.D.,0.2480 Depth,OEM # 130-9004; NOTE: Can Also Be Used For OEM # 163-9063 1.693 O.D.,1.458 I.D.,0.2340 Depth,+5 O/S Available,OEM # 1W2713
Valve	Int 02231 Exh 01579S	1.850 Head Diameter,OEM # 161-4280 1.575 Head Diameter,Stellite Face,OEM # 105-1779 & 136-0819
Keeper	Both 121-1079	1 RD Bead Type,OEM # 1W2715
Stem Seal	Both 122-1299	Positive Type,Viton Material,Top Hat Style,OEM # 119-3036
Guide	Both 140-8590	0.3180 I.D.,2.955 Length,0.5133 O.D.,OEM # 9Y8848
Spring	Exh 160-1452 Both 160-1451	3.230 Length,W/Engine Brake, OEM # 6I2307 2.800 Length,Both W/O Engine Brake & Marine, Intake W/Engine Brake, OEM # 7C4273
Injector Tubes and Components	240-1002	Injector Tube,OEM # 119-3061

48 442 C.I., (7.2L), 3126B 18 Valve 3126B
 L6 442 CID BORE - 110mm/4.33"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1656E-1 SB1656E-3 Exh SB1814E-4C	1.656 O.D.,1.410 I.D.,0.2580 Depth,OEM # 155-9504; NOTE: W/.258 Depth 1.656 O.D.,1.410 I.D.,0.2180 Depth,OEM # 217-5213, 264-6157; NOTE: W/.218 Depth 1.814 O.D.,1.550 I.D.,0.2400 Depth,OEM # 147-8218
Valve	Int 02161S Exh 02160S	1.575 Head Diameter,Stellite Face,OEM # 145-7390 1.693 Head Diameter,Stellite Face,OEM # 147-8211
Keeper	Int 121-1079 Exh 121-1000	1 RD Bead Type,OEM # 1W2715 2 RD Bead Type,OEM # 2A4429
Stem Seal	Int 122-1364 Exh 122-1373	Positive Type,Viton Material,Top Hat Style,OEM # 147-8214 Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Int 140-3038 Exh 140-3039	0.3178 I.D.,3.175 Length,0.5130 O.D.,OEM # 140-9670 0.3745 I.D.,3.350 Length,0.6300 O.D.,OEM # 147-8220
Spring	Int 160-1453 Exh 160-1454	2.660 Length,OEM # 140-6188 3.627 Length,OEM # 137-6718
Injector Tubes and Components	240-1003 240-1003R 240-1036 240-1036RB 240-1036RT	Injector Tube,OEM # 124-0811, 157-8373, 159-0300, 227-2911 O-Ring, Green or Brown,OEM # 8C0563, NOTE: 2 Required Injector Tube,OEM # 227-1200 O-Ring, Bottom; Teal,OEM # 310-7257 O-Ring, Top; Blue,OEM # 310-7255

49 442 C.I., (7.2L), C7, 18 Valve, Turbo, Diesel "ACERT" C7A
 L6 442 CID BORE - 110mm/4.33"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1656E-1 SB1656E-3 Exh SB1814E-4C	1.656 O.D.,1.410 I.D.,0.2580 Depth,OEM # 155-9504; NOTE: W/.258 Depth 1.656 O.D.,1.410 I.D.,0.2180 Depth,OEM # 217-5213, 264-6157; NOTE: W/.218 Depth 1.814 O.D.,1.550 I.D.,0.2400 Depth,OEM # 147-8218, 232-1285

(Cont'd) **CATERPILLAR / HEAVY DUTY**

442 C.I., (7.2L), C7, 18 Valve, Turbo, Diesel "ACERT"

L6 442 CID

C7A **49**

BORE - 110mm/4.33" (cont.)

PART		PART NO.	NOTES
Valve	Int	02161S	1.575 Head Diameter,Stellite Face,OEM # 145-7390, 252-7801; NOTE: Except Marine
	Exh	02160S	1.693 Head Diameter,Stellite Face,OEM # 147-8211; NOTE: Except Marine
Keeper	Int	121-1079	1 RD Bead Type,OEM # 1W2715
	Exh	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Int	122-1364	Positive Type,Viton Material,Top Hat Style,OEM # 147-8214
	Exh	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 163-2478
Guide	Int	140-3038	0.3178 I.D.,3.175 Length,0.5130 O.D.,OEM # 140-9670
	Exh	140-3039	0.3745 I.D.,3.350 Length,0.6300 O.D.,OEM # 147-8220
Spring	Int	160-1453	2.660 Length,OEM # 140-6188
	Exh	160-1454	3.627 Length,OEM # 137-6718
Injector Tubes and Components		240-1003	Injector Tube,OEM # 159-0300, 227-2911
		240-1003R	O-Ring, Green or Brown,OEM # 8C0563, 2 Required
		240-1036	Injector Tube,OEM # 227-1200
		240-1036RB	O-Ring, Bottom; Teal,OEM # 310-7257
		240-1036RT	O-Ring, Top; Blue,OEM # 310-7255
		240-1041	Injector Tube,OEM # 261-0193
		240-1041RB	O-Ring, Bottom; Green,OEM # 310-7259
		240-1041RT	O-Ring, Top; Navy,OEM # 310-7258

525 C.I., (8.6L), D6B

L6 525 CID

D6B **50**

BORE- 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-8	2¼ O.D.,1 ¹³ / ₁₆ I.D.,¼ Depth
	Exh	SB2000-13	2.000 O.D.,1 ¹ / ₈ I.D.,¼ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	00755	1.895 Head Diameter,OEM # 7M7358
	Exh	00754	1.771 Head Diameter,OEM # 7M7359
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Both	140-1906N	0.3771 I.D.,3.220 Length,0.6577 O.D.,Flanged,Old Style, OEM # 5S4507
		140-7242	0.3750 I.D.,3.180 Length,0.6585 O.D.,High Strength Alloy,New Style, OEM # 4N3668, +5 O/S Available
Spring	Both	160-1179	2.650 Length,OEM # 2S5267

525 C.I., (8.6L), D318 12 Valve

L6 525 CID

D318 **51**

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D.,1-55/64 I.D.,0.2920 Depth,+10, +20 O/S Available,OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D.,1 ¹ / ₈ I.D., ⁹ / ₃₂ Depth,+10, +20 O/S Available,OEM # 9N2837
Valve	Int	00318	2.028 Head Diameter,OEM #s 4F213 & 6H3026
	Exh	00319	1.840 Head Diameter,OEM # 4F212
Guide	Both	140-1711	0.4405 I.D.,4.250 Length,0.8133 O.D.,To S/N 6U-110112 & 7U-28227, OEM # 4F6949.
		140-1888	0.4405 I.D.,4.250 Length,0.8140 O.D.,From S/N 6U-110112 & 7U-28227, OEM # 4H621

525 C.I., (8.6L), D318G 12 Valve

L6 525 CID

D318G **52**

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D.,1-55/64 I.D.,0.2920 Depth,+10, +20 O/S Available,OEM # 2N8943

CATERPILLAR / HEAVY DUTY (Cont'd)

52 525 C.I., (8.6L), D318G 12 Valve D318G
 (cont.) L6 525 CID BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1912E-1	1.912 O.D., 1 ⁵ / ₈ I.D., ⁹ / ₃₂ Depth, +10, +20 O/S Available, OEM # 9N2837
Valve	Int	00318	2.028 Head Diameter, OEM #s 4F213 & 6H3026
	Exh	00319	1.840 Head Diameter, OEM # 4F212
Guide	Both	140-1711	0.4405 I.D., 4.250 Length, 0.8133 O.D., To S/N 6U-110112 & 7U-28227, OEM # 4F6949.
		140-1888	0.4405 I.D., 4.250 Length, 0.8140 O.D., From S/N 6U-110112 & 7U-28227, OEM # 4H621

53 525 C.I., (8.6L), D333A 12 Valve D333A
 L6 525 CID BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2006E-2	2.006 O.D., 1 ¹¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth, +10, +20 & +30 O/S Available, Exc. Direct Injection & Natural Gas
	Exh	SB1880E-2	1.880 O.D., 1 ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth, +20 O/S Available, OEM # 9M6495
Valve	Int	00755	1.895 Head Diameter, OEM # 7M7358
	Exh	00753S	1.771 Head Diameter, Stellite Face, OEM #s 7M7360, 8N3724 & 9M4163
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Both	140-1906N	0.3771 I.D., 3.220 Length, 0.6577 O.D., Flanged, Old Style, OEM # 5S4507
		140-7242	0.3750 I.D., 3.180 Length, 0.6585 O.D., High Strength Alloy, New Style, OEM # 4N3668, +5 O/S Available
Spring	Both	160-1179	2.650 Length, OEM # 2S5267
Rotator	Exh	161-1028	OEM # 3S0461
Lifter	Both	170-1011	Mechanical Type, OEM # 7S3161

54 525 C.I., (8.6L), 1673 12 Valve 1673
 L6 525 CID BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2006E-2	2.006 O.D., 1 ¹¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth, +10, +20 & +30 O/S Available, Exc. Direct Injection & Natural Gas
	Exh	SB1880E-2	1.880 O.D., 1 ¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth, +20 O/S Available, OEM # 9M6495
Valve	Int	00755	1.895 Head Diameter, OEM # 7M7358
	Exh	00753S	1.771 Head Diameter, Stellite Face, OEM #s 7M7360, 8N3724 & 9M4163
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Both	140-7194	0.3750 I.D., 2.781 Length, 0.6578 O.D., All Exc. Spark Ignited & Natural Gas, OEM # 2P1262, +2 & +5 O/S Available
		140-7194SA	0.3750 I.D., 2.781 Length, 0.6578 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1179	2.650 Length, OEM # 9H9164
Rotator	Exh	161-1028	OEM # 3S0461
Lifter	Both	170-1011	Mechanical Type, OEM # 7S3161

55 537 C.I., (8.8L), C9, 24 Valve Turbo Diesel C9A
 L6 537 CID BORE - 112mm/4.41"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1459E-1	1.459 O.D., 1.200 I.D., 0.2170 Depth, OEM # 212-8918, W/ 1.417 Head Dia.
		SB1577E-1	1.577 O.D., 1.340T I.D., 0.2200 Depth, +10 & +20 O/S Available, OEM # 241-8388; W/1.535 Head Dia.
	Exh	SB1479E-1C	1.479 O.D., 1.210T I.D., 0.2570 Depth, OEM # 212-8917
Valve	Int	02260S	1.417 Head Diameter, Stellite Face, OEM # 163-2442; W/ .3717 Stem Dia.
		13192S	1.535 Head Diameter, Stellite Face, OEM # 241-8382, 252-7803; ACERT, W/.315 Stem Dia. & Single Groove

(Cont'd) **CATERPILLAR / HEAVY DUTY**

537 C.I., (8.8L), C9, 24 Valve Turbo Diesel
L6 537 CID

C9A 55
BORE - 112mm/4.41" (cont.)

PART		PART NO.	NOTES
Valve	Exh	02261	1.417 Head Diameter,Inconel,OEM # 188-3122; W/ .3717 Stem Dia.
		13193	1.417 Head Diameter,Inconel,OEM # 241-8383; NOTE: ACERT, 7.269 Length
Keeper	Int	121-1079	1 RD Bead Type,OEM # 1W-2715, 5/16 Stem Dia., NOTE: ACERT
	Both	121-1000	2 RD Bead Type,OEM # 2A-4429, 3/8 Stem Dia., NOTE: Exhaust Only ACERT
Stem Seal	Int	122-1424	Positive Type,Viton Material,Metal Clad Style,OEM # 241-8390; NOTE: ACERT, Use W/ 0.315 Stem Valve
	Both	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 163-2478; NOTE: Exhaust Only ACERT
Guide	Int	140-3123	0.3180 I.D.,3.155 Length,0.5133 O.D.,+5 & +20 O/S Also Available,OEM # 241-8389, 259-5829; NOTE: ACERT, Use With 5/16 Stem
	Both	140-3058	0.3745 I.D.,3.155 Length,0.6298 O.D.,+2, +5 & +20 O/S Also Available,OEM # 163-2444, 260-4856; NOTE: Exhaust Only ACERT; +2 O/S Also Available
Spring	Int	160-1586	2.371 Length,Inner, OEM # 241-8386; NOTE: ACERT
		160-1587	2.903 Length,Outer, OEM # 241-8385; NOTE: ACERT
	Exh	160-1572	2.319 Length,Outer, OEM # 190-6117; NOTE: ACERT
		160-1577	2.330 Length,Inner, OEM # 190-6115; NOTE: ACERT
	Both	160-1572	2.319 Length,Outer, OEM # 190-6117; NOTE: Non-ACERT
160-1577		2.330 Length,Inner, OEM # 190-6115; NOTE: Non-ACERT	
Injector Tubes and Components		240-1036	Injector Tube,OEM # 227-1200
		240-1036RB	O-Ring, Bottom; Teal,OEM # 310-7257
		240-1036RT	O-Ring, Top; Blue,OEM # 310-7255

568 C.I., (9.3L), C9.3 ACERT, 24 Valve, Turbo Diesel
L6 568 CID

C9.3 56
BORE - 115.0mm/4.53"

PART		PART NO.	NOTES
Valve	Int	13420	1.634 Head Diameter,OEM # 262-2957, 490-1729; NOTE: Includes Marine
	Exh	13421	1.476 Head Diameter,Inconel,OEM # 255-8676, 490-1730, 369-5921; NOTE: Includes Marine
Keeper	Both	121-1079	1 RD Bead Type,OEM # 1W-2715; NOTE: Includes Marine
Stem Seal	Both	122-1424	Positive Type,Viton Material,Metal Clad Style,OEM # 241-8390; NOTE: W/ Garter Spring
		122-1487	Positive Type,Viton Material,Metal Clad Style,OEM # 312-8619; NOTE: W/O Garter Spring, Includes Marine
Guide	Both	140-3194	0.3718 I.D.,2.407 Length,0.5130 O.D.,OEM # 255-8665; NOTE: Includes Marine
Spring	Both	160-1670	2.981 Length,OEM # 255-8677; NOTE: Inner; W/ White Stripe
		160-1671	3.174 Length,OEM # 255-8678; NOTE: Outer; W/ White Stripe
		160-1672	2.985 Length,OEM # 349-5303; NOTE: Inner, W/Yellow Stripe, Includes Marine
		160-1673	3.097 Length,OEM # 349-5307; NOTE: Outer, W/Yellow Stripe, Includes Marine
Injector Tubes and Components		240-1041RB	O-Ring, Bottom; Green,OEM # 310-7259
		240-1041RT	O-Ring, Top; Navy,OEM # 310-7258

CATERPILLAR / HEAVY DUTY (Cont'd)

57 629 C.I., (10.3L), C10 24 Valve

L6 629 CID

C10

BORE - 125mm/4.90"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-8	1.812 O.D., 1.530T I.D., 0.3650 Depth, OEM # 138-1999, 138-2006, 179-9454
	Exh	SB1711E-1C	1.711 O.D., 1.416T I.D., 0.3780 Depth, OEM # 138-1997, 138-2005, 179-9453
Valve	Int	01582 01582S	1.772 Head Diameter, OEM # 7E-9578. 1.772 Head Diameter, Stellite Face, OEM # 1242692, 1929212, Engines W/ 280-370 HP
	Exh	01581S	1.654 Head Diameter, Stellite Face, OEM #s 7C-1586, 7E-9577, 122-2693, 133-7029
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Stem Seal	Both	122-1177	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 7E7978
Guide	Both	140-8592	0.3745 I.D., 2.785 Length, 0.6305 O.D., OEM # 1008150, +2 O/S Available
Spring	Both	160-1462	2.550 Length, Inner, OEM # 224-4441
		160-1463	2.523 Length, Outer, OEM # 214-0586, 332-2152
Rotator	Both	161-1041	OEM # 7E7977; NOTE: Includes Oil Shield
Injector Tubes and Components		240-1005	Injector Tube, OEM # 116-1102

58 629 C.I., (10.3L), 3176, 24 Valve, Diesel

L6 629 CID

3176

BORE - 124.87mm/4.92"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-8	1.812 O.D., 1.530T I.D., 0.3650 Depth, OEM # 138-1999, 138-2006, 179-9454
	Exh	SB1711E-1C	1.711 O.D., 1.416T I.D., 0.3780 Depth, OEM # 7W5554, 133-6997, 138-1997, 179-9453
Valve	Int	01582 01582S	1.772 Head Diameter, OEM # 7E-9578 1.772 Head Diameter, Stellite Face, OEM # 124-2692
	Exh	01581S	1.654 Head Diameter, Stellite Face, OEM #s 7C-1586, 7E-9577, 133-7029
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429, W/ .3717 Stem Dia.
Stem Seal	Both	122-1177	Umbrella Type, Nylon Material, Oil Shield Style, 6I-2662
Guide	Int	140-7447	0.3745 I.D., 2.625 Length, 0.5640 O.D., Plain I.D. Conversion Guide
	Exh	140-7448	0.3745 I.D., 3.000 Length, 0.5640 O.D., Plain I.D. Conversion Guide
	Both	140-8592	0.3745 I.D., 2.785 Length, 0.6305 O.D., OEM # 7W6878 & 1008150, +2 O/S Available
Spring	Both	160-1462	2.550 Length, Inner, OEM # 224-4441
		160-1463	2.523 Length, Outer, OEM # 214-0586, 332-2152
Rotator	Both	161-1041	OEM # 6I2663, 7E7977, 7C8581; NOTE: Includes Oil Shield
Injector Tubes and Components		240-1004	Injector Tube, OEM # 4P4735, 4P7135, 105-4232
		240-1005	Injector Tube, OEM # 116-1102

59 636 C.I., (10.5L), 1676

V8 636 CID

1676

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1505E-1	1.504 O.D., 1¼ I.D., 0.3350 Depth, OEM # 1S2894
	Exh	SB1442E-2	1.442 O.D., 1 ¹ / ₃₂ I.D., 1 ¹ / ₃₂ Depth, OEM # 1S2895
Valve	Int	01351S	1.430 Head Diameter, Stellite Face, OEM #s 1S8143, 2S8143 & 7S2514
	Exh	01350S	1.370 Head Diameter, Stellite Face, OEM # 1S2903
Keeper	Both	121-1011	1 SQ Bead Type, OEM # 1S2898
Guide	Both	140-6881	0.3140 I.D., 3.031 Length, 0.5660 O.D., W/O Flange, OEM # 5S9291

(Cont'd) **CATERPILLAR / HEAVY DUTY**

636 C.I., (10.5L), 1676 **1676 59**
V8 636 CID **BORE - 114.3mm/4.50" (cont.)**

PART		PART NO.	NOTES
Spring	Both	160-1198	2.005 Length,1.559 O.D., OEM # 1W4259
		160-1228	1.900 Length,OEM #s 9N3617, 9N3387.

636 C.I., (10.5L), 3208, Naturally Aspirated, 16 Valve, Diesel **3208NA 60**
V8 636 CID **BORE - 114.3mm/4.50"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D.,1-55/64 I.D.,0.2920 Depth,+10, +20 O/S Available,OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D.,1 $\frac{1}{8}$ I.D., $\frac{9}{32}$ Depth,+10, +20 O/S Available,OEM # 9N2837
Valve	Int	01379	2.094 Head Diameter,OEM # 9L7682
	Exh	01378	1.804 Head Diameter,OEM # 9L7683
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Int	140-7447	0.3745 I.D.,2.625 Length,0.5640 O.D.,Plain I.D. Conversion Guide,Optional W/.564 O.D.
		140-7681	0.3735 I.D.,2.579 Length,0.5020 O.D.,Plain I.D. Conversion Guide,Optional For OEM # 4W3778
		140-8357	0.3735 I.D.,2.578 Length,0.5020 O.D.,High Strength Alloy,OEM # 4W3778, 6I2864
	Exh	140-7448	0.3745 I.D.,3.000 Length,0.5640 O.D.,Plain I.D. Conversion Guide,Optional W/.564 O.D.
		140-7682	0.3735 I.D.,2.980 Length,0.5021 O.D.,Plain I.D. Conversion Guide,Optional For OEM # 4W3779
		140-8356	0.3735 I.D.,2.980 Length,0.5020 O.D.,High Strength Alloy,OEM # 4W3779, 6I2865
Spring	Both	160-1198	2.005 Length,OEM # 1W-4259, Replaces All Early SINGLE Spring Designs, Some Early Castings May Need The Spring Seat Machined To 1.660 Dia.
		160-1217	2.038 Length,Outer, OEM # 9N5496
		160-1218	1.920 Length,Inner, OEM # 9N5495
		160-1228	1.900 Length,OEM #s 9N3617, 9N3387.
Lifter	Both	170-1013	Mechanical Type,OEM # 9N5786

636 C.I., (10.5L), 3208, Turbo, 16 Valve, Diesel **3208TD 61**
V8 636 CID **BORE - 114.3mm/4.50"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2150E-1	2.150 O.D.,1-55/64 I.D.,0.2920 Depth,+10, +20 O/S Available,OEM # 2N8943
	Exh	SB1912E-1	1.912 O.D.,1 $\frac{1}{8}$ I.D., $\frac{9}{32}$ Depth,+10, +20 O/S Available,OEM # 9N2837
Valve	Int	01379	2.094 Head Diameter,OEM # 9L7682
	Exh	01497S	1.804 Head Diameter,Stellite Face,OEM # 9N5125 & 119-6772
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Int	140-7447	0.3745 I.D.,2.625 Length,0.5640 O.D.,Plain I.D. Conversion Guide,Optional W/.564 O.D.
		140-7681	0.3735 I.D.,2.579 Length,0.5020 O.D.,Plain I.D. Conversion Guide,Optional For OEM # 4W3778
		140-8357	0.3735 I.D.,2.578 Length,0.5020 O.D.,High Strength Alloy,OEM # 4W3778, 6I2864
	Exh	140-7448	0.3745 I.D.,3.000 Length,0.5640 O.D.,Plain I.D. Conversion Guide,Optional W/.564 O.D.
		140-7682	0.3735 I.D.,2.980 Length,0.5021 O.D.,Plain I.D. Conversion Guide,Optional For OEM # 4W3779
		140-8356	0.3735 I.D.,2.980 Length,0.5020 O.D.,High Strength Alloy,OEM # 4W3779, 6I2865

CATERPILLAR / HEAVY DUTY (Cont'd)

61 636 C.I., (10.5L), 3208, Turbo, 16 Valve, Diesel 3208TD
 (cont.) V8 636 CID BORE - 114.3mm/4.50"

PART	PART NO.	NOTES	
Spring	Both	160-1198	2.005 Length,OEM # 1W-4259, Replaces All Early SINGLE Spring Designs, Some Early Castings May Need The Spring Seat Machined To 1.660 Dia.
		160-1217	2.038 Length,Outer, OEM # 9N5496
		160-1218	1.920 Length,Inner, OEM # 9N5495
		160-1228	1.900 Length,OEM #s 9N3617, 9N3387.
Lifter	Both	170-1013	Mechanical Type,OEM # 9N5786

62 636 C.I., (10.5L), D336 D336
 V8 636 CID BORE - 114.3mm/4.50"

PART	PART NO.	NOTES	
Valve Seat Insert	Int	SB1505E-1	1.504 O.D.,1 $\frac{1}{4}$ I.D.,0.3350 Depth,OEM # 1S2894
	Exh	SB1442E-2	1.442 O.D.,1 $\frac{7}{32}$ I.D., $\frac{11}{32}$ Depth,OEM # 1S2895
Valve	Int	01351S	1.430 Head Diameter,Stellite Face,OEM #s 1S8143, 2S8143 & 7S2514
	Exh	01350S	1.370 Head Diameter,Stellite Face,OEM # 1S2903
Keeper	Both	121-1011	1 SQ Bead Type,OEM # 1S2898
Guide	Both	140-6881	0.3140 I.D.,3.031 Length,0.5660 O.D.,W/O Flange,OEM # 5S9291

63 638 C.I., (10.5L), D333C 12 Valve D333C
 L6 638 CID BORE - 120.65mm/4.75"

PART	PART NO.	NOTES	
Valve Seat Insert	Int	SB2129E-1	2.129 O.D.,1 $\frac{19}{16}$ T I.D., $\frac{7}{16}$ Depth,OEM Replacement for OEM # 5S7218
		SB2131E-1	2.131 O.D.,1 $\frac{19}{16}$ T I.D., $\frac{7}{16}$ Depth,+10, +20 & +30 O/S Available,To S/N 76R3176
	Exh	SB2004E-2	2.003 O.D.,1 $\frac{11}{16}$ T I.D., $\frac{7}{16}$ Depth,OEM Replacement for OEM # 5S7221 & 1W5321
		SB2006E-2	2.006 O.D.,1 $\frac{11}{16}$ T I.D., $\frac{7}{16}$ Depth,+10, +20 & +30 O/S Available,Exc. Direct Injection & Natural Gas
Valve	Int	01204	2.020 Head Diameter,5.510 Overall Length, Indirect Injection N/A, OEM # 5S6452.
		01314S	2.020 Head Diameter,Stellite Face,5.510 Overall Length, Indirect Injection Turbo, OEM # 9N6117, Incl. Spark Ignited Short Valve.
		01631S	2.020 Head Diameter,Stellite Face,6.437 Overall Length, Spark Ignited, OEM # 7W7490, Long Valve.
		01760S	2.020 Head Diameter,Stellite Face,5.350 Overall Length, OEM # 100-7860, Small Margin Valve, Direct Injected
	Exh	01203	1.896 Head Diameter,5.469 Overall Length, Indirect Injection N/A, OEM # 5S6449.
		01205S	1.896 Head Diameter,Stellite Face,5.469 Overall Length, Indirect Injection Turbo, OEM # 8N0875.
		01491S	1.896 Head Diameter,Stellite Face,5.469 Overall Length, Spark Ignited, OEM # 2W2877 Short Valve.
		01630S	1.896 Head Diameter,Stellite Face,6.396 Overall Length, Spark Ignited, OEM # 7W7491, Long Valve.
	01761S	1.896 Head Diameter,Stellite Face,5.300 Overall Length, OEM # 148-7455, Small Margin Valve, Direct Injected	
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Both	140-3037	0.3743 I.D.,2.780 Length,0.6580 O.D.,OEM # 1487425, 1487502, 1621589, +2 O/S Available
		140-7194	0.3750 I.D.,2.781 Length,0.6578 O.D.,All Exc. Spark Ignited & Natural Gas, OEM # 2P1262, +2 & +5 O/S Available
		140-7194SA	0.3750 I.D.,2.781 Length,0.6578 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel
		140-8220	0.3750 I.D.,3.700 Length,0.6578 O.D.,High Strength Alloy,Natural Gas, OEM # 7W7489. Long Valve Eng.

(Cont'd) **CATERPILLAR / HEAVY DUTY**

638 C.I., (10.5L), D333C 12 Valve **D333C 63**
L6 638 CID **BORE - 120.65mm/4.75" (cont.)**

PART		PART NO.	NOTES
Guide	Both	140-8408	0.3750 I.D.,2.775 Length,0.6580 O.D.,High Strength Alloy,Natural Gas, OEM # 7N4310, Short Valve Engine
		140-8486	0.3750 I.D.,3.230 Length,0.6580 O.D.,Hardened,Short Valve Eng.
		140-8594	0.3750 I.D.,2.640 Length,0.6578 O.D.,High Strength Alloy,Improved Cooling, OEM # 7E1551, Short Valve Engine
Spring	Both	160-1192	2.050 Length,OEM # 7S7144; This Spring Works With Both Long & Short Valves
Rotator	Both	161-1018	OEM # 8N7782, 103-1800
Lifter	Both	170-1011	Mechanical Type,OEM # 7S3161

638 C.I., (10.5L), D334 12 Valve **D334 64**
L6 638 CID **BORE - 114.3mm/4.50"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1505E-1	1.504 O.D.,1/4 I.D.,0.3350 Depth,OEM # 1S2894
	Exh	SB1442E-2	1.442 O.D.,1/32 I.D.,1/32 Depth,OEM # 1S2895
Valve	Int	01351S	1.430 Head Diameter,Stellite Face,OEM #s 1S8143, 2S8143 & 7S2514
	Exh	01350S	1.370 Head Diameter,Stellite Face,OEM # 1S2903
Keeper	Both	121-1011	1 SQ Bead Type,OEM # 1S2898
Guide	Both	140-6881	0.3140 I.D.,3.031 Length,0.5660 O.D.,W/O Flange,OEM # 5S9291

638 C.I., (10.5L), 3306, 12 Valve, Diesel **3306 65**
L6 638 CID **BORE - 120.65mm/4.75"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2049E-1	2.049 O.D.,1 ²⁵ / ₃₂ T I.D.,1 ¹ / ₃₂ Depth,+05, +10 & +020 O/S Available,Direct Injected, OEM # 7N4448, 107-0268, From S/N 76R3177
		SB2129E-1	2.129 O.D.,1 ¹³ / ₁₆ T I.D.,7/16 Depth,OEM Replacement for OEM # 5S7218
		SB2131E-1	2.131 O.D.,1 ¹³ / ₁₆ T I.D.,7/16 Depth,+10, +20 & +30 O/S Available,To S/N 76R3176
	Exh	SB2004E-2	2.003 O.D.,1 ¹¹ / ₁₆ T I.D.,7/16 Depth,OEM Replacement for OEM # 5S7221 & 1W5321
		SB2004E-3N	2.004 O.D.,1.685T I.D.,0.3170 Depth,+5, +10, & +20 O/S Available,Direct Injection, OEM # 2W4837, 107-0265
		SB2004E-4N SB2006E-2	2.004 O.D.,1.688 I.D.,0.4380 Depth,Natural Gas, OEM # 7N1649 2.006 O.D.,1 ¹¹ / ₁₆ T I.D.,7/16 Depth,+10, +20 & +30 O/S Available,Exc. Direct Injection & Natural Gas
Valve	Int	01204	2.020 Head Diameter,5.510 Overall Length, Indirect Injection N/A, OEM # 5S6452.
		01314S	2.020 Head Diameter,Stellite Face,5.510 Overall Length, Indirect Injection Turbo, OEM # 9N6117, Includes Spark Ignited Short Valve
		01631S	2.020 Head Diameter,Stellite Face,6.437 Overall Length, Spark Ignited, OEM # 7W7490, Long Valve
		01760S	2.020 Head Diameter,Stellite Face,5.350 Overall Length, OEM # 100-7860, Small Margin Valve, Direct Injected
	Exh	01203	1.896 Head Diameter,5.469 Overall Length, Indirect Injection N/A, OEM # 5S6449.
		01205S	1.896 Head Diameter,Stellite Face,5.469 Overall Length, Indirect Injection Turbo, OEM # 8N0875.
		01491S	1.896 Head Diameter,Stellite Face,5.469 Overall Length, Spark Ignited, OEM # 2W2877, Short Valve
		01630S	1.896 Head Diameter,Stellite Face,6.396 Overall Length, Spark Ignited, OEM # 7W7491, Long Valve
01761S	1.896 Head Diameter,Stellite Face,5.300 Overall Length, OEM # 148-7455, Small Margin Valve, Direct Injected		
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429

CATERPILLAR / HEAVY DUTY (Cont'd)

65 638 C.I., (10.5L), 3306, 12 Valve, Diesel
(cont.) L6 638 CID

3306
BORE - 120.65mm/4.75"

PART		PART NO.	NOTES
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, Use W/ 161-1018 Rotocoil W/ Direct Injection Only
Guide	Both	140-3037	0.3743 I.D.,2.780 Length,0.6580 O.D.,OEM # 1487425, 1487502, 1621589, +2 O/S Available
		140-7194	0.3750 I.D.,2.781 Length,0.6578 O.D.,All Exc. Spark Ignited & Natural Gas, OEM # 2P1262, +2 & +5 O/S Available
		140-7194SA	0.3750 I.D.,2.781 Length,0.6578 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel
		140-8220	0.3750 I.D.,3.700 Length,0.6578 O.D.,High Strength Alloy,Natural Gas, OEM # 7W7489, Long Valve Eng.
		140-8408	0.3750 I.D.,2.775 Length,0.6580 O.D.,High Strength Alloy,Natural Gas, OEM # 7N4310, Short Valve Engine
		140-8594	0.3750 I.D.,2.640 Length,0.6578 O.D.,High Strength Alloy,Improved Cooling, OEM # 7E1551, Short Valve Engine
Spring	Both	160-1192	2.050 Length,OEM # 7S7144; NOTE: This Spring Works With Both Long & Short Valves; Except Direct Injected Industrial
		160-1606	2.182 Length,OEM # 103-2454; NOTE: Direct Injected Industrial, Use W/ Short Valves 01760S & 01761S
Rotator	Both	161-1018	OEM # 8N7782, 103-1800
Lifter	Both	170-1011	Mechanical Type,OEM # 7S3161
Injector Tubes and Components		240-1000	Water Director, Long,OEM # 5H7071
		240-1001	Water Director, Short,OEM # 1S3062

66 638 C.I., (10.5L), G3306, 12 Valve, Gas
L6 638 CID

G3306
BORE - 120.65mm/4.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2049E-1	2.049 O.D.,1 ²⁵ / ₃₂ T I.D.,1 ¹ / ₃₂ Depth,+05, +10 & +020 O/S Available,OEM # 7N4448, 107-0268
		SB2129E-1	2.129 O.D.,1 ¹³ / ₁₆ T I.D.,7 ¹ / ₁₆ Depth,OEM # 5S7218
	Exh	SB2004E-4N	2.004 O.D.,1.688 I.D.,0.4380 Depth,OEM # 7N1649
Valve	Int	01314S	2.020 Head Diameter,Stellite Face,OEM # 9N6117; Short Valve; 5.510 Overall Length
		01631S	2.020 Head Diameter,Stellite Face,OEM # 7W7490; Long Valve, 6.437 Overall Length
	Exh	01491S	1.896 Head Diameter,Stellite Face,OEM # 2W2877; Short Valve, 5.469 Overall Length
		01630S	1.896 Head Diameter,Stellite Face,OEM # 7W7491, Long Valve, 6.396 Overall Length,
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, Use W/ 161-1018 Rotocoil
Guide	Both	140-8220	0.3750 I.D.,3.700 Length,0.6578 O.D.,High Strength Alloy,OEM # 7W7489, Long Valve Eng.
		140-8408	0.3750 I.D.,2.775 Length,0.6580 O.D.,High Strength Alloy,OEM # 7N4310, Short Valve Engine
		140-8594	0.3750 I.D.,2.640 Length,0.6578 O.D.,High Strength Alloy,OEM # 7E1551, Improved Cooling, Short Valve Engine
Spring	Both	160-1192	2.050 Length,OEM # 7S7144; This Spring Works With Both Long & Short Valves
Rotator	Both	161-1018	OEM # 8N7782, 103-1800
Lifter	Both	170-1011	Mechanical Type,OEM # 7S3161

(Cont'd) **CATERPILLAR / HEAVY DUTY**

638 C.I., (10.5L), 1673C 12 Valve
L6 638 CID

1673C 67
BORE - 120.65mm/4.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2129E-1 SB2131E-1	2.129 O.D.,1 ¹³ / ₁₆ T I.D., ⁷ / ₁₆ Depth,OEM Replacement for OEM # 5S7218 2.131 O.D.,1 ¹³ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,To S/N 76R3176
	Exh	SB2004E-2	2.003 O.D.,1 ¹¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,OEM Replacement for OEM # 5S7221 & 1W5321
		SB2006E-2	2.006 O.D.,1 ¹¹ / ₁₆ T I.D., ⁷ / ₁₆ Depth,+10, +20 & +30 O/S Available,Exc. Direct Injection & Natural Gas
Valve	Int	01314S	2.020 Head Diameter,Stellite Face,5.510 Overall Length, Indirect Injection Turbo OEM # 9N6117
	Exh	01205S	1.896 Head Diameter,Stellite Face,5.469 Overall Length, Indirect Injection Turbo, OEM # 8N0875.
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, Use W/ 161-1018 Rotocoil W/ Direct Injection Only
Guide	Both	140-7194	0.3750 I.D.,2.781 Length,0.6578 O.D.,All Exc. Spark Ignited & Natural Gas, OEM # 2P1262, +2 & +5 O/S Available
		140-7194SA	0.3750 I.D.,2.781 Length,0.6578 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1192	2.050 Length,OEM # 7S7144; This Spring Works With Both Long & Short Valves
Rotator	Both	161-1018	OEM # 8N7782, 103-1018
Lifter	Both	170-1011	Mechanical Type,OEM # 7S3161

638 C.I., (10.5L), 1674 12 Valve
L6 638 CID

1674 68
BORE - 120.65mm/4.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1505E-1	1.504 O.D.,1 ¹ / ₄ I.D.,0.3350 Depth,OEM # 1S2894
	Exh	SB1442E-2	1.442 O.D.,1 ¹ / ₃₂ I.D., ¹¹ / ₃₂ Depth,OEM # 1S2895
Valve	Int	01351S	1.430 Head Diameter,Stellite Face,OEM #s 1S8143, 2S8143 & 7S2514
	Exh	01350S	1.370 Head Diameter,Stellite Face,OEM # 1S2903
Keeper	Both	121-1011	1 SQ Bead Type,OEM # 1S2898
Guide	Both	140-6881	0.3140 I.D.,3.031 Length,0.5660 O.D.,W/O Flange,OEM # 5S9291

677 C.I., (11.1L), C11 24 Valve Turbo Diesel
L6 677 CID

C11A 69
BORE - 130mm/5.12"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1792E-1	1.792 O.D.,1.535 I.D.,0.2570 Depth,OEM # 224-2410, 260-4855
	Exh	SB1669E-2N	1.669 O.D.,1.415T I.D.,0.2765 Depth,OEM # 224-1270
Valve	Int	13032	1.756 Head Diameter,OEM # 252-7802
		13151	1.756 Head Diameter,Inconel,OEM # 224-3028
	Exh	13033	1.634 Head Diameter,Inconel,OEM # 248-1467; NOTE: Thin Margin Valve
		13280	1.634 Head Diameter,Inconel,OEM # 224-3030; NOTE: Thick Margin Valve
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 7E7978
		122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 163-2478
Guide	Both	140-3058	0.3745 I.D.,3.155 Length,0.6298 O.D.,+2, +5 & +20 O/S Also Available,OEM # 268-2953
Spring	Both	160-1462	2.550 Length,Inner, OEM # 224-4441
		160-1463	2.523 Length,Outer, OEM # 214-0586, 332-2152
Rotator	Both	161-1041	OEM # 7E7977; NOTE: Includes Oil Shield

CATERPILLAR / HEAVY DUTY (Cont'd)

69 677 C.I., (11.1L), C11 24 Valve Turbo Diesel C11A
 (cont.) L6 677 CID BORE - 130mm/5.12"

PART	PART NO.	NOTES
Injector Tubes and Components	240-1006	Injector Tube,OEM # 227-4239
	240-1006RB	O-Ring, Small - Bottom, Navy,OEM # 9X7430
	240-1006RM	O-Ring, Middle, Green,OEM # 166-2904
	240-1006RT	O-Ring, Large - Top, Dark Blue,OEM # 166-2903
	240-1042	Injector Tube,OEM # 226-0262; NOTE: Does Not Require External O-Rings
	240-1044	Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

70 732 C.I., (12.0L), C12 24 Valve C12
 L6 732 CID BORE - 130mm/5.12"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1812E-8	1.812 O.D.,1.530T I.D.,0.3650 Depth,OEM # 138-1999, 138-2006, 179-9454
	Exh SB1711E-1C	1.711 O.D.,1.416T I.D.,0.3780 Depth,OEM # 138-1997, 138-2005, 179-9453
Valve	Int 01582	1.772 Head Diameter,OEM # 7E-9578
	01582S	1.772 Head Diameter,Stellite Face,OEM # 1242692, 1929213
	Exh 01581S	1.654 Head Diameter,Stellite Face,OEM # 7C-1586, 7E-9577, 124-2693, 133-7029
Keeper	Both 121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both 122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 7E7978
Guide	Both 140-8592	0.3745 I.D.,2.785 Length,0.6305 O.D.,OEM # 100-8150, +2 O/S Available
Spring	Both 160-1462	2.550 Length,Inner, OEM # 224-4441
	160-1463	2.523 Length,Outer, OEM # 214-0586, 332-2152
Rotator	Both 161-1041	OEM # 7E7977; NOTE: Includes Oil Shield
Injector Tubes and Components	240-1005	Injector Tube,OEM # 116-1102

71 763 C.I., (12.5L), C13A 24 Valve, Turbo Diesel C13A
 L6 763 CID BORE - 130mm/5.12"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1792E-1	1.792 O.D.,1.535 I.D.,0.2570 Depth,OEM # 224-2410, 260-4855
	Exh SB1669E-2N	1.669 O.D.,1.415T I.D.,0.2765 Depth,OEM # 224-1270
Valve	Int 13032	1.756 Head Diameter,OEM # 252-7802
	13151	1.756 Head Diameter,Inconel,OEM # 224-3028
	Exh 13033	1.634 Head Diameter,Inconel,OEM # 248-1467; NOTE: Thin Margin Valve
	13280	1.634 Head Diameter,Inconel,OEM # 224-3030; NOTE: Thick Margin Valve
Keeper	Both 121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both 122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 7E7978
	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 163-2478
Guide	Both 140-3058	0.3745 I.D.,3.155 Length,0.6298 O.D.,+2, +5 & +20 O/S Also Available,OEM # 163-2444, 260-4856, 268-2953, +2 O/S Also Available
Spring	Both 160-1462	2.550 Length,Inner, OEM # 224-4441
	160-1463	2.523 Length,Outer, OEM # 214-0586, 332-2152
Rotator	Both 161-1041	OEM # 7E7977; NOTE: Includes Oil Shield
Injector Tubes and Components	240-1006	Injector Tube,OEM # 104-5536, 227-4239
	240-1006RB	O-Ring, Small - Bottom, Navy,OEM # 9X7430
	240-1006RM	O-Ring, Middle, Green,OEM # 166-2904

(Cont'd) **CATERPILLAR / HEAVY DUTY**

763 C.I., (12.5L), C13A 24 Valve, Turbo Diesel
L6 763 CID

C13A 71
BORE - 130mm/5.12" (cont.)

PART	PART NO.	NOTES
Injector Tubes and Components	240-1006RT	O-Ring, Large - Top, Dark Blue,OEM # 166-2903
	240-1042	Injector Tube,OEM # 226-0262; NOTE: Does Not Require External O-Rings Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove
	240-1044	

831 C.I., (13.6L), D339

L4 831 CID

D339 72
BORE - 146.05mm/5.75"

PART	PART NO.	NOTES	
Valve Seat Insert	Int	SB2503E-2 SB2506E-2	2.503 O.D.,.21 ¹⁶ T I.D., ¹ / ₂ Depth,OEM Replacement for OEM # 9M8745 2.506 O.D.,.21 ¹⁶ T I.D., ¹ / ₂ Depth,+20 O/S Available,+0.003 Oversize Of OEM # 9M8745
	Exh	SB2503E-1 SB2506E-1	2.503 O.D.,2.000 I.D., ¹ / ₂ Depth,OEM Replacement for OEM # 8M9810 2.506 O.D.,2.000 I.D., ¹ / ₂ Depth,+20 O/S Available,+0.003 Oversize Of OEM # 8M9810
Valve	Int	00852S	2.343 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1993
		01459S	2.343 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 1W1818
	Exh	00574S	2.282 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1994
		01458S	2.282 Head Diameter,Stellite Face, 2 Groove,W/.3717 Stem Dia., OEM # 1W1819
Keeper	Both	121-1000 121-1030	2 RD Bead Type,OEM # 2A4429, W/ .3717 Stem Dia. No Bead Bead Type,OEM # 3B1143, .4955 Stem Dia., 3 Required per Valve
Guide	Int	140-6470	0.5005 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 2S0893
	Exh	140-6469	0.5020 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 1S6654
	Both	140-7338	0.5010 I.D.,5.219 Length,0.9385 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Valve Stem Dia., OEM # 7N2051, +2 O/S Available
		140-7604	0.3725 I.D.,5.250 Length,0.9390 O.D.,High Strength Alloy,Non-Flanged, W/ .3725 Valve Stem Dia., OEM # 1W1816
149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414		
Spring	Both	160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

893 C.I., (14.6L), D343 24 Valve

L6 893 CID

D343 73
BORE - 137.16mm/5.40"

PART	PART NO.	NOTES	
Valve Seat Insert	Int	SB1812E-1	1.812 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement for OEM # 9M3205
		SB1818E-1	1.818 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth
	Exh	SB1818E-2	1.818 O.D.,1 ¹ / ₁₆ T I.D., ³ / ₈ Depth,+20 O/S Available,W/ .010 Larger Depth
		SB1687E-1N	1.687 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D.,1 ¹ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available,Exc. Natural Gas
SB1693E-2	1.693 O.D.,1 ¹ / ₁₆ T I.D., ³ / ₈ Depth,+20 & +30 O/S Available,W/ .010 Larger Depth		
Valve	Int	01146S	1.771 Head Diameter,Stellite Face,Spark Ignited, OEM # 1N4885, 1N4886
	Exh	01145S	1.646 Head Diameter,Stellite Face,OEM # 7E7830

CATERPILLAR / HEAVY DUTY (Cont'd)

73 893 C.I., (14.6L), D343 24 Valve D343
 (cont.) L6 893 CID BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Both	140-7255	0.3750 I.D.,2.815 Length,0.6892 O.D.,High Strength Alloy, OEM # 6N2236, +2 O/S Available
Spring	Both	160-1178	2.310 Length,OEM # 2S4213

74 893 C.I., (14.6L), 1693 24 Valve 1693
 L6 893 CID BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-1	1.812 O.D.,1 ⁹ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement for OEM # 9M3205
		SB1818E-1	1.818 O.D.,1 ⁹ / ₁₆ T I.D.,0.3650 Depth
	Exh	SB1818E-2	1.818 O.D.,1 ⁹ / ₁₆ T I.D., ³ / ₈ Depth,+20 O/S Available,W/ .010 Larger Depth
		SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available
		SB1693E-2	1.693 O.D.,1 ⁷ / ₁₆ T I.D., ³ / ₈ Depth,+20 & +30 O/S Available,W/ .010 Larger Depth
Valve	Int	01146S	1.771 Head Diameter,Stellite Face,OEM # 1N4885, 1N4886
	Exh	01145S	1.646 Head Diameter,Stellite Face,OEM # 7E7830
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Guide	Both	140-7255	0.3750 I.D.,2.815 Length,0.6892 O.D.,High Strength Alloy, OEM # 6N2236, +2 O/S Available
Spring	Both	160-1178	2.310 Length,OEM # 2S4213
Rotator	Exh	161-1029	OEM # 4N6761

75 893 C.I., (14.6L), 3406, 24 Valve, Diesel 3406
 L6 893 CID BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,Diesel, OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3
		SB1812E-6N	1.812 O.D.,1.540 I.D.,0.3650 Depth,+10, & +20 O/S Available,Natural Gas, OEM # 6I4019 & 122-7352; NOTE: Use W/ 20 degree Valve (01857S)
		SB1812E-7	1.812 O.D.,1.535 I.D.,0.3650 Depth,Diesel, Late Style W/ Swirl Plate, OEM # 115-2358
		SB1813E-1	1.813 O.D.,1.540 I.D.,0.3150 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 214-3286; NOTE: Use W/ 20 Degree Valve (02259S)
	Exh	SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
		SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,Diesel, OEM Replacement For OEM # 9S9699 & 1W5283
		SB1687E-4N	1.687 O.D.,1.410 I.D.,0.3650 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 6I-4014; NOTE: Use W/ 20 degree Valve (01632S)
		SB1687E-5C	1.687 O.D.,1.318T I.D.,0.3150 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 212-0936; NOTE: Use W/ 20 Degree Valve (02258S)
		SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available,Diesel, OEM # 1W5283
Valve	Int	01462S	1.771 Head Diameter,Stellite Face,Diesel, OEM # 4W5374
		01857S	1.771 Head Diameter,Stellite Face,Short Valve, Natural Gas. OEM # 122-7353, Late Style. Replaces Part # 9Y-9804 (01633S)
		02259S	1.771 Head Diameter,Inconel, Stellite Face,Long Valve, Natural Gas, OEM # 212-0932; NOTE: 20 Degree W/7.621 Overall Length
	Exh	01468S	1.646 Head Diameter,Stellite Face,Diesel, OEM # 7N4580
		01632S	1.646 Head Diameter,Stellite Face,Short Valve, Natural Gas, OEM # 101-8314

(Cont'd) **CATERPILLAR / HEAVY DUTY**

893 C.I., (14.6L), 3406, 24 Valve, Diesel
L6 893 CID

3406 75
BORE - 137.16mm/5.40" (cont.)

PART		PART NO.	NOTES
Valve	Exh	02258S	1.646 Head Diameter,Inconel, Stellite Face,Long Valve, Natural Gas, OEM # 212-0933; NOTE: 20 Degree W/7.621 Overall Length
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, W/ Single Spring
		122-1393	Positive Type,Viton Material,Top Hat Style,OEM # 214-6051 & 250-3044
Guide	Int	140-3051	0.3740 I.D.,3.730 Length,0.6890 O.D.,Natural Gas; OEM # 213-7536, Confirm S/N, Use W/ Long Valves
	Exh	140-3052	0.3740 I.D.,4.130 Length,0.6890 O.D.,Natural Gas; OEM # 213-7537, Confirm S/N, Use W/ Long Valve
	Both	140-3138	0.3740 I.D.,3.255 Length,0.6890 O.D.,Late Style For Natural Gas; Phosphate Coated, W/ Oil Baffle; OEM # 151-1330; NOTE: Confirm S/N, Use W/ Short Valve
		140-3145	0.3740 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 173-7188; NOTE: Late Style
		140-7216	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 4N2803; NOTE: Early Style
		140-7216SA	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 O/S Available,"Special Alloy", For Ultra Low Sulfur Diesel
		140-7736	0.3740 I.D.,3.250 Length,0.6890 O.D.,Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216
		140-7736SA	0.3740 I.D.,3.250 Length,0.6890 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216SA
		140-8319	0.3741 I.D.,3.250 Length,0.6891 O.D.,Diesel; Non-Heat Treated W/ Counterbored I.D., OEM # 7W1636
		140-8485	0.3750 I.D.,3.250 Length,0.6888 O.D.,Counterbored Both Ends,Early Style For Natural Gas; Heat Treated High Strength Alloy; OEM # 7E3413, 123-3984, 151-1329; NOTE: Confirm S/N, Use W/ Short Valve
Spring	Both	160-1184	2.470 Length,Single Spring, OEM # 4N5906
		160-1207	2.678 Length,Inner, Dual Spring, OEM # 4W2472
		160-1213	2.341 Length,Outer, Dual Spring, OEM # 4W2471
Rotator	Exh	161-1030	W/ Dual Spring, OEM # 4W2474
	Both	161-1038	W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield
Lifter	Both	170-1014	Hydraulic Roller Type,OEM #s 1017788, 4N6233, 4W2475, 4W7108, 6N4589, 9Y4011

893 C.I., (14.6L), 3406B, 24 Valve, Diesel
L6 893 CID

3406B 76
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3.
		SB1812E-6N	1.812 O.D.,1.540 I.D.,0.3650 Depth,+10, & +20 O/S Available,Natural Gas, Use W/ 20 degree Valve (01857S), OEM # 6I4019 & 122-7352
		SB1812E-7	1.812 O.D.,1.535 I.D.,0.3650 Depth,Late Style W/ Swirl Plate, OEM # 115-2358
		SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
	Exh	SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
		SB1687E-4N	1.687 O.D.,1.410 I.D.,0.3650 Depth,+10 & +20 O/S Available,Natural Gas, Use W/ 20 degree Valve (01632S), OEM # 6I-4014
		SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available,Exc. Natural Gas
Valve	Int	01462S	1.771 Head Diameter,Stellite Face,Diesel, OEM # 4W5374

CATERPILLAR / HEAVY DUTY (Cont'd)

76 893 C.I., (14.6L), 3406B, 24 Valve, Diesel
(cont.) L6 893 CID

3406B
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve	Int	01857S	1.771 Head Diameter,Stellite Face,Short Valve, Natural Gas. OEM # 122-7353, Late Style. Replaces Part # 9Y-9804 (01633S)
	Exh	01468S 01632S	1.646 Head Diameter,Stellite Face,Diesel, OEM # 7N4580 1.646 Head Diameter,Stellite Face,Short Valve, Natural Gas, OEM # 101-8314
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, W/ Single Spring
		122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478, NOTE: Use W/ 140-3014 Valve Guide
Guide	Both	140-3014	0.3740 I.D.,3.050 Length,0.6890 O.D.,OEM # 122-7374, +2 O/S Available; NOTE: Optional Guide To Be Used W/ Dual Springs & (122-1373) Positive Style Seal
		140-3138	0.3740 I.D.,3.255 Length,0.6890 O.D.,Late Style For Natural Gas; Phosphate Coated, W/ Oil Baffle; OEM # 151-1330; NOTE: Use W/ Short Valve
		140-3145	0.3740 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 173-7188; NOTE: Late Style; +2 & +5 O/S Available
		140-7216	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 4N2803; NOTE: Early Style
		140-7216SA	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 O/S Available,"Special Alloy", For Ultra Low Sulfur Diesel
		140-7736	0.3740 I.D.,3.250 Length,0.6890 O.D.,Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216
		140-7736SA	0.3740 I.D.,3.250 Length,0.6890 O.D., "Special Alloy", For Ultra Low Sulfur Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216SA
		140-8319	0.3741 I.D.,3.250 Length,0.6891 O.D.,Diesel, Non-Heat Treated W/ Counterbored I.D., OEM # 7W1636
140-8485	0.3750 I.D.,3.250 Length,0.6888 O.D.,Counterbored Both Ends,Early Style High Strength Alloy, Heat Treated For Natural Gas, OEM # 151-1329; NOTE: Use W/ Short Valve		
Spring	Both	160-1184	2.470 Length,Single Spring, OEM # 4N5906
		160-1207	2.678 Length,Inner, Dual Spring, OEM # 4W2472
		160-1213	2.341 Length,Outer, Dual Spring, OEM # 4W2471
Rotator	Both	161-1030	W/ Dual Spring, OEM # 4W2474
		161-1038	W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield
Lifter	Both	170-1014	Hydraulic Roller Type,OEM #s 1017788, 4N6233, 4W2475, 4W7108, 6N4589, 9Y4011

77 893 C.I., (14.6L), 3406C, 24 Valve, Diesel
L6 893 CID

3406C
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3
		SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
	Exh	SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,OEM # 1W5283
		SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available
Valve	Int	01830S	1.771 Head Diameter,Stellite Face,OEM # 122-0322
	Exh	01831S	1.646 Head Diameter,Stellite Face,OEM # 122-0321
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,W/ Single Spring, OEM # 6N-7174
		122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478

(Cont'd) **CATERPILLAR / HEAVY DUTY**

893 C.I., (14.6L), 3406C, 24 Valve, Diesel
L6 893 CID

3406C 77
BORE - 137.16mm/5.40" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-3014	0.3740 I.D.,3.050 Length,0.6890 O.D.,OEM # 122-7374, +2 O/S Available 0.3740 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,OEM # 173-7188
		140-3145	
Spring	Both	160-1184	2.470 Length,Single Spring, OEM # 4N5906
		160-1207	2.678 Length,Inner, Dual Spring, OEM # 4W2472
		160-1213	2.341 Length,Outer, Dual Spring, OEM # 4W2471
Rotator	Both	161-1030	W/ Dual Spring, OEM # 4W2474
		161-1038	W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield

893 C.I., (14.6L), 3406E, 24 Valve, Diesel
L6 893 CID

3406E 78
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-1	1.891 O.D.,1.615T I.D.,0.3060 Depth,+10, +20 & +30 O/S Available,OEM # 1564168, 1753617, 1085912
		SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
	Exh	SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available
Valve	Int	01911	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7023, 236-5605, Replaces Earlier Single Groove OEM # 108-5910
		21911	1.850 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7024, 289-9231, Replaces Earlier Single Groove OEM # 108-5911
		21912	1.646 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Both	140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375
Spring	Both	160-1464	2.823 Length,Inner, OEM # 211-3122
		160-1575	3.185 Length,Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001, For Dual Springs, Replaces Early Single Spring Rotator OEM # 4P-4962 When Used W/ Dual Springs
Rocker Components		187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006	Injector Tube,OEM # 227-4239
		240-1006RB	O-Ring, Small - Bottom, Navy,OEM # 9X7430
		240-1006RM	O-Ring, Middle, Green,OEM # 166-2904
		240-1006RT	O-Ring, Large - Top, Dark Blue,OEM # 166-2903
		240-1044	Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

893 C.I., (14.6L), G3406, 24 Valve, Gas
L6 893 CID

G3406 79
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,OEM Replacement for OEM # 4N5893, , 30 Degree; NOTE: Oversize Use SB1817E-3
		SB1812E-6N	1.812 O.D.,1.540 I.D.,0.3650 Depth,+10, & +20 O/S Available,OEM # 122-7352, 20 Degree Use W/ 01857S

CATERPILLAR / HEAVY DUTY (Cont'd)

79 893 C.I., (14.6L), G3406, 24 Valve, Gas
(cont.) L6 893 CID

G3406
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1813E-1	1.813 O.D., 1.540 I.D., 0.3150 Depth, +10 & +20 O/S Available, OEM # 214-3286, 20 Degree Use W/ 02259S
		SB1817E-3	1.817 O.D., 1.540T I.D., 0.3650 Depth, +10, +20, +30 & +40 O/S Available, +5 Oversize of SB1812E-3
	Exh	SB1687E-4N	1.687 O.D., 1.410 I.D., 0.3650 Depth, +10 & +20 O/S Available, OEM # 198-6529, 20 Degree Use W/ 01632S
		SB1687E-5C	1.687 O.D., 1.318T I.D., 0.3150 Depth, +10 & +20 O/S Available, OEM # 212-0936, 20 Degree Use W/ 02258S
Valve	Int	01462S	1.771 Head Diameter, Stellite Face, OEM # 115-2368, 30 Degree
		01857S	1.771 Head Diameter, Stellite Face, OEM # 122-7353, 20 Degree Short Valve
		02259S	1.771 Head Diameter, Inconel, Stellite Face, OEM # 212-0932, 20 Degree Long Valve
	Exh	01632S	1.646 Head Diameter, Stellite Face, OEM # 101-8314, 20 Degree Short Valve
02258S		1.646 Head Diameter, Inconel, Stellite Face, OEM # 212-0933, 20 Degree Long Valve	
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Stem Seal	Int	122-1393	Positive Type, Viton Material, Top Hat Style, OEM # 214-6051 & 250-3044
	Both	122-1328	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 6N7174
Guide	Int	140-3051	0.3740 I.D., 3.730 Length, 0.6890 O.D., OEM # 213-7536, NOTE: Use W/ Long Valves
	Exh	140-3052	0.3740 I.D., 4.130 Length, 0.6890 O.D., OEM # 213-7537, NOTE: Use W/ Long Valves
	Both	140-3138	0.3740 I.D., 3.255 Length, 0.6890 O.D., OEM # 151-1330; Late Style Phosphate Coated, W/ Oil Baffle; NOTE: Use W/ Short Valve
		140-3174	0.3740 I.D., 3.075 Length, 0.3890 O.D., OEM # 151-6235; NOTE: Use W/ Short Valves
		140-8485	0.3750 I.D., 3.250 Length, 0.6888 O.D., Counterbored Both Ends, OEM #'s 7E3413, 123-3984, 151-1329; Early Style Heat Treated High Strength Alloy; Use W/ Short Valves
Spring	Both	160-1184	2.470 Length, OEM # 4N5906
Rotator	Both	161-1038	OEM # 6N7175; NOTE: Includes Oil Shield

80 928 C.I., (15.2L), C15 24 Valve
L6 928 CID

C15
BORE - 137mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-1	1.891 O.D., 1.615T I.D., 0.3060 Depth, +10, +20 & +30 O/S Available, OEM # 1564168, 1753617, 1085912
		SB1891E-2	1.891 O.D., 1.615T I.D., 0.3060 Depth, OEM # 224-3983, 280-3979
	Exh	SB1687E-1N	1.687 O.D., 1 ⁷ / ₁₆ T I.D., 0.3650 Depth, OEM # 152-7582
		SB1687E-6C	1.687 O.D., 1.437T I.D., 0.3650 Depth, OEM # 226-5561, 300-3565
		SB1693E-1N	1.693 O.D., 1 ⁷ / ₁₆ T I.D., 0.3650 Depth, +10, +20, +30 O/S Available
Valve	Int	01911	1.850 Head Diameter, Recommended OEM Nickel Base Inconel Material, 2 Groove, OEM # 153-7023, 236-5605
		21911	1.850 Head Diameter, Alternative Austenitic Material, Stellite Face, 2 Groove, NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter, Recommended OEM Nickel Base Inconel Material, 2 Groove, OEM # 153-7024, 289-9231
		21912	1.646 Head Diameter, Alternative Austenitic Material, Stellite Face, 2 Groove, NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type, Viton Material, Metal Clad Style, OEM # 102-6229, 163-2478

(Cont'd) **CATERPILLAR / HEAVY DUTY**

928 C.I., (15.2L), C15 24 Valve
L6 928 CID

C15 80
BORE - 137mm/5.40" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375
Spring	Both	160-1464 160-1575	2.823 Length,Inner, OEM # 211-3122 3.185 Length,Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001, For Dual Springs, Replaces Early Single Spring Rotator OEM # 4P-4962 When Used W/ Dual Springs
Rocker Components		187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006 240-1006RB 240-1006RM 240-1006RT 240-1044	Injector Tube,OEM # 227-4239 O-Ring, Small - Bottom, Navy,OEM # 9X7430 O-Ring, Middle, Green,OEM # 166-2904 O-Ring, Large - Top, Dark Blue,OEM # 166-2903 Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

964 C.I., (15.8L), C16, 24 Valve, Turbo, Diesel
L6 964 CID

C16 81
BORE - 140mm/5.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-1	1.891 O.D.,1.615T I.D.,0.3060 Depth,+10, +20 & +30 O/S Available,OEM # 1564168, 1753617, 1085912
	Exh	SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available
Valve	Int	01911	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7023, 236-5605
		21911	1.850 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7024, 289-9231
		21912	1.646 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Both	140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375
Spring	Both	160-1464 160-1575	2.823 Length,Inner, OEM # 211-3122 3.185 Length,Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001, For Dual Springs, Replaces Early Single Spring Rotator OEM # 4P-4962 When Used W/ Dual Springs
Rocker Components		187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006 240-1006RB 240-1006RM 240-1006RT 240-1044	Injector Tube,OEM # 227-4239 O-Ring, Small - Bottom, Navy,OEM # 9X7430 O-Ring, Middle, Green,OEM # 166-2904 O-Ring, Large - Top, Dark Blue,OEM # 166-2903 Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

CATERPILLAR / HEAVY DUTY (Cont'd)

82 964 C.I., (15.8L), 3456 24 Valve

3456

L6 964 CID

BORE - 140mm/5.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-2	1.891 O.D., 1.615T I.D., 0.3060 Depth, OEM # 224-3983, 280-3979
	Exh	SB1687E-6C	1.687 O.D., 1.437T I.D., 0.3650 Depth, OEM # 226-5561
Valve	Int	01911	1.850 Head Diameter, Recommended OEM Nickel Base Inconel Material, 2 Groove, OEM # 153-7023, 236-5605
		21911	1.850 Head Diameter, Alternative Austenitic Material, Stellite Face, 2 Groove, NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter, Recommended OEM Nickel Base Inconel Material, 2 Groove, OEM # 153-7024, 289-9231
		21912	1.646 Head Diameter, Alternative Austenitic Material, Stellite Face, 2 Groove, NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A-4429
Stem Seal	Both	122-1373	Positive Type, Viton Material, Metal Clad Style, OEM # 163-2478
Guide	Both	140-3007	0.3745 I.D., 3.358 Length, 0.6298 O.D., +2 & +5 O/S Available, OEM # 122-7375
Spring	Both	160-1464	2.823 Length, Inner, OEM # 211-3122
		160-1575	3.185 Length, Outer, OEM # 247-9908
Rotator	Both	161-1047	OEM # 186-2001
Rocker Components		187-1087	Valve Bridge Guide, OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006	Injector Tube, OEM # 227-4239
		240-1006RB	O-Ring, Small - Bottom, Navy, 9X-7430
		240-1006RM	O-Ring, Middle, Green, OEM # 166-2904
		240-1006RT	O-Ring, Large - Top, Dark Blue, OEM # 166-2903

83 1099 C.I., (18.0L), 3408, 32 Valve, Diesel

3408

V8 1099 CID

BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D., 1.540T I.D., 0.3650 Depth, Diesel, OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3
		SB1812E-6N	1.812 O.D., 1.540 I.D., 0.3650 Depth, +10, & +20 O/S Available, Natural Gas, OEM # 6I4019 & 122-7352; NOTE: Use W/ 20 degree Valve (01857S)
		SB1812E-7	1.812 O.D., 1.535 I.D., 0.3650 Depth, Diesel, Late Style W/ Swirl Plate, OEM # 115-2358
		SB1813E-1	1.813 O.D., 1.540 I.D., 0.3150 Depth, +10 & +20 O/S Available, Natural Gas, OEM # 214-3286; NOTE: Use W/ 20 Degree Valve (02259S)
	Exh	SB1817E-3	1.817 O.D., 1.540T I.D., 0.3650 Depth, +10, +20, +30 & +40 O/S Available, +5 Oversize of SB1812E-3
		SB1687E-1N	1.687 O.D., 1 ⁷ / ₁₆ T I.D., 0.3650 Depth, Diesel, OEM Replacement For OEM # 9S9699 & 1W5283
		SB1687E-4N	1.687 O.D., 1.410 I.D., 0.3650 Depth, +10 & +20 O/S Available, Natural Gas, OEM # 6I-4014; NOTE: Use W/ 20 degree Valve (01632S)
		SB1687E-5C	1.687 O.D., 1.318T I.D., 0.3150 Depth, +10 & +20 O/S Available, Natural Gas, OEM # 212-0936; NOTE: Use W/ 20 Degree Valve (02258S)
		SB1693E-1N	1.693 O.D., 1 ⁷ / ₁₆ T I.D., 0.3650 Depth, +10, +20, +30 O/S Available, Diesel
Valve	Int	01462S	1.771 Head Diameter, Stellite Face, Diesel, OEM # 4W5374
		01857S	1.771 Head Diameter, Stellite Face, Short Valve, Natural Gas. OEM # 122-7353, Late Style. Replaces Part # 9Y-9804 (01633S)
		02259S	1.771 Head Diameter, Inconel, Stellite Face, Long Valve, Natural Gas, OEM # 212-0932; NOTE: 20 Degree W/ 7.621 Overall Length
	Exh	01468S	1.646 Head Diameter, Stellite Face, Diesel, OEM # 7N4580
		01632S	1.646 Head Diameter, Stellite Face, Short Valve, Natural Gas, OEM # 101-8314

(Cont'd) **CATERPILLAR / HEAVY DUTY**

1099 C.I., (18.0L), 3408, 32 Valve, Diesel
V8 1099 CID

3408 83
BORE - 137.16mm/5.40" (cont.)

PART		PART NO.	NOTES
Valve	Exh	02258S	1.646 Head Diameter,Inconel, Stellite Face,Long Valve, Natural Gas, OEM # 212-0933; NOTE: 20 Degree W/7.621 Overall Length
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, W/ Single Spring
		122-1393	Positive Type,Viton Material,Top Hat Style,OEM # 214-6051 & 250-3044
Guide	Int	140-3051	0.3740 I.D.,3.730 Length,0.6890 O.D.,Natural Gas; OEM # 213-7536, Use W/ Long Valve
	Exh	140-3052	0.3740 I.D.,4.130 Length,0.6890 O.D.,Natural Gas; OEM # 213-7537, Use W/ Long Valve
	Both	140-3138	0.3740 I.D.,3.255 Length,0.6890 O.D.,Late Style For Natural Gas; Phosphate Coated, W/ Oil Baffle; OEM # 151-1330; NOTE: Use W/ Short Valve
		140-3145	0.3740 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 173-7188; NOTE: Late Style; +2 & +5 O/S Available
		140-7216	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 4N2803; NOTE: Early Style
		140-7216SA	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 O/S Available,"Special Alloy", For Ultra Low Sulfur Diesel
		140-7736	0.3740 I.D.,3.250 Length,0.6890 O.D.,Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216
		140-7736SA	0.3740 I.D.,3.250 Length,0.6890 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216SA
		140-8319	0.3741 I.D.,3.250 Length,0.6891 O.D.,Diesel; Non-Heat Treated W/ Counterbored I.D., OEM # 7W1636
140-8485		0.3750 I.D.,3.250 Length,0.6888 O.D.,Counterbored Both Ends,Early Style For Natural Gas; Heat Treated High Strength Alloy; OEM # 7E3413, 123-3984, 151-1329; NOTE: Use W/ Short Valve	
Spring	Both	160-1184	2.470 Length,Single Spring, OEM # 4N5906
		160-1207	2.678 Length,Inner, Dual Spring, OEM # 4W2472
		160-1213	2.341 Length,Outer, Dual Spring, OEM # 4W2471
Rotator	Both	161-1030	W/ Dual Spring, OEM # 4W2474
		161-1038	W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield
Lifter	Both	170-1014	Hydraulic Roller Type,OEM #s 1017788, 4N6233, 4W2475, 4W7108, 6N4589, 9Y4011

1099 C.I., (18.0L), 3408C, 32 Valve, Diesel
V8 1099 CID

3408C 84
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3
		SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
	Exh	SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,OEM # 1W5283
		SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available
Valve	Int	01830S	1.771 Head Diameter,Stellite Face,OEM # 122-0322
	Exh	01831S	1.646 Head Diameter,Stellite Face,OEM # 122-0321
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, W/ Single Spring
		122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Both	140-3014	0.3740 I.D.,3.050 Length,0.6890 O.D.,OEM # 122-7374, +2 O/S Available
		140-3145	0.3740 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,OEM # 173-7188

CATERPILLAR / HEAVY DUTY (Cont'd)

84 1099 C.I., (18.0L), 3408C, 32 Valve, Diesel 3408C
 (cont.) V8 1099 CID BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Spring	Both	160-1184	2.470 Length, Single Spring, OEM # 4N5906
		160-1207	2.678 Length, Inner, Dual Spring, OEM # 4W2472
		160-1213	2.341 Length, Outer, Dual Spring, OEM # 4W2471
Rotator	Both	161-1030	W/ Dual Spring, OEM # 4W2474
		161-1038	W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield

85 1099 C.I., (18.0L), 3408E, 32 Valve, Diesel 3408E
 V8 1099 CID BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-1	1.891 O.D., 1.615T I.D., 0.3060 Depth, +10, +20 & +30 O/S Available, OEM # 1564168, 1753617, 1085912
	Exh	SB1687E-1N	1.687 O.D., 1 ⁷ / ₁₆ T I.D., 0.3650 Depth, OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D., 1 ⁷ / ₁₆ T I.D., 0.3650 Depth, +10, +20, +30 O/S Available
Valve	Int	01911	1.850 Head Diameter, Recommended OEM Nickel Base Inconel Material, 2 Groove, OEM # 153-7023, 236-5605, Replaces Earlier Single Groove OEM # 108-5910
		21911	1.850 Head Diameter, Alternative Austenitic Material, Stellite Face, 2 Groove, NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter, Recommended OEM Nickel Base Inconel Material, 2 Groove, OEM # 153-7024, 289-9231 & Includes Spark Ignited 152-7585, Replaces Earlier Single Groove OEM # 108-5911
		21912	1.646 Head Diameter, Alternative Austenitic Material, Stellite Face, 2 Groove, NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type, Viton Material, Metal Clad Style, OEM # 102-6229, 163-2478
Guide	Both	140-3007	0.3745 I.D., 3.358 Length, 0.6298 O.D., +2 & +5 O/S Available, OEM # 122-7375
Spring	Both	160-1464	2.823 Length, Inner, OEM # 211-3122
		160-1575	3.185 Length, Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001, For Dual Springs, Replaces Early Single Spring Rotator OEM # 4P-4962 When Used W/ Dual Springs
Rocker Components		187-1087	Valve Bridge Guide, OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006	Injector Tube, OEM # 227-4239
		240-1006RB	O-Ring, Small - Bottom, Navy, OEM # 9X7430
		240-1006RM	O-Ring, Middle, Green, OEM # 166-2904
		240-1006RT	O-Ring, Large - Top, Dark Blue, OEM # 166-2903
		240-1044	Injector Tube, OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

86 1099 C.I., (18.0L), G3408, 32 Valve, Gas G3408
 L6 1099 CID BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D., 1.540T I.D., 0.3650 Depth, OEM Replacement for OEM # 4N5893, 30 Degree; NOTE: Oversize Use SB1817E-3
		SB1812E-6N	1.812 O.D., 1.540 I.D., 0.3650 Depth, +10, & +20 O/S Available, OEM # 122-7352; NOTE: Use W/ 20 Degree Short Valve 01857S
		SB1813E-1	1.813 O.D., 1.540 I.D., 0.3150 Depth, +10 & +20 O/S Available, OEM # 214-3286, NOTE: Use W/ 20 Degree Long Valve 02258S

(Cont'd) CATERPILLAR / HEAVY DUTY**1099 C.I., (18.0L), G3408, 32 Valve, Gas**
L6 1099 CID**G3408 86**
BORE - 137.16mm/5.40" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
	Exh	SB1687E-4N	1.687 O.D.,1.410 I.D.,0.3650 Depth,+10 & +20 O/S Available,OEM # 198-6529; NOTE: Use W/ 20 Degree Short Valve 01632S
		SB1687E-5C	1.687 O.D.,1.318T I.D.,0.3150 Depth,+10 & +20 O/S Available,OEM # 212-0936, NOTE: Use W/ 20 Degree Long Valve 02258S
Valve	Int	01462S	1.771 Head Diameter,Stellite Face,OEM # 115-2368, NOTE: 30 Degree
		01857S	1.771 Head Diameter,Stellite Face,OEM # 122-7353, 20 Degree Short Valve
		02259S	1.771 Head Diameter,Inconel, Stellite Face,OEM # 212-0932, 20 Degree Long Valve
	Exh	01632S	1.646 Head Diameter,Stellite Face,OEM # 101-8314, 20 Degree Short Valve
		02258S	1.646 Head Diameter,Inconel, Stellite Face,OEM # 212-0933, 20 Degree Long Valve
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N7174
Guide	Int	140-3051	0.3740 I.D.,3.730 Length,0.6890 O.D.,OEM # 213-7536, NOTE: Use W/ Long Valves
	Exh	140-3052	0.3740 I.D.,4.130 Length,0.6890 O.D.,OEM # 213-7537, NOTE: Use W/ Long Valves
	Both	140-3138	0.3740 I.D.,3.255 Length,0.6890 O.D.,OEM # 151-1330, Late Style; NOTE: Use W/ Short Valves
		140-8485	0.3750 I.D.,3.250 Length,0.6888 O.D.,Counterbored Both Ends,OEM # 7E3413, 123-3984, 151-1329; Early Style; Heat Treated High Strength Alloy; NOTE: Use W/ Short Valves
Spring	Both	160-1184	2.470 Length,OEM # 4N5906
Rotator	Both	161-1038	OEM # 6N7175

1106 C.I., (18.1L), C18 24 Valve Turbo Diesel
L6 1106 CID**C18A 87**
BORE - 145mm/5.71"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-1	1.891 O.D.,1.615T I.D.,0.3060 Depth,+10, +20 & +30 O/S Available,OEM # 1564168, 1753617, 1085912
	Exh	SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available
Valve	Int	01911	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7023, 236-5605
		21911	1.850 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7024, 289-9231
		21912	1.646 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 163-2478
Guide	Both	140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375
Spring	Both	160-1464	2.823 Length,Inner, OEM # 211-3122
		160-1575	3.185 Length,Outer, OEM # 211-3123, 247-9908

CATERPILLAR / HEAVY DUTY (Cont'd)

87 1106 C.I., (18.1L), C18 24 Valve Turbo Diesel D18A
 (cont.) L6 1106 CID BORE - 145mm/5.71"

PART	PART NO.	NOTES
Rotator	Both 161-1047	OEM # 186-2001, For Dual Springs, Replaces Early Single Spring Rotator OEM # 4P-4962 When Used W/ Dual Springs
Rocker Components	187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components	240-1006 240-1006RB 240-1006RM 240-1006RT 240-1044	Injector Tube,OEM # 227-4239 O-Ring, Small - Bottom, Navy,OEM # 9X7430 O-Ring, Middle, Green,OEM # 166-2904 O-Ring, Large - Top, Dark Blue,OEM # 166-2903 Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

88 1191 C.I., (19.5L), D346 D346
 V8 1191 CID BORE - 137.16mm/5.40"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1812E-1 SB1818E-1 SB1818E-2 Exh SB1687E-1N SB1693E-1N SB1693E-2	1.812 O.D., 1 ¹ / ₁₆ T I.D., 0.3650 Depth, OEM Replacement for OEM # 9M3205 1.818 O.D., 1 ¹ / ₁₆ T I.D., 0.3650 Depth 1.818 O.D., 1 ¹ / ₁₆ T I.D., ³ / ₈ Depth, +20 O/S Available, W/ .010 Larger Depth 1.687 O.D., 1 ¹ / ₁₆ T I.D., 0.3650 Depth, OEM Replacement For OEM # 9S9699 & 1W5283 1.693 O.D., 1 ¹ / ₁₆ T I.D., 0.3650 Depth, +10, +20, +30 O/S Available, Exc. Natural Gas 1.693 O.D., 1 ¹ / ₁₆ T I.D., ³ / ₈ Depth, +20 & +30 O/S Available, W/ .010 Larger Depth
Valve	Int 01146S Exh 01145S	1.771 Head Diameter, Stellite Face, Spark Ignited, OEM # 1N4885, 1N4886 1.646 Head Diameter, Stellite Face, OEM # 7E7830
Keeper	Both 121-1000	2 RD Bead Type, OEM # 2A4429
Guide	Both 140-7255	0.3750 I.D., 2.815 Length, 0.6892 O.D., High Strength Alloy, OEM # 6N2236, +2 O/S Available
Spring	Both 160-1181	1.960 Length, OEM # 3S3018

89 1246 C.I., (20.4L), D8, D342 12 Valve D8 D342
 L6 1246 CID BORE - 146.05mm/5.75"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2503E-2 SB2506E-2 Exh SB2503E-1 SB2506E-1	2.503 O.D., 2 ¹ / ₁₆ T I.D., 1/2 Depth, OEM Replacement for OEM # 9M8745 2.506 O.D., 2 ¹ / ₁₆ T I.D., 1/2 Depth, +20 O/S Available, +.003 Oversize Of OEM # 9M8745 2.503 O.D., 2.000 I.D., 1/2 Depth, OEM Replacement for OEM # 8M9810 2.506 O.D., 2.000 I.D., 1/2 Depth, +20 O/S Available, +.003 Oversize Of OEM # 8M9810
Valve	Int 00852S 01459S Exh 00574S 01458S	2.343 Head Diameter, Stellite Face, Tapered Groove, W/ .4955 Stem Dia., OEM # 8H1993 2.343 Head Diameter, Stellite Face, 2 Groove, W/ .3717 Stem Dia., OEM # 1W1818 2.282 Head Diameter, Stellite Face, Tapered Groove, W/ .4955 Stem Dia., OEM # 8H1994 2.282 Head Diameter, Stellite Face, 2 Groove, W/.3717 Stem Dia., OEM # 1W1819
Keeper	Both 121-1000 121-1030	2 RD Bead Type, W/ .3717 Stem Dia., OEM # 2A4429 No Bead Bead Type, W/ .4955 Stem Dia., 3 Required per Valve
Guide	Int 140-6470	0.5005 I.D., 5.250 Length, 0.9383 O.D., Flanged, W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 2S0893

(Cont'd) **CATERPILLAR / HEAVY DUTY**

1246 C.I., (20.4L), D8, D342 12 Valve
L6 1246 CID

D8 D342 89
BORE - 146.05mm/5.75" (cont.)

PART		PART NO.	NOTES
Guide	Exh	140-6469	0.5020 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 1S6654
	Both	140-7338	0.5010 I.D.,5.219 Length,0.9385 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Valve Stem Dia., OEM # 7N2051, +2 O/S Available
		140-7604	0.3725 I.D.,5.250 Length,0.9390 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .3725 Valve Stem Dia., OEM # 1W1816
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

1473 C.I., (24.1L), D9, D353 12 Valve
L6 1473 CID

D9 D353 90
BORE - 158.75mm/6.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2590E-1	2.590 O.D.,2 ⁹ / ₃₂ T I.D., ⁵ / ₈ Depth,+10, & +020 O/S Available,OEM # 5S1757
	Exh	SB2435E-1	2.435 O.D.,2 ¹ / ₈ T I.D., ⁵ / ₈ Depth,+10 & +20 O/S Available,OEM # 8M4014, Exc. Natural Gas
		SB2435E-2N	2.435 O.D.,2 ¹ / ₈ I.D.,0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int	00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
		01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606
	Exh	00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723
		01460S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W1822
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298
		140-7083	0.5020 I.D.,5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
	Exh	140-7073	0.3745 I.D.,5.450 Length,0.8775 O.D.,OEM # 2N9299
	Both	140-7073H	0.3745 I.D.,5.450 Length,0.8780 O.D.,Optional Hardened Version
	140-7357	0.5020 I.D.,5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366.	
Spring	Both	160-1191	2.626 Length,Single Spring, OEM # 7S6323
		160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

1473 C.I., (24.1L), G353, 12 Valve, Natural Gas
L6 1473 CID

G353 91
BORE - 158.75mm/6.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2590E-1	2.590 O.D.,2 ⁹ / ₃₂ T I.D., ⁵ / ₈ Depth,+10, & +020 O/S Available,OEM # 5S1757
	Exh	SB2435E-2N	2.435 O.D.,2 ¹ / ₈ I.D.,0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int	00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
		01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606

CATERPILLAR / HEAVY DUTY (Cont'd)

91 1473 C.I., (24.1L), G353, 12 Valve, Natural Gas G353
 (cont.) L6 1473 CID BORE - 158.75mm/6.25"

PART		PART NO.	NOTES
Valve	Exh	00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723
		01476S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 2W3211
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298
		140-7083	0.5020 I.D.,5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
	Exh	140-7073	0.3745 I.D.,5.450 Length,0.8775 O.D.,OEM # 2N9299
		140-7073H	0.3745 I.D.,5.450 Length,0.8780 O.D.,Optional Hardened Version
	Both	140-7357	0.5020 I.D.,5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366.
149-1000		0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414	
Spring	Both	160-1191	2.626 Length,Single Spring, OEM # 7S6323
		160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

92 1648 C.I., (27.0L), C27, 48 Valve, Turbo, Diesel, Industrial C27
 V12 1648 CID BORE - 137.7mm/5.42"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-2	1.891 O.D.,1.615T I.D.,0.3060 Depth,OEM # 224-3983, 280-3979
	Exh	SB1687E-6C	1.687 O.D.,1.437T I.D.,0.3650 Depth,OEM # 226-5561
Valve	Int	01911	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7023, 236-5605
		21911	1.850 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7024, 289-9231
		21912	1.646 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Both	140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375
Spring	Both	160-1464	2.823 Length,Inner, OEM # 211-3122
		160-1575	3.185 Length,Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001
Rocker Components		187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006	Injector Tube,OEM # 227-4239
		240-1006RB	O-Ring, Small - Bottom, Navy,OEM # 9X7430
		240-1006RM	O-Ring, Middle, Green,OEM # 166-2904
		240-1006RT	O-Ring, Large - Top, Dark Blue,OEM # 166-2903
		240-1044	Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

(Cont'd) **CATERPILLAR / HEAVY DUTY**

1649 C.I., (27.0L), 3412, 48 Valve, Diesel
V12 1649 CID

3412 **93**
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,Diesel, OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3
		SB1812E-6N	1.812 O.D.,1.540 I.D.,0.3650 Depth,+10, & +20 O/S Available,Natural Gas, OEM # 6I4019 & 122-7352; NOTE: Use W/ 20 degree Valve (01857S)
		SB1812E-7	1.812 O.D.,1.535 I.D.,0.3650 Depth,Diesel, Late Style W/ Swirl Plate, OEM # 115-2358
		SB1813E-1	1.813 O.D.,1.540 I.D.,0.3150 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 214-3286; NOTE: Use W/ 20 Degree Valve (02259S)
	Exh	SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
		SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,Diesel, OEM Replacement For OEM # 9S9699 & 1W5283
		SB1687E-4N	1.687 O.D.,1.410 I.D.,0.3650 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 6I-4014; NOTE: Use W/ 20 degree Valve (01632S)
		SB1687E-5C	1.687 O.D.,1.318T I.D.,0.3150 Depth,+10 & +20 O/S Available,Natural Gas, OEM # 212-0936; NOTE: Use W/ 20 Degree Valve (02258S)
		SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available,Diesel
Valve	Int	01462S	1.771 Head Diameter,Stellite Face,Diesel, OEM # 4W5374
		01857S	1.771 Head Diameter,Stellite Face,Short Valve, Natural Gas. OEM # 122-7353, Late Style. Replaces Part # 9Y-9804 (01633S)
		02259S	1.771 Head Diameter,Inconel, Stellite Face,Long Valve, Natural Gas, OEM # 212-0932; NOTE: 20 Degree W/7.621 Overall Length
	Exh	01468S	1.646 Head Diameter,Stellite Face,Diesel, OEM # 7N4580
		01632S	1.646 Head Diameter,Stellite Face,Short Valve, Natural Gas, OEM # 101-8314
		02258S	1.646 Head Diameter,Inconel, Stellite Face,Long Valve, Natural Gas, OEM # 212-0933; NOTE: 20 Degree W/7.621 Overall Length
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N-7174, W/ Single Spring
		122-1393	Positive Type,Viton Material,Top Hat Style,OEM # 214-6051 & 250-3044
Guide	Int	140-3051	0.3740 I.D.,3.730 Length,0.6890 O.D.,Natural Gas; OEM # 213-7536, Use W/ Long Valve
	Exh	140-3052	0.3740 I.D.,4.130 Length,0.6890 O.D.,Natural Gas; OEM # 213-7537, Use W/ Long Valve
	Both	140-3138	0.3740 I.D.,3.255 Length,0.6890 O.D.,Late Style For Natural Gas; Phosphate Coated, W/ Oil Baffle; OEM # 151-1330; NOTE: Use W/ Short Valve
		140-3145	0.3740 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 173-7188; NOTE: Late Style; +2 & +5 O/S Available
		140-7216	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 & +5 O/S Available,Diesel; OEM # 4N2803; NOTE: Early Style
		140-7216SA	0.3750 I.D.,3.250 Length,0.6890 O.D.,+2 O/S Available,"Special Alloy", For Ultra Low Sulfur Diesel
		140-7736	0.3740 I.D.,3.250 Length,0.6890 O.D.,Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216
		140-7736SA	0.3740 I.D.,3.250 Length,0.6890 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel; NOTE: Optional -0.001 Undersized I.D. Of 140-7216SA
		140-8319	0.3741 I.D.,3.250 Length,0.6891 O.D.,Diesel; Non-Heat Treated W/ Counterbored I.D., OEM # 7W1636
		140-8485	0.3750 I.D.,3.250 Length,0.6888 O.D.,Counterbored Both Ends,Early Style For Natural Gas; Heat Treated High Strength Alloy; OEM # 7E3413, 123-3984, 151-1329; NOTE: Use W/ Short Valve
Spring	Both	160-1184	2.470 Length,Single Spring, OEM # 4N5906
		160-1207	2.678 Length,Inner, Dual Spring, OEM # 4W2472
		160-1213	2.341 Length,Outer, Dual Spring, OEM # 4W2471

CATERPILLAR / HEAVY DUTY (Cont'd)

93 1649 C.I., (27.0L), 3412, 48 Valve, Diesel
(cont.) V12 1649 CID

3412
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Rotator	Exh	161-1030	W/ Dual Spring, OEM # 4W2474
	Both	161-1038	W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield
Lifter	Both	170-1014	Hydraulic Roller Type, OEM #s 1017788, 4N6233, 4W2475, 4W7108, 6N4589, 9Y4011

94 1649 C.I., (27.0L), 3412C, 48 Valve, Diesel
V12 1649 CID

3412C
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D., 1.540T I.D., 0.3650 Depth, OEM Replacement for OEM # 4N5893, Oversize Use SB1817E-3
		SB1817E-3	1.817 O.D., 1.540T I.D., 0.3650 Depth, +10, +20, +30 & +40 O/S Available, +5 Oversize of SB1812E-3
	Exh	SB1687E-1N	1.687 O.D., 1 ⁷ / ₁₆ T I.D., 0.3650 Depth, OEM # 1W5283
		SB1693E-1N	1.693 O.D., 1 ⁷ / ₁₆ T I.D., 0.3650 Depth, +10, +20, +30 O/S Available
Valve	Int	01830S	1.771 Head Diameter, Stellite Face, OEM # 122-0322
	Exh	01831S	1.646 Head Diameter, Stellite Face, OEM # 122-0321
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type, Nylon Material, Oil Shield Style, W/ Single Spring, OEM # 6N-7174
		122-1373	Positive Type, Viton Material, Metal Clad Style, OEM # 102-6229, 163-2478
Guide	Both	140-3014	0.3740 I.D., 3.050 Length, 0.6890 O.D., OEM # 122-7374, +2 O/S Available
		140-3145	0.3740 I.D., 3.250 Length, 0.6890 O.D., +2 & +5 O/S Available, OEM # 173-7188
Spring	Both	160-1184	2.470 Length, Single Spring, OEM # 4N5906
		160-1207	2.678 Length, Inner, Dual Spring, OEM # 4W2472
		160-1213	2.341 Length, Outer, Dual Spring, OEM # 4W2471
Rotator	Both	161-1030	W/ Dual Spring, OEM # 4W2474
		161-1038	W/ Single Spring, OEM # 6N7175; NOTE: Includes Oil Shield

95 1649 C.I., (27.0L), 3412E, 48 Valve, Diesel
V12 1649 CID

3412E
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-1	1.891 O.D., 1.615T I.D., 0.3060 Depth, +10, +20 & +30 O/S Available, OEM # 1564168, 1753617, 1085912
	Exh	SB1687E-1N	1.687 O.D., 1 ⁷ / ₁₆ T I.D., 0.3650 Depth, OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D., 1 ⁷ / ₁₆ T I.D., 0.3650 Depth, +10, +20, +30 O/S Available
Valve	Int	01911	1.850 Head Diameter, Recommended OEM Nickel Base Inconel Material, 2 Groove, OEM # 153-7023, 236-5605, Replaces Earlier Single Groove OEM # 108-5910
		21911	1.850 Head Diameter, Alternative Austenitic Material, Stellite Face, 2 Groove, NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter, Recommended OEM Nickel Base Inconel Material, 2 Groove, OEM # 153-7024, 289-9231 & Includes Spark Ignited 152-7585, Replaces Earlier Single Groove OEM # 108-5911
		21912	1.646 Head Diameter, Alternative Austenitic Material, Stellite Face, 2 Groove, NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type, OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type, Viton Material, Metal Clad Style, OEM # 102-6229, 163-2478
Guide	Both	140-3007	0.3745 I.D., 3.358 Length, 0.6298 O.D., +2 & +5 O/S Available, OEM # 122-7375
Spring	Both	160-1464	2.823 Length, Inner, OEM # 211-3122

(Cont'd) **CATERPILLAR / HEAVY DUTY**

1649 C.I., (27.0L), 3412E, 48 Valve, Diesel
V12 1649 CID

3412E 95
BORE - 137.16mm/5.40" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1575	3.185 Length,Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001, For Dual Springs, Replaces Early Single Spring Rotator OEM # 4P-4962 When Used W/ Dual Springs
Rocker Components		187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743
Injector Tubes and Components		240-1006	Injector Tube,OEM # 227-4239
		240-1006RB	O-Ring, Small - Bottom, Navy,OEM # 9X7430
		240-1006RM	O-Ring, Middle, Green,OEM # 166-2904
		240-1006RT	O-Ring, Large - Top, Dark Blue,OEM # 166-2903
		240-1044	Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

1649 C.I., (27.0L), G3412, 48 Valve, Gas
V12 1649 CID

G3412 96
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-3	1.812 O.D.,1.540T I.D.,0.3650 Depth,OEM Replacement for OEM # 4N5893, 30 Degree; NOTE: Oversize Use SB1817E-3
		SB1812E-6N	1.812 O.D.,1.540 I.D.,0.3650 Depth,+10, & +20 O/S Available,OEM # 122-7352; NOTE: Use W/ 20 Degree Short Valve 01857S
		SB1813E-1	1.813 O.D.,1.540 I.D.,0.3150 Depth,+10 & +20 O/S Available,OEM # 214-3286, NOTE: Use W/ 20 Degree Long Valve 02258S
		SB1817E-3	1.817 O.D.,1.540T I.D.,0.3650 Depth,+10, +20, +30 & +40 O/S Available,+5 Oversize of SB1812E-3
	Exh	SB1687E-4N	1.687 O.D.,1.410 I.D.,0.3650 Depth,+10 & +20 O/S Available,OEM # 198-6529; NOTE: Use W/ 20 Degree Short Valve 01632S
		SB1687E-5C	1.687 O.D.,1.318T I.D.,0.3150 Depth,+10 & +20 O/S Available,OEM # 212-0936, NOTE: Use W/ 20 Degree Long Valve 02258S
Valve	Int	01462S	1.771 Head Diameter,Stellite Face,OEM # 115-2368, NOTE: 30 Degree
		01857S	1.771 Head Diameter,Stellite Face,OEM # 122-7353, 20 Degree Short Valve
		02259S	1.771 Head Diameter,Inconel, Stellite Face,OEM # 212-0932, 20 Degree Long Valve
	Exh	01632S	1.646 Head Diameter,Stellite Face,OEM # 101-8314, 20 Degree Short Valve
02258S		1.646 Head Diameter,Inconel, Stellite Face,OEM # 212-0933, 20 Degree Long Valve	
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1328	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 6N7174
Guide	Int	140-3051	0.3740 I.D.,3.730 Length,0.6890 O.D.,OEM # 213-7536, NOTE: Use W/ Long Valves
	Exh	140-3052	0.3740 I.D.,4.130 Length,0.6890 O.D.,OEM # 213-7537, NOTE: Use W/ Long Valves
	Both	140-3138	0.3740 I.D.,3.255 Length,0.6890 O.D.,OEM # 151-1330, Late Style; NOTE: Use W/ Short Valves
		140-8485	0.3750 I.D.,3.250 Length,0.6888 O.D.,Counterbored Both Ends,OEM # 7E3413, 123-3984, 151-1329; Early Style; Heat Treated High Strength Alloy; NOTE: Use W/ Short Valves
Spring	Both	160-1184	2.470 Length,OEM # 4N5906
Rotator	Both	161-1038	OEM # 6N7175

CATERPILLAR / HEAVY DUTY (Cont'd)

97 1662 C.I., (27.2L), D364

V8 1662 CID

D364

BORE - 146.05mm/5.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2503E-2 SB2506E-2	2.503 O.D.,2 ¹ / ₁₆ T I.D.,1/2 Depth,OEM Replacement for OEM # 9M8745 2.506 O.D.,2 ¹ / ₁₆ T I.D.,1/2 Depth,+20 O/S Available,+.003 Oversize Of OEM # 9M8745
	Exh	SB2503E-1 SB2506E-1	2.503 O.D.,2.000 I.D.,1/2 Depth,OEM Replacement for OEM # 8M9810 2.506 O.D.,2.000 I.D.,1/2 Depth,+20 O/S Available,+.003 Oversize Of OEM # 8M9810
Valve	Int	00852S	2.343 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1993
		01459S	2.343 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 1W1818
	Exh	00574S	2.282 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1994
		01458S	2.282 Head Diameter,Stellite Face, 2 Groove,W/.3717 Stem Dia., OEM # 1W1819
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-6470	0.5005 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 2S0893
	Exh	140-6469	0.5020 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 1S6654
	Both	140-7338	0.5010 I.D.,5.219 Length,0.9385 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Valve Stem Dia., OEM # 7N2051, +2 O/S Available
		140-7604	0.3725 I.D.,5.250 Length,0.9390 O.D.,High Strength Alloy,Non-Flanged, W/ .3725 Valve Stem Dia., OEM # 1W1816
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

98 1662 C.I., (27.2L), D375

V8 1662 CID

D375

BORE - 146.05mm/5.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2503E-2 SB2506E-2	2.503 O.D.,2 ¹ / ₁₆ T I.D.,1/2 Depth,OEM Replacement for OEM # 9M8745 2.506 O.D.,2 ¹ / ₁₆ T I.D.,1/2 Depth,+20 O/S Available,+.003 Oversize Of OEM # 9M8745
	Exh	SB2503E-1 SB2506E-1	2.503 O.D.,2.000 I.D.,1/2 Depth,OEM Replacement for OEM # 8M9810 2.506 O.D.,2.000 I.D.,1/2 Depth,+20 O/S Available,+.003 Oversize Of OEM # 8M9810
Valve	Int	00852S	2.343 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1993
		01459S	2.343 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 1W1818
	Exh	00574S	2.282 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8H1994
		01458S	2.282 Head Diameter,Stellite Face, 2 Groove,W/.3717 Stem Dia., OEM # 1W1819
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM #2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-6470	0.5005 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 2S0893
	Exh	140-6469	0.5020 I.D.,5.250 Length,0.9383 O.D.,Flanged,W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 1S6654

(Cont'd) **CATERPILLAR / HEAVY DUTY**

1662 C.I., (27.2L), D375 **D375 98**
V8 1662 CID **BORE - 146.05mm/5.75" (cont.)**

PART		PART NO.	NOTES
Guide	Both	140-7338	0.5010 I.D.,5.219 Length,0.9385 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Valve Stem Dia., OEM # 7N2051, +2 O/S Available
		140-7604	0.3725 I.D.,5.250 Length,0.9390 O.D.,High Strength Alloy,Non-Flanged, W/ .3725 Valve Stem Dia., OEM # 1W1816
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

1786 C.I., (29.2L), D348 **D348 99**
V12 1786 CID **BORE - 137.16mm/5.40"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812E-1	1.812 O.D.,1 ⁹ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement for OEM # 9M3205
		SB1818E-1	1.818 O.D.,1 ⁹ / ₁₆ T I.D.,0.3650 Depth
		SB1818E-2	1.818 O.D.,1 ⁹ / ₁₆ T I.D., ³ / ₈ Depth,+20 O/S Available,W/ .010 Larger Depth
	Exh	SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
		SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available,Exc. Natural Gas
		SB1693E-2	1.693 O.D.,1 ⁷ / ₁₆ T I.D., ³ / ₈ Depth,+20 & +30 O/S Available,W/ .010 Larger Depth
Valve	Int	01146S	1.771 Head Diameter,Stellite Face,Spark Ignited, OEM # 1N4885, 1N4886
	Exh	01145S	1.646 Head Diameter,Stellite Face,OEM # 7E7830
Keeper	Both	121-1000	2 RD Bead Type,OEM #2A4429
Guide	Both	140-7255	0.3750 I.D.,2.815 Length,0.6892 O.D.,High Strength Alloy, OEM # 6N2236, +2 O/S Available
Spring	Both	160-1181	1.960 Length,OEM # 3S3018

1959 C.I., (32.1L), C32, 48 Valve, Turbo, Diesel, Industrial **C32 100**
V12 1959 CID **BORE - 145.0mm/5.71"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1891E-2	1.891 O.D.,1.615T I.D.,0.3060 Depth,OEM # 224-3983, 280-3979
	Exh	SB1687E-6C	1.687 O.D.,1.437T I.D.,0.3650 Depth,OEM # 226-5561
Valve	Int	01911	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7023, 236-5605
		21911	1.850 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 490-7198
	Exh	01912	1.646 Head Diameter,Recommended OEM Nickel Base Inconel Material, 2 Groove,OEM # 153-7024, 289-9231
		21912	1.646 Head Diameter,Alternative Austenitic Material, Stellite Face, 2 Groove,NOTE: Can Be Used To Service OEM # 391-1107, 464-468, 490-7200
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1373	Positive Type,Viton Material,Metal Clad Style,OEM # 102-6229, 163-2478
Guide	Both	140-3007	0.3745 I.D.,3.358 Length,0.6298 O.D.,+2 & +5 O/S Available,OEM # 122-7375
Spring	Both	160-1464	2.823 Length,Inner, OEM # 211-3122
		160-1575	3.185 Length,Outer, OEM # 211-3123, 247-9908
Rotator	Both	161-1047	OEM # 186-2001
Rocker Components		187-1087	Valve Bridge Guide,OEM # 363-3731; NOTE: Improved Design, Also Services OEM # 6I-1458 & 348-7743

CATERPILLAR / HEAVY DUTY (Cont'd)

100 1959 C.I., (32.1L), C32, 48 Valve, Turbo, Diesel, Industrial
(cont.) V12 1959 CID

C32
BORE - 145.0mm/5.71"

PART	PART NO.	NOTES
Injector Tubes and Components	240-1006	Injector Tube,OEM # 227-4239
	240-1006RB	O-Ring, Small - Bottom, Navy,OEM # 9X7430
	240-1006RM	O-Ring, Middle, Green,OEM # 166-2904
	240-1006RT	O-Ring, Large - Top, Dark Blue,OEM # 166-2903
	240-1044	Injector Tube,OEM # 263-4920; NOTE: With Two Top Internal Chamfers, This Sleeve Uses 240-1006RM (Green O-Ring) For Top & Middle Groove And 240-1006RB For Bottom Groove

101 1964 C.I., (32.3L), D379, Diesel
V8 1964 CID

D379
BORE - 158.75mm/6.25"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2590E-1	2.590 O.D.,.29/32 I.D.,.5/8 Depth,+10, & +020 O/S Available,OEM # 5S1757
	Exh SB2435E-1	2.435 O.D.,.21/8 I.D.,.5/8 Depth,+10 & +20 O/S Available,OEM # 8M4014
	SB2435E-2N	2.435 O.D.,.21/8 I.D.,.0.6250 Depth,OEM # 1S5738
Valve	Int 00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
	01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606
	Exh 00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723
	01460S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W1822
Keeper	Both 121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM #2A4429
	121-1030	No Bead Bead Type,W/ .4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int 140-7074H	0.3745 I.D.,.5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298
	140-7083	0.5020 I.D.,.5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
	Exh 140-7073	0.3745 I.D.,.5.450 Length,0.8775 O.D.,OEM # 2N9299
	140-7073H	0.3745 I.D.,.5.450 Length,0.8780 O.D.,Optional Hardened Version
	Both 140-7357	0.5020 I.D.,.5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366, Opt. Spacer 149-1000 Available
149-1000	0.7850 I.D.,.0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414	
Spring	Both 160-1191	2.626 Length,Single Spring, OEM # 7S6323
	160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
	160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh 161-1035	OEM # 7N7639

102 1964 C.I., (32.3L), G379, Natural Gas
V8 1964 CID

G379
BORE - 158.75mm/6.25"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2590E-1	2.590 O.D.,.29/32 I.D.,.5/8 Depth,+10, & +020 O/S Available,OEM # 5S1757
	Exh SB2435E-2N	2.435 O.D.,.21/8 I.D.,.0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int 00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
	01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606
	Exh 00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723; NOTE: S/N 72B 1-84
	01460S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W1822

(Cont'd) **CATERPILLAR / HEAVY DUTY**

1964 C.I., (32.3L), G379, Natural Gas
V8 1964 CID

G379 102
BORE - 158.75mm/6.25" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM #2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298
		140-7083	0.5020 I.D.,5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
	Exh	140-7073	0.3745 I.D.,5.450 Length,0.8775 O.D.,OEM # 2N9299
		140-7073H	0.3745 I.D.,5.450 Length,0.8780 O.D.,Optional Hardened Version
Both	140-7357	0.5020 I.D.,5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366, Opt. Spacer 149-1000 Available	
	149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414	
Spring	Both	160-1191	2.626 Length,Single Spring, OEM # 7S6323
		160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

2107 C.I., (34.5L), 3508, 32 Valve, Diesel
V8 2107 CID

3508 103
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2368E-3N	2.368 O.D.,1.890T I.D.,0.4600 Depth,OEM # 122-5963, Natural Gas Late Style W/ Swirl Plate
		SB2387E-1	2.387 O.D.,1.970 I.D.,0.3820 Depth,OEM # 7E5862 & 136-9630, Exc. Natural Gas
		SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; Natural Gas Late Style W/ Swirl Plate; NOTE: Can Be Used As +0.020 Oversize Of SB2368E-3N
	Exh	SB2367E-1	2.367 O.D.,2.045 I.D.,0.3820 Depth,OEM # 1W1801, Exc. Natural Gas
		Both	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; Natural Gas; NOTE: SB2388E-1N Can Be Used As +020 Oversized O.D.
Valve	Both	01498S	2.205 Head Diameter,Stellite Face,Diesel, OEM # 7E4609 & 7C6217
		01584S	2.205 Head Diameter,Stellite Face,Spark Ignited OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
		Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Counterbore, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
	Both		140-3144
		140-3143	0.3735 I.D.,4.060 Length,0.6890 O.D.,OEM # 9Y-1847
140-8679	0.3735 I.D.,4.060 Length,0.6885 O.D.,W/ Step For Stem Seal, Late Style, OEM # 7N-1819 or 133-9306, +5 O/S Available		
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N1903
		160-1397	2.500 Length,Outer, OEM # 7N1904
Rotator	Both	161-1069	OEM # 133-3814 & 197-6999

2107 C.I., (34.5L), 3508B, 32 Valve, Diesel, Industrial, Marine
V8 2107 CID

3508BIM 104
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2387E-2	2.387 O.D.,1.890 I.D.,0.3610 Depth,OEM # 130-2607
	Exh	SB2366E-2N	2.366 O.D.,1.977 I.D.,0.3920 Depth,OEM # 130-2608

CATERPILLAR / HEAVY DUTY (Cont'd)

104 2107 C.I., (34.5L), 3508B, 32 Valve, Diesel, Industrial, Marine
(cont.) V8 2107 CID

3508BIM
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve	Int	01804	2.205 Head Diameter,OEM # 121-2028 & 210-2542, 20 Degree Seat
	Exh	01805S	2.205 Head Diameter,Stellite Face,OEM # 121-9835
		02168S	2.205 Head Diameter,Stellite Face,OEM # 194-4897, 443-2712, W/.495 Stem
Keeper	Exh	121-1095	1 SQ Bead Type,OEM # 197-7055, W/ .495 Stem Dia.
	Both	121-1000	2 RD Bead Type,OEM # 2A4429, W/ 3/8 Stem Dia.
Stem Seal	Int	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide
		122-1490	Positive Type,Viton Material,Top Hat Style,OEM # 316-5980; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs
	Exh	122-1414	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 234-8776, Oil Shield, Use With .495 Stem Dia
Guide	Exh	140-3042	0.4977 I.D.,4.055 Length,0.6886 O.D.,OEM # 197-6995, W/ .495 Stem Dia., +5 O/S Available
	Both	140-8679	0.3735 I.D.,4.060 Length,0.6885 O.D.,OEM # 133-9306, W/ 3/8 Stem Dia., +5 O/S Available
Spring	Both	160-1460	2.425 Length,OEM # 194-4902, Inner
		160-1461	3.030 Length,OEM #'s 194-4901 & 281-6157, Outer
		160-1676	2.840 Length,OEM # 316-5977, Inner, W/ Yellow Stripe; NOTE: Updated Version For 201-4257 & 317-2440 Head Groups; Must Replace In Sets and Must Be Used With 160-1677 Outer
		160-1677	3.017 Length,OEM # 316-5976, Outer, W/ Yellow Stripe; NOTE: Updated Version For 201-4257 & 317-2440 Head Groups; Must Replace In Sets and Must Be Used With 160-1676 Inner
Rotator	Int	161-1067	OEM # 197-7062, W/ 3/8 Stem Dia.
		161-1077	OEM # 316-5978; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs
	Exh	161-1068	OEM # 197-7063, W/ .495 Stem Dia.
		161-1078	OEM # 316-5979; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs

105 2107 C.I., (34.5L), G3508, 32 Valve, Gas
V8 2107 CID

G3508
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2368E-3N	2.368 O.D.,1.890T I.D.,0.4600 Depth,OEM # 122-5963; Natural Gas Late Style W/ Swirl Plate
		SB2388E-1N	2.388 O.D.,1.890 I.D.,0.4600 Depth,OEM # 206-4442
		SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; Natural Gas Late Style W/ Swirl Plate; NOTE: Can Be Used As +0.020 Oversize Of SB2368E-3N
	Both	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; NOTE: Exhaust Only On Some Castings; SB2388E-1N Can Be Used As +020 Oversized O.D.
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Stem Seal	Both	122-1436	Positive Type,Viton Material,Top Hat Style,OEM # 228-9673
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3139	0.3730 I.D.,4.055 Length,0.6890 O.D.,OEM # 191-6766; W/ Step For Stem Seal, W/ Oil Baffle, +10, +20 O/S Available
		140-3143	0.3735 I.D.,4.060 Length,0.6890 O.D.,OEM # 9Y-1847

(Cont'd) **CATERPILLAR / HEAVY DUTY**

2107 C.I., (34.5L), G3508, 32 Valve, Gas
V8 2107 CID

G3508 105
BORE - 170mm/6.70" (cont.)

PART		PART NO.	NOTES
Guide	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Step For Stem Seal, W/ Counterbore, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3140	0.3730 I.D.,3.620 Length,0.6890 O.D.,OEM # 206-1541; +10, +20 O/S Available
		140-3144	0.3735 I.D.,3.615 Length,0.6890 O.D.,OEM # 9Y-1846
		140-3195	0.3733 I.D.,3.625 Length,0.6888 O.D.,OEM # 255-0897; W/ Step For Stem Seal, W/ Oil Baffle
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N-1903
		160-1397	2.500 Length,Outer, OEM # 7N-1904
Rotator	Both	161-1069	OEM # 197-6999

2107 C.I., (34.5L), G3508B, 32 Valve, Gas
V8 2107 CID

G3508B 106
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; NOTE: W/ Swirl Plate
	Exh	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; NOTE: SB2388E-1N Can Be Used As +020 Oversized O.D.
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Guide	Int	140-3139	0.3730 I.D.,4.055 Length,0.6890 O.D.,OEM # 191-6766; W/ Oil Baffle,+10, +20 O/S Available
	Exh	140-3140	0.3730 I.D.,3.620 Length,0.6890 O.D.,OEM # 206-1541; +10, +20 O/S Available
		140-3195	0.3733 I.D.,3.625 Length,0.6888 O.D.,OEM # 255-0897; W/ Oil Baffle
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N-1903
		160-1397	2.500 Length,Outer, OEM # 7N-1904
Rotator	Both	161-1069	OEM # 197-6999

2382 C.I., (39.0L), D349, Diesel
V16 2382 CID

D349 107
BORE - 137.16mm/5.40"

PART		PART NO.	NOTES	
Valve Seat Insert	Int	SB1812E-1	1.812 O.D.,1 ⁹ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement for OEM # 9M3205	
		SB1818E-1	1.818 O.D.,1 ⁹ / ₁₆ T I.D.,0.3650 Depth	
		SB1818E-2	1.818 O.D.,1 ⁹ / ₁₆ T I.D., ³ / ₈ Depth,+20 O/S Available,W/ .010 Larger Depth	
		Exh	SB1687E-1N	1.687 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,OEM Replacement For OEM # 9S9699 & 1W5283
			SB1693E-1N	1.693 O.D.,1 ⁷ / ₁₆ T I.D.,0.3650 Depth,+10, +20, +30 O/S Available,Exc. Natural Gas
		SB1693E-2	1.693 O.D.,1 ⁷ / ₁₆ T I.D., ³ / ₈ Depth,+20 & +30 O/S Available,W/ .010 Larger Depth	
Valve	Int	01146S	1.771 Head Diameter,Stellite Face,Spark Ignited, OEM # 1N4885, 1N4886	
	Exh	01145S	1.646 Head Diameter,Stellite Face,OEM # 7E7830	
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429	
Guide	Both	140-7255	0.3750 I.D.,2.815 Length,0.6892 O.D.,High Strength Alloy, OEM # 6N2236, +2 O/S Available	
Spring	Both	160-1181	1.960 Length,OEM # 3S3018	

2493 C.I., (41.0L), D386, Diesel
V12 2493 CID

D386 108
BORE - 146.05mm/5.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2503E-2	2.503 O.D.,2 ¹ / ₁₆ T I.D., ¹ / ₂ Depth,OEM Replacement for OEM # 9M8745

CATERPILLAR / HEAVY DUTY (Cont'd)

108 2493 C.I., (41.0L), D386, Diesel

D386

(cont.) V12 2493 CID

BORE - 146.05mm/5.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2506E-2	2.506 O.D., 2 ¹ / ₁₆ T I.D., 1/2 Depth, +20 O/S Available, +.003 Oversize Of OEM # 9M8745
	Exh	SB2503E-1 SB2506E-1	2.503 O.D., 2.000 I.D., 1/2 Depth, OEM Replacement for OEM # 8M9810 2.506 O.D., 2.000 I.D., 1/2 Depth, +20 O/S Available, +.003 Oversize Of OEM # 8M9810
Valve	Int	00852S	2.343 Head Diameter, Stellite Face, Tapered Groove, W/ .4955 Stem Dia., OEM # 8H1993
		01459S	2.343 Head Diameter, Stellite Face, 2 Groove, W/ .3717 Stem Dia., OEM # 1W1818
	Exh	00574S	2.282 Head Diameter, Stellite Face, Tapered Groove, W/ .4955 Stem Dia., OEM # 8H1994
		01458S	2.282 Head Diameter, Stellite Face, 2 Groove, W/ .3717 Stem Dia., OEM # 1W1819
Keeper	Both	121-1000	2 RD Bead Type, W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type, .4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-6470	0.5005 I.D., 5.250 Length, 0.9383 O.D., Flanged, W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 2S0893
	Exh	140-6469	0.5020 I.D., 5.250 Length, 0.9383 O.D., Flanged, W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 1S6654
	Both	140-7338	0.5010 I.D., 5.219 Length, 0.9385 O.D., High Strength Alloy, Non-Flanged, Counterbored W/ .4955 Valve Stem Dia., OEM # 7N2051, +2 O/S Available
		140-7604	0.3725 I.D., 5.250 Length, 0.9390 O.D., High Strength Alloy, Non-Flanged, W/ .3725 Valve Stem Dia., OEM # 1W1816
		149-1000	0.7850 I.D., 0.500 Length, 1.2650 O.D., Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1196	2.179 Length, Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length, Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

109 2493 C.I., (41.0L), D397, Diesel

D397

V12 2493 CID

BORE - 146.05mm/5.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2503E-2 SB2506E-2	2.503 O.D., 2 ¹ / ₁₆ T I.D., 1/2 Depth, OEM Replacement for OEM # 9M8745 2.506 O.D., 2 ¹ / ₁₆ T I.D., 1/2 Depth, +20 O/S Available, +.003 Oversize Of OEM # 9M8745
	Exh	SB2503E-1 SB2506E-1	2.503 O.D., 2.000 I.D., 1/2 Depth, OEM Replacement for OEM # 8M9810 2.506 O.D., 2.000 I.D., 1/2 Depth, +20 O/S Available, +.003 Oversize Of OEM # 8M9810
Valve	Int	00852S	2.343 Head Diameter, Stellite Face, Tapered Groove, W/ .4955 Stem Dia., OEM # 8H1993
		01459S	2.343 Head Diameter, Stellite Face, 2 Groove, W/ .3717 Stem Dia., OEM # 1W1818
	Exh	00574S	2.282 Head Diameter, Stellite Face, Tapered Groove, W/ .4955 Stem Dia., OEM # 8H1994
		01458S	2.282 Head Diameter, Stellite Face, 2 Groove, W/ .3717 Stem Dia., OEM # 1W1819
Keeper	Both	121-1000	2 RD Bead Type, W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type, .4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-6470	0.5005 I.D., 5.250 Length, 0.9383 O.D., Flanged, W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 2S0893
	Exh	140-6469	0.5020 I.D., 5.250 Length, 0.9383 O.D., Flanged, W/O Valve Rotator W/ .4955 Valve Stem Dia., OEM # 1S6654

(Cont'd) **CATERPILLAR / HEAVY DUTY**

2493 C.I., (41.0L), D397, Diesel
V12 2493 CID

D397 109
BORE - 146.05mm/5.75" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-7338	0.5010 I.D.,5.219 Length,0.9385 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Valve Stem Dia., OEM # 7N2051, +2 O/S Available
		140-7604	0.3725 I.D.,5.250 Length,0.9390 O.D.,High Strength Alloy,Non-Flanged, W/ .3725 Valve Stem Dia., OEM # 1W1816
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

2946 C.I., (48.3L), D398, Diesel
V12 2946 CID

D398 110
BORE - 158.75mm/6.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2590E-1	2.590 O.D.,2 ⁹ / ₃₂ T I.D., ⁵ / ₈ Depth,+10, & +020 O/S Available,OEM # 5S1757
	Exh	SB2435E-1	2.435 O.D.,2 ¹ / ₈ T I.D., ⁵ / ₈ Depth,+10 & +20 O/S Available,OEM # 8M4014, Exc. Natural Gas
		SB2435E-2N	2.435 O.D.,2 ¹ / ₈ I.D.,0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int	00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
		01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606
	Exh	00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723
		01460S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W1822
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298
		140-7083	0.5020 I.D.,5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
	Exh	140-7073	0.3745 I.D.,5.450 Length,0.8775 O.D.,OEM # 2N9299
		140-7073H	0.3745 I.D.,5.450 Length,0.8780 O.D.,Optional Hardened Version
	Both	140-7357	0.5020 I.D.,5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366.
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1191	2.626 Length,Single Spring, OEM # 7S6323
		160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

2946 C.I., (48.3L), G398, Natural Gas
V12 2946 CID

G398 111
BORE - 158.75mm/6.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2590E-1	2.590 O.D.,2 ⁹ / ₃₂ T I.D., ⁵ / ₈ Depth,+10, & +020 O/S Available,OEM # 5S1757
	Exh	SB2435E-2N	2.435 O.D.,2 ¹ / ₈ I.D.,0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int	00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
		01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style, OEM # 1W8606
	Exh	00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723

CATERPILLAR / HEAVY DUTY (Cont'd)

111 2946 C.I., (48.3L), G398, Natural Gas
(cont.) V12 2946 CID

G398
BORE - 158.75mm/6.25"

PART		PART NO.	NOTES
Valve	Exh	01476S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 2W3211
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,W/ .4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298 0.5020 I.D.,5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
		140-7083	
	Exh	140-7073	0.3745 I.D.,5.450 Length,0.8775 O.D.,OEM # 2N9299
		140-7073H	0.3745 I.D.,5.450 Length,0.8780 O.D.,Optional Hardened Version
Both	140-7357	0.5020 I.D.,5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366.	
	149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414	
Spring	Both	160-1191	2.626 Length,Single Spring, OEM # 7S6323
		160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350

112 3160 C.I., (51.8L), 3512, 48 Valve, Diesel
V12 3160 CID

3512
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2368E-3N	2.368 O.D.,1.890T I.D.,0.4600 Depth,OEM # 122-5963, Natural Gas Late Style W/ Swirl Plate
		SB2387E-1	2.387 O.D.,1.970 I.D.,0.3820 Depth,OEM # 7E5862 & 136-9630, Exc. Natural Gas
		SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; Natural Gas Late Style W/ Swirl Plate; NOTE: Can Be Used As +0.020 Oversize Of SB2368E-3N
	Exh Both	SB2367E-1	2.367 O.D.,2.045 I.D.,0.3820 Depth,OEM # 1W1801, Exc. Natural Gas
SB2368E-2N		2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; Natural Gas; NOTE: SB2388E-1N Can Be Used As +020 Oversized O.D.	
Valve	Both	01498S 01584S	2.205 Head Diameter,Stellite Face,Diesel, OEM # 7E4609 & 7C6217 2.205 Head Diameter,Stellite Face,Spark Ignited OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3035	
	Both	140-3144	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Counterbore, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3143	0.3735 I.D.,3.615 Length,0.6890 O.D.,OEM # 9Y-1846
		140-8679	0.3735 I.D.,4.060 Length,0.6890 O.D.,OEM # 9Y-1847 0.3735 I.D.,4.060 Length,0.6885 O.D.,W/ Step For Stem Seal, Late Style, OEM # 7N-1819 or 133-9306, +5 O/S Available
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N1903
		160-1397	2.500 Length,Outer, OEM # 7N1904
Rotator	Both	161-1069	OEM # 133-3814 & 197-6999

113 3160 C.I., (51.8L), 3512B, 48 Valve, Diesel, Industrial, Marine
V12 3160 CID

3512BIM
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2387E-2	2.387 O.D.,1.890 I.D.,0.3610 Depth,OEM # 130-2607 2.366 O.D.,1.977 I.D.,0.3920 Depth,OEM # 130-2608
	Exh	SB2366E-2N	

(Cont'd) **CATERPILLAR / HEAVY DUTY**

3160 C.I., (51.8L), 3512B, 48 Valve, Diesel, Industrial, Marine
V12 3160 CID

3512BIM 113
BORE - 170mm/6.70" (cont.)

PART		PART NO.	NOTES
Valve	Int	01804	2.205 Head Diameter,OEM # 121-2028 & 210-2542, 20 Degree Seat
	Exh	01805S	2.205 Head Diameter,Stellite Face,OEM # 121-9835, W/ .372 Stem
		02168S	2.205 Head Diameter,Stellite Face,OEM # 194-4897, 443-2712, W/.495 Stem
Keeper	Exh	121-1095	1 SQ Bead Type,OEM # 197-7055, W/ .495 Stem Dia.
	Both	121-1000	2 RD Bead Type,OEM # 2A4429, W/ 3/8 Stem Dia.
Stem Seal	Int	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide
		122-1490	Positive Type,Viton Material,Top Hat Style,OEM # 316-5980; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs
	Exh	122-1414	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 234-8776, Oil Shield, Use With .495 Stem Dia
Guide	Exh	140-3042	0.4977 I.D.,4.055 Length,0.6886 O.D.,OEM # 197-6995, W/ .495 Stem Dia., +5 O/S Available
	Both	140-8679	0.3735 I.D.,4.060 Length,0.6885 O.D.,OEM # 133-9306, W/ 3/8 Stem Dia., +5 O/S Available
Spring	Both	160-1460	2.425 Length,OEM # 194-4902, Inner
		160-1461	3.030 Length,OEM #'s 194-4901 & 281-6157, Outer
		160-1676	2.840 Length,OEM # 316-5977, Inner, W/ Yellow Stripe; NOTE: Updated Version For 201-4257 & 317-2440 Head Groups; Must Replace In Sets and Must Be Used With 160-1677 Outer
		160-1677	3.017 Length,OEM # 316-5976, Outer, W/ Yellow Stripe; NOTE: Updated Version For 201-4257 & 317-2440 Head Groups; Must Replace In Sets and Must Be Used With 160-1676 Inner
Rotator	Int	161-1067	OEM # 197-7062, W/ 3/8 Stem Dia.
		161-1077	OEM # 316-5978; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs
	Exh	161-1068	OEM # 197-7063, W/ .495 Stem Dia.
		161-1078	OEM # 316-5979; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs

3160 C.I., (51.8L), G3512, 48 Valve, Gas
V12 3160 CID

G3512 114
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2368E-3N	2.368 O.D.,1.890T I.D.,0.4600 Depth,OEM # 122-5963, Natural Gas Late Style W/ Swirl Plate
		SB2388E-1N	2.388 O.D.,1.890 I.D.,0.4600 Depth,OEM # 206-4442
		SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; Natural Gas Late Style W/ Swirl Plate; NOTE: Can Be Used As +0.020 Oversize Of SB2368E-3N
	Both	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; NOTE: Exhaust Only On Some Castings
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Stem Seal	Both	122-1436	Positive Type,Viton Material,Top Hat Style,OEM # 228-9673
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3139	0.3730 I.D.,4.055 Length,0.6890 O.D.,OEM # 191-6766; W/ Step For Stem Seal, W/ Oil Baffle, +10, +20 O/S Available
		140-3143	0.3735 I.D.,4.060 Length,0.6890 O.D.,OEM # 9Y-1847

CATERPILLAR / HEAVY DUTY (Cont'd)

114 3160 C.I., (51.8L), G3512, 48 Valve, Gas
(cont.) V12 3160 CID

G3512
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Guide	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Counterbore, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3140	0.3730 I.D.,3.620 Length,0.6890 O.D.,OEM # 206-1541; +10, +20 O/S Available
		140-3144	0.3735 I.D.,3.615 Length,0.6890 O.D.,OEM # 9Y-1846
		140-3195	0.3733 I.D.,3.625 Length,0.6888 O.D.,OEM # 255-0897; W/ Step For Stem Seal, W/ Oil Baffle
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N-1903
		160-1397	2.500 Length,Outer, OEM # 7N-1904
Rotator	Both	161-1069	OEM # 197-6999

115 3160 C.I., (51.8L), G3512B, 48 Valve, Gas
V12 3160 CID

G3512B
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; NOTE: W/ Swirl Plate
	Exh	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; NOTE: SB2388E-1N Can Be Used As +020 Oversized O.D.
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Guide	Int	140-3139	0.3730 I.D.,4.055 Length,0.6890 O.D.,OEM # 191-6766; W/ Oil Baffle,+10, +20 O/S Available
	Exh	140-3140	0.3730 I.D.,3.620 Length,0.6890 O.D.,OEM # 206-1541; +10, +20 O/S Available
		140-3195	0.3733 I.D.,3.625 Length,0.6888 O.D.,OEM # 255-0897; W/ Oil Baffle
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N-1903
		160-1397	2.500 Length,Outer, OEM # 7N-1904
Rotator	Both	161-1069	OEM # 197-6999

116 3928 C.I., (64.4L), D399, Diesel
V16 3928 CID

D399
BORE - 158.75mm/6.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2590E-1	2.590 O.D., ²⁹ / ₃₂ T I.D., ⁵ / ₈ Depth,+10, & +020 O/S Available,OEM # 5S1757
	Exh	SB2435E-1	2.435 O.D., ²¹ / ₈ T I.D., ⁵ / ₈ Depth,+10 & +20 O/S Available,OEM # 8M4014, Exc. Natural Gas
		SB2435E-2N	2.435 O.D., ²¹ / ₈ I.D.,0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int	00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
		01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606
	Exh	00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723
		01460S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W1822
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,5.065 Length,0.8780 O.D.,W/ .3717 Stem Dia., OEM # 2N9298
		140-7083	0.5020 I.D.,5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
	Exh	140-7551	0.3725 I.D.,5.065 Length,0.8780 O.D.,W/ .002 Smaller I.D. & .374 Stem Dia.
		140-7073	0.3745 I.D.,5.450 Length,0.8775 O.D.,OEM # 2N9299
		140-7073H	0.3745 I.D.,5.450 Length,0.8780 O.D.,Optional Hardened Version

(Cont'd) **CATERPILLAR / HEAVY DUTY**

3928 C.I., (64.4L), D399, Diesel
V16 3928 CID

D399 116
BORE - 158.75mm/6.25" (cont.)

PART		PART NO.	NOTES
Guide	Exh	140-7550	0.3725 I.D.,5.450 Length,0.8780 O.D.,W/ .002 Smaller I.D. & .3725 Stem Dia.
	Both	140-7357	0.5020 I.D.,5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366.
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1191	2.626 Length,Single Spring, OEM # 7S6323
		160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

3928 C.I., (64.4L), G399, Natural Gas
V16 3928 CID

G399 117
BORE - 158.75mm/6.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2590E-1	2.590 O.D.,2 ⁹ / ₃₂ T I.D., ⁵ / ₈ Depth,+10, & +020 O/S Available,OEM # 5S1757
	Exh	SB2435E-2N	2.435 O.D.,2 ¹ / ₈ I.D.,0.6250 Depth,OEM # 1S5738, Natural Gas
Valve	Int	00752S	2.505 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 7M7817
		01461S	2.505 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., Late Style OEM # 1W8606
	Exh	00751S	2.350 Head Diameter,Stellite Face, Tapered Groove,W/ .4955 Stem Dia., OEM # 8N3723
		01476S	2.350 Head Diameter,Stellite Face, 2 Groove,W/ .3717 Stem Dia., OEM # 2W3211
Keeper	Both	121-1000	2 RD Bead Type,W/ .3717 Stem Dia., OEM # 2A4429
		121-1030	No Bead Bead Type,.4955 Stem Dia., 3 Required per Valve, OEM # 3B1143
Guide	Int	140-7074H	0.3745 I.D.,5.065 Length,0.8780 O.D.,OEM # 2N9298
		140-7083	0.5020 I.D.,5.045 Length,0.8768 O.D.,High Strength Alloy,Non-Flanged, W/ .4955 Stem Dia., OEM # 4N3664, Opt. Spacer 149-1000 Available
	Exh	140-7073	0.3745 I.D.,5.450 Length,0.8775 O.D.,OEM # 2N9299
		140-7073H	0.3745 I.D.,5.450 Length,0.8780 O.D.,Optional Hardened Version
	Both	140-7357	0.5020 I.D.,5.438 Length,0.8771 O.D.,High Strength Alloy,Non-Flanged, Counterbored W/ .4955 Stem Dia., OEM # 7S6366.
		149-1000	0.7850 I.D.,0.500 Length,1.2650 O.D.,Spacer For Non-Flanged Guides. OEM # 3N1414
Spring	Both	160-1191	2.626 Length,Single Spring, OEM # 7S6323
		160-1196	2.179 Length,Inner, Dual Spring, OEM # 9M5349
		160-1197	2.574 Length,Outer, Dual Spring, OEM # 9M5350
Rotator	Exh	161-1035	OEM # 7N7639

4210 C.I., (69.0L), 3516, 64 Valve, Diesel
V16 4210 CID

3516 118
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2368E-3N	2.368 O.D.,1.890T I.D.,0.4600 Depth,OEM # 122-5963, Natural Gas Late Style W/ Swirl Plate
		SB2387E-1	2.387 O.D.,1.970 I.D.,0.3820 Depth,OEM # 7E5862 & 136-9630, Exc. Natural Gas
		SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; Natural Gas Late Style W/ Swirl Plate; NOTE: Can Be Used As +0.020 Oversize Of SB2368E-3N
	Exh	SB2367E-1	2.367 O.D.,2.045 I.D.,0.3820 Depth,OEM # 1W1801, Exc. Natural Gas
	Both	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; Natural Gas; NOTE: SB2388E-1N Can Be Used As +020 Oversized O.D.

CATERPILLAR / HEAVY DUTY (Cont'd)

118 4210 C.I., (69.0L), 3516, 64 Valve, Diesel
(cont.) V16 4210 CID

3516
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve	Both	01498S	2.205 Head Diameter,Stellite Face,Diesel, OEM # 7E4609 & 7C6217
		01584S	2.205 Head Diameter,Stellite Face,Spark Ignited OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A4429
Stem Seal	Both	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Counterbore, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
	Both	140-3144	0.3735 I.D.,3.615 Length,0.6890 O.D.,OEM # 9Y-1846
		140-3143	0.3735 I.D.,4.060 Length,0.6890 O.D.,OEM # 9Y-1847
		140-8679	0.3735 I.D.,4.060 Length,0.6885 O.D.,W/ Step For Stem Seal, Late Style, OEM # 7N-1819 or 133-9306, +5 O/S Available
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N1903
		160-1397	2.500 Length,Outer, OEM # 7N1904
Rotator	Both	161-1069	OEM # 133-3814 & 197-6999

119 4210 C.I., (69.0L), 3516B, 64 Valve, Diesel, Industrial, Marine
V16 4210 CID

3516BIM
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2387E-2	2.387 O.D.,1.890 I.D.,0.3610 Depth,OEM # 130-2607
	Exh	SB2366E-2N	2.366 O.D.,1.977 I.D.,0.3920 Depth,OEM # 130-2608
Valve	Int	01804	2.205 Head Diameter,OEM # 121-2028 & 210-2542, 20 Degree Seat
	Exh	01805S	2.205 Head Diameter,Stellite Face,OEM # 121-9835, W/.372 Stem
		02168S	2.205 Head Diameter,Stellite Face,OEM # 194-4897, 443-2712, W/.495 Stem
Keeper	Exh	121-1095	1 SQ Bead Type,OEM # 197-7055, W/.495 Stem Dia.
	Both	121-1000	2 RD Bead Type,OEM # 2A4429, W/ 3/8 Stem Dia.
Stem Seal	Int	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide
		122-1490	Positive Type,Viton Material,Top Hat Style,OEM # 316-5980; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs
	Exh	122-1414	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 234-8776, Oil Shield, Use W/.495 Stem Dia
Guide	Exh	140-3042	0.4977 I.D.,4.055 Length,0.6886 O.D.,OEM # 197-6995, W/.495 Stem Dia., +5 O/S Available
	Both	140-8679	0.3735 I.D.,4.060 Length,0.6885 O.D.,OEM # 133-9306, W/ 3/8 Stem Dia., +5 O/S Available
Spring	Both	160-1460	2.425 Length,OEM # 194-4902, Inner
		160-1461	3.030 Length,OEM #'s 194-4901 & 281-6157, Outer
		160-1676	2.840 Length,OEM # 316-5977, Inner, W/ Yellow Stripe; NOTE: Updated Version For 201-4257 & 317-2440 Head Groups; Must Replace In Sets and Must Be Used With 160-1677 Outer
		160-1677	3.017 Length,OEM # 316-5976, Outer, W/ Yellow Stripe; NOTE: Updated Version For 201-4257 & 317-2440 Head Groups; Must Replace In Sets and Must Be Used With 160-1676 Inner
Rotator	Int	161-1067	OEM # 197-7062, W/ 3/8 Stem Dia.
		161-1077	OEM # 316-5978; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs
	Exh	161-1068	OEM # 197-7063, W/ .495 Stem Dia.

(Cont'd) CATERPILLAR / HEAVY DUTY**4210 C.I., (69.0L), 3516B, 64 Valve, Diesel, Industrial, Marine**
V16 4210 CID**3516BIM 119**
BORE - 170mm/6.70" (cont.)

PART		PART NO.	NOTES
Rotator	Exh	161-1078	OEM # 316-5979; NOTE: Updated Version For Head Group 201-4257 & 317-2440; Must Be Used With 160-1676 (Inner) & 160-1677 (Outer) Valve Springs

4210 C.I., (69.0L), G3516, 64 Valve, Gas
V16 4210 CID**G3516 120**
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2368E-3N	2.368 O.D.,1.890T I.D.,0.4600 Depth,OEM # 122-5963, Natural Gas Late Style W/ Swirl Plate
		SB2388E-1N	2.388 O.D.,1.890 I.D.,0.4600 Depth,OEM # 206-4442
		SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; Natural Gas Late Style W/ Swirl Plate; NOTE: Can Be Used As +0.020 Oversize Of SB2368E-3N
	Both	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; NOTE: Exhaust Only On Some Castings; SB2388E-1N Can Be Used As +020 Oversized O.D.
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Stem Seal	Both	122-1436	Positive Type,Viton Material,Top Hat Style,OEM # 228-9673
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3139	0.3730 I.D.,4.055 Length,0.6890 O.D.,OEM # 191-6766; W/ Step For Stem Seal, W/ Oil Baffle,+10, +20 O/S Available
		140-3143	0.3735 I.D.,4.060 Length,0.6890 O.D.,OEM # 9Y-1847
	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Step For Stem Seal, W/ Counterbore, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3140	0.3730 I.D.,3.620 Length,0.6890 O.D.,OEM # 206-1541; +10, +20 O/S Available
		140-3144	0.3735 I.D.,3.615 Length,0.6890 O.D.,OEM # 9Y-1846
		140-3195	0.3733 I.D.,3.625 Length,0.6888 O.D.,OEM # 255-0897; W/ Step For Stem Seal, W/ Oil Baffle
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N-1903
		160-1397	2.500 Length,Outer, OEM # 7N-1904
Rotator	Both	161-1069	OEM # 197-6999

4210 C.I., (69.0L), G3516B, 64 Valve, Gas
V16 4210 CID**G3516B 121**
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718; NOTE: W/ Swirl Plate
	Exh	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 7W-0028, 6I-1713 & 191-6760; NOTE: SB2388E-1N Can Be Used As +020 Oversized O.D.
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Int	121-1000	2 RD Bead Type,OEM # 2A-4429
Guide	Int	140-3139	0.3730 I.D.,4.055 Length,0.6890 O.D.,OEM # 191-6766; W/ Oil Baffle,+10, +20 O/S Available
	Exh	140-3140	0.3730 I.D.,3.620 Length,0.6890 O.D.,OEM # 206-1541; +10, +20 O/S Available
		140-3195	0.3733 I.D.,3.625 Length,0.6888 O.D.,OEM # 255-0897; W/ Oil Baffle
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N-1903
		160-1397	2.500 Length,Outer, OEM # 7N-1904
Rotator	Both	161-1069	OEM # 197-6999

CATERPILLAR / HEAVY DUTY (Cont'd)

122 5266 C.I., (86.3L), G3520, 80 Valve, Gas
V20 5266 CID

G3520
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184; NOTE: S/N GDB1-99999, CWW1-Up
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Stem Seal	Both	122-1436	Positive Type,Viton Material,Top Hat Style,OEM # 228-9673
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3139	0.3730 I.D.,4.055 Length,0.6890 O.D.,OEM # 191-6766; W/ Step For Stem Seal, W/ Oil Baffle, +10, +20 O/S Available
	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Step For Stem Seal, W/ Counterbore, W/ Oil Baffle, +5, +10 & +20 O/S Available
		140-3140	0.3730 I.D.,3.620 Length,0.6890 O.D.,OEM # 206-1541; +10, +20 O/S Available
		140-3195	0.3733 I.D.,3.625 Length,0.6888 O.D.,OEM # 255-0897; W/ Step For Stem Seal, W/ Oil Baffle
Spring	Both	160-1396	2.075 Length,OEM # 7N1903, Inner
		160-1397	2.500 Length,OEM # 7N1904, Outer
Rotator	Both	161-1069	OEM # 133-3814, 197-6999

123 5266 C.I., (86.3L), G3520B, 80 Valve, Gas
V20 5266 CID

G3520B
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2388E-2N	2.388 O.D.,1.890T I.D.,0.4600 Depth,OEM # 266-8718
	Exh	SB2368E-2N	2.368 O.D.,1.890 I.D.,0.4600 Depth,OEM # 191-6760
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Guide	Int	140-3139	0.3730 I.D.,4.055 Length,0.6890 O.D.,OEM # 191-6766
	Exh	140-3140	0.3730 I.D.,3.620 Length,0.6890 O.D.,OEM # 206-1541
		140-3195	0.3733 I.D.,3.625 Length,0.6888 O.D.,OEM # 255-0897; W/ Oil Baffle
Spring	Both	160-1396	2.075 Length,Inner, OEM # 7N-1903
		160-1397	2.500 Length,Outer, OEM # 7N-1904
Rotator	Both	161-1069	OEM # 197-6999

124 5266 C.I., (86.3L), G3520C, 80 Valve, Gas
V20 5266 CID

G3520C
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Stem Seal	Int	122-1436	Positive Type,Viton Material,Top Hat Style,OEM # 228-9673; NOTE: Landfill Gas, Type 1
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Counterbore, W/ Oil Baffle, +5, +10 & +20 O/S Available
Spring	Both	160-1460	2.425 Length,Inner, OEM # 194-4902; NOTE: Type 1
		160-1461	3.030 Length,Outer, OEM # 194-4901, 218-2935; NOTE: Type 1
		160-1676	2.840 Length,Inner, OEM # 316-5977; NOTE: Type 2
		160-1677	3.017 Length,Outer, OEM # 316-5976; NOTE: Type 2
Rotator	Both	161-1077	OEM # 316-5977; NOTE: Type 2

(Cont'd) **CATERPILLAR / HEAVY DUTY**

5266 C.I., (86.3L), G3520E, 80 Valve, Gas
V20 5266 CID

G3520E 125
BORE - 170mm/6.70"

PART		PART NO.	NOTES
Valve	Both	01584S	2.205 Head Diameter,Stellite Face,OEM # 104-7184
Keeper	Both	121-1000	2 RD Bead Type,OEM # 2A-4429
Stem Seal	Int	122-1436	Positive Type,Viton Material,Top Hat Style,OEM # 228-9673; NOTE: Landfill Gas, Type 1
Guide	Int	140-3036	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5495, W/ Step For Stem Seal, W/ Oil Baffle, +5, +10 & +20 O/S Available
	Exh	140-3035	0.3715 I.D.,4.050 Length,0.6883 O.D.,OEM # 184-5494, W/ Counterbore, W/ Oil Baffle, +5, +10 & +20 O/S Available
Spring	Both	160-1460	2.425 Length,Inner, OEM # 194-4902; NOTE: Type 1
		160-1461	3.030 Length,Outer, OEM # 194-4901, 218-2935; NOTE: Type 1
		160-1676	2.840 Length,Inner, OEM # 316-5977; NOTE: Type 2
		160-1677	3.017 Length,Outer, OEM # 316-5976; NOTE: Type 2
Rotator	Int	161-1077	OEM # 316-5977; NOTE: Type 2

7143 C.I., (117.0L), 3524B, 96 Valve, Turbo, Diesel
V24 7143 CID

3524B 126
BORE - 170.2mm/6.70"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB2366E-2N	2.366 O.D.,1.977 I.D.,0.3920 Depth,OEM # 130-2608
Valve	Int	01804	2.205 Head Diameter,OEM # 121-2028 & 210-2542, 20 Degree Seat
	Exh	01805S	2.205 Head Diameter,Stellite Face,OEM # 121-9835, W/.372 Stem
		02168S	2.205 Head Diameter,Stellite Face,OEM # 194-4897, 443-2712, W/.495 Stem
Keeper	Exh	121-1095	1 SQ Bead Type,OEM # 197-7055, W/.495 Stem Dia.
	Both	121-1000	2 RD Bead Type,OEM # 2A4429, W/ 3/8 Stem Dia.
Stem Seal	Int	122-1302	Positive Type,Viton Material,Top Hat Style,OEM # 137-6856 & 197-7006; NOTE: Use W/ 140-8679 Valve Guide
Guide	Exh	140-3042	0.4977 I.D.,4.055 Length,0.6886 O.D.,OEM # 197-6995, W/.495 Stem Dia., +5 O/S Available
	Both	140-8679	0.3735 I.D.,4.060 Length,0.6885 O.D.,OEM # 133-9306, W/ 3/8 Stem Dia., +5 O/S Available
Spring	Both	160-1460	2.425 Length,OEM # 194-4902, Inner
		160-1461	3.030 Length,OEM #'s 194-4901 & 281-6157, Outer
Rotator	Int	161-1067	OEM # 197-7062, W/ 3/8 Stem Dia., NOTE: Use W/ Spring #'s 160-1460 Inner & 160-1461 Outer
	Exh	161-1068	OEM # 197-7063, W/ .495 Stem Dia., NOTE: Use W/ Spring #'s 160-1460 Inner & 160-1461 Outer

CHRYSLER / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
83 C.I., (1.4L), SOHC, GAS, FI, 16 Valve, Vin H, EAF "Turbo MultiAir" (2013-16)	Dart	1
1397cc, (1.4L), OHV, GAS, FI, 8 Valve, Vin D, E "C35 Renault" (1984-87)	Alliance, Encore	2
1410cc, (1.4L), SOHC, GAS, CARB, 8 Valve, Vin 2, A, J "G12B Mitsubishi" (1979-84)	Champ, Colt	3
1468cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin K "G15B Mitsubishi" (1985-88)	Colt	4
1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin P, X "4G15 Mitsubishi" (1988-90)	Colt	5

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1468cc, (1.5L), SOHC, GAS, FI, Vin A, K, "4G15 Mitsubishi" (1991-96)	Colt, Summit, Vista	6
1597cc, (1.6L), DOHC, GAS, FI, Vin F, Z "4G61 Turbo Mitsubishi" (1989-90)	Colt Turbo	7
1597cc, (1.6L), DOHC, GAS, FI, Vin Y "4G61 Mitsubishi" (1989-90)	Colt, Summit	8
1597cc, (1.6L), SOHC, GAS, CARB, Vin K, "4G32 Mitsubishi" (1971-78)	Arrow, Challenger, Colt, Sapporo	9
1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 3, B, K "G32B Mitsubishi" (1977-84)	Arrow, Challenger, Champ, Colt, Horizon, Sapporo, Turismo	10
1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin F "G32B Turbo Mitsubishi" (1984-88)	Colt	11
1721cc, (1.7L), SOHC, GAS, CARB, 8 Valve, Vin A, B "Volkswagen" (1978-83)	Charger, Horizon, Omni, TC3, Turismo	12
1755cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, T "4G37 Mitsubishi" (1989-94)	Colt, Laser, Talon	13
110 C.I., (1.8L), DOHC, GAS, FI, 16 Valve, Vin C "GEMA" (2007-09)	Caliber	14
1834cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin C, D "4G93 Mitsubishi" (1992-96)	Colt, Summit	15
1983cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin G, K "Audi" (1977-79)	Concord, Gremlin, Spirit	16
1995cc, (2.0L), SOHC, GAS, CARB, Vin 5, U, "G52B Mitsubishi" (1974-82)	Arrow, Arrow Pickup, Colt, D50	17
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y (1995-99)	Avenger, Neon, Sebring, Talon	18
122 C.I., (2.0L), SOHC, GAS, FI, 16 Valve, Vin C, F, ECB (1995-05)	Breeze, Neon, Stratus, SX 2.0	19
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 0, A, B, "ECN GEMA" (2007-17)	Caliber, Compass, Patriot	20
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, "ECK Tigershark" (2013-16)	Dart	21
1997cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin 5, D "G63B Mitsubishi" (1983-88)	Colt, Power Ram 50, Ram 50	22
1997cc, (2.0L), SOHC, GAS, FI, Vin V "G63B Mitsubishi" (1989-91)	2000 GTX, Colt	23
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin E, F, R, U, EBG "4G63 Mitsubishi" (1990-94)	Laser, Talon	24
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, U, EBG "4G63 Turbo Mitsubishi" (1990-98)	Laser, Talon	25
134 C.I., (2.2L), L-HEAD, GAS, CARB, 8 Valve, "AMC" (1939-62)	Dispatcher, DJ3, FC150, FC170, Universal, Universal Truck, Willys	26
134 C.I., (2.2L), F-HEAD, GAS, CARB, 8 Valve "AMC" (1950-71)	475, CJ3, CJ5, CJ6, Commando, Dispatcher, DJ5, DJ6, F-134, F4, F4-134, FA-134, FC150, FC170, FJ3, FJ3A, Jeepster, Truck, Universal, Universal Truck, Utility, Utility Wagon, Willys	27
135 C.I., (2.2L), SOHC, GAS, CARB, 8 Valve, Vin 8, B, C, F (1981-87)	400, 600, Aries, Charger, E Class, Horizon, LeBaron, New Yorker, Omni, Reliant, Scamp, TC3, Town & Country, Turismo, Turismo 2.2	28

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
135 C.I., (2.2L), SOHC, GAS, FI, 8 Valve, Vin A, C, E, P "TURBO" (1984-90)	Daytona, E Class, Executive Limousine, Laser, LeBaron, New Yorker, TC Maserati, Town & Country	29
135 C.I., (2.2L), SOHC, GAS, FI, 8 Valve, Vin D (1984-94) ..	600, Aries, Caravelle, Daytona, E Class, Expo, Horizon, Lancer, Laser, LeBaron, New Yorker, Omni, Reliant, Shadow, Sundance	30
2346cc, (2.3L), SOHC, DIESEL, FI, 8 Valve, Vin 9, J "4D55T Turbo Mitsubishi" (1983-85)	Power Ram 50, Ram 50	31
2351cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin G, W "G64B Mitsubishi" (1990-93)	Colt, Ram 50	32
2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G "4G64 Mitsubishi" (1993-96)	Summit	33
2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G "4G64 Mitsubishi" (2001-05)	Sebring, Stratus	34
144 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin F "Turbo SRT-4" (2008-09)	Caliber SRT-4 Turbo	35
144 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin B, J, K, W, ED3, EDG "GEMA" (2007-17)	200, Avenger, Caliber, Compass, Journey, Patriot, Sebring	36
144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, ED6 "Multiair 2" (2015-17)	200	37
144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, ED6 "Multiair 2" (2013-16)	Dart	38
144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, ED6 "Tigershark" (2014-17)	Cherokee	39
144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin T, ED6 "Tigershark" (2015-17)	ProMaster City, Renegade	40
144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, ED8 "Multiair 2 PZEV" (2015-17)	200	41
144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, ED8 "Multiair 2 PZEV" (2015-16)	Dart	42
144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, ED8 "Tigershark" (2015-17)	Cherokee	43
148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 1 "Jeep Power-Tech" (2002-06)	Liberty, TJ, Wrangler	44
148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 9, B, J, X, EDZ (1995-10)	Breeze, Caravan, Cirrus, Grand Caravan, Grand Voyager, PT Cruiser, Sebring, Stratus, Voyager	45
148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 8, E, G, S "TURBO EDV/EDT" (2003-09)	Neon, PT Cruiser	46
150 C.I., (2.5L), OHV, GAS, CARB, FI, 8 Valve, Vin E, H, P, U "AMC" (1983-02)	Cherokee, CJ7, Comanche, Scrambler, TJ, Wagoneer, Wrangler	47
151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin B "GM" (1980-83)	CJ5, CJ7, DJ5, Scrambler	48
153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin K (1986-95) ..	600, Aries, Caravan, Daytona, Dynasty, Executive Limousine, Grand Caravan, Grand Voyager, Lancer, Laser, LeBaron, Mini Ram, New Yorker, Shadow, Spirit, Town & Country, Voyager ..	50
153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin J "TURBO" (1989-92)	Acclaim, Daytona, Lancer, LeBaron, Shadow, Spirit, Sundance ..	51
2555cc, (2.6L), SOHC, GAS, CARB, 8 Valve, Vin 7, D, E, F, G, W "G54B Mitsubishi" (1978-89)	400, 600, Aries, Arrow, Arrow Pickup, Caravan, Caravelle, Challenger, Colt, D50, E Class, Executive Limousine, Executive Sedan, LeBaron, Mini Ram, New Yorker, Power Ram 50, Raider, Ram 50, Reliant, Sapporo, Town & Country, Voyager	52

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
2555cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin H, N "G54B Turbo Mitsubishi" (1984-89)	Conquest Turbo	53
2998cc, (3.0L), DOHC, DIESEL, FI, 16 Valve, Vin D, EXG "FIAT/IVECO" (2014-17)	ProMaster 1500, ProMaster 2500, ProMaster 3500	64
5 Cylinder		
2705cc, (2.7L), DOHC, DIESEL, FI, 20 Valve, Vin 1, 2, 4 "OM612/OM647 Mercedes" (2003-06)	Sprinter 2500, Sprinter 3500	54
6 Cylinder		
2497cc, (2.5L), SOHC, GAS, FI, 24 Valve, Vin H, N "6G73 Mitsubishi" (1995-00)	Avenger, Cirrus, Sebring, Stratus	49
167 C.I., (2.7L), DOHC, FLEX, GAS, FI, 24 Valve, Vin D, R, T, U, EER (1998-10)	300, Avenger, Charger, Concorde, Intrepid, Magnum, Sebring, Stratus	55
170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve (1960-69)	A100, A100 Truck, A108 Van, Barracuda, D100 Series, Dart, Lancer, P100, P100 Van, P200, P200 Van, Polara, Valiant	56
173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin W "GM" (1984-86)	Cherokee, Comanche, Wagoneer	57
2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 3, H, S "6G72" (1987-00)	Acclaim, Caravan, Daytona, Dynasty, Grand Caravan, Grand Voyager, LeBaron, Mini Ram, New Yorker, Shadow, Spirit, Stealth, Sundance, TC Maserati, Voyager	58
2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin B, J "6G72 Mitsubishi" (1991-96)	Stealth	59
2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, K, "6G72 Turbo Mitsubishi" (1991-96)	Stealth	60
2972cc, (3.0L), SOHC, GAS, FI, 24 Valve, Vin H "6G72 Mitsubishi" (2001-05)	Sebring, Stratus	61
2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin J, U "Renault" (1988-92)	Monaco, Premier	62
2987cc, (3.0L), DOHC, TURBO, DIESEL, FI, 24 Valve, Vin 5, M, EXM "OM642 Mercedes" (2007-09)	Grand Cherokee, Sprinter 2500, Sprinter 3500	63
196 C.I., (3.2L), GAS, CARB "AMC" (1957-65)		65
197 C.I., (3.2L), SOHC, GAS, FI, 24 Valve, Vin J (1998-01)	Concorde, Intrepid	66
198 C.I., (3.2L), DOHC, GAS, FI, 24 Valve, Vin S, EHB "Pentastar" (2014-15)	Cherokee	67
198 C.I., (3.2L), OHV, GAS, CARB, Vin A, B (1970-74)	A100 Truck, A108 Van, B100 Van, B200 Van, Barracuda, Challenger, D100 Pickup, Dart, Duster, Scamp, Valiant	68
199 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin A, B, E, J, P "AMC" (1965-70)	Ambassador, American, Classic, Gremlin, Hornet, Marlin, Rambler, Rebel	69
201 C.I., (3.3L), OHV, FLEX, GAS, FI, 12 Valve, Vin 3, E, G, H, R, T, U (1990-10)	Caravan, Concorde, Dynasty, Grand Caravan, Grand Voyager, Imperial, Intrepid, New Yorker, Town & Country, Voyager	70
215 C.I., (3.5L), SOHC, GAS, FI, 24 Valve, Vin 4, F, G, K, M, V (1993-10)	300, 300M, Avenger, Challenger, Charger, Concorde, Intrepid, Journey, LHS, Magnum, New Yorker, Pacifica, Prowler, Sebring 71	
218 C.I., (3.6L), L-HEAD, GAS, CARB, 12 Valve (1949-54)	Belvedere, Cambridge, Concord, Cranbrook, Deluxe, Plaza, Savoy, Special Deluxe, Suburban	72
220 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin G, ERB (2011-17)	1500, 200, 300, Avenger, C/V, Challenger, Charger, Durango, Grand Caravan, Grand Cherokee, Journey, ProMaster 1500, ProMaster 2500, ProMaster 3500, Town & Country, Wrangler	73

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

Engine	Models	Line No.
6 Cylinder		
225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve, Vin 6, B, C, D, E, F, G, H, J, K, L, M, N, P, W, X (1960-87)	330, 440, 6-226, A100, A100 Truck, A108 Van, Aspen, B100, B100 Van, B150, B200, B200 Van, B250, B300, B300 Van, Barracuda, Belvedere, Belvedere II, Caravelle, CB300, Challenger, Charger, CJ3, CJ5, CJ5A, CJ6, CJ6A, Commando, Cordoba, Coronet, Custom, D100, D100 Panel, D100 Pickup, D100 Series, D150, D200, D200 Pickup, D200 Series, D250, D300, D300 Pickup, D300 Series, D350, Dart, Diplomat, Dispatcher, DJ5, DJ6, Duster, FC150, FC170HD, Fifth Avenue, Fleet Special, Fury, Fury I, Fury II, Fury III,	74
225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve "GM" (1965-71)	CJ3, CJ5, CJ6, Commando, Dispatcher, DJ5, DJ6, Jeepster, Universal Truck	75
226 C.I., (3.7L), SOHC, GAS, FI, 12 Valve, Vin K (2002-12) .	1500, Commander, Dakota, Durango, Grand Cherokee, Liberty, Nitro, Ram 1500	76
226 C.I., (3.7L), L-HEAD, GAS, CARB, 12 Valve (1962-65) . .	6-226, FC150, FC170, Truck, Utility, Utility Wagon	77
230 C.I., (3.8L), L-HEAD, GAS, CARB (1946-59)	Coronet, Custom, Deluxe, Meadowbrook, Wayfarer	78
232 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin B, C, E, F, G, L, M, P, Q, S, T, V, W (1964-79)	Ambassador, American, Classic, Concord, Gremlin, Hornet, Javelin, Marlin, Matador, Pacer, Rambler, Rebel, Spirit	79
230 C.I., (3.8L), OHV, FLEX, GAS, FI, 12 Valve, Vin 1, L, P, EGH (1991-11)	Caravan, Grand Caravan, Grand Voyager, Imperial, New Yorker, Pacifica, Town & Country, Voyager, Wrangler	80
236 C.I., (3.9L), GAS, CARB, 12 Valve (1942-52)	Dodge	81
237 C.I., (3.9L), GAS, CARB, 12 Valve (1942-52)	Dodge	82
239 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin M (1987-87)	Dakota	83
239 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin X (1988-03) . .	B150, B1500, B250, B2500, D100, D150, D250, Dakota, Durango, Ram 1500, Ram 1500 Van, Ram 2500 Van, W100, W150	84
241 C.I., (4.0L), SOHC, GAS, FI, 24 Valve, Vin 6, X (2007-11)	Grand Caravan, Nitro, Pacifica, Town & Country	85
242 C.I., (4.0L), OHV, GAS, FI, 12 Valve, Vin L, M, S "JEEP" (1987-06)	Cherokee, Comanche, Grand Cherokee, TJ, Wagoneer, Wrangler	86
251 C.I., (4.1L), L-HEAD, GAS, CARB, 12 Valve (1950-68) . .	M300, P100, P200, P300, Truck, W300 Pickup, W300 Series, Wm300 Pickup, Wm300 Power Wagon	88
258 C.I., (4.2L), OHV, GAS, CARB, Vin A, B, C, M, T "AMC" (1971-90)	Ambassador, AMX, Cherokee, CJ5, CJ6, CJ7, Commando, Concord, DJ5, Eagle, Grand Wagoneer, Gremlin, Hornet, J10, J-100, J20, J-2500, J-2600, J-3800, J-4500, J-4600, J-4700, J-4800, Javelin, Jeepster, Matador, Pacer, Scrambler, Spirit, Wagoneer, Wrangler	89
265 C.I., (4.3L), GAS, CARB, 12 Valve (1951-60)	Dodge	90
359 C.I., (5.9L), OHV, DIESEL, FI, 12 Valve, Vin 8, C, D "Cummins 6B Turbo" (1989-98)	D250, D350, Ram 2500, Ram 3500, W250, W350	109
359 C.I., (5.9L), OHV, DIESEL, FI, 24 Valve, Vin 6, 7, C "Cummins ISB Turbo" (1998-09)	Ram 2500, Ram 3500	110
408 C.I., (6.7L), OHV, DIESEL, FI, 24 Valve, Vin A, L "Cummins ISB Turbo" (2007-17)	2500, 3500, 4500, 5500, Ram 2500, Ram 3500, Ram 4500, Ram 5500	127
8 Cylinder		
250 C.I., (4.1L), GAS, CARB "AMC" (1959-61)	Rebel	87
270 C.I., (4.4L), OHV, GAS, CARB, 16 Valve (1955-56)	Belvedere, Fury, Plaza, Savoy, Suburban	91

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
8 Cylinder		
273 C.I., (4.5L), OHV, GAS, CARB, 16 Valve (1964-67)	330, A100 Truck, Charger, Coronet, Dart, Polara	92
277 C.I., (4.5L), OHV, GAS, CARB (1956-57)	Belvedere, Plaza, Savoy, Suburban	93
287 C.I., (4.7L), OHV, GAS, CARB, 16 Valve, Vin H, N, T "AMC" (1963-66)	Ambassador, Classic, Marlin, Rebel	94
287 C.I., (4.7L), SOHC, FLEX, GAS, FI, 16 Valve, Vin J, N, P (1999-13)	1500, Aspen, Commander, Dakota, Durango, Grand Cherokee, Ram 1500	95
290 C.I., (4.8L), GAS, CARB, Vin M, N "AMC" (1967-69)	Ambassador, AMX, Rebel	96
303 C.I., (5.0L), GAS, CARB (1956-56)	Pickup, Van	97
304 C.I., (5.0L), OHV, GAS, CARB, Vin H, I, M "AMC" (1970-81)	Ambassador, AMX, CJ5, CJ6, CJ7, Commando, Concord, Gremlin, Hornet, J-100, J-2500, J-2600, J-4500, J-4600, J-4700, J-4800, Javelin, Jeepster, Matador, Pacer, Rebel, Spirit, Wagoneer	98
318 C.I., (5.2L), OHV, GAS, CARB, "Motor Home" (1969-75)	Motor Home Applications	99
318 C.I., (5.2L), OHV, GAS, CARB, 16 Valve, Vin 8, E, G, P, R, T, U "TRUCK" (1959-87)	A100, A100 Truck, B100, B100 Van, B150, B200, B200 Van, B250, B300, B300 Van, B350, CB300, D100, D100 Pickup, D100 Series, D150, D200, D200 Pickup, D200 Series, D250, D300, D300 Pickup, D300 Series, D350, M300, M350, MB300, P300 Series, P310 Series, P320 Series, P410 Series, P420 Series, P450 Series, PB100, PB100 Van, PB150, PB200, PB200 Van, PB250, PB300, PB300 Van, PB350, R300, Ramcharger, RD200, RM300, RM350, Truck, W100, W100 Pickup, W100 Series, W150, W200, W200 Pickup, W200 Series, W250, W	100
318 C.I., (5.2L), OHV, GAS, CARB, FI, 16 Valve, Vin 4, E, F, G, H, J, K, L, M, N, P, R, S, Z (1957-89)	330, 440, Aspen, Barracuda, Belvedere, Belvedere II, Caravelle, Challenger, Charger, Cordoba, Coronet, Cuda, Custom, Dart, Diplomat, Duster, Fifth Avenue, Fleet Special, Fury, Fury I, Fury II, Fury III, Gran Fury, GTX, Imperial, LeBaron, Magnum, Matador, Mirada, Monaco, New Yorker, Newport, Phoenix, Pioneer, Plaza, Polara, Roadrunner, Royal Monaco, Satellite, Savoy, Scamp, Seneca, Sport Wagon, St. Regis, Suburban, Town & Country, Valiant, VIP, Volare	101
318 C.I., (5.2L), OHV, GAS, FI, 16 Valve, Vin Y "TRUCK" (1988-03)	B150, B1500, B250, B2500, B350, B3500, D100, D150, D250, Dakota, Durango, Grand Cherokee, Grand Wagoneer, Ram 1500, Ram 1500 Van, Ram 2500, Ram 2500 Van, Ram 3500 Van, Ramcharger, W100, W150, W250	102
326 C.I., (5.3L), OHV, GAS, CARB, 16 Valve (1959-59)	Coronet, Custom, Lancer	103
327 C.I., (5.4L), GAS, CARB "AMC" (1960-68)	Ambassador, J-100, J-2500, J-2600, J-2700, J-2800, J-3500, J-3600, J-3700, J-3800	104
340 C.I., (5.6L), OHV, GAS, CARB, Vin H, J, P (1968-73)	Barracuda, Belvedere, Challenger, Charger, Coronet, Cuda, Dart, Duster, Polara, Roadrunner, Satellite, Valiant	105
343 C.I., (5.6L), OHV, GAS, CARB, Vin J, K, Q, R, S, T, V, W, X, Z "AMC" (1967-69)	Ambassador, American, AMX, Javelin, Marlin, Rambler, Rebel	106
345 C.I., (5.7L), OHV, ELECTRIC/GAS, FLEX, GAS, FI, 16 Valve, Vin 2, D, H, T "HEMI" (2003-17)	1500, 2500, 300, 3500, Aspen, Challenger, Charger, Commander, Durango, Grand Cherokee, Magnum, Ram 1500, Ram 2500, Ram 3500	107
354 C.I., (5.8L), OHV, GAS, CARB (1956-56)	300, Imperial, New Yorker, Newport, St Regis, Town & Country	108
360 C.I., (5.9L), OHV, GAS, CARB, Vin 7, N, P "AMC" (1970-91)	Ambassador, AMX, Cherokee, Grand Wagoneer, Hornet, J10, J-100, J20, J-2500, J-2600, J-3800, J-4500, J-4600, J-4700, J-4800, Javelin, Matador, Rebel, Wagoneer	111

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
8 Cylinder		
360 C.I., (5.9L), OHV, CARB (1975-77)	Series 500, 600	112
360 C.I., (5.9L), OHV, CARB "MOTOR HOME" (1976-79) ..	Motor Home	113
360 C.I., (5.9L), OHV, GAS, CARB, Vin J, K, L (1971-80) ...	Aspen, Barracuda, Caravelle, Challenger, Charger, Cordoba, Coronet, Cuda, Dart, Diplomat, Duster, Fury, Fury I, Fury II, Fury III, Gran Fury, LeBaron, Magnum, Mirada, Monaco, New Yorker, Newport, Polara, Roadrunner, Royal Monaco, Satellite, St. Regis, Town & Country, Valiant, Volare	114
360 C.I., (5.9L), OHV, GAS, CARB, Vin 1, 5, F, K, S, T, U, W, Y "TRUCK" (1971-88)	B100, B100 Van, B200, B200 Van, B250, B300, B300 Van, B350, CB300, D100, D100 Pickup, D150, D200, D200 Pickup, D250, D300, D300 Pickup, D350, D400, D450, P200, P300, Ramcharger, RD200, W100, W100 Pickup, W150, W200, W200 Pickup, W250, W300, W300 Pickup, W350	115
360 C.I., (5.9L), OHV, GAS, FI, 16 Valve, Vin 5, Z "TRUCK" (1989-03)	B1500, B250, B2500, B350, B3500, D150, D250, D350, Dakota, Durango, Grand Cherokee, Ram 1500, Ram 1500 Van, Ram 2500, Ram 2500 Van, Ram 3500, Ram 3500 Van, Ramcharger, W150, W250, W350	116
361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin F (1959-66)	880, Barracuda, Belvedere, Belvedere II, Charger, Coronet, Custom, Dart, Fleet Special, Fury, Lancer, Matador, Newport, Phoenix, Pioneer, Polara, Royal, Satellite, Savoy, Seneca, Sierra, Sport Wagon, Suburban, Town & Country	117
361 C.I., (5.9L), GAS, CARB, "TRUCK" (1960-77)	Truck	118
370 C.I., (6.1L), OHV, GAS, FI, 16 Valve, Vin 3, W "HEMI" (2005-10)	300, Challenger, Charger, Grand Cherokee, Magnum	119
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 9, ESD "Supercharged HEMI" (2015-17)	Challenger SRT Hellcat, Charger SRT Hellcat	120
383 C.I., (6.3L), OHV, GAS, CARB, 16 Valve, Vin 8, G, H, J, L, N (1959-71)	330, 440, 880, Barracuda, Belvedere, Belvedere II, Challenger, Charger, Coronet, Cuda, Custom, D100 Pickup, D100 Series, D200 Pickup, D200 Series, D300 Pickup, D300 Series, Dart, Fleet Special, Fury, Fury I, Fury II, Fury III, GTX, Lancer, Matador, Monaco, Phoenix, Pioneer, Polara, Roadrunner, Royal, Satellite, Savoy, Seneca, Sierra, Sport Wagon, Suburban, VIP, W100 Pickup, W100 Series, W200 Pickup, W200 Series, W300 Pickup, W300 Series	121
390 C.I., (6.4L), OHV, GAS, CARB, Vin W, X, Y "AMC" (1968-70)	Ambassador, AMX, Javelin, Rambler, Rebel	122
392 C.I., (6.4L), OHV, GAS, CARB (1957-58)	300, Imperial, New Yorker, Newport, Town & Country	123
392 C.I., (6.4L), OHV, GAS, FI, 16 Valve, Vin J, "HEMI SRT-8" (2011-16)	2500, 300, 3500, 4500, 5500, Challenger, Charger, Grand Cherokee	124
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin J, M, N, P (1972-78)	B200, B200 Van, B300, B300 Van, CB300, Challenger, Charger, Coronet, D100, D100 Pickup, D150, D200, D200 Pickup, D300, D300 Pickup, Fury, Fury I, Fury II, Fury III, Gran Fury, Magnum, Monaco, PB200, PB300, Polara, Ramcharger, Roadrunner, Royal Monaco, Satellite, W100, W100 Pickup, W150, W200, W200 Pickup, W300, W300 Pickup	125
401 C.I., (6.6L), OHV, GAS, CARB, Vin Z "AMC" (1971-78) ..	Ambassador, Cherokee, J10, J20, Javelin, Matador, Wagoneer	126
413 C.I., (6.8L), OHV, GAS, CARB, 16 Valve (1959-65)	300, 880, Custom, Dart, Imperial, Lancer, Monaco, New Yorker, Newport, Polara, Town & Country	128

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
8 Cylinder		
426 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin H, J, R "HEMI" (1965-71)	880, Barracuda, Belvedere, Belvedere II, Challenger, Charger, Coronet, Cuda, Fury, Fury II, Fury III, GTX, Monaco, Polara, Roadrunner, Satellite, Superbird	129
440 C.I., (7.2L), OHV, GAS, CARB, Vin A, D, K, L, M, T, U, V (1966-78)	300, B100 Van, B200, B200 Van, B300, B300 Van, Barracuda, Belvedere, Belvedere II, CB300, Challenger, Charger, Coronet, Cuda, D100, D100 Pickup, D150, D200, D200 Pickup, D300, D300 Pickup, D400, D450, Fury, Fury I, Fury II, Fury III, Gran Fury, GTX, Imperial, M300, M350, MB300, Monaco, New Yorker, Newport, PB200, PB200 Van, PB300, PB300 Van, Polara, Ramcharger, Roadrunner, Royal Monaco, Satellite, Superbird, Town & Country, Trailduster, VIP, W100, W100 Pickup, W150, W200, W200 Pickup, W300, W300	130
440 C.I., (7.2L), OHV, GAS, CARB, Vin A, D (1973-79)	B100 Van, B200, B200 Van, B300, B300 Van, CB300, D100, D100 Pickup, D150, D200, D200 Pickup, D300, D300 Pickup, D400, D450, M300, M350, MB300, PB200, PB200 Van, PB300, PB300 Van, Ramcharger, W100, W100 Pickup, W150, W200, W200 Pickup, W300, W300 Pickup	131
478 C.I., (7.8L), GAS, CARB (1969-77)		132
10 Cylinder		
488 C.I., (8.0L), OHV, GAS, FI, 20 Valve, Vin E "CAR" (1992-02)	Viper	133
488 C.I., (8.0L), OHV, GAS, FI, 20 Valve, Vin W (1994-03) ..	Ram 2500, Ram 3500	134
505 C.I., (8.3L), OHV, GAS, FI, 20 Valve, Vin H (2004-06) ...	Ram 1500	135
515 C.I., (8.4L), OHV, GAS, FI, 20 Valve, Vin Z (2008-17) ...	Viper	136

1 83 C.I., (1.4L), SOHC, GAS, FI, 16 Valve, Vin H, EAF "Turbo MultiAir" CHR1.4-EAF
2013-16 L4 83 CID BORE - 71.9mm/2.83"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2013-16	121-1098	3 RD Bead Type
Stem Seal	Both	2013-16	122-1363	Positive Type,Viton Material,Metal Clad Style

2 1397cc, (1.4L), OHV, GAS, FI, 8 Valve, Vin D, E "C35 Renault" 1.4-C35
1984-87 L4 85 CID BORE - 76mm/2.99"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-87	SB1437-53	1 ⁷ / ₁₆ O.D.,1.090T I.D.,0.3540 Depth
	Exh	1984-87	SB1250-53	1 ¹ / ₄ O.D.,1.024 I.D.,0.2570 Depth

3 1410cc, (1.4L), SOHC, GAS, CARB, 8 Valve, Vin 2, A, J "G12B Mitsubishi" CHR G12B
1979-84 L4 86 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1979-84	SB1312-53	1 ⁵ / ₁₆ O.D.,0.980T I.D.,0.2930 Depth
Keeper	Both	1979-84	121-1031	1 RD Bead Type
Guide	Exh	1979-84	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

4 1468cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin K "G15B Mitsubishi" CHR G15B-CA
1985-88 L4 90 CID BORE - 75.5mm/2.97"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1985-88	SB1312-53	1 ⁵ / ₁₆ O.D.,0.980T I.D.,0.2930 Depth
Keeper	Both	1985-88	121-1031	1 RD Bead Type
Stem Seal	Both	1985-88	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1985-88	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin P, X "4G15 Mitsubishi" **CHR4G15-8V** **5**
1988-90 L4 90 CID **BORE - 75.5mm/2.97"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-90	SB1437-63	1 ⁷ / ₁₆ O.D.,1.181T I.D.,0.2800 Depth
	Exh	1988-90	SB1312-53	1 ⁵ / ₁₆ O.D.,0.980T I.D.,0.2930 Depth
Keeper	Both	1988-90	121-1031	1 RD Bead Type
Stem Seal	Both	1988-90	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1988-90	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

1468cc, (1.5L), SOHC, GAS, FI, Vin A, K, "4G15 Mitsubishi" **CHR4G15-12V** **6**
1991-96 L4 90 CID **BORE - 75.5mm/2.97"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-96	SB1125-52	1 ¹ / ₈ O.D.,0.825T I.D.,0.2850 Depth,Use W/ Valve # 10495
		1991-96	SB1312-62	1 ⁵ / ₁₆ O.D.,1.065T I.D.,0.2850 Depth,Use W/ Valve # 10496
	Exh	1991-96	SB1437-61	1 ⁷ / ₁₆ O.D.,1.162 I.D.,0.3100 Depth
Valve	Int	1991-96	10495	1.023 Head Diameter
		1991-96	10496	1.220 Head Diameter
	Exh	1991-96	10497	1.299 Head Diameter
Keeper	Both	1991-96	121-1031	1 RD Bead Type
Stem Seal	Both	1991-96	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1991-96	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

1597cc, (1.6L), DOHC, GAS, FI, Vin F, Z "4G61 Turbo Mitsubishi" **CHR4G61-T** **7**
1989-90 L4 98 CID **BORE - 82.3mm/3.24"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-90	SB1437-68	1 ⁷ / ₁₆ O.D.,1.135T I.D.,0.3160 Depth
	Exh	1989-90	SB1312-64	1 ⁵ / ₁₆ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1989-90	10126A	1.339 Head Diameter,Nitride
		1989-90	10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1989-90	10128A	1.201 Head Diameter,Nitride
		1989-90	10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1989-90	121-1031	1 RD Bead Type
Stem Seal	Both	1989-90	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1989-90	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1989-90	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1989-90	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1989-90	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1989-90	VL135	Hydraulic Lash Adjuster Type

1597cc, (1.6L), DOHC, GAS, FI, Vin Y "4G61 Mitsubishi" **CHR4G61** **8**
1989-90 L4 98 CID **BORE - 82.3mm/3.24"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-90	SB1437-68	1 ⁷ / ₁₆ O.D.,1.135T I.D.,0.3160 Depth
	Exh	1989-90	SB1312-64	1 ⁵ / ₁₆ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1989-90	10126A	1.339 Head Diameter,Nitride
		1989-90	10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1989-90	10128A	1.201 Head Diameter,Nitride
		1989-90	10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1989-90	121-1031	1 RD Bead Type

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

8 1597cc, (1.6L), DOHC, GAS, FI, Vin Y "4G61 Mitsubishi" CHR4G61
 (cont.) 1989-90 L4 98 CID BORE - 82.3mm/3.24"

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1989-90 122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1989-90 140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1989-90 340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1989-90 140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1989-90 340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1989-90 VL135	Hydraulic Lash Adjuster Type

9 1597cc, (1.6L), SOHC, GAS, CARB, Vin K, "4G32 Mitsubishi" CHR4G32
 1971-78 L4 98 CID BORE - 76.9mm/3.03"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1971-78 SB1562-50	1 ¹ / ₁₆ O.D.,1.260T I.D.,0.2800 Depth
	Exh	1971-78 SB1375-51	1 ³ / ₈ O.D.,1.060T I.D.,0.2800 Depth
Valve	Int	1971-78 10076	1.488 Head Diameter,Square Groove
	Exh	1971-78 10083	1.220 Head Diameter,Square Groove
Keeper	Both	1971-78 121-1034	1 SQ Bead Type
Stem Seal	Both	1971-78 122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1971-78 140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh	1971-78 140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1971-78 160-1030	1.822 Length

10 1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 3, B, K "G32B Mitsubishi" CHRG32B-CA
 1977-84 L4 98 CID BORE - 76.9mm/3.03"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1977-84 SB1562-50	1 ¹ / ₁₆ O.D.,1.260T I.D.,0.2800 Depth
	Exh	1977-84 SB1375-51	1 ³ / ₈ O.D.,1.060T I.D.,0.2800 Depth
Valve	Int	1977-83 10076	1.488 Head Diameter,Square Groove,Square Groove
		1984-84 10127	1.496 Head Diameter,Round Groove,Round Groove
	Exh	1977-83 10083	1.220 Head Diameter,Square Groove,Square Groove
		1984-84 10129	1.220 Head Diameter,Round Groove,Round Groove
Keeper	Both	1977-83 121-1034	1 SQ Bead Type
	1984-84 121-1039	1 RD Bead Type	
Stem Seal	Both	1977-84 122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1977-84 140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh	1977-84 140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1977-84 160-1030	1.822 Length

11 1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin F "G32B Turbo Mitsubishi" CHRG32B-T
 1984-88 L4 98 CID BORE - 76.9mm/3.03"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-88 SB1562-50	1 ¹ / ₁₆ O.D.,1.260T I.D.,0.2800 Depth
	Exh	1984-88 SB1375-51	1 ³ / ₈ O.D.,1.060T I.D.,0.2800 Depth
Valve	Int	1984-88 10127	1.496 Head Diameter,Round Groove
	Exh	1984-88 10129	1.220 Head Diameter,Round Groove
Keeper	Both	1984-88 121-1039	1 RD Bead Type
Stem Seal	Both	1984-88 122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1984-88 140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh	1984-88 140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin F "G32B Turbo Mitsubishi" CHRG32B-T 11
1984-88 L4 98 CID BORE - 76.9mm/3.03" (cont.)

PART	YEARS	PART NO.	NOTES
Spring	Both 1984-88	160-1030	1.822 Length

1721cc, (1.7L), SOHC, GAS, CARB, 8 Valve, Vin A, B "Volkswagen" 1.7VW 12
1978-83 L4 105 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1978-83 Exh 1978-83 1978-83	SB1437-50 SB1312-50 SB1312-56	1 ⁷ / ₁₆ O.D.,1.140T I.D.,0.3050 Depth 1 ⁵ / ₁₆ O.D.,1.086T I.D.,0.3050 Depth 1 ⁵ / ₁₆ O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Keeper	Both 1978-83 1978-83	121-1020 121-1024	1 RD Bead Type 3 RD Bead Type
Stem Seal	Both 1978-83	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1978-83	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
Spring	Both 1978-83 1978-83	160-1028 160-1029	1.540 Length,Outer 1.390 Length,Inner

1755cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, T "4G37 Mitsubishi" CHR4G37 13
1989-94 L4 107 CID BORE - 80.6mm/3.17"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1989-94 Exh 1989-94	SB1750-59 SB1500-75	3/4 O.D.,1.360T I.D.,0.3150 Depth,Note: Machine to Correct Depth Once Installed 1 ¹ / ₂ O.D.,1.180 I.D.,0.3000 Depth
Keeper	Both 1989-94	121-1039	1 RD Bead Type
Stem Seal	Both 1989-94	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1989-94 Exh 1989-94	140-7576 140-7577	0.3150 I.D.,1.735 Length,0.5145 O.D. 0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available
Lifter	Both 1989-94	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim	1989-94	230-2085	New Hgt.- 3.484; Min. Hgt. 3.476

110 C.I., (1.8L), DOHC, GAS, FI, 16 Valve, Vin C "GEMA" CHR-1.8DC 14
2007-09 L4 110 CID BORE - 85.9mm/3.38"

PART	YEARS	PART NO.	NOTES
Valve	Int 2007-09 Exh 2007-09	13190 13191	1.378 Head Diameter 1.142 Head Diameter
Keeper	Both 2007-09	121-1060	1 RD Bead Type
Stem Seal	Both 2007-09	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both 2007-09	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.
Spring	Both 2007-09	160-1589	1.941 Length

1834cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin C, D "4G93 Mitsubishi" CHR4G93 15
1992-96 L4 112 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1993-96 Exh 1992-92 1993-96	SB1250-60 SB1187-51 SB1187-54	1 ¹ / ₄ O.D.,1.023T I.D.,0.2730 Depth 1 ³ / ₁₆ O.D.,0.905 I.D.,0.2570 Depth 1 ³ / ₁₆ O.D.,0.880 I.D.,0.2800 Depth
Valve	Int 1992-96 Exh 1992-96	10498 10499	1.181 Head Diameter 1.063 Head Diameter
Keeper	Both 1992-96	121-1096	1 RD Bead Type
Stem Seal	Both 1992-96	122-1252	Positive Type,Viton Material,Metal Clad Style

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

15 1834cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin C, D "4G93 Mitsubishi" CHR4G93
 (cont.) 1992-96 L4 112 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1992-96	140-8554	0.2355 I.D., 1.790 Length, 0.4360 O.D.
	Exh	1992-96	140-8571	0.2360 I.D., 1.990 Length, 0.4360 O.D.
Lifter	Both	1992-96	VL141	Hydraulic Lash Adjuster Type
Head Bolt Set		1992-96	220-1046	Torque To Yield, Services Engine

16 1983cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin G, K "Audi" AMC121
 1977-79 L4 121 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1977-79	SB1437-59	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.3050 Depth

17 1995cc, (2.0L), SOHC, GAS, CARB, Vin 5, U, "G52B Mitsubishi" CHRG52B
 1974-82 L4 122 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1974-82	SB1750-61	1 ³ / ₄ O.D., 1.445T I.D., 0.3100 Depth
	Exh	1974-82	SB1500-62	1 ¹ / ₂ O.D., 1.220T I.D., 0.3100 Depth
Valve	Int	1974-82	10065	1.689 Head Diameter, Square Groove
	Exh	1974-82	10064	1.376 Head Diameter, Square Groove
Keeper	Both	1974-82	121-1034	1 SQ Bead Type
Stem Seal	Both	1974-82	122-1086	Positive Type, Viton Material, Metal Clad Style, Use W/ .5145 O.D. Guide
Guide	Int	1974-82	140-7574	0.3150 I.D., 1.848 Length, 0.5145 O.D., +2 O/S Available
	Exh	1974-82	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, +2 & +6 O/S Available
Spring	Both	1974-82	160-1031	1.875 Length

18 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y 2.0NEON-DC
 1995-99 L4 122 CID BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1995-99	01730	1.370 Head Diameter, 1 Groove
	Exh	1995-99	01731	1.201 Head Diameter, 1 Groove
Keeper	Both	1995-99	121-1086	1 RD Bead Type
Stem Seal	Both	1995-99	122-1251	Positive Type, Viton Material, Top Hat Style
Guide	Both	1995-99	140-8556	0.2355 I.D., 1.735 Length, 0.4360 O.D., +2 O/S Available
Spring	Both	1995-99	160-1347	1.840 Length, Revised Spring, Must Be Installed As An Engine Set
Lifter	Both	1995-99	VL173	Hydraulic Lash Adjuster Type
Rocker Components	Both	1995-99	180-1324	Roller Cam Follower
Head Bolt Set		1995-99	220-1072	Torque To Yield, Services Engine
Head Saver Shim		1995-99	230-2083	New Hgt. - 5.4115 - 5.4193; Min. Hgt. 5.4035

19 122 C.I., (2.0L), SOHC, GAS, FI, 16 Valve, Vin C, F, ECB 2.0NEON-SC
 1995-05 L4 122 CID BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-05	SB1375-55	1 ³ / ₈ O.D., 1.120 I.D., 0.3250 Depth
	Exh	1995-05	SB1250-62	1 ¹ / ₄ O.D., 1.000 I.D., 0.3050 Depth
Valve	Int	1995-01	01741	1.309 Head Diameter, 1 Groove
		2001-05	01991	1.309 Head Diameter, 3 Groove
	Exh	1995-01	01742	1.130 Head Diameter, 1 Groove
		2001-05	01992	1.130 Head Diameter, 3 Groove

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK122 C.I., (2.0L), SOHC, GAS, FI, 16 Valve, Vin C, F, ECB
1995-05 L4 122 CID2.0NEON-SC **19**
BORE - 87.5mm/3.45" (cont.)

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1995-01	121-1086	1 RD Bead Type
		2001-05	121-1087	3 RD Bead Type
Stem Seal	Both	1995-05	122-1251	Positive Type,Viton Material,Top Hat Style
Guide	Both	1995-05	140-8555	0.2355 I.D.,1.835 Length,0.4360 O.D.,+2 O/S Available
Spring	Both	1995-05	160-1377	1.860 Length,Except ACR, R/T, H.O. Engines
Rocker Components	Int	1995-05	180-1321	Roller Cam Follower, Incl. Lash Adj.
	Exh	1995-05	180-1320	Roller Cam Follower, Incl. Lash Adj.
Head Bolt Set		1995-05	220-1074	Torque To Yield,Services Engine
Head Saver Shim		1995-05	230-2002	New Hgt.- 4.5680; Min. Hgt.- 4.5600

122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 0, A, B, "ECN GEMA"
2007-17 L4 122 CID2.0-ECN **20**
BORE - 86.1mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-16	13190	1.378 Head Diameter
	Exh	2007-16	13191	1.142 Head Diameter
Keeper	Both	2007-16	121-1060	1 RD Bead Type
Stem Seal	Both	2007-16	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-16	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.
Spring	Both	2007-16	160-1589	1.941 Length

122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, "ECK Tigershark"
2013-16 L4 122 CID2.0-ECK **21**
BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-16	13400	1.417 Head Diameter
	Exh	2013-15	13402	1.142 Head Diameter
Stem Seal	Both	2013-16	122-1467	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2013-16	VL561	Hydraulic Lash Adjuster Type

1997cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin 5, D "G63B Mitsubishi"
1983-88 L4 122 CIDCHRG63B-CA **22**
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-88	SB1750-61	1¼ O.D.,1.445T I.D.,0.3100 Depth
	Exh	1983-88	SB1500-62	1½ O.D.,1.220T I.D.,0.3100 Depth
Valve	Int	1983-88	10141	1.693 Head Diameter
	Exh	1983-88	10142	1.378 Head Diameter
Keeper	Both	1983-88	121-1039	1 RD Bead Type
Stem Seal	Both	1983-88	122-1086	Positive Type,Viton Material,Metal Clad Style,Use W/ .5145 O.D. Guide
Guide	Int	1983-88	140-7574	0.3150 I.D.,1.848 Length,0.5145 O.D.,+2 O/S Available
	Exh	1983-88	140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1983-84	160-1031	1.875 Length
		1984-88	160-1079	1.960 Length
Lifter	Both	1983-88	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1983-88	230-2001	New Hgt.- 3.5430; Min. Hgt.- 3.5230

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

23 1997cc, (2.0L), SOHC, GAS, FI, Vin V "G63B Mitsubishi"
1989-91 L4 122 CID

CHRG63B-FI
BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-91	SB1750-61	1 ³ / ₄ O.D.,1.445T I.D.,0.3100 Depth
	Exh	1989-91	SB1500-62	1 ¹ / ₂ O.D.,1.220T I.D.,0.3100 Depth
Valve	Int	1989-91	10141	1.693 Head Diameter
	Exh	1989-91	10142	1.378 Head Diameter
Keeper	Both	1989-91	121-1039	1 RD Bead Type
Stem Seal	Both	1989-91	122-1086	Positive Type,Viton Material,Metal Clad Style,Use W/ .5145 O.D. Guide
Guide	Int	1989-91	140-7574	0.3150 I.D.,1.848 Length,0.5145 O.D.,+2 O/S Available
	Exh	1989-91	140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1989-91	160-1079	1.960 Length
Lifter	Both	1989-91	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-91	230-2001	New Hgt.- 3.5430; Min. Hgt.- 3.5230

24 1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin E, F, R, U, EBG "4G63 Mitsubishi"
1990-94 L4 122 CID

CHR4G63-DC
BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	05/92-94	SB1437-73	1 ⁷ / ₁₆ O.D.,1.142T I.D.,0.3360 Depth
		1990-04/92	SB1437-68	1 ⁷ / ₁₆ O.D.,1.135T I.D.,0.3160 Depth
	Exh	1990-94	SB1312-64	1 ⁵ / ₁₆ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1990-94	10126A	1.339 Head Diameter,Nitride
		1990-94	10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1990-94	10128A	1.201 Head Diameter,Nitride
		1990-94	10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1990-94	121-1031	1 RD Bead Type
Stem Seal	Both	1990-94	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-94	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1990-94	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1990-94	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1990-94	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1990-94	VL135	Hydraulic Lash Adjuster Type
Head Saver Shim		1990-94	230-2001	New Hgt.- 5.1968 - 5.2010; Min. Hgt.- 5.1880

25 1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, U, EBG "4G63 Turbo Mitsubishi"
1990-98 L4 122 CID

CHR4G63-DCT
BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	05/92-98	SB1437-73	1 ⁷ / ₁₆ O.D.,1.142T I.D.,0.3360 Depth
		1990-92	SB1437-68	1 ⁷ / ₁₆ O.D.,1.135T I.D.,0.3160 Depth
	Exh	1990-98	SB1312-64	1 ⁵ / ₁₆ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1990-98	10126A	1.339 Head Diameter,Nitride
		1990-98	10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1990-98	10128A	1.201 Head Diameter,Nitride
		1990-98	10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1990-98	121-1031	1 RD Bead Type

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, U, EBG "4G63 Turbo
Mitsubishi"

25
CHR4G63-DCT (cont.)

1990-98 L4 122 CID

BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1990-98	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-98	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1990-98	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1990-98	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1990-98	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1990-98	VL135	Hydraulic Lash Adjuster Type
Head Saver Shim		1990-98	230-2001	New Hgt.- 5.1970; Min. Hgt.- 5.1890

134 C.I., (2.2L), L-HEAD, GAS, CARB, 8 Valve, "AMC"
1939-62 L4 134 CID

134L **26**
BORE - 79.2mm/3.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1939-62	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1939-62	SB1562-1	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1939-62	00122	1.531 Head Diameter,Long Groove
	Exh	1939-62	00121	1.468 Head Diameter,Long Groove
Keeper	Both	1939-62	121-1046	No Bead Bead Type,Long Groove
Guide	Int	1939-62	140-1504	0.3750 I.D.,2.750 Length,0.6580 O.D.
	Exh	1939-62	140-1342	0.3750 I.D.,3.063 Length,0.6580 O.D.
Spring	Both	1939-62	160-1114	2.533 Length

134 C.I., (2.2L), F-HEAD, GAS, CARB, 8 Valve "AMC"
1950-71 L4 134 CID

134F **27**
BORE - 79.2mm/3.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1950-71	SB2125-1	2 $\frac{1}{8}$ O.D.,1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	1950-71	SB1562-4	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth,+10 O/S Available
Valve	Int	1950-71	00302	2.000 Head Diameter,Long Groove
	Exh	1950-71	00303	1.468 Head Diameter,1 Groove,W/O Rotator
Keeper	Int	1950-71	121-1046	No Bead Bead Type,Long Groove
	Exh	1950-71	121-1003	1 SQ Bead Type
Guide	Int	1950-71	140-1704	0.3750 I.D.,2.375 Length,0.6580 O.D.
	Exh	1950-71	140-1342	0.3750 I.D.,3.063 Length,0.6580 O.D.
Spring	Int	1952-71	160-1115	1.970 Length
	Exh	1952-71	160-1114	2.533 Length

135 C.I., (2.2L), SOHC, GAS, CARB, 8 Valve, Vin 8, B, C, F
1981-87 L4 135 CID

2.2SC-CA **28**
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-87	SB1687-51	1 $\frac{11}{16}$ O.D.,1.390T I.D.,0.3050 Depth
	Exh	1981-87	SB1500-63	1 $\frac{1}{2}$ O.D.,1.210T I.D.,0.3450 Depth
Valve	Int	1981-85	01449	1.598 Head Diameter,1 Groove, 4.419 Overall Length
		1986-87	01553	1.599 Head Diameter,1 Groove, 4.499 Overall Length
	Exh	1981-85	01448	1.394 Head Diameter,4 Groove, 4.442 Overall Length
		1986-87	01552	1.394 Head Diameter,4 Groove, 4.522 Overall Length
Keeper	Int	1981-87	121-1011	1 SQ Bead Type
	Exh	1981-87	121-1052	4 RD Bead Type
Stem Seal	Both	1981-87	122-1079	Positive Type,Viton Material,All Rubber Style

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

28 135 C.I., (2.2L), SOHC, GAS, CARB, 8 Valve, Vin 8, B, C, F
(cont.) 1981-87 L4 135 CID

2.2SC-CA
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1981-87	140-7429N	0.3145 I.D., 1.575 Length, 0.4937 O.D., W/ Snap Ring, +2 O/S Available
		1981-87	140-7661	0.3145 I.D., 1.575 Length, 0.5020 O.D., W/ Snap Ring
		1981-87	140-8418	0.3125 I.D., 1.575 Length, 0.4937 O.D., W/ Snap Ring, Optional, Same As 140-7429N, Exc. -.002 I.D.
	Exh	1981-87	140-7451N	0.3145 I.D., 1.693 Length, 0.4934 O.D., W/ Snap Ring, +2 O/S Available
		1981-87	140-7662	0.3145 I.D., 1.693 Length, 0.5020 O.D., W/ Snap Ring
		1981-87	140-8419	0.3125 I.D., 1.693 Length, 0.4934 O.D., W/ Snap Ring, Optional, Same As 140-7451N, Exc. -.002 I.D.
Spring	Both	1984-87	160-1069	2.160 Length
Lifter	Both	1981-87	VL87	Hydraulic Lash Adjuster Type
Rocker Components	Both	1981-87	180-1004	Cam Follower
Head Bolt Set		1981-85	220-1000	Torque To Yield, W/ 10mm Head Bolts, Services Engine
		1985-87	220-1009	Torque To Yield, W/ 11mm Head Bolts, Services Engine
Head Saver Shim		1981-87	230-2003	New Hgt. - 4.1330; Min. Hgt. - 4.1130

29 135 C.I., (2.2L), SOHC, GAS, FI, 8 Valve, Vin A, C, E, P "TURBO"
1984-90 L4 135 CID

2.2SC-T
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-90	SB1687-51	1 ¹¹ / ₁₆ O.D., 1.390T I.D., 0.3050 Depth
	Exh	1984-90	SB1500-63	1 ¹ / ₂ O.D., 1.210T I.D., 0.3450 Depth
Valve	Int	1986-90	01555	1.598 Head Diameter, Square Groove, 4.499 Overall Length
	Exh	1986-90	01554	1.394 Head Diameter, Inconel, 4 Groove, 4.523 Overall Length
Keeper	Int	1984-90	121-1011	1 SQ Bead Type
	Exh	1984-90	121-1052	4 RD Bead Type
Stem Seal	Both	1984-90	122-1079	Positive Type, Viton Material, All Rubber Style
Guide	Int	1984-90	140-7429N	0.3145 I.D., 1.575 Length, 0.4937 O.D., W/ Snap Ring, +2 O/S Available
		1984-90	140-7661	0.3145 I.D., 1.575 Length, 0.5020 O.D., W/ Snap Ring
		1984-90	140-8418	0.3125 I.D., 1.575 Length, 0.4937 O.D., W/ Snap Ring, Optional, Same As 140-7429N, Exc. -.002 I.D.
	Exh	1984-90	140-7451N	0.3145 I.D., 1.693 Length, 0.4934 O.D., W/ Snap Ring, +2 O/S Available
		1984-90	140-7662	0.3145 I.D., 1.693 Length, 0.5020 O.D., W/ Snap Ring
		1984-90	140-8419	0.3125 I.D., 1.693 Length, 0.4934 O.D., W/ Snap Ring, Optional, Same As 140-7451N, Exc. -.002 I.D.
Spring	Both	1984-90	160-1069	2.160 Length
Lifter	Both	1984-90	VL87	Hydraulic Lash Adjuster Type
Rocker Components	Both	1984-87	180-1004	Cam Follower
Head Bolt Set		1984-85	220-1000	Torque To Yield, W/ 10mm Head Bolts, Services Engine
		1985-90	220-1009	Torque To Yield, W/ 11mm Head Bolts, Services Engine
Head Saver Shim		1984-90	230-2003	New Hgt. - 4.1330; Min. Hgt. - 4.1130

30 135 C.I., (2.2L), SOHC, GAS, FI, 8 Valve, Vin D
1984-94 L4 135 CID

2.2SC-FI
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-94	SB1687-51	1 ¹¹ / ₁₆ O.D., 1.390T I.D., 0.3050 Depth
	Exh	1984-94	SB1500-63	1 ¹ / ₂ O.D., 1.210T I.D., 0.3450 Depth
Valve	Int	1984-85	01449	1.598 Head Diameter, 1 Groove, 4.419 Overall Length
		1986-94	01553	1.599 Head Diameter, 1 Groove, 4.499 Overall Length

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

135 C.I., (2.2L), SOHC, GAS, FI, 8 Valve, Vin D
1984-94 L4 135 CID

2.2SC-FI **30**
BORE - 87.4mm/3.44" (cont.)

PART	YEARS	PART NO.	NOTES
Valve	Exh 1984-85 1986-94	01448 01552	1.394 Head Diameter,4 Groove, 4.442 Overall Length 1.394 Head Diameter,4 Groove, 4.522 Overall Length
Keeper	Int 1984-94 Exh 1984-94	121-1011 121-1052	1 SQ Bead Type 4 RD Bead Type
Stem Seal	Both 1984-94	122-1079	Positive Type,Viton Material,All Rubber Style
Guide	Int 1984-94 1984-94 1984-94 Exh 1984-94 1984-94 1984-94	140-7429N 140-7661 140-8418 140-7451N 140-7662 140-8419	0.3145 I.D.,1.575 Length,0.4937 O.D.,W/ Snap Ring,+2 O/S Available 0.3145 I.D.,1.575 Length,0.5020 O.D.,W/ Snap Ring 0.3125 I.D.,1.575 Length,0.4937 O.D.,W/ Snap Ring,Optional, Same As 140-7429N, Exc. -.002 I.D. 0.3145 I.D.,1.693 Length,0.4934 O.D.,W/ Snap Ring,+2 O/S Available 0.3145 I.D.,1.693 Length,0.5020 O.D.,W/ Snap Ring 0.3125 I.D.,1.693 Length,0.4934 O.D.,W/ Snap Ring,Optional, Same As 140-7451N, Exc. -.002 I.D.
Spring	Both 1984-94	160-1069	2.160 Length
Lifter	Both 1984-94	VL87	Hydraulic Lash Adjuster Type
Rocker Components	Both 1984-87	180-1004	Cam Follower
Head Bolt Set	1984-85 1985-94	220-1000 220-1009	Torque To Yield,W/ 10mm Head Bolts, Services Engine Torque To Yield,W/ 11mm Head Bolts, Services Engine
Head Saver Shim	1984-94	230-2003	New Hgt.- 4.1330; Min. Hgt.- 4.1130

2346cc, (2.3L), SOHC, DIESEL, FI, 8 Valve, Vin 9, J "4D55T Turbo Mitsubishi"
1983-85 L4 143 CID

31
CHR4D55T
BORE - 90.9mm/3.58"

PART	YEARS	PART NO.	NOTES
Keeper	Both 05/84-85	121-1039	1 RD Bead Type
Stem Seal	Both 1983-85	122-1086	Positive Type,Viton Material,Metal Clad Style

2351cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin G, W "G64B Mitsubishi"
1990-93 L4 143 CID

CHR-G64B **32**
BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1990-93 Exh 1990-93	SB1875-51 SB1625-56	1 $\frac{7}{8}$ O.D.,1.575T I.D.,0.3170 Depth 1 $\frac{5}{8}$ O.D.,1.298T I.D.,0.3170 Depth,+10, +30 O/S Available
Valve	Int 1990-93 Exh 1990-93	10143 10144	1.811 Head Diameter 1.496 Head Diameter
Keeper	Both 1990-93	121-1039	1 RD Bead Type
Stem Seal	Both 1990-93	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1990-93 Exh 1990-93	140-7574 140-7575	0.3150 I.D.,1.848 Length,0.5145 O.D.,+2 O/S Available 0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both 1990-93	160-1079	1.960 Length
Lifter	Both 1990-93	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim	1990-93	230-2004	New Hgt.- 3.5430 - 3.5440; Min. Hgt.- 3.5230

2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G " 4G64 Mitsubishi "
1993-96 L4 143 CID

CHR4G64-SC **33**
BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1993-96 Exh 1993-96	SB1375-62 SB1250-59	1 $\frac{3}{8}$ O.D.,1.100T I.D.,0.3000 Depth 1 $\frac{1}{4}$ O.D.,0.982 I.D.,0.3290 Depth

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

33 2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G "4G64 Mitsubishi" CHR4G64-SC
 (cont.) 1993-96 L4 143 CID BORE - 86.5mm/3.41"

PART		YEARS	PART NO.	NOTES
Valve	Int	1993-96	10534A	1.299 Head Diameter,Nitride
	Exh	1993-96	10535A	1.142 Head Diameter,Nitride
Keeper	Both	1993-96	121-1096	1 RD Bead Type
Stem Seal	Int	1993-96	122-1252	Positive Type,Viton Material,Metal Clad Style
	Exh	1993-96	122-1253	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1993-96	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	1993-96	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both	1993-96	VL141	Hydraulic Lash Adjuster Type

34 2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G "4G64 Mitsubishi" CHR2.4-SC
 2001-05 L4 143 CID BORE - 86.5mm/3.41"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2001-05	SB1375-62	1 $\frac{3}{8}$ O.D.,1.100T I.D.,0.3000 Depth
	Exh	2001-05	SB1250-59	1 $\frac{1}{4}$ O.D.,0.982 I.D.,0.3290 Depth
Valve	Int	2001-05	10534A	1.299 Head Diameter,Nitride
	Exh	2001-05	10535A	1.142 Head Diameter,Nitride
Keeper	Both	2001-05	121-1096	1 RD Bead Type
Stem Seal	Both	2001-05	122-1252	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-05	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	2001-05	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both	2001-05	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		2001-05	230-2149	New Hgt. 4.720-4.730; Min Hgt. 4.712

35 144 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin F "Turbo SRT-4" CHR2.4-SRT
 2008-09 L4 144 CID BORE - 88mm/3.46"

PART		YEARS	PART NO.	NOTES
Valve	Int	2008-09	13190	1.378 Head Diameter
Keeper	Both	2008-09	121-1060	1 RD Bead Type
Stem Seal	Both	2008-09	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-09	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.
Spring	Both	2008-09	160-1589	1.941 Length

36 144 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin B, J, K, W, ED3, EDG CHR2.4-GEMA
 "GEMA" 2007-17 L4 144 CID BORE - 88mm/3.46"

PART		YEARS	PART NO.	NOTES
Valve	Int	2007-16	13190	1.378 Head Diameter
	Exh	2007-16	13191	1.142 Head Diameter
Keeper	Both	2007-16	121-1060	1 RD Bead Type
Stem Seal	Both	2007-16	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-16	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.
Spring	Both	2007-16	160-1589	1.941 Length

37 144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, ED6 "Multiair 2" CHR2.4-ED6
 2015-17 L4 144 CID BORE - 88mm/3.46"

PART		YEARS	PART NO.	NOTES
Valve	Int	2015-16	13401	1.417 Head Diameter
	Exh	2015-16	13402	1.142 Head Diameter

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, ED6 "Multiair 2" **CHR2.4-ED6 37**
2015-17 L4 144 CID BORE - 88mm/3.46" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	2015-16	122-1467	Positive Type, Viton Material, Top Hat Style
Lifter	Both	2015-16	VL561	Hydraulic Lash Adjuster Type

144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, ED6 "Multiair 2" **DODGE2.4-ED6 38**
2013-16 L4 144 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-16	13401	1.417 Head Diameter
	Exh	2013-16	13402	1.142 Head Diameter
Stem Seal	Both	2013-16	122-1467	Positive Type, Viton Material, Top Hat Style
Lifter	Both	2013-16	VL561	Hydraulic Lash Adjuster Type

144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, ED6 "Tigershark" **JEEP2.4-ED6-B 39**
2014-17 L4 144 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2014-16	13401	1.417 Head Diameter
	Exh	2014-16	13402	1.142 Head Diameter
Stem Seal	Both	2014-16	122-1467	Positive Type, Viton Material, Top Hat Style
Lifter	Both	2014-16	VL561	Hydraulic Lash Adjuster Type

144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin T, ED6 "Tigershark" **RAM2.4-ED6-T 40**
2015-17 L4 144 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2015-16	13401	1.417 Head Diameter
	Exh	2015-16	13402	1.142 Head Diameter
Stem Seal	Both	2015-16	122-1467	Positive Type, Viton Material, Top Hat Style
Lifter	Both	2015-16	VL561	Hydraulic Lash Adjuster Type

144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, ED8 "Multiair 2 PZEV" **CHR2.4-ED8 41**
2015-17 L4 144 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2015-16	13401	1.417 Head Diameter
	Exh	2015-16	13402	1.142 Head Diameter
Stem Seal	Both	2015-16	122-1467	Positive Type, Viton Material, Top Hat Style
Lifter	Both	2015-16	VL561	Hydraulic Lash Adjuster Type

144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, ED8 "Multiair 2 PZEV" **DODGE2.4-ED8 42**
2015-16 L4 144 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2015-16	13401	1.417 Head Diameter
	Exh	2015-16	13402	1.142 Head Diameter
Stem Seal	Both	2015-16	122-1467	Positive Type, Viton Material, Top Hat Style
Lifter	Both	2015-16	VL561	Hydraulic Lash Adjuster Type

144 C.I., (2.4L), SOHC, GAS, FI, 16 Valve, Vin B, ED8 "Tigershark" **JEEP2.4-ED8 43**
2015-17 L4 144 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2015-16	13401	1.417 Head Diameter
	Exh	2015-16	13402	1.142 Head Diameter
Stem Seal	Both	2015-17	122-1467	Positive Type, Viton Material, Top Hat Style
Lifter	Both	2015-16	VL561	Hydraulic Lash Adjuster Type

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

44 148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 1 "Jeep Power-Tech" CHR2.4DC-TRU
 2002-06 L4 148 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2002-06	SB1500-77	1½ O.D.,1.175T I.D.,0.2360 Depth
Valve	Int	2002-06	02008	1.370 Head Diameter,3 Groove
	Exh	2002-06	02009	1.120 Head Diameter,3 Groove
Keeper	Both	2002-06	121-1087	3 RD Bead Type
Stem Seal	Both	2002-06	122-1251	Positive Type,Viton Material,Top Hat Style
Guide	Both	2002-06	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.
Spring	Both	2002-06	160-1426	1.933 Length
Lifter	Both	2002-06	VL173	Hydraulic Lash Adjuster Type
Rocker Components	Both	2002-06	180-1324	Roller Cam Follower
Head Saver Shim		2002-06	230-2120	New Hgt. - 5.411 - 5.419; Min Hgt. 5.403; W/ Ovate Coolant Passages

45 148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 9, B, J, X, EDZ CHR2.4-EDZ
 1995-10 L4 148 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-10	SB1500-77	1½ O.D.,1.175T I.D.,0.2360 Depth
	Exh	1995-99	SB1375-64	1⅝ O.D.,1.000 I.D.,0.2800 Depth
		2000-10	SB1250-63	1¼ O.D.,0.930 I.D.,0.3250 Depth
Valve	Int	1995-99	01730	1.370 Head Diameter,1 Groove
		2000-10	02008	1.370 Head Diameter,3 Groove
	Exh	1995-99	01731	1.201 Head Diameter,1 Groove
		2000-10	02009	1.120 Head Diameter,3 Groove
Keeper	Both	1995-99	121-1086	1 RD Bead Type
		2000-10	121-1087	3 RD Bead Type
Stem Seal	Both	1995-10	122-1251	Positive Type,Viton Material,Top Hat Style
Guide	Both	1995-10	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.,+2 O/S Available
Spring	Both	1995-10	160-1426	1.933 Length
Lifter	Both	1995-10	VL173	Hydraulic Lash Adjuster Type
Rocker Components	Both	1995-10	180-1324	Roller Cam Follower
Head Bolt Set		1995-06	220-1083	Torque To Yield,1 Required
Head Saver Shim		1995-01	230-2095	New Hgt. - 5.411 - 5.419; Min. Hgt. 5.403; NOTE: Except 2001 PT Cruiser
		2001-01	230-2160	PT CRUISER ONLY
		2002-10	230-2120	New Hgt. - 5.411 - 5.419; Min Hgt. 5.403; W/ Ovate Coolant Passages

46 148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 8, E, G, S "TURBO EDV/EDT" CHR2.4DCT
 2003-09 L4 148 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2003-09	SB1500-77	1½ O.D.,1.175T I.D.,0.2360 Depth
Valve	Int	2003-09	02034	1.370 Head Diameter
	Exh	2003-09	02035	1.120 Head Diameter,Inconel
Keeper	Both	2003-09	121-1087	3 RD Bead Type
Stem Seal	Both	2003-09	122-1251	Positive Type,Viton Material,Top Hat Style
Guide	Both	2003-09	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.,+2 O/S Available
Spring	Both	2003-09	160-1426	1.933 Length
Lifter	Both	2003-09	VL173	Hydraulic Lash Adjuster Type

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK

148 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 8, E, G, S "TURBO EDV/EDT" CHR2.4DCT 46
 2003-09 L4 148 CID BORE - 87.5mm/3.44" (cont.)

PART	YEARS	PART NO.	NOTES
Head Bolt Set	2003-09	220-1083	Torque To Yield,1 Required
Head Saver Shim	2003-09	230-2120	New Hgt. - 5.411 - 5.419; Min Hgt. 5.403; W/ Ovate Coolant Passages

150 C.I., (2.5L), OHV, GAS, CARB, FI, 8 Valve, Vin E, H, P, U "AMC" AMC150 47
 1983-02 L4 150 CID BORE - 98.5mm/3.88"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-02	2.000 O.D., ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material	
	Exh	1983-02		
Valve	Int	1983-90	01479	1.910 Head Diameter,Square Groove,1 Square Groove
		1983-99	01557	1.910 Head Diameter,1 Round Groove,1 Round Groove. +15 O/S Stem Available
	Exh	2000-02	01916	1.910 Head Diameter,3 Groove,+15 O/S Stem Available
		1983-90	01478	1.500 Head Diameter,Square Groove,1 Square Groove
		1983-99	01556	1.500 Head Diameter,1 Round Groove,1 Round Groove, +15 O/S Stem Available
		2000-02	01917	1.500 Head Diameter,3 Groove,+15 O/S Stem Available
Keeper	Both	1983-90	121-1011	1 SQ Bead Type
		1983-99	121-1021	1 RD Bead Type
		2000-02	121-1083	3 RD Bead Type
Stem Seal	Int	1983-02	122-1052	Positive Type,Viton Material, Ring & Band Style,Optional Aftermarket Version; Use W/ .502 O.D. Guide (140-9848)
		1983-02	122-1204	Positive Type,Viton Material,Metal Clad Style,OEM Version; Use W/ Guide (140-7847); Black
	Exh	1983-02	122-1053	Positive Type,Viton Material, Ring & Band Style,Black Color Seal,Optional Aftermarket Version; Use W/ .502 O.D. Guide (140-9848)
		1983-02	122-1205	Positive Type,Viton Material,Metal Clad Style,OEM Version; Use W/ Guide (140-8494); Brown
Guide	Int	1983-02	140-7847	0.3135 I.D.,2.250 Length,0.5020 O.D.,W/ .534 Seal Boss
	Exh	1983-02	140-8494	0.3135 I.D.,2.435 Length,0.5020 O.D.,W/ .534 Seal Boss
	Both	1983-98	140-9848	0.3135 I.D.,2.438 Length,0.5020 O.D.,Optional Conversion Guide
Spring	Both	1983-87	160-1210	1.820 Length,Cylindrical. Use W/ Square Groove Valves
		1988-95	160-1378	1.967 Length,Conical,Use W/ Round Groove Valves
		1996-02	160-1483	1.930 Length,Conical
Lifter	Both	1983-02	VL89	Hydraulic Type
Rocker Components	Both	1983-02	180-1236	Rocker Arm
		1983-02	181-1037	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1983-02	183-1014	Fulcrum, Short
		1983-02	183-1028	Bridge,When Replacing, Fulcrum # 183-1014 Must Also Be Used
Push Rod	Both	1983-02	190-1455	9.485 Length
Head Bolt Set		1997-02	220-1075	Torque To Yield,1 Required
Head Saver Shim		1983-02	230-2192	New Hgt. - 3.250; Min. Hgt. - N/A

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

48 151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin B "GM"
1980-83 L4 151 CID

AMC151
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-83	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1980-83	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1980-83	01813	1.720 Head Diameter, 0.020 Shorter Than OEM, Square Groove
	Exh	1980-83	01814	1.500 Head Diameter, 0.020 Shorter Than OEM, Square Groove
Keeper	Both	1980-83	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-83	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1980-83	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1980-83	122-1047	Positive Type, Poly Material, 2-Ring Style
		1980-83	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Both	1980-83	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1980-83	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1980-83	160-1125	2.050 Length, W/ Damper
Lifter	Both	1980-83	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1980-83	VL73	Hydraulic Type
Rocker Components	Both	1980-83	181-1017	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball Nut, ³ / ₈
		1980-83	184-1038	
Push Rod	Both	1982-83	192-1453	8.975 Length
Head Saver Shim		1980-83	230-2024	New Hgt. - 3.2500

49 2497cc, (2.5L), SOHC, GAS, FI, 24 Valve, Vin H, N "6G73 Mitsubishi"
1995-00 V6 152 CID

CHR6G73
BORE - 83.5mm/3.29"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1995-00	SB1375-62	1 ³ / ₈ O.D., 1.100T I.D., 0.3000 Depth
	Exh	1995-00	SB1250-59	1 ¹ / ₄ O.D., 0.982 I.D., 0.3290 Depth
Valve	Int	1995-00	10534A	1.299 Head Diameter, Nitride
	Exh	1995-00	10535A	1.142 Head Diameter, Nitride
Keeper	Both	1995-00	121-1096	1 RD Bead Type
Stem Seal	Int	1995-00	122-1252	Positive Type, Viton Material, Metal Clad Style
	Exh	1995-00	122-1253	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1995-00	140-8554	0.2355 I.D., 1.790 Length, 0.4360 O.D.
	Exh	1995-00	140-8569	0.2360 I.D., 1.990 Length, 0.4360 O.D., W/ Snap Ring
Lifter	Both	1995-00	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1995-00	230-2105	New Hgt. - 4.725; Min. Hgt. 4.717

50 153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin K
1986-95 L4 153 CID

2.5K
BORE - 87.4mm/3.44"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-95	SB1687-51	1 ¹¹ / ₁₆ O.D., 1.390T I.D., 0.3050 Depth
	Exh	1986-95	SB1500-63	1 ¹ / ₂ O.D., 1.210T I.D., 0.3450 Depth
Valve	Int	1986-95	01553	1.599 Head Diameter
	Exh	1986-95	01552	1.394 Head Diameter

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin K
1986-95 L4 153 CID

2.5K **50**
BORE - 87.4mm/3.44" (cont.)

PART		YEARS	PART NO.	NOTES
Keeper	Int	1986-95	121-1011	1 SQ Bead Type
	Exh	1986-95	121-1052	4 RD Bead Type
Stem Seal	Int	1986-95	122-1052	Positive Type,Viton Material,Ring & Band Style
	Exh	1986-95	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal
Guide	Int	1986-95	140-7429N	0.3145 I.D.,1.575 Length,0.4937 O.D.,W/ Snap Ring,+2 O/S Available
		1986-95	140-7661	0.3145 I.D.,1.575 Length,0.5020 O.D.,W/ Snap Ring
		1986-95	140-8418	0.3125 I.D.,1.575 Length,0.4937 O.D.,W/ Snap Ring,Optional, Same As 140-7429N, Exc. -.002 I.D.
	Exh	1986-95	140-7451N	0.3145 I.D.,1.693 Length,0.4934 O.D.,W/ Snap Ring,+2 O/S Available
		1986-95	140-7662	0.3145 I.D.,1.693 Length,0.5020 O.D.,W/ Snap Ring
		1986-95	140-8419	0.3125 I.D.,1.693 Length,0.4934 O.D.,W/ Snap Ring,Optional, Same As 140-7451N, Exc. -.002 I.D.
Spring	Both	1986-95	160-1069	2.160 Length
Lifter	Both	1986-95	VL87	Hydraulic Lash Adjuster Type
Rocker Components	Both	1986-87	180-1004	Cam Follower
Head Bolt Set		1986-95	220-1009	Torque To Yield,Services Engine
Head Saver Shim		1986-95	230-2003	New Hgt.- 4.1330; Min. Hgt.- 4.1130

153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin J "TURBO"
1989-92 L4 153 CID

2.5J **51**
BORE - 87.4mm/3.44"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-92	SB1687-51	1 ¹¹ / ₁₆ O.D.,1.390T I.D.,0.3050 Depth
	Exh	1989-92	SB1500-63	1 ¹ / ₂ O.D.,1.210T I.D.,0.3450 Depth
Valve	Int	1989-92	01555	1.598 Head Diameter,Square Groove
	Exh	1989-92	01554	1.394 Head Diameter,Inconel, 4 Groove
Keeper	Int	1989-92	121-1011	1 SQ Bead Type
	Exh	1989-92	121-1052	4 RD Bead Type
Stem Seal	Both	1989-92	122-1079	Positive Type,Viton Material,All Rubber Style
Guide	Int	1989-92	140-7429N	0.3145 I.D.,1.575 Length,0.4937 O.D.,W/ Snap Ring,+2 O/S Available
		1989-92	140-7661	0.3145 I.D.,1.575 Length,0.5020 O.D.,W/ Snap Ring
		1989-92	140-8418	0.3125 I.D.,1.575 Length,0.4937 O.D.,W/ Snap Ring,Optional, Same As 140-7429N, Exc. -.002 I.D.
	Exh	1989-92	140-7451N	0.3145 I.D.,1.693 Length,0.4934 O.D.,W/ Snap Ring,+2 O/S Available
		1989-92	140-7662	0.3145 I.D.,1.693 Length,0.5020 O.D.,W/ Snap Ring
		1989-92	140-8419	0.3125 I.D.,1.693 Length,0.4934 O.D.,W/ Snap Ring,Optional, Same As 140-7451N, Exc. -.002 I.D.
Spring	Both	1989-92	160-1069	2.160 Length
Lifter	Both	1989-92	VL87	Hydraulic Lash Adjuster Type
Head Bolt Set		1989-92	220-1009	Torque To Yield,Services Engine
Head Saver Shim		1989-92	230-2003	New Hgt.- 4.1330; Min. Hgt.- 4.1130

2555cc, (2.6L), SOHC, GAS, CARB, 8 Valve, Vin 7, D, E, F, G, W "G54B Mitsubishi"
1978-89 L4 156 CID

52
CHRG54B
BORE - 91.1mm/3.59"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1978-80	SB1750-61	3/4 O.D.,1.445T I.D.,0.3100 Depth,W/ 1.689 Valve Head Dia.

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

52 2555cc, (2.6L), SOHC, GAS, CARB, 8 Valve, Vin 7, D, E, F, G, W "G54B

(cont.) Mitsubishi"

CHRG54B

1978-89

L4 156 CID

BORE - 91.1mm/3.59"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1981-89	SB1875-51	1 $\frac{7}{8}$ O.D., 1.575T I.D., 0.3170 Depth, W/ 1.810 Valve Head Dia.
	Exh	1978-80	SB1500-62	1 $\frac{1}{2}$ O.D., 1.220T I.D., 0.3100 Depth, W/ 1.376 Valve Head Dia.
		1981-89	SB1625-56	1 $\frac{5}{8}$ O.D., 1.298T I.D., 0.3170 Depth, +10, +30 O/S Available, W/ 1.495 & 1.493 Valve Head Dia.
Valve	Int	05/84-89	10145	1.810 Head Diameter, Round Groove
		1978-80	10065	1.689 Head Diameter, Square Groove
	Exh	05/84-89	10146	1.493 Head Diameter, Round Groove, Optional Non-Stellite
		05/84-89	10146S	1.493 Head Diameter, Stellite Face, Round Groove
		1978-80	10064	1.376 Head Diameter, Square Groove
Keeper	Both	05/84-89	121-1039	1 RD Bead Type
		1978-04/84	121-1034	1 SQ Bead Type
Stem Seal	Both	1978-89	122-1086	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1978-89	140-7574	0.3150 I.D., 1.848 Length, 0.5145 O.D., +2 O/S Available
	Exh	1978-89	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, +2 & +6 O/S Available
Spring	Both	05/84-89	160-1079	1.960 Length
		1981-04/84	160-1031	1.875 Length
Lifter	Both	05/84-89	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1981-89	230-2005	New Hgt. - 3.5430; Min. Hgt. - 3.5230

53 2555cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin H, N "G54B Turbo Mitsubishi"

CHRG54BT

1984-89

L4 156 CID

BORE - 91.1mm/3.59"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-89	SB1875-51	1 $\frac{7}{8}$ O.D., 1.575T I.D., 0.3170 Depth
	Exh	1984-89	SB1625-56	1 $\frac{5}{8}$ O.D., 1.298T I.D., 0.3170 Depth, +10, +30 O/S Available
Valve	Int	1984-89	10145	1.810 Head Diameter, Round Groove
	Exh	1984-89	10146S	1.493 Head Diameter, Stellite Face, Round Groove, Except Intercooled Turbo
Keeper	Both	1984-89	121-1039	1 RD Bead Type
Stem Seal	Both	1984-89	122-1086	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1984-89	140-7574	0.3150 I.D., 1.848 Length, 0.5145 O.D., +2 O/S Available
	Exh	1984-89	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, +2 & +6 O/S Available
Spring	Both	1984-89	160-1079	1.960 Length
Lifter	Both	1984-89	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1984-89	230-2005	New Hgt. - 3.5430; Min. Hgt. - 3.5230

54 2705cc, (2.7L), DOHC, DIESEL, FI, 20 Valve, Vin 1, 2, 4 "OM612/OM647

Mercedes"

CHR2.7TD

2003-06

L5 165 CID

BORE - 87.9mm/3.46"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2003-03	SB1218E-1	1.218 O.D., 1.020T I.D., 0.2210 Depth, OM612
		2004-06	SB1160E-1	1.160 O.D., 0.960T I.D., 0.2210 Depth, OM647
	Exh	2003-03	SB1175E-1	1.175 O.D., 0.945T I.D., 0.2210 Depth, OM612
		2004-06	SB1088E-1	1.088 O.D., 0.890T I.D., 0.2210 Depth, OM647
Valve	Int	2003-03	02234	1.189 Head Diameter, OM612
		2004-06	13073	1.130 Head Diameter, OM647
	Exh	2003-03	02235	1.120 Head Diameter, OM612
		2004-06	13074	1.032 Head Diameter, OM647

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

2705cc, (2.7L), DOHC, DIESEL, FI, 20 Valve, Vin 1, 2, 4 "OM612/OM647
Mercedes"

54

CHR2.7TD (cont.)

2003-06 L5 165 CID

BORE - 87.9mm/3.46"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2003-06 121-1106	1 RD Bead Type
Stem Seal	Both	2003-06 122-1360	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2003-06 140-3098	0.2755 I.D.,1.478 Length,0.4955 O.D.
Spring	Int Exh	2003-06 160-1528 2003-06 160-1529	1.831 Length,Conical 1.893 Length,Conical

167 C.I., (2.7L), DOHC, FLEX, GAS, FI, 24 Valve, Vin D, R, T, U, EER
1998-10 V6 167 CID

55

CHR2.7-EER
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	1998-10 01920 1998-10 01921	1.331 Head Diameter,Includes Flex-Fuel 1.094 Head Diameter,Includes Flex-Fuel
Keeper	Both	1998-10 121-1082	3 RD Bead Type
Stem Seal	Both	1998-10 122-1327	Positive Type,Viton Material,Top Hat Style
Guide	Both	1998-10 140-3019	0.2358 I.D.,1.615 Length,0.4355 O.D.
Spring	Both	1998-10 160-1352	1.800 Length
Lifter	Both	1998-10 VL171	Hydraulic Lash Adjuster Type
Rocker Components	Both	1998-10 180-1322	Roller Cam Follower
Head Bolt Set		1998-10 220-1077	Torque To Yield,2 Required
Head Saver Shim		1998-10 230-2126L 1998-10 230-2126R	Left,New Hgt. 4.491-4.494, Min. Hgt. N/A Right,New Hgt. 4.491-4.494, Min. Hgt. N/A

170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve
1960-69 L6 170 CID

56

CHR170
BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1960-69 SB1750-2 1960-69 SB1437-1	1¾ O.D.,1½ I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.680 Valve Head Dia. 17/16 O.D.,1¼ I.D.,7/32 Depth
Valve	Int Exh	1960-69 00567 1960-69 01265	1.620 Head Diameter,2 Groove,+15 O/S Stem Available 1.360 Head Diameter,4 Groove
Keeper	Int Exh	1960-69 121-1000 1960-69 121-1014	2 RD Bead Type 4 RD Bead Type
Stem Seal	Both	1960-69 122-1063	Positive Type,Viton Material,All Rubber Style
Guide	Int Exh	1960-69 140-6113 1960-69 140-9113 1960-69 140-6108 1960-69 140-9108	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide 0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1960-69 160-1122	2.000 Length,W/O Rotator
Lifter	Both	1960-69 VL31	Mechanical High Performance Type

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

57 173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin W "GM"
1984-86 V6 173 CID

AMC173
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-86	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ¹⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1984-86	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1984-86	01395	1.600 Head Diameter
	Exh	1984-86	01394	1.307 Head Diameter
Keeper	Both	1984-86	121-1003	1 SQ Bead Type
Stem Seal	Both	1984-86	122-1075	Positive Type, Viton Material, Ring & Band Style
Guide	Both	1984-86	140-9560	0.3440 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Lifter	Both	1984-86	VL94	Hydraulic Type
Rocker Components	Both	1984-86	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1984-86	183-1015	Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud
		1984-86	184-1025	Stud, 10mm, Adjustable
		1984-86	184-1032	Nut, 10mm, Adjustable
Push Rod	Both	1984-86	192-1444	6.162 Length
Head Saver Shim		1984-86	230-2025	New Hgt. - 3.5805 - 3.5950; Min. Hgt. - 3.5750, 2 Required

58 2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 3, H, S "6G72"
1987-00 V6 181 CID

CHR6G72-SC12V
BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-00	SB1750-61	1 ³ / ₄ O.D., 1.445T I.D., 0.3100 Depth
	Exh	1987-00	SB1562-69	1 ¹⁵ / ₁₆ O.D., 1.219 I.D., 0.3170 Depth, Also Available In Non-Magnetic (N) Material
		1987-00	SB1562-69N	1 ¹⁵ / ₁₆ O.D., 1.219 I.D., 0.3170 Depth, Optional LPG
Valve	Int	1987-00	10147	1.693 Head Diameter, 0.030 Shorter Than OEM
		1987-00	10624	1.693 Head Diameter, OEM Length
	Exh	1987-00	10148	1.378 Head Diameter, 0.030 Shorter Than OEM
		1987-00	10625	1.378 Head Diameter, OEM Length
Keeper	Both	1987-00	121-1039	1 RD Bead Type
Stem Seal	Both	1987-00	122-1086	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1987-00	140-7576	0.3150 I.D., 1.735 Length, 0.5145 O.D.
	Exh	1987-00	140-7577	0.3150 I.D., 1.890 Length, 0.5143 O.D., W/ Snap Ring, +2 O/S Available
Spring	Both	1987-00	160-1079	1.960 Length
Lifter	Both	1987-00	VL141	Hydraulic Lash Adjuster Type
Rocker Components	Both	1987-00	180-1207	Roller Rocker Arm
Head Bolt Set		1987-00	220-1021	Torque To Yield, Services Engine
Head Saver Shim		1987-00	230-2006	New Hgt. - 3.3030 - 3.3110; Min. Hgt. - 3.2950, 2 Required

59 2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin B, J "6G72 Mitsubishi"
1991-96 V6 181 CID

CHR6G72-DC
BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-96	SB1437-59	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.3050 Depth
	Exh	1991-96	SB1312-64	1 ¹⁵ / ₁₆ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1991-96	10500	1.375 Head Diameter
	Exh	1991-96	10501	1.200 Head Diameter
Keeper	Both	1991-96	121-1031	1 RD Bead Type

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin B, J "6G72 Mitsubishi" CHR6G72-DC 59
1991-96 V6 181 CID BORE - 91.1mm/3.59" (cont.)

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1991-96 122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-96 140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1991-96 340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1991-96 140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1991-96 340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1991-96 VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		1991-96 220-1021	Torque To Yield,Services Engine
Head Saver Shim		1991-96 230-2007	New Hgt.- 5.1968; Min. Hgt.- 5.1888, 2 Required

2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, K, "6G72 Turbo Mitsubishi" CHR6G72-DCT 60
1991-96 V6 181 CID BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-96 SB1437-59	17/16 O.D.,1.180T I.D.,0.3050 Depth
	Exh	1991-96 SB1312-64	15/16 O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	1991-96 10500	1.375 Head Diameter
	Exh	1991-96 10501	1.200 Head Diameter
Keeper	Both	1991-96 121-1031	1 RD Bead Type
Stem Seal	Both	1991-96 122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-96 140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1991-96 340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1991-96 140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1991-96 340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1991-96 VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		1991-96 220-1021	Torque To Yield,Services Engine
Head Saver Shim		1991-96 230-2007	New Hgt.- 5.2000 - 5.2100; Min. Hgt.- 5.1888, 2 Required

2972cc, (3.0L), SOHC, GAS, FI, 24 Valve, Vin H "6G72 Mitsubishi" CHR6G72-SC24V 61
2001-05 V6 181 CID BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2001-05 SB1375-62	13/8 O.D.,1.100T I.D.,0.3000 Depth
	Exh	2001-05 SB1250-59	11/4 O.D.,0.982 I.D.,0.3290 Depth
Valve	Int	2001-05 10534A	1.299 Head Diameter,Nitride
	Exh	2001-05 10535A	1.142 Head Diameter,Nitride
Keeper	Both	2001-05 121-1096	1 RD Bead Type
Stem Seal	Int	2001-05 122-1252	Positive Type,Viton Material,Metal Clad Style
	Exh	2001-05 122-1253	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-05 140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	2001-05 140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both	2001-05 VL141	Hydraulic Lash Adjuster Type

2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin J, U "Renault" CHR3.0 62
1988-92 V6 182 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1988-92 121-1034	1 SQ Bead Type

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

63 2987cc, (3.0L), DOHC, TURBO, DIESEL, FI, 24 Valve, Vin 5, M, EXM "
OM642 Mercedes"
2007-09 V6 182 CID

CHR3.0-TD24V
BORE - 83mm/3.27"

PART		YEARS	PART NO.	NOTES
Valve	Int	2007-09	13356	1.122 Head Diameter
	Exh	2007-09	13357	1.000 Head Diameter
Keeper	Both	2007-09	121-1098	3 RD Bead Type
Stem Seal	Both	2007-09	122-1456	Positive Type,Viton Material,Metal Clad Style
Spring	Int	2007-09	160-1639	1.830 Length
	Exh	2007-09	160-1640	1.835 Length
Lifter	Both	2007-09	VL561	Hydraulic Lash Adjuster Type
Rocker Components	Both	2007-09	180-1338	Roller Cam Follower

64 2998cc, (3.0L), DOHC, DIESEL, FI, 16 Valve, Vin D, EXG " FIAT/IVECO "
2014-17 L4 183 CID 3.0TD-EXG
BORE - 95.8mm/3.77"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2014-16	121-1098	3 RD Bead Type

65 196 C.I., (3.2L), GAS, CARB "AMC"
1957-65 L6 196 CID AMC196
BORE -79.395mm/3.125"

PART		YEARS	PART NO.	NOTES
Guide	Int	1957-65	140-6867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Aluminum Castings
		1957-65	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Aluminum Castings
	Exh	1961-62	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,Aluminum Castings, -5 U/S I.D. Available (140-5606U) NOTE: W/ Single Groove Valve
		1961-62	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Aluminum Castings, -5 U/S I.D. Available (140-9606U) NOTE: W/ Single Groove Valve
	1962-64	140-7459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,Aluminum Castings, W/ 4 Groove Valve	
		140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Aluminum Castings, W/ 4 Groove Valve	

66 197 C.I., (3.2L), SOHC, GAS, FI, 24 Valve, Vin J
1998-01 V6 197 CID CHR3.2
BORE - 92mm/3.62"

PART		YEARS	PART NO.	NOTES
Valve	Int	1998-01	01901	1.437 Head Diameter
	Exh	1998-01	01713	1.142 Head Diameter
Keeper	Both	1998-01	121-1093	3 RD Bead Type
Stem Seal	Both	1998-01	122-1254	Positive Type,Viton Material,Top Hat Style
Guide	Int	1998-01	140-8548	0.2750 I.D.,2.040 Length,0.4545 O.D.
	Exh	1998-01	140-8547	0.2750 I.D.,2.160 Length,0.4545 O.D.
Spring	Int	1998-01	160-1441	1.748 Length,Conical
	Exh	1998-01	160-1626	1.931 Length,Conical
Head Bolt Set		1998-01	220-1086	Torque To Yield,Torque To Yield, 2 Req.

67 198 C.I., (3.2L), DOHC, GAS, FI, 24 Valve, Vin S, EHB "Pentastar"
2014-15 V6 198 CID CHR3.2-EHB
BORE - 91mm/3.58"

PART		YEARS	PART NO.	NOTES
Valve	Exh	2014-15	13264	1.181 Head Diameter
Keeper	Both	2014-15	121-1082	3 RD Bead Type
Stem Seal	Both	2014-15	122-1442	Positive Type,Viton Material,Metal Clad Style

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

198 C.I., (3.2L), OHV, GAS, CARB, Vin A, B
1970-74 L6 198 CID

CHR198 68
BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1970-74	SB1750-2 1¾ O.D., 1½ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.	
	Exh	1970-74		SB1437-1 17/16 O.D., 1¼ I.D., 7/32 Depth
Valve	Int	1970-74	1.620 Head Diameter, 2 Groove, +15 O/S Stem Available	
	Exh	1970-74		01265 1.360 Head Diameter, 4 Groove
Keeper	Int	1970-74	2 RD Bead Type	
	Exh	1970-74		121-1014 4 RD Bead Type
Stem Seal	Int	1970-74	Positive Type, Poly Material, All Rubber Style Umbrella Type, Poly Material, Umbrella Style Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D.	
	Exh	1970-74		122-1051
	Both	1970-74		122-1015
Guide	Int	1970-74	140-6113 0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide	
		1970-74		140-9113 0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1970-74	140-6108 0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)	
		1970-74		140-9108 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Lifter	Both	1970-74	VL31 Mechanical High Performance Type	
Push Rod	Both	1970-74	190-1237 9.975 Length, W/ Mechanical Lifters	

199 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin A, B, E, J, P "AMC"
1965-70 L6 199 CID

ANC199 69
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-70	SB1875-1 17/8 O.D., 15/8 I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material
	Exh	1965-70	
Valve	Int	1965-66	00550 1.787 Head Diameter, 4 Groove
		1967-70	
	Exh	1965-66	00549 1.406 Head Diameter, 4 Groove
		1967-70	
Keeper	Both	1965-66	4 RD Bead Type
		1967-70	
Stem Seal	Both	1965-70	Umbrella Type, GF Nylon Material, Umbrella Style Positive Type, Viton Material, Ring & Band Style
		1965-70	
Guide	Both	1965-70	140-6108 0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1965-70	
Spring	Both	1965-70	160-1140 2.260 Length
Lifter	Both	1965-70	VL89 Hydraulic Type

201 C.I., (3.3L), OHV, FLEX, GAS, FI, 12 Valve, Vin 3, E, G, H, R, T, U
1990-10 V6 201 CID

CHR3.3 70
BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-00	SB1875-54 17/8 O.D., 1.575T I.D., 0.2900 Depth
		2001-10	

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

70 201 C.I., (3.3L), OHV, FLEX, GAS, FI, 12 Valve, Vin 3, E, G, H, R, T, U CHR3.3
 (cont.) 1990-10 V6 201 CID BORE - 93mm/3.66"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1990-00	SB1562-74	1 ⁹ / ₁₆ O.D., 1.290T I.D., 0.3240 Depth
		2001-10	SB1500-71	1 ¹ / ₂ O.D., 1.240 I.D., 0.3170 Depth
Valve	Int	1990-97	01671	1.791 Head Diameter, 2 Groove, 4.949 Overall Length, 0.3127 Stem
		1998-00	01904	1.791 Head Diameter, 2 Groove, 5.021 Overall Length, 0.3128 Stem, Includes Flex-Fuel
		2001-10	01993	1.890 Head Diameter, 4 Groove, 4.969 Overall Length, 0.2734 Stem Dia., Includes Flex-Fuel
	Exh	1990-97	01670	1.476 Head Diameter, 4 Groove, 4.974 Overall Length, 0.3116 Stem
		1998-00	01905	1.476 Head Diameter, 4 Groove, 5.045 Overall Length, Includes Flex-Fuel
		2001-10	01994	1.398 Head Diameter, 4 Groove, 5.023 Overall Length, 0.2722 Stem Dia., Includes Flex-Fuel
Keeper	Int	1990-00	121-1071	2 RD Bead Type, W/ .3128 Stem
	Exh	1990-00	121-1052	4 RD Bead Type, W/ .3116 Stem
	Both	2001-10	121-1089	4 RD Bead Type, W/ 7mm Stem
Stem Seal	Both	1990-00	122-1079	Positive Type, Viton Material, All Rubber Style
		2001-10	122-1350	Positive Type, Viton Material, All Rubber Style
Guide	Both	1990-97	140-8219	0.3145 I.D., 2.275 Length, 0.4935 O.D., +2 O/S Available
		1998-00	140-8177	0.3162 I.D., 2.382 Length, 0.5528 O.D.
		2001-10	140-3023	0.2751 I.D., 2.275 Length, 0.4934 O.D., W/ 7 mm Valve Stem, +2 O/S Available.
Spring	Both	1990-00	160-1199	1.959 Length
		2001-10	160-1443	2.065 Length, Conical
Lifter	Both	1990-08	VL106	Hydraulic Roller Type, W/ Metering Socket., Always Rotate Oil Hole Up When Installing Lifter; NOTE Large Bore W/.904 O.D. Body
		2009-10	VL560	Hydraulic Roller Type, NOTE: Small Bore W/ .842 O.D. Body
Rocker Components	Both	1990-00	180-1288	Rocker Arm
		1990-00	186-1121	Rocker Arm Shaft
Push Rod	Both	1990-00	190-1509	5.125 Length
Head Bolt Set		1990-96	220-1017	Torque To Yield, W/O Washers, Services Engine
		1997-07	220-1095	Torque To Yield, W/Washers, Services Engine
Head Saver Shim		1990-00	230-2008L	Left, New Hgt.- 4.2480 - 4.2530; Min. Hgt.- 4.2400
		1990-00	230-2008R	Right, New Hgt.- 4.2480 - 4.2530; Min. Hgt.- 4.2400

71 215 C.I., (3.5L), SOHC, GAS, FI, 24 Valve, Vin 4, F, G, K, M, V CHR3.5
 1993-10 V6 215 CID BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Valve	Int	1993-97	01712	1.378 Head Diameter
		1998-10	01901	1.437 Head Diameter
	Exh	1993-10	01713	1.142 Head Diameter
Keeper	Both	1993-10	121-1093	3 RD Bead Type
Stem Seal	Both	1993-10	122-1254	Positive Type, Viton Material, Top Hat Style
Guide	Int	1993-10	140-8548	0.2750 I.D., 2.040 Length, 0.4545 O.D.
	Exh	1993-10	140-8547	0.2750 I.D., 2.160 Length, 0.4545 O.D.
Spring	Int	1993-97	160-1342	1.825 Length, Conical
		1998-10	160-1441	1.748 Length, Conical
	Exh	1993-97	160-1343	1.835 Length, Conical
		1998-10	160-1626	1.931 Length, Conical

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

215 C.I., (3.5L), SOHC, GAS, FI, 24 Valve, Vin 4, F, G, K, M, V
1993-10 V6 215 CID

CHR3.5 71
BORE - 96mm/3.78" (cont.)

PART	YEARS	PART NO.	NOTES
Head Bolt Set	1993-97	220-1030	Torque To Yield,Torque To Yield, 2 Req.
	1998-10	220-1086	Torque To Yield,Torque To Yield, 2 Req.
Head Saver Shim	1993-97	230-2072L	Left,New Hgt.- 4.739 - 4.749, Min. Hgt. 4.731
	1993-97	230-2072R	Right,New Hgt.- 4.739 - 4.749, Min. Hgt. 4.731
	1998-10	230-2165	New Hgt.-4.7392-4.7490, Min Hgt.4.7312; 2 Required

218 C.I., (3.6L), L-HEAD, GAS, CARB, 12 Valve
1949-54 L6 218 CID

CHR218 72
BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1949-54	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1949-54	SB1516E-1	1.5160 O.D.,1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth
Valve	Int 1949-54	00349	1.531 Head Diameter
	Exh 1949-54	00185	1.407 Head Diameter
Keeper	Both 1949-54	121-1001	2 RD Bead Type
Guide	Int 1949-54	140-1338	0.3425 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side
	Exh 1949-54	140-1337	0.3445 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side

220 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin G, ERB
2011-17 V6 220 CID

CHR3.6-ERB 73
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Valve	Int 2011-16	13263	1.535 Head Diameter
	Exh 2011-16	13264	1.181 Head Diameter
Keeper	Both 2011-16	121-1082	3 RD Bead Type
Stem Seal	Both 2011-16	122-1442	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2011-16	140-3182	0.2365 I.D.,1.815 Length,0.4355 O.D.,+ 2 O/S Also Available
Spring	Both 2011-16	160-1656	2.055 Length,Conical
Lifter	Both 2011-16	VL561	Hydraulic Lash Adjuster Type
Rocker Components	Both 2011-16	180-1332	Roller Cam Follower

225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve, Vin 6, B, C, D, E, F, G, H, J, K, L, M, N, P, W, X
1960-87 L6, V 225 CID

CHR225 74
BORE - 86.4mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1960-87	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.620 Valve Head Dia.
	Exh 1960-87	SB1437-1	1 $\frac{7}{16}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth
Valve	Int 1960-87	00567	1.620 Head Diameter,2 Groove,+15 O/S Stem Available
	Exh 1960-87	00746S	1.360 Head Diameter,Stellite Face, 2 Groove,Premium & Medium H-Duty
	1960-87	01265	1.360 Head Diameter,4 Groove,Except Premium & Medium H-Duty
Keeper	Exh 1960-87	121-1014	4 RD Bead Type
	Both 1960-87	121-1000	2 RD Bead Type
Stem Seal	Int 1960-87	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh 1960-87	122-1051	Umbrella Type,Poly Material,Umbrella Style
	Both 1960-87	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D.

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

74 225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve, Vin 6, B, C, D, E, F, G, H, J, K, L,
(cont.) M, N, P, W, X
1960-87

L6, V 225 CID

CHR225
BORE - 86.4mm/3.41"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1960-87	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1960-87	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1960-87	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1960-87	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1960-87	160-1122	2.000 Length,W/O Rotator, Exc. Premium, Med. H/D and Model D500 L/D Engines
Lifter	Both	1960-80	VL31	Mechanical High Performance Type
		1981-87	VL88	Hydraulic Type
Push Rod	Both	1960-80	190-1237	9.975 Length,W/ Mechanical Lifters
		1981-87	190-1449	9.985 Length,W/ Hyd. Lifters

75 225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve "GM"
1965-71

V6 225 CID

AMC225
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1965-71	SB1750-1	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth,+10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	1965-71	SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1965-71	00975	1.625 Head Diameter
	Exh	1965-71	00976	1.375 Head Diameter
Stem Seal	Both	1965-71	122-1047	Positive Type,Poly Material,2-Ring Style
Guide	Int	1965-71	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1965-71	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
	Exh	1965-71	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1965-71	140-7460	0.3430 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1965-71	140-9460	0.3430 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9460H)
Spring	Both	1965-71	160-1133	2.030 Length
Push Rod	Both	1965-71	190-1349	8.723 Length

76 226 C.I., (3.7L), SOHC, GAS, FI, 12 Valve, Vin K
2002-12

V6 226 CID

CHR3.7
BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2002-12	SB2000-51	2.000 O.D.,1.690T I.D.,0.2700 Depth
		2002-12	SB1500-50	1 $\frac{1}{2}$ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Non-Magnetic (N) Material,Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	2002-12	SB1562-66	1 $\frac{1}{16}$ O.D.,1.265T I.D.,0.2800 Depth,NOTE: Alternate O.D., Check Casting Before Use
Valve	Int	2002-12	01918	1.915 Head Diameter
	Exh	2002-12	02036	1.457 Head Diameter
Keeper	Both	2002-12	121-1093	3 RD Bead Type
Stem Seal	Both	2002-12	122-1344	Positive Type,Viton Material,Top Hat Style

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

226 C.I., (3.7L), SOHC, GAS, FI, 12 Valve, Vin K
2002-12 V6 226 CID

CHR3.7 76
BORE - 93mm/3.66" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	2002-12	140-3026	0.2752 I.D.,1.702 Length,0.4720 O.D.,+2 O/S Available
Spring	Int	2002-12	160-1612	1.907 Length,Conical
	Exh	2002-04	160-1613	1.919 Length,Conical
		2005-12	160-1614	1.898 Length,Conical, W/ External Shroud
Lifter	Both	2002-04	VL107	Hydraulic Lash Adjuster Type
		2005-12	VL562	Hydraulic Lash Adjuster Type
Rocker Components	Both	2002-12	180-1335	Roller Cam Follower
Head Bolt Set		2002-12	220-1097	Torque To Yield,Services Engine
Head Saver Shim		2002-12	230-2133	New Hgt. - 4.592; 2 Required

226 C.I., (3.7L), L-HEAD, GAS, CARB, 12 Valve
1962-65 L6 226 CID

AMC226 77
BORE - 84.1mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1962-65	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1962-65	SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1962-65	00210	1.328 Head Diameter,1 Groove
Keeper	Exh	1962-65	121-1003	1 SQ Bead Type
Guide	Both	1962-65	140-1515	0.3427 I.D.,2.563 Length,0.6573 O.D.

230 C.I., (3.8L), L-HEAD, GAS, CARB
1946-59 L6 230 CID

CHR230 78
BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1946-59	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1946-59	SB1516E-1	1.5160 O.D.,1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth
Valve	Int	1946-59	00349	1.531 Head Diameter
	Exh	1946-59	00185	1.407 Head Diameter
Keeper	Both	1946-59	121-1001	2 RD Bead Type
Stem Seal	Both	1946-59	122-1014	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D.
Guide	Int	1946-59	140-1338	0.3425 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side
	Exh	1946-59	140-1337	0.3445 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side

232 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin B, C, E, F, G, L, M, P, Q, S, T, V, W
1964-79 L6 232 CID

AMC232 79
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-79	SB1875-1	1 $\frac{7}{8}$ O.D.,1 $\frac{5}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1964-79	SB1500-1	1 $\frac{1}{2}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1964-66	00550	1.787 Head Diameter,4 Groove
		1967-72	01442	1.787 Head Diameter,1 Groove
		1973-79	01260	1.787 Head Diameter,4 Groove
	Exh	1964-66	00549	1.406 Head Diameter,4 Groove
		1967-72	01441	1.406 Head Diameter,1 Groove

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

79 232 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin B, C, E, F, G, L, M, P, Q, S, T, AMC232
 (cont.) V, W BORE - 95.3mm/3.75"
 1964-79 L6 232 CID

PART	YEARS	PART NO.	NOTES
Valve	Exh	1973-79 01325	1.406 Head Diameter,4 Groove,W/O Rotator
Keeper	Exh	1973-74 121-1003	1 SQ Bead Type,1 ¹ / ₃₂ Stem In Groove Area
	Both	1964-79 121-1014	4 RD Bead Type
		1967-72 121-1007	1 SQ Bead Type, ³ / ₈ Stem
Stem Seal	Both	1964-79 122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
		1964-79 122-1075	Positive Type,Viton Material, Ring & Band Style
Guide	Both	1964-79 140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1964-79 140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1964-79 160-1023	2.034 Length,W/O Rotator, 1978-79 W/ 2 Bbl. Carb.
Lifter	Both	1964-79 VL89	Hydraulic Type
Rocker Components	Both	1974-79 181-1028	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1974-79 183-1014	Fulcrum, Short
		1974-79 183-1028	Bridge,When Replacing, Fulcrum # 183-1014 Must Also Be Used
Push Rod	Both	1972-76 190-1429	9.594 Length,From Eng. Code # 502A,B,E & F07(W/ Stamped Steel Rocker Arms)
		1977-79 190-1440	9.622 Length

80 230 C.I., (3.8L), OHV, FLEX, GAS, FI, 12 Valve, Vin 1, L, P, EGH CHR3.8
 1991-11 V6 230 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-00 2001-11 SB1875-54 SB1937-55	1 ⁷ / ₈ O.D.,1.575T I.D.,0.2900 Depth 1 ¹⁵ / ₁₆ O.D.,1.640T I.D.,0.2900 Depth
	Exh	1991-00 2001-11 SB1562-74 SB1500-71	1 ⁹ / ₁₆ O.D.,1.290T I.D.,0.3240 Depth 1 ¹ / ₂ O.D.,1.240 I.D.,0.3170 Depth
Valve	Int	1991-99 01671	1.791 Head Diameter,2 Groove,4.949 Overall Length, 0.3127 Stem
		2000-00 01904	1.791 Head Diameter,2 Groove,5.021 Overall Length, 0.3128 Stem, Includes Flex-Fuel
		2001-11 01993	1.890 Head Diameter,4 Groove,4.969 Overall Length, 0.2734 Stem Dia., Includes Flex-Fuel
	Exh	1991-99 01670	1.476 Head Diameter,4 Groove,4.974 Overall Length, 0.3116 Stem
		2000-00 01905	1.476 Head Diameter,4 Groove,0.3116 Stem, Includes Flex-Fuel
		2001-11 01994	1.398 Head Diameter,4 Groove,5.023 Overall Length, 0.2722 Stem Dia., Includes Flex-Fuel
Keeper	Int	1991-00 121-1071	2 RD Bead Type
	Exh	1991-00 121-1052	4 RD Bead Type
	Both	2001-11 121-1089	4 RD Bead Type
Stem Seal	Both	1991-00 122-1079	Positive Type,Viton Material,All Rubber Style
		2001-11 122-1350	Positive Type,Viton Material,All Rubber Style
Guide	Both	1991-00 140-8219	0.3145 I.D.,2.275 Length,0.4935 O.D.,+2 O/S Available
		2001-11 140-3023	0.2751 I.D.,2.275 Length,0.4934 O.D.,W/ 7 mm Valve Stem, +2 O/S Available.
Spring	Both	1991-00 160-1199	1.959 Length
		2001-11 160-1443	2.065 Length,Conical

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

230 C.I., (3.8L), OHV, FLEX, GAS, FI, 12 Valve, Vin 1, L, P, EGH
1991-11 V6 230 CID

CHR3.8 80
BORE - 96mm/3.78" (cont.)

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1991-08	VL106	Hydraulic Roller Type,W/ Metering Socket.,Always Rotate Oil Hole Up When Installing Lifter; NOTE: Large Bore W/.904 O.D. Body
		2009-11	VL560	Hydraulic Roller Type,NOTE: Small Bore W/ .842 O.D. Body
Rocker Components	Both	1991-00	180-1288	Rocker Arm
		1991-00	186-1121	Rocker Arm Shaft
Push Rod	Both	1991-00	190-1509	5.125 Length
Head Bolt Set		1994-96	220-1017	Torque To Yield,W/O Washers, Services Engine
		1997-07	220-1095	Torque To Yield,W/Washers, Services Engine
Head Saver Shim		1991-01	230-2118L	Left,New Hgt. - 0.954 - Min. Hgt. - N/A, NOTE: Measured From Outer Head Bolt
		1991-01	230-2118R	Right,New Hgt. - 0.954 - Min. Hgt. - N/A, NOTE: Measured From Outer Head Bolt

236 C.I., (3.9L), GAS, CARB, 12 Valve
1942-52 L6 236 CID

CHR236 81
BORE - 87.3mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1942-52	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1942-52	SB1640E-1	1.640 O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth
Valve	Int	1942-52	00298	1.718 Head Diameter,2 Groove
	Exh	1948-52	00257	1.501 Head Diameter,2 Groove, W/.340 Stem,From Eng. # 175885
Keeper	Both	1942-52	121-1001	2 RD Bead Type
Guide	Int	1942-52	140-1338	0.3425 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side
	Exh	1942-52	140-1337	0.3445 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side

237 C.I., (3.9L), GAS, CARB, 12 Valve
1942-52 L6 237 CID

CHR237 82
BORE - 87.3mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1942-52	SB1640E-1	1.640 O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth
	Exh	1942-52	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1942-52	00298	1.718 Head Diameter,2 Groove
	Exh	1948-52	00257	1.501 Head Diameter,2 Groove, W/.340 Stem,From Eng. # 175885
Keeper	Both	1942-52	121-1001	2 RD Bead Type
Guide	Int	1942-52	140-1338	0.3425 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side
	Exh	1942-52	140-1337	0.3445 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side

239 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin M
1987-87 V6 239 CID

CHR3.9CA 83
BORE - 99.3mm/3.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-87	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1987-87	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1987-87	00938	1.780 Head Diameter,2 Groove,+15 O/S Stem Available

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

83 239 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin M
(cont.) 1987-87 V6 239 CID

CHR3.9CA
BORE - 99.3mm/3.91"

PART		YEARS	PART NO.	NOTES
Valve	Exh	1987-87	01419	1.517 Head Diameter,2 Groove,+15 O/S Stem Available
Keeper	Both	1987-87	121-1000	2 RD Bead Type
Stem Seal	Both	1987-87	122-1015	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Int	1987-87	140-5610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1987-87	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1987-87	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1987-87	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Exh	1987-87	160-1018	1.810 Length,W/ Rotator
	Both	1987-87	160-1122	2.000 Length,W/O Rotator
Lifter	Both	1987-87	VL89	Hydraulic Type
Rocker Components	Int	1987-87	180-1077	Rocker Arm,L.H., Shaft Not Incl.
	Exh	1987-87	180-1078	Rocker Arm,R.H., Shaft Not Incl.
Push Rod	Both	1987-87	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

84 239 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin X
1988-03 V6 239 CID

CHR3.9FI
BORE - 99.3mm/3.91"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-91	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.780 Valve Head Dia.
		1992-03	SB2000-36	2.000 O.D.,1 ³ / ₄ I.D., ³ / ₁₆ Depth,W/ 1.920 Valve Head Dia.
	Exh	1988-91	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.517 Head Dia.
		1992-03	SB1687-16	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁹ / ₁₆ Depth,W/ 1.624 Valve Head Dia.
Valve	Int	1988-91	00938	1.780 Head Diameter,2 Groove,+15 O/S Stem Available
		1992-03	01714	1.920 Head Diameter,1 Groove, +15 O/S Available
	Exh	1988-91	01419	1.517 Head Diameter,2 Groove,+15 O/S Stem Available
		1992-03	01715	1.624 Head Diameter,1 Groove,1 Groove, +15 O/S Available
Keeper	Both	1988-91	121-1000	2 RD Bead Type
		1992-03	121-1021	1 RD Bead Type
Stem Seal	Int	1992-03	122-1204	Positive Type,Viton Material,Metal Clad Style
	Exh	1992-03	122-1205	Positive Type,Viton Material,Metal Clad Style
	Both	1988-91	122-1015	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Int	1988-91	140-5610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1988-91	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		1992-03	140-7847	0.3135 I.D.,2.250 Length,0.5020 O.D.,W/ .3115 Stem Dia., W/ .534 Seal Boss
	Exh	1988-91	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1988-91	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
		1992-03	140-8494	0.3135 I.D.,2.435 Length,0.5020 O.D.,W/ .3115 Stem Dia., W/ .534 Seal Boss

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK**239 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin X**
1988-03 V6 239 CID**CHR3.9FI 84**
BORE - 99.3mm/3.91" (cont.)

PART	YEARS	PART NO.	NOTES	
Spring	Int	1988-91	160-1069	2.160 Length
	Exh	1988-91	160-1229	1.837 Length
	Both	1992-03	160-1378	1.967 Length,Conical
Lifter	Both	1988-03	VL106	Hydraulic Roller Type,W/ Metering Socket.,Always Rotate Oil Hole Up When Installing Lifter
Rocker Components	Both	1988-91	180-1079	Rocker Arm,L.H.
		1988-91	180-1080	Rocker Arm,R.H.
		1992-03	180-1313	Rocker Arm
Push Rod	Both	1988-91	190-1507	6.777 Length
		1992-03	190-1525	6.901 Length
Head Saver Shim		1992-03	230-2110	New Hgt.- Min. Hgt - N/A

241 C.I., (4.0L), SOHC, GAS, FI, 24 Valve, Vin 6, X
2007-11 V6 241 CID**CHR4.0 85**
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2007-11	SB1250-63	1¼ O.D.,0.930 I.D.,0.3250 Depth
Valve	Int	2007-11	01901	1.437 Head Diameter
	Exh	2007-11	01713	1.142 Head Diameter
Keeper	Both	2007-11	121-1093	3 RD Bead Type
Stem Seal	Both	2007-11	122-1254	Positive Type,Viton Material,Top Hat Style
Guide	Int	2007-11	140-8548	0.2750 I.D.,2.040 Length,0.4545 O.D.
	Exh	2007-11	140-8547	0.2750 I.D.,2.160 Length,0.4545 O.D.
Head Saver Shim		2007-11	230-2165	New Hgt.-N/A, Min Hgt.-N/A; 2 Required

242 C.I., (4.0L), OHV, GAS, FI, 12 Valve, Vin L, M, S "JEEP"
1987-06 L6 242 CID**AMC242 86**
BORE - 98.4mm/3.88"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-06	SB2000-1	2.000 O.D.,1¼ I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material
	Exh	1987-06	SB1562-36	1⅞ O.D.,1⅝ I.D.,3/16 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1987-98	01557	1.910 Head Diameter,1 Round Groove,1 Round Groove. +15 O/S Stem Available
	Exh	1999-06	01916	1.910 Head Diameter,3 Groove,+15 O/S Stem Available
		1987-98	01556	1.500 Head Diameter,1 Round Groove,+15 O/S Stem Available
		1999-06	01917	1.500 Head Diameter,3 Groove,+15 O/S Stem Available
Keeper	Both	1987-98	121-1021	1 RD Bead Type
		1999-06	121-1083	3 RD Bead Type
Stem Seal	Int	1987-06	122-1052	Positive Type,Viton Material,Ring & Band Style,Optional Aftermarket Version; Use W/ .502 O.D. Guide (140-9848)
		1987-06	122-1204	Positive Type,Viton Material,Metal Clad Style,OEM Version; Use W/ Guide (140-7847); Black
	Exh	1987-06	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal,Optional Aftermarket Version; Use W/ .502 O.D. Guide (140-9848)
		1987-06	122-1205	Positive Type,Viton Material,Metal Clad Style,OEM Version; Use W/ Guide (140-8494); Brown
Guide	Int	1987-06	140-7847	0.3135 I.D.,2.250 Length,0.5020 O.D.,W/ .534 Seal Boss
	Exh	1987-06	140-8494	0.3135 I.D.,2.435 Length,0.5020 O.D.,W/ .534 Seal Boss
	Both	1987-06	140-9848	0.3135 I.D.,2.438 Length,0.5020 O.D.,Optional Conversion Guide

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

86 242 C.I., (4.0L), OHV, GAS, FI, 12 Valve, Vin L, M, S "JEEP" AMC242
 (cont.) 1987-06 L6 242 CID BORE - 98.4mm/3.88"

PART	YEARS	PART NO.	NOTES	
Spring	Both	1987-95	160-1378	1.967 Length,Conical
		1996-06	160-1483	1.930 Length,Conical
Lifter	Both	1987-06	VL89	Hydraulic Type
Rocker Components	Both	1987-06	180-1236	Rocker Arm
		1987-06	181-1037	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1987-06	183-1014	Fulcrum, Short
		1987-06	183-1028	Bridge,When Replacing, Fulcrum # 183-1014 Must Also Be Used, Cyl. # 1, 2, 5, 6
Push Rod	Both	1987-06	192-1442	9.650 Length,0.312 Dia.
Head Bolt Set		1996-06	220-1091	Torque To Yield,Services Engine, W/Torx Head
Head Saver Shim		1987-06	230-2121	New Hgt. 3.465

87 250 C.I., (4.1L), GAS, CARB "AMC" AMC250
 1959-61 V8 250 CID BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1959-61	SB1875-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1959-61	SB1500-1	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1959-61	00550	1.787 Head Diameter,4 Groove
	Exh	1959-61	00549	1.406 Head Diameter,4 Groove
Keeper	Both	1959-61	121-1014	4 RD Bead Type
Stem Seal	Both	1959-61	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Both	1959-61	140-1919	0.3740 I.D.,2.250 Length,0.6006 O.D.
Lifter	Both	1959-61	VL31	Mechanical High Performance Type

88 251 C.I., (4.1L), L-HEAD, GAS, CARB, 12 Valve CHR251
 1950-68 L6 251 CID BORE - 87.3mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1950-68	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1950-68	SB1640E-1	1.640 O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth
Valve	Int	1950-68	00298	1.718 Head Diameter,2 Groove
	Exh	1950-68	00257	1.501 Head Diameter,2 Groove, W/.340 Stem
Keeper	Both	1950-68	121-1001	2 RD Bead Type
Guide	Int	1950-68	140-1338	0.3425 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side
	Exh	1950-68	140-1337	0.3445 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side

89 258 C.I., (4.2L), OHV, GAS, CARB, Vin A, B, C, M, T "AMC" AMC258
 1971-90 L6 258 CID BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1971-90	SB1875-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1971-90	SB1500-1	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1971-72	00550	1.787 Head Diameter,4 Groove
		1973-80	01260	1.787 Head Diameter,4 Groove
		1981-90	01442	1.787 Head Diameter,1 Groove

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

258 C.I., (4.2L), OHV, GAS, CARB, Vin A, B, C, M, T "AMC"
1971-90 L6 258 CID

AMC258 89
BORE - 95.3mm/3.75" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1971-72	00549	1.406 Head Diameter,4 Groove
		1973-80	01325	1.406 Head Diameter,4 Groove,W/O Rotator
		1981-90	01441	1.406 Head Diameter,1 Groove
Keeper	Exh	1973-74	121-1003	1 SQ Bead Type, ¹ / ₃₂ Stem In Groove Area
	Both	1971-80	121-1014	4 RD Bead Type
		1981-90	121-1007	1 SQ Bead Type, ³ / ₈ Stem
Stem Seal	Both	1971-90	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
		1971-90	122-1075	Positive Type,Viton Material, Ring & Band Style, ¹ / ₃₂ Stem
Guide	Int	1971-90	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	Both	1971-90	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1971-75	160-1140	2.260 Length
		1976-90	160-1023	2.034 Length,W/O Rotator
Lifter	Both	1971-90	VL89	Hydraulic Type
Rocker Components	Both	1974-82	181-1028	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1974-90	183-1014	Fulcrum, Short
		1974-90	183-1028	Bridge,When Replacing, Fulcrum # 183-1014 Must Also Be Used, Cyl. # 1, 2, 5, 6
		1983-90	180-1236	Rocker Arm
		1983-90	181-1037	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge,Cyl. # 1, 2, 5, 6
Push Rod	Both	1972-75	190-1429	9.594 Length,From Eng. Code # 502A,B,E & F07(W/ Stamped Steel Rocker Arms)
		1976-80	190-1440	9.622 Length
		1981-88	190-1454	9.700 Length,+40 O/S (190-1454+40) Available
		1989-90	190-1529	9.728 Length

265 C.I., (4.3L), GAS, CARB, 12 Valve
1951-60 L6 265 CID

CHR265 90
BORE - 87.3mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1951-60	SB1812-1	1 ¹ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1951-60	SB1640E-1	1.640 O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth
Valve	Int	1951-60	00298	1.718 Head Diameter,2 Groove
	Exh	1951-54	00257	1.501 Head Diameter,2 Groove, W/.340 Stem
Keeper	Both	1951-60	121-1001	2 RD Bead Type
Guide	Int	1951-60	140-1338	0.3425 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side
	Exh	1951-60	140-1337	0.3445 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side

270 C.I., (4.4L), OHV, GAS, CARB, 16 Valve
1955-56 V8 270 CID

CHR270 91
BORE - 92.1mm/3.63"

PART	YEARS	PART NO.	NOTES	
Guide	Both	1955-56	140-9112	0.3745 I.D.,2.250 Length,0.5020 O.D.
Lifter	Both	1955-56	VL8	Hydraulic Type

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

92 273 C.I., (4.5L), OHV, GAS, CARB, 16 Valve
1964-67 V8 273 CID

CHR273
BORE - 92.1mm/3.63"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-67	SB1812-1 1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material	
	Exh	1964-67		SB1625-2 1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1964-67	00938 1.780 Head Diameter, 2 Groove, +15 O/S Stem Available	
	Exh	1964-67		01329 1.500 Head Diameter, 4 Groove, OEM # 2465339, +15 O/S Stem Available
Keeper	Int	1964-67	121-1000 2 RD Bead Type	
	Exh	1964-67		121-1014 4 RD Bead Type
Stem Seal	Both	1965-67	122-1015 Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D.	
		1965-67	122-1041 Umbrella Type, Poly Material, Umbrella Style	
Guide	Int	1964-67	140-6113 0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide	
		1964-67	140-9113 0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide	
	Exh	1964-67	140-6108 0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)	
		1964-67	140-9108 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)	
Spring	Both	1964-67	160-1122 2.000 Length, W/O Rotator	
Lifter	Both	1964-67	VL31 Mechanical High Performance Type	
		1964-67		VL89 Hydraulic Type
Rocker Components	Both	1964-67	180-1077 Rocker Arm, L.H., Shaft Not Incl., W/ Hydraulic Lifter	
		1964-67		180-1078 Rocker Arm, R.H., Shaft Not Incl. W/ Hydraulic Lifter
		1964-67		186-1100 Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both	1964-67	190-1342 7.491 Length	
		1964-67		190-1450 7.500 Length, +15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available, NOTE: Must be used with adjustable valve train.

93 277 C.I., (4.5L), OHV, GAS, CARB
1956-57 V8 277 CID

CHR277
BORE - 96.84mm/3.81"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1956-57	SB1937-1 1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 1/4 Depth
	Exh	1956-57		SB1687-2 1^{11}/_{16} O.D., 1^{7}/_{16} I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1956-57	00514 1.844 Head Diameter, 2 Groove
	Exh	1956-57		00518 1.563 Head Diameter, 4 Groove
Keeper	Int	1956-57	121-1000 2 RD Bead Type
	Exh	1956-57		121-1014 4 RD Bead Type
Stem Seal	Int	1956-57	122-1031 Positive Type, Poly Material, 2-Ring Style
Guide	Int	1956-57	140-6110 0.3740 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1956-57	140-9110 0.3740 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1956-57	140-6108 0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1956-57	140-9108 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Lifter	Both	1956-57	VL31 Mechanical High Performance Type

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

287 C.I., (4.7L), OHV, GAS, CARB, 16 Valve, Vin H, N, T "AMC"
1963-66 V8 287 CID

AMC287 94
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1963-66	SB1875-1 1 7/8 O.D., 1 5/8 I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	1963-66		SB1500-1 1 1/2 O.D., 1 1/4 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1963-66	00550 1.787 Head Diameter, 4 Groove
	Exh	1963-66		00549 1.406 Head Diameter, 4 Groove
Keeper	Both	1963-66	121-1014 4 RD Bead Type
Stem Seal	Both	1963-66	122-1017 Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.594 O.D.
		1963-66	122-1038 Umbrella Type, Poly Material, Umbrella Style
Guide	Both	1963-66	140-1919 0.3740 I.D., 2.250 Length, 0.6006 O.D.
Spring	Both	1963-66	160-1140 2.260 Length
Lifter	Both	1963-66	VL89 Hydraulic Type

287 C.I., (4.7L), SOHC, FLEX, GAS, FI, 16 Valve, Vin J, N, P
1999-13 V8 287 CID

CHR4.7 95
BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1999-13	SB2000-51 2.000 O.D., 1.690T I.D., 0.2700 Depth	
	Exh	1999-13		SB1500-50 1 1/2 O.D., 1.203T I.D., 0.2800 Depth, Also Available In Non-Magnetic (N) Material, Seat May Need To Be Machined To Achieve Correct Depth
		1999-13		SB1562-66 1 9/16 O.D., 1.265T I.D., 0.2800 Depth, NOTE: Alternate O.D., Check Casting Before Use
Valve	Int	1999-07	01918 1.915 Head Diameter, W/.3724 Tip To Groove Length	
		2008-13	13251 1.915 Head Diameter, W/.2933 Tip To Groove Length	
	Exh	1999-07	01919 1.457 Head Diameter, W/.4283 Tip To Groove Length; Except H. O.	
		2002-05	02036 1.457 Head Diameter, W/.4283 Tip To Groove Length; Includes H.O., Except 2006-07 H.O.	
2008-13	13252 1.457 Head Diameter, W/.3890 Tip To Groove Length; Includes H.O.			
Keeper	Both	1999-13	121-1093 3 RD Bead Type	
Stem Seal	Both	1999-07	122-1344 Positive Type, Viton Material, Top Hat Style	
		2008-13	122-NOTE Sold As Part Of 160-1609SSA Valve Spring Assembly	
Guide	Both	1999-07	140-3026 0.2752 I.D., 1.702 Length, 0.4720 O.D., +2 O/S Available	
		2008-13	140-3149 0.2752 I.D., 1.820 Length, 0.4720 O.D.	
Spring	Both	1999-07	160-1432 1.929 Length, Conical, Except 2006-07 H.O.	
		2008-13	160-1609SSA 1.915 Length, Conical W/ External Shroud & Valve Stem Seal Assy., NOTE: OEM # 53021994AA Assy.	
Lifter	Both	1999-07	VL107 Hydraulic Lash Adjuster Type	
		2008-13	VL562 Hydraulic Lash Adjuster Type	
Rocker Components	Both	1999-13	180-1335 Roller Cam Follower	
Head Bolt Set		1999-13	220-1098 Torque To Yield, Services Engine	
Head Saver Shim		1999-09	230-2125 New Hgt. 4.585 - 4.592; Min. Hgt. 4.5750; NOTE: 2 Req.	

290 C.I., (4.8L), GAS, CARB, Vin M, N "AMC"
1967-69 V8 290 CID

AMC290 96
BORE - 95.25mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1967-69	SB1875-1 1 7/8 O.D., 1 5/8 I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

96 290 C.I., (4.8L), GAS, CARB, Vin M, N "AMC"
(cont.) 1967-69 V8 290 CID

AMC290
BORE - 95.25mm/3.70"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1967-69	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1967-69	01442	1.787 Head Diameter, 1 Groove
	Exh	1967-69	01441	1.406 Head Diameter, 1 Groove
Keeper	Both	1967-69	121-1007	1 SQ Bead Type
Stem Seal	Both	1967-69	122-1031	Positive Type, Poly Material, 2-Ring Style
		1967-69	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Both	1967-69	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1967-69	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1967-69	160-1161	2.068 Length
Lifter	Both	1967-69	VL89	Hydraulic Type
Rocker Components	Both	1967-69	181-1021	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) ¾ Nut
		1967-69	184-1023	Stud, ¾-7/16
		1967-69	184-1038	Nut, ¾
Push Rod	Both	1967-69	192-1381	7.735 Length

97 303 C.I., (5.0L), GAS, CARB
1956-56 V8 303 CID

CHR303
BORE - 96.9mm/3.80"

PART		YEARS	PART NO.	NOTES
Valve	Exh	1956-56	00518	1.563 Head Diameter, 4 Groove
Keeper	Exh	1956-56	121-1014	4 RD Bead Type
Guide	Int	1956-56	140-6110	0.3740 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1956-56	140-9110	0.3740 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1956-56	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1956-56	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

98 304 C.I., (5.0L), OHV, GAS, CARB, Vin H, I, M "AMC"
1970-81 V8 304 CID

AMC304
BORE - 95.3mm/3.75"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1970-81	SB1875-1	1⅞ O.D., 1⅝ I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material
	Exh	1970-81	SB1500-1	1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1973-80	01260	1.787 Head Diameter, 4 Groove
		1981-81	01442	1.787 Head Diameter, 1 Groove, Jeep Only
	Exh	1973-80	01325	1.406 Head Diameter, 4 Groove
		1981-81	01441	1.406 Head Diameter, 1 Groove, Jeep Only
Keeper	Both	1973-80	121-1014	4 RD Bead Type
		1981-81	121-1007	1 SQ Bead Type, Jeep Only
Stem Seal	Both	1970-81	122-1031	Positive Type, Poly Material, 2-Ring Style
		1970-81	122-1059	Umbrella Type, GF Nylon Material, Umbrella Style
Guide	Both	1970-81	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

304 C.I., (5.0L), OHV, GAS, CARB, Vin H, I, M "AMC"
1970-81 V8 304 CID

AMC304 98
BORE - 95.3mm/3.75" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both 1970-81	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both 1971-77 1978-81	160-1164 160-1023	2.200 Length 2.034 Length,W/O Rotator
Lifter	Both 1970-81	VL89	Hydraulic Type
Rocker Components	Both 1970-73 1970-73 1974-81 1974-81 1974-81	181-1021 184-1038 181-1032 183-1014 183-1028	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut Nut, 3/8 Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Short Bridge,When Replacing, Fulcrum # 183-1014 Must Also Be Used
Push Rod	Both 1970-81	192-1331	7.798 Length

318 C.I., (5.2L), OHV, GAS, CARB, "Motor Home"
1969-75 V8 318 CID

CHR318MH 99
BORE - 99.3mm/3.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1969-75 Exh 1969-75	SB1937-1 SB1625-2N	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D.,1/4 Depth 1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D.,1/4 Depth
Valve	Int 1969-75 Exh 1969-75	01186 01312S	1.811 Head Diameter,2 Groove,Some Engines Have 1 Groove 1.517 Head Diameter,Stellite Face, 2 Groove,Some Engines Have 1 Groove
Keeper	Both 1969-75	121-1000	2 RD Bead Type
Stem Seal	Int 1969-75 Exh 1969-75 Both 1969-75	122-1046 122-1051 122-1063	Positive Type,Poly Material,All Rubber Style Umbrella Type,Poly Material,Umbrella Style Positive Type,Viton Material,All Rubber Style
Guide	Int 1969-75 1969-75 1969-75 Exh 1969-75 1969-75	140-5610 140-6113 140-9610 140-6108 140-9108	0.3750 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide 0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Exh 1969-75 Both 1969-73 1969-75	160-1018 160-1020 160-1122	1.810 Length,W/ Rotator 2.000 Length 2.000 Length,W/O Rotator, Exc. H-Duty W/ 4 Bbl. Carb.
Rotator	Exh 1969-75	161-1020	
Lifter	Both 1969-75	VL89	Hydraulic Type
Rocker Components	Both 1969-75 1969-75 1969-75	180-1077 180-1078 186-1100	Rocker Arm,L.H., Shaft Not Incl. Rocker Arm,R.H., Shaft Not Incl. Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both 1969-75	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available,W/ Hyd. Lifters

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

100 318 C.I., (5.2L), OHV, GAS, CARB, 16 Valve, Vin 8, E, G, P, R, T, U

"TRUCK"

1959-87

V8 318 CID

CHR318TRU-CA
BORE - 99.3mm/3.91"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1959-80	SB1937-1	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 1/4 Depth, W/ 1.811 & 1.844 Valve Head Dia.
		1969-87	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
		1982-83	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.880 Valve Head Dia.
	Exh	1959-85	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.563, 1.600 & 1.617 Valve Head Dia.
		1959-85	SB1687-2N	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 7/32 Depth, LPG, W/ 1.563, 1.600 & 1.617 Valve Head Dia.
		1968-87	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.500 & 1.517 Valve Head Dia
		1968-87	SB1625-1N	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, LPG, W/ 1.500 & 1.517 Valve Head Dia.
Valve	Int	1959-68	00514	1.844 Head Diameter, 2 Groove
		1969-87	00938	1.780 Head Diameter, 2 Groove, +15 O/S Stem Available
		1970-80	01186	1.811 Head Diameter, 2 Groove, Premium & Medium H-Duty
		1982-83	01180	1.880 Head Diameter, 2 Groove, 4 Bbl. Carb., 2 Groove. +15 O/S Stem Available
	Exh	1982-83	01273	1.880 Head Diameter, 4 Groove, 4 Bbl. Carb.
		1959-68	00518	1.563 Head Diameter, 4 Groove, W/ Mechanical Lifters
		1968-80	01312S	1.517 Head Diameter, Stellite Face, 2 Groove, Premium, Medium H-Duty & LA
		1969-79	01329	1.500 Head Diameter, 4 Groove, OEM # 2465339, +15 O/S Stem Available
		1979-87	01419	1.517 Head Diameter, 2 Groove, W/ Rotator, 2 & 4 Bbl. Carb., +15 O/S Stem Available
		1982-85	01417	1.617 Head Diameter, 2 Groove, +15 O/S Stem Available, H-Duty 4 Bbl. Carb.
Keeper	Both	1959-87	121-1000	2 RD Bead Type
		1959-87	121-1014	4 RD Bead Type
Stem Seal	Int	1959-87	122-1046	Positive Type, Poly Material, All Rubber Style
	Exh	1959-87	122-1051	Umbrella Type, Poly Material, Umbrella Style
	Both	1959-87	122-1063	Positive Type, Viton Material, All Rubber Style
Guide	Int	1959-87	140-5610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1959-87	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1959-87	140-9610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1959-87	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1959-87	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1959-87	160-1018	1.810 Length, W/ Rotator
		1960-83	160-1020	2.000 Length
		1970-87	160-1122	2.000 Length, W/O Rotator
Rotator	Exh	1959-87	161-1020	
Lifter	Both	1959-68	VL31	Mechanical High Performance Type
		1969-87	VL89	Hydraulic Type

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

318 C.I., (5.2L), OHV, GAS, CARB, 16 Valve, Vin 8, E, G, P, R, T, U
"TRUCK"

100
CHR318TRU-CA (cont.)

1959-87 V8 318 CID

BORE - 99.3mm/3.91"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1967-87	180-1077	Rocker Arm,L.H., Shaft Not Incl.
		1967-87	180-1078	Rocker Arm,R.H., Shaft Not Incl.
		1967-87	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1968-87	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available,W/ Hyd. Lifters

318 C.I., (5.2L), OHV, GAS, CARB, FI, 16 Valve, Vin 4, E, F, G, H, J, K, L, M,
N, P, R, S, Z

101

1957-89 V8 318 CID

CHR318CAR
BORE - 99.3mm/3.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1957-67	SB1937-1	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 1/4 Depth,W/ 1.844 Valve Head Dia.
		1968-89	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., 1/4 Depth,Also Available In Non-Magnetic (N) Material
	Exh	1981-89	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., 7/32 Depth,Also Available In Non-Magnetic (N) Material, 4 Bbl. Carb., H-Duty, W/ 1.880 Valve Head Dia.
		1957-89	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.563 & 1.600 Valve Head Dia.
Valve	Int	1967-89	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.500 Valve Head Dia.
		1957-67	00514	1.844 Head Diameter,2 Groove
		1968-89	00938	1.780 Head Diameter,2 Groove,Except 1981-89 H-Duty or Police 4Bbl. Carb., +15 O/S Stem Available
	Exh	1981-89	01180	1.880 Head Diameter,2 Groove,H-Duty & Police 4Bbl. Carb., 2 Groove. +15 O/S Stem Available
1981-89		01273	1.880 Head Diameter,4 Groove,H-Duty & Police 4 Bbl. Carb.	
1957-67		00518	1.563 Head Diameter,4 Groove	
1967-78		01329	1.500 Head Diameter,4 Groove,OEM # 2465339, +15 O/S Stem Available	
Keeper	Int	1957-89	121-1000	2 RD Bead Type
		1957-89	121-1014	4 RD Bead Type,Also For 1981-89 Int To Be Used W/ 01273
	Exh	1957-89	122-1046	Positive Type,Poly Material,All Rubber Style
Stem Seal	Exh	1957-89	122-1051	Umbrella Type,Poly Material,Umbrella Style
	Both	1957-89	122-1063	Positive Type,Viton Material,All Rubber Style
Guide	Int	1957-66	140-5610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1957-66	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		1967-89	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	Exh	1967-89	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		1957-89	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1957-89	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1957-89	160-1122	2.000 Length,Exc. H-Duty Or Police W/ 4 Bbl. Carb., W/O Rotator
		1960-83	160-1020	2.000 Length
		1989-89	160-1069	2.160 Length,W/ ELA 2 Bbl. Carb.

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

101 318 C.I., (5.2L), OHV, GAS, CARB, FI, 16 Valve, Vin 4, E, F, G, H, J, K, L, M,
(cont.) N, P, R, S, Z

1957-89

V8 318 CID

CHR318CAR
BORE - 99.3mm/3.91"

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1957-66	VL31	Mechanical High Performance Type
		1968-89	VL89	Hydraulic Type
		1985-89	VL106	Hydraulic Roller Type,W/ Metering Socket.,Always Rotate Oil Hole Up When Installing Lifter
Rocker Components	Both	1967-88	180-1077	Rocker Arm,L.H., W/ Oil Hole
		1967-88	180-1078	Rocker Arm,R.H., W/ Oil Hole
		1989-89	180-1079	Rocker Arm,L.H., W/O Oil Hole
		1989-89	180-1080	Rocker Arm,R.H., W/O Oil Hole
		1967-89	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1968-88	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available,W/ Hyd. Lifters, W/O Oil Feed Hole
		1985-88	190-1502	6.802 Length,W/ Hyd. Roller Lifters, W/O Oil Hole
		1989-89	190-1507	6.777 Length,W/ Hyd. Roller Lifters, (Exc. ELE Police W/ 4Bbl. Carb.), W/ Oil Hole

102 318 C.I., (5.2L), OHV, GAS, FI, 16 Valve, Vin Y "TRUCK"

1988-03

V8 318 CID

CHR318TRU-FI
BORE - 99.3mm/3.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-91	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
		1992-03	SB2000-36	2.000 O.D.,1 ³ / ₄ I.D., ³ / ₁₆ Depth,W/ 1.920 Valve Head Dia.
	Exh	1988-91	SB1625-1	1 ⁵ / ₈ O.D.,1 ⁹ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.500 & 1.517 Valve Head Dia.
		1992-03	SB1687-16	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ³ / ₁₆ Depth,W/ 1.624 Valve Head Dia.
Valve	Int	1988-91	00938	1.780 Head Diameter,2 Groove,+15 O/S Stem Available
		1992-03	01714	1.920 Head Diameter,W/ .3115 Stem Dia., 1 Groove, +15 O/S Available
	Exh	1988-88	01399	1.500 Head Diameter,4 Groove,W/O Rotator
		1988-91	01419	1.517 Head Diameter,2 Groove,W/ Rotator, +15 O/S Stem Available
	1992-03	01715	1.624 Head Diameter,1 Groove,W/ .3115T Stem Dia., +15 O/S Available	
Keeper	Exh	1988-88	121-1014	4 RD Bead Type
	Both	1988-91	121-1000	2 RD Bead Type
		1992-03	121-1021	1 RD Bead Type
Stem Seal	Int	1992-03	122-1204	Positive Type,Viton Material,Metal Clad Style
	Exh	1992-03	122-1205	Positive Type,Viton Material,Metal Clad Style
	Both	1988-91	122-1232	Positive Type,Viton Material,Metal Clad Style,OEM Seal For OE Guide
Guide	Int	1988-91	140-5610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1988-91	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1988-91	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		1992-03	140-7847	0.3135 I.D.,2.250 Length,0.5020 O.D.,W/ .3115 Stem Dia., W/ .534 Seal Boss
	Exh	1988-91	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1988-91	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

318 C.I., (5.2L), OHV, GAS, FI, 16 Valve, Vin Y "TRUCK"
1988-03 V8 318 CID

CHR318TRU-FI 102
BORE - 99.3mm/3.91" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 1992-03	140-8494	0.3135 I.D.,2.435 Length,0.5020 O.D.,W/ .3115 Stem Dia., W/ .534 Seal Boss
Spring	Int 1988-88	160-1122	2.000 Length,W/O Rotator, Exc. H-Duty W/ 4 Bbl. Carb.
	1989-91	160-1069	2.160 Length,W/ ELA 2 Bbl. Carb.
	Exh 1988-88	160-1018	1.810 Length,W/ Rotator
	1989-91	160-1229	1.837 Length,W/ Rotator
	Both 1992-03	160-1378	1.967 Length,Conical
Rotator	Exh 1988-91	161-1020	
Lifter	Both 1988-03	VL106	Hydraulic Roller Type,W/ Metering Socket.,Always Rotate Oil Hole Up When Installing Lifter
Rocker Components	Both 1988-88	180-1077	Rocker Arm,L.H., W/ Oil Hole
	1988-88	180-1078	Rocker Arm,R.H., W/ Oil Hole
	1989-91	180-1079	Rocker Arm,L.H., W/O Oil Hole
	1989-91	180-1080	Rocker Arm,R.H., W/O Oil Hole
	1992-03	180-1313	Rocker Arm
	1988-91	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both 1988-88	190-1502	6.802 Length,W/ Hyd. Roller Lifters (Pushrod W/O Oil Hole)
	1989-91	190-1507	6.777 Length,W/ Hyd. Roller Lifters (Pushrod W/ Oil Hole)
	1992-03	190-1525	6.901 Length
Head Bolt Set	1994-03	220-1112	Torque To Yield,Services Engine

326 C.I., (5.3L), OHV, GAS, CARB, 16 Valve
1959-59 V8 326 CID

CHR326 103
BORE - 100.4mm/3.95"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1959-59	SB1937-1	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth
	Exh 1959-59	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1959-59	00514	1.844 Head Diameter,2 Groove
	Exh 1959-59	00518	1.563 Head Diameter,4 Groove
Keeper	Int 1959-59	121-1000	2 RD Bead Type
	Exh 1959-59	121-1014	4 RD Bead Type
Stem Seal	Both 1959-59	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Int 1959-59	140-5610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	1959-59	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh 1959-59	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	1959-59	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

327 C.I., (5.4L), GAS, CARB "AMC"
1960-68 V8 327 CID

AMC327 104
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1960-68	SB1875-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh 1960-68	SB1500-1	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1960-68	00550	1.787 Head Diameter,4 Groove,4.899 Overall Length
	Exh 1960-68	00549	1.406 Head Diameter,4 Groove,4.892 Overall Length
Keeper	Both 1960-68	121-1014	4 RD Bead Type

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

104 327 C.I., (5.4L), GAS, CARB "AMC"
(cont.) 1960-68 V8 327 CID

AMC327
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1960-68	122-1040	Positive Type,Poly Material,2-Ring Style
		1960-68	122-1041	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1960-68	140-1919	0.3740 I.D.,2.250 Length,0.6006 O.D.
Spring	Both	1960-68	160-1140	2.260 Length
Lifter	Both	1961-68	VL89	Hydraulic Type

105 340 C.I., (5.6L), OHV, GAS, CARB, Vin H, J, P
1968-73 V8 340 CID

CHR340
BORE - 102.5mm/4.04"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-73	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
		1968-73	SB2062-1	2 ¹ / ₁₆ O.D.,1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth,NOTE: Optional Thick Wall Seat; CAUTION: Due To Thin Wall Castings you must Set Seat In Head ⁷ / ₃₂ and Top W/ Cutter To Avoid Water Jacket
	Exh	1968-73	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1972-73	01273	1.880 Head Diameter,4 Groove
	Exh	1968-73	01307	1.600 Head Diameter,4 Groove
Keeper	Both	1968-73	121-1014	4 RD Bead Type
Stem Seal	Int	1968-73	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1968-73	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	1968-73	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1968-73	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Both	1968-73	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1968-73	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1968-73	160-1150	1.940 Length,W/ Damper
Lifter	Both	1968-73	VL89	Hydraulic Type
Rocker Components	Both	1968-73	180-1077	Rocker Arm,L.H., Shaft Not Incl.
		1968-73	180-1078	Rocker Arm,R.H., Shaft Not Incl.
		1968-73	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1968-73	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

106 343 C.I., (5.6L), OHV, GAS, CARB, Vin J, K, Q, R, S, T, V, W, X, Z "AMC"
1967-69 V8 343 CID

AMC343
BORE - 103.6mm/4.08"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1967-69	SB2125-1	2 ¹ / ₈ O.D.,1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	1967-69	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1967-69	01048	2.025 Head Diameter,1 Groove
	Exh	1967-69	01047	1.625 Head Diameter,1 Groove
Keeper	Both	1967-69	121-1007	1 SQ Bead Type
Stem Seal	Both	1967-69	122-1031	Positive Type,Poly Material,2-Ring Style
		1967-69	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
Guide	Both	1967-69	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

343 C.I., (5.6L), OHV, GAS, CARB, Vin J, K, Q, R, S, T, V, W, X, Z "AMC" AMC343 106
1967-69 V8 343 CID BORE - 103.6mm/4.08" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	1967-69	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1967-69	160-1161	2.068 Length
Lifter	Both	1967-69	VL89	Hydraulic Type
Rocker Components	Both	1967-69	181-1021	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1967-69	184-1023	Stud, 3/8-7/16
		1967-69	184-1038	Nut, 3/8
Push Rod	Both	1967-69	192-1381	7.735 Length

345 C.I., (5.7L), OHV, ELECTRIC/GAS, FLEX, GAS, FI, 16 Valve, Vin 2, D, H, T 107
"HEMI" CHR345
2003-17 V8 345 CID BORE - 99.57mm/3.92"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2003-08	SB2062-52	2 1/16 O.D.,1 3/4 I.D.,0.2800 Depth
		2009-16	SB2187-50	2 3/16 O.D.,1.820T I.D.,0.3410 Depth
	Exh	2003-16	SB1625-62	1 5/8 O.D.,1.320 I.D.,0.3000 Depth,Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2003-08	02103	2.000 Head Diameter
		2009-16	13194	2.050 Head Diameter
	Exh	2003-08	02220	1.555 Head Diameter
		2009-16	13195	1.552 Head Diameter
Keeper	Both	2003-16	121-1083	3 RD Bead Type
Stem Seal	Both	2003-08	122-1354	Positive Type,Viton Material,Top Hat Style
		2009-16	122-1425	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2003-08	140-3031	0.3145 I.D.,2.185 Length,0.5250 O.D.,+2 O/S Available
	Exh	2003-08	140-3032	0.3155 I.D.,2.185 Length,0.5250 O.D.,+2 O/S Available
	Both	2009-16	140-3156	0.3145 I.D.,2.185 Length,0.5250 O.D.,+2 O/S Available
Spring	Both	2003-08	160-1450	2.148 Length,Conical, W/External Shroud ,NOTE: This Spring Replaces Earlier Spring W/O Shroud, MUST REPLACE IN SETS
		2009-16	160-1642SSA	2.370 Length,Conical, Spring & Shim Assy.,NOTE: The Valve Spring Assembly Utilizes A 1mm Spring Seat. Per OEM, Ensure Removal of 2mm Spring Seat And Replace It With The 1mm Spring Seat Included In This Spring Assembly.
Lifter	Both	2003-15	VL555LA	Non-MDS-Hydraulic Roller Assy. Type,NOTE: Non MDS Lifter Assembly; Includes: 4 Lifters, Yoke & Hex Flange Head Screw; 4 Required Per Engine
		2005-16	VL556LA	Front-MDS-Hydraulic Roller Assy. Type,NOTE: Front MDS Lifter Assembly; Includes: 2 MDS & 2 Non MDS Lifters, Yoke & Hex Flange Head Screw; 2 Required Per Engine.
		2005-16	VL557LA	Rear-MDS-Hydraulic Roller Assy. Type,NOTE: Rear MDS Lifter Assembly; Includes: 2 MDS & 2 Non MDS Lifters, Yoke & Hex Flange Head Screw; 2 Required Per Engine.
Push Rod	Int	2003-08	190-1544	6.610 Length
		2009-15	190-1549	6.792 Length,NOTE: OEM Equivalent 0.075" Thick Wall
	Exh	2003-08	190-1545	7.838 Length
		2009-15	190-1550	8.085 Length,NOTE: OEM Equivalent 0.075" Thick Wall
Head Bolt Set		2003-12	220-1105	Torque To Yield,Services Engine
Head Saver Shim		2003-15	230-2162L	Left,New Hgt. - 4.6330 - Min. Hgt. N/A
		2003-15	230-2162R	Right,New Hgt. - 4.6330 - Min. Hgt. N/A

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

108 354 C.I., (5.8L), OHV, GAS, CARB
1956-56 V8 354 CID

CHR354
BORE - 100mm/3.94"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1956-56	140-1803	0.3745 I.D., 2.938 Length, 0.6895 O.D.
	Exh	1956-56	140-1740	0.3745 I.D., 2.813 Length, 0.6893 O.D.

109 359 C.I., (5.9L), OHV, DIESEL, FI, 12 Valve, Vin 8, C, D "Cummins 6B Turbo"
1989-98 L6 359 CID

CHR5.9TD-12V
BORE - 102mm/4.02"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-98	SB1853E-1	1.853 O.D., 1.498T I.D., 0.2730 Depth, OEM Replacement
		1989-98	SB1875-8	1 7/8 O.D., 1 1/2 I.D., 7/32 Depth, Universal Size Seat For Head W/O OEM Seat
	Exh	1989-98	SB1722E-1	1.722 O.D., 1.357T I.D., 0.2650 Depth, OEM Replacement
		1989-98	SB1750-7	1 3/4 O.D., 1 1/8 I.D., 7/32 Depth, Universal Size Seat For Head W/O OEM Seat
Valve	Int	1989-98	01665	1.772 Head Diameter, W/ 30 Degree Seat
		1989-98	01665R	1.772 Head Diameter, NOTE: Optional Performance Valve, See Performance Catalog For Details
	Exh	1989-98	01664	1.654 Head Diameter, W/ 45 Degree Seat
		1989-98	01664R	1.654 Head Diameter, NOTE: Optional Performance Valve, See Performance Catalog For Details
Keeper	Both	1989-98	121-1079	1 RD Bead Type
Stem Seal	Int	1989-98	122-1269	Positive Type, Viton Material, Ring & Band Style, Orange Color Seal
	Exh	1989-98	122-1053	Positive Type, Viton Material, Ring & Band Style, Black Color Seal
Guide	Int	1989-98	140-8177	0.3162 I.D., 2.382 Length, 0.5528 O.D.
		1989-98	140-8177SA	0.3162 I.D., 2.382 Length, 0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Exh	1989-98	140-8178	0.3160 I.D., 2.052 Length, 0.5528 O.D.
		1989-98	140-8178SA	0.3160 I.D., 2.052 Length, 0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
Both	1989-98	140-8277	0.3162 I.D., 2.500 Length, 0.4393 O.D., W/O Seal Boss, Universal Length	
Spring	Exh	1989-98	160-1650	2.875 Length, Barrel Shaped, Note: W/ Exhaust Brake, 60lbs Additional Seat Pressure.
	Both	1989-96	160-1348	2.235 Length
		1997-98	160-1379	2.385 Length
Lifter	Both	1989-98	VL156	Mechanical Type
Push Rod	Both	1989-98	190-1530	10.910 Length
Head Saver Shim		1989-98	230-2174	New Hgt. - 3.747 - 3.749; Min. Hgt. - 3.700

110 359 C.I., (5.9L), OHV, DIESEL, FI, 24 Valve, Vin 6, 7, C "Cummins ISB Turbo"
1998-09 L6 359 CID

CHR5.9TD-24V
BORE - 102mm/4.02"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1998-09	SB1375E-1	1.375 O.D., 1.100T I.D., 0.2270 Depth, OEM Replacement, + .010 Oversize Available
	Exh	1998-09	SB1375E-2N	1.375 O.D., 1.100T I.D., 0.2270 Depth, OEM Replacement, +.005, +.010 & +.020 Oversizes Available
Valve	Int	1998-09	02014	1.299 Head Diameter, 30 Degree Seat
		1998-09	02014R	1.299 Head Diameter, NOTE: Optional Performance Valve, See Performance Catalog For Details
	Exh	1998-04	02015	1.299 Head Diameter, 45 Degree Seat; NOTE: Vin 6 Only, Except High Output & Motorhomes

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

359 C.I., (5.9L), OHV, DIESEL, FI, 24 Valve, Vin 6, 7, C "Cummins ISB Turbo"
1998-09 L6 359 CID

110
CHR5.9TD-24V (cont.)
BORE - 102mm/4.02"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1998-09	13006R	1.299 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
		2002-09	13006	1.299 Head Diameter,W/ Letter "N" In Head; NOTE: High Output; Check Casting Or VIN For Correct Material
		2002-09	13161	1.299 Head Diameter,Inconel,W/ Letter "O" In Head; NOTE: High Output; Check Casting Or VIN For Correct Material
Keeper	Both	1998-09	121-1097	1 RD Bead Type
Stem Seal	Int	1998-02	122-1335	Positive Type,Viton Material,Metal Clad Style,Yellow
		2003-09	122-1370	Positive Type,Viton Material,Top Hat Style,Yellow
	Exh	1998-02	122-1334	Positive Type,Viton Material,Metal Clad Style,Green
		2003-09	122-1371	Positive Type,Viton Material,Top Hat Style,Green
Guide	Int	1998-04	140-3021	0.2776 I.D.,1.937 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use on Cylinder Head with Single Flange on guide, Seal Boss Length 0.360
		1998-09	140-3033	0.2776 I.D.,1.937 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use for cylinder head with Dual Flange on guide, Seal Boss Length 0.334
		1998-09	140-3080	0.2775 I.D.,1.937 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
	Exh	1998-04	140-3022	0.2776 I.D.,2.020 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use on Cylinder Head with Single Flange on guide, Seal Boss Length 0.360
		1998-09	140-3034	0.2780 I.D.,2.020 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use for cylinder head with Dual Flange on guide, Seal Boss Length 0.334
		1998-09	140-3081	0.2775 I.D.,2.020 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
Spring	Both	1998-09	160-1484	1.890 Length
Lifter	Both	1998-02	VL554	Mechanical Type,OEM # 5011790AA; NOTE: W/ 1.300 Cam Face Diameter
		2003-09	VL565	Mechanical Type,OEM # 5086736AA; NOTE: W/ 1.496 Cam Face Diameter
Push Rod	Both	1998-09	190-1554	11.450 Length
Head Saver Shim		1998-09	230-2175	New Hgt. - 4.136 - 4.137; Min Hgt. - 4.124

360 C.I., (5.9L), OHV, GAS, CARB, Vin 7, N, P "AMC"
1970-91 V8 360 CID

AMC360 111
BORE - 103.6mm/4.08"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1970-91	SB2125-1	2 ¹ / ₈ O.D.,1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	1970-70	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.625 Valve Head Dia.
		1970-91	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.680 Valve Head Dia.
Valve	Int	1970-72	01048	2.025 Head Diameter,1 Groove
		1973-91	01258	2.025 Head Diameter,4 Groove,+15 O/S Stem Available
	Exh	1970-70	01047	1.625 Head Diameter,1 Groove
		1970-72	01179	1.680 Head Diameter,1 Groove
		1973-74	01257	1.680 Head Diameter,1 Groove, ¹¹ / ₃₂ Groove Dia.
		1975-91	01326	1.680 Head Diameter,4 Groove,+15 O/S Stem Available
Keeper	Exh	1973-74	121-1003	1 SQ Bead Type, ¹¹ / ₃₂ Stem In Groove Area
	Both	1970-72	121-1007	1 SQ Bead Type, ³ / ₈ Stem, Exc. Exhaust 1971-72

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

111 360 C.I., (5.9L), OHV, GAS, CARB, Vin 7, N, P "AMC"
(cont.) 1970-91 V8 360 CID

AMC360
BORE - 103.6mm/4.08"

PART		YEARS	PART NO.	NOTES
Keeper	Both	1973-91	121-1014	4 RD Bead Type, ³ / ₈ Stem, Exc. Exhaust 1973-74
Stem Seal	Both	1970-91	122-1031	Positive Type,Poly Material,2-Ring Style
		1970-91	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
Guide	Int	1970-91	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
				Exh
	1970-78	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide	
	Both	1970-91	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1970-91	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	1970-78	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)	
Spring	Exh	1973-75	160-1134	1.990 Length
		1970-77	160-1164	2.200 Length,Exc. 1975-77 Police, 1973-75 Int. Only
	Both	1978-91	160-1023	2.034 Length,W/O Rotator, Jeep
Lifter	Both	1970-91	VL89	Hydraulic Type
Rocker Components	Both	1970-73	181-1021	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1971-73	184-1023	Stud, ³ / ₈ -7/ ₁₆
		1971-73	184-1038	Nut, ³ / ₈
		1974-91	181-1032	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1974-91	183-1014	Fulcrum, Short
		1974-91	183-1028	Bridge,When Replacing, Fulcrum # 183-1014 Must Also Be Used
Push Rod	Both	1970-91	192-1331	7.798 Length

112 360 C.I., (5.9L), OHV, CARB
1975-77 V8 360 CID

CHR360-3-5/6
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-77	SB1937-1	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	1975-77	SB1625-2	1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1975-77	01186	1.811 Head Diameter,2 Groove
	Exh	1975-77	01312S	1.517 Head Diameter,Stellite Face, 2 Groove
Keeper	Both	1975-77	121-1000	2 RD Bead Type
Stem Seal	Int	1975-77	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1975-77	122-1051	Umbrella Type,Poly Material,Umbrella Style
	Both	1975-77	122-1063	Positive Type,Viton Material,All Rubber Style
Guide	Both	1975-77	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1975-77	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Exh	1975-77	160-1018	1.810 Length,W/ Rotator
		Both	1975-76	160-1150	1.940 Length,W/ Damper,1975 Hi-Perf. Eng., 1976 Hi-Perf. W/O Calif. Emission
	Both	1975-77	160-1020	2.000 Length
		1976-77	160-1122	2.000 Length,W/O Rotator, Exc. Hi-Perf. Eng.

(Cont'd) CHRYSLER / PASSENGER CAR OR TRUCK

360 C.I., (5.9L), OHV, CARB **CHR360-3-5/6 112**
 1975-77 V8 360 CID **BORE - 101.6mm/4.00" (cont.)**

PART	YEARS	PART NO.	NOTES
Rotator	Exh 1975-77	161-1020	
Lifter	Both 1975-77	VL89	Hydraulic Type
Rocker Components	Both 1975-77 1975-77 1975-77	180-1077 180-1078 186-1100	Rocker Arm,L.H., Shaft Not Incl. Rocker Arm,R.H., Shaft Not Incl. Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both 1975-77	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

360 C.I., (5.9L), OHV, CARB "MOTOR HOME" **CHR360-3MH 113**
 1976-79 V8 360 CID **BORE - 101.6mm/4.00"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1976-79 1976-79	SB1937-1 SB2000-1	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth 2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.880 Valve Head Dia.
	Exh 1976-79	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia.
	1976-79	SB1875-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.740 Valve Head Dia.
Valve	Int 1976-77 1978-79	01273 01186	1.880 Head Diameter,4 Groove 1.811 Head Diameter,2 Groove
	Exh 1976-77 1978-79	01156 01309	1.740 Head Diameter,4 Groove,+15 O/S Stem Available 1.600 Head Diameter,2 Groove
Keeper	Exh 1976-77 Both 1976-79	121-1014 121-1000	4 RD Bead Type 2 RD Bead Type,Exc. Exhaust 1976-77
Guide	Both 1976-79	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Exh 1976-76 Both 1976-76	160-1018 160-1150	1.810 Length,W/ Rotator 1.940 Length,W/ Damper,W/O Rotator, Hi-Perf W/O Calif. Emission
	1976-79 1976-79	160-1020 160-1122	2.000 Length 2.000 Length,W/O Rotator, Exc. Hi-Perf. Eng.
Rotator	Exh 1976-79	161-1020	
Lifter	Both 1976-79	VL89	Hydraulic Type
Rocker Components	Both 1976-79 1976-79 1976-79	180-1077 180-1078 186-1100	Rocker Arm,L.H., Shaft Not Incl. Rocker Arm,R.H., Shaft Not Incl. Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both 1976-79	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

360 C.I., (5.9L), OHV, GAS, CARB, Vin J, K, L **CHR360CAR 114**
 1971-80 V8 360 CID **BORE - 101.6mm/4.00"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1971-80	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
	Exh 1971-80	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1971-73 1974-80	01180 01273	1.880 Head Diameter,2 Groove,+15 O/S Stem Available 1.880 Head Diameter,4 Groove
	Exh 1971-80	01307	1.600 Head Diameter,4 Groove,Except 1979-80 4 Bbl. Carb., 4 Groove

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

114 360 C.I., (5.9L), OHV, GAS, CARB, Vin J, K, L
(cont.) 1971-80 V8 360 CID

CHR360CAR
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Keeper	Int	1971-73	121-1000	2 RD Bead Type
	Both	1971-80	121-1014	4 RD Bead Type
Stem Seal	Int	1971-80	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1971-80	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1971-80	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1971-80	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1971-80	160-1122	2.000 Length,W/O Rotator, Exc. Hi-Perf. & 1975 Eng.
		1974-76	160-1150	1.940 Length,W/ Damper,1974-75 Hi-Perf. Eng., 1976 W/O Calif. Emission
		1975-80	160-1020	2.000 Length
Lifter	Both	1971-80	VL89	Hydraulic Type
Rocker Components	Both	1971-80	180-1077	Rocker Arm,L.H., Shaft Not Incl.
		1971-80	180-1078	Rocker Arm,R.H., Shaft Not Incl.
		1971-80	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1971-80	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

115 360 C.I., (5.9L), OHV, GAS, CARB, Vin 1, 5, F, K, S, T, U, W, Y "TRUCK"
1971-88 V8 360 CID

CHR360TRU
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1971-88	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., 7 ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1971-88	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 7 ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1971-88	SB1687-2N	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 7 ⁷ / ₃₂ Depth,LPG, W/ 1.600 & 1.617 Valve Head Dia.
Valve	Int	1971-77	01180	1.880 Head Diameter,2 Groove,+15 O/S Stem Available
		1978-88	01273	1.880 Head Diameter,4 Groove
	Exh	1971-77	01309	1.600 Head Diameter,2 Groove
		1971-78	01307	1.600 Head Diameter,4 Groove
		1978-88	01417	1.617 Head Diameter,2 Groove,+15 O/S Stem Available
Keeper	Int	1978-88	121-1014	4 RD Bead Type
	Both	1971-88	121-1000	2 RD Bead Type
Stem Seal	Int	1971-88	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1971-88	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1971-88	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1971-88	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1971-88	160-1018	1.810 Length,W/ Rotator
		1971-88	160-1122	2.000 Length,W/O Rotator, 1971-74, 1976-80 All Exc. Hi-Perf. Eng.
		1974-76	160-1150	1.940 Length,W/ Damper,1974-75 Hi-Perf. Eng., 1976 W/O Calif. Emission
		1975-80	160-1020	2.000 Length
Rotator	Exh	1971-88	161-1020	
Lifter	Both	1971-88	VL89	Hydraulic Type
Rocker Components	Both	1971-88	180-1077	Rocker Arm,L.H., Shaft Not Incl.

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

360 C.I., (5.9L), OHV, GAS, CARB, Vin 1, 5, F, K, S, T, U, W, Y "TRUCK" **CHR360TRU 115**
1971-88 V8 360 CID BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1971-88	180-1078	Rocker Arm,R.H., Shaft Not Incl.
		1971-88	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1971-88	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

360 C.I., (5.9L), OHV, GAS, FI, 16 Valve, Vin 5, Z "TRUCK" **CHR360TRU-FI 116**
1989-03 V8 360 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-92	SB2000-1	2.000 O.D.,1 $\frac{3}{4}$ I.D., $\frac{7}{32}$ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.880 Valve Head Dia.
		1993-03	SB2000-36	2.000 O.D.,1 $\frac{3}{4}$ I.D., $\frac{3}{16}$ Depth,W/ 1.920 Valve Head Dia.
	Exh	1989-92	SB1687-2	1 $\frac{1}{16}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.617 Valve Head Dia.
		1993-03	SB1687-16	1 $\frac{1}{16}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{3}{16}$ Depth,W/ 1.624 Valve Head Dia.
Valve	Int	1989-92	01273	1.880 Head Diameter,4 Groove,0.375 Stem Dia.
		1993-03	01714	1.920 Head Diameter,1 Groove, W/ .3115 Stem Dia., +15 O/S Available
	Exh	1989-89	01417	1.617 Head Diameter,2 Groove,+15 O/S Stem Available
		1990-92	01675	1.617 Head Diameter,2 Groove,W/ .3716 Stem Dia.
1993-03	01715	1.624 Head Diameter,1 Groove,W/ .3115T Stem Dia., +15 O/S Available		
Keeper	Int	1989-92	121-1014	4 RD Bead Type
	Exh	1989-92	121-1000	2 RD Bead Type
	Both	1993-03	121-1021	1 RD Bead Type
Stem Seal	Int	1993-03	122-1204	Positive Type,Viton Material,Metal Clad Style
	Exh	1993-03	122-1205	Positive Type,Viton Material,Metal Clad Style
	Both	1989-92	122-1232	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1993-03	140-7847	0.3135 I.D.,2.250 Length,0.5020 O.D.,W/ .3115 Stem Dia., W/ .534 Seal Boss
	Exh	1993-03	140-8494	0.3135 I.D.,2.435 Length,0.5020 O.D.,W/ .3115 Stem Dia., W/ .534 Seal Boss
	Both	1989-92	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Int	1989-92	160-1069	2.160 Length
	Exh	1989-92	160-1229	1.837 Length,W/ Rotator
	Both	1993-03	160-1378	1.967 Length,Conical
Rotator	Exh	1989-92	161-1020	
Lifter	Both	1989-03	VL106	Hydraulic Roller Type,W/ Metering Socket.,Always Rotate Oil Hole Up When Installing Lifter
Rocker Components	Both	1989-91	180-1079	Rocker Arm,L.H.
		1989-91	180-1080	Rocker Arm,R.H.
		1992-03	180-1313	Rocker Arm
		1989-91	186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1989-92	190-1507	6.777 Length
		1993-03	190-1525	6.901 Length
Head Bolt Set		1994-03	220-1112	Torque To Yield,Services Engine

361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin F **CHR361CAR 117**
1959-66 V8 361 CID BORE - 104.8mm/4.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1959-66	SB2250-1	2 $\frac{1}{4}$ O.D.,1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

117 361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin F
(cont.) 1959-66 V8 361 CID

CHR361CAR
BORE - 104.8mm/4.13"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1959-66	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
Valve	Int	1959-66	00548	2.080 Head Diameter, 2 Groove
	Exh	1959-66	00520	1.600 Head Diameter, 4 Groove
Keeper	Int	1959-66	121-1000	2 RD Bead Type
	Exh	1959-66	121-1014	4 RD Bead Type
Stem Seal	Both	1959-66	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Int	1959-66	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
	Exh	1959-66	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1959-66	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1959-66	160-1143	2.610 Length, W/O Rotator
Lifter	Both	1959-66	VL8	Hydraulic Type
Rocker Components	Both	1959-66	180-1055	Rocker Arm, L.H.
		1959-66	180-1056	Rocker Arm, R.H.

118 361 C.I., (5.9L), GAS, CARB, "TRUCK"
1960-77 V8 361 CID

CHR361TRU
BORE - 104.775mm/4.125"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1960-77	SB2000-1	2.000 O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	1960-77	SB1624E-1N	1.624 O.D., 1-21/64 I.D., $\frac{3}{8}$ Depth
Valve	Exh	1960-77	01017S	1.500 Head Diameter, Stellite Face, 2 Groove, Optional
Keeper	Int	1960-77	121-1014	4 RD Bead Type
	Exh	1960-77	121-1000	2 RD Bead Type
Stem Seal	Int	1960-77	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Int	1960-66	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1960-77	140-1840	0.3745 I.D., 3.280 Length, 0.6890 O.D.
	Exh	1960-66	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1960-66	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
1960-77	140-1839	0.4385 I.D., 3.090 Length, 0.6887 O.D.		
Spring	Int	1960-77	160-1143	2.610 Length, W/O Rotator
Lifter	Both	1960-68	VL8	Hydraulic Type, To S/N 21680000
		1969-77	VL64	Hydraulic Type, From S/N 21680000
Rocker Components	Both	1960-77	180-1055	Rocker Arm, L.H.
		1960-77	180-1056	Rocker Arm, R.H.

119 370 C.I., (6.1L), OHV, GAS, FI, 16 Valve, Vin 3, W "HEMI"
2005-10 V8 370 CID

CHR370
BORE - 103mm/4.06"

PART		YEARS	PART NO.	NOTES
Valve	Int	2005-10	13206	2.079 Head Diameter
	Exh	2005-10	13207	1.595 Head Diameter
Keeper	Both	2005-10	121-1083	3 RD Bead Type

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

370 C.I., (6.1L), OHV, GAS, FI, 16 Valve, Vin 3, W "HEMI"
2005-10 V8 370 CID

CHR370 119
BORE - 103mm/4.06" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2005-10	122-1423	Positive Type,Viton Material,Top Hat Style
	Exh	2005-10	122-1354	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-10	140-3165	0.3142 I.D.,2.185 Length,0.5250 O.D.,+2 O/S Available
Spring	Int	2005-10	160-1627	2.134 Length,Conical W/ External Shroud
	Exh	2005-10	160-1628	2.024 Length,Conical W/ External Shroud
Lifter	Both	2005-10	VL555LA	Non-MDS-Hydraulic Roller Assy. Type,NOTE: Non MDS Lifter Assembly; Includes: 4 Lifters, Yoke & Hex Flange Head Screw; 4 Required Per Engine
Push Rod	Int	2005-10	190-1551	6.650 Length
	Exh	2005-10	190-1552	7.870 Length
Head Bolt Set		2005-10	220-1105	Torque To Yield,Services Engine

376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 9, ESD "Supercharged HEMI" CHR6.2-HEMI **120**
2015-17 V8 376 CID BORE - 103.9mm/4.09"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-15	121-1083	3 RD Bead Type
Stem Seal	Both	2015-16	122-1425	Positive Type,Viton Material,Metal Clad Style
Push Rod	Int	2015-15	190-1549	6.792 Length
	Exh	2015-15	190-1550	8.085 Length

383 C.I., (6.3L), OHV, GAS, CARB, 16 Valve, Vin 8, G, H, J, L, N
1959-71 V8 383 CID

CHR383 121
BORE - 107.9mm/4.25"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1959-71	SB2250-1	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1959-67	SB1750-4	1¾ O.D.,1 ⁷ / ₁₆ I.D.,¼ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia.
		1968-71	SB1875-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D.,¼ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.740 Valve Head Dia.
Valve	Int	1959-71	00548	2.080 Head Diameter,2 Groove
	Exh	1959-67	00520	1.600 Head Diameter,4 Groove
		1968-71	01156	1.740 Head Diameter,4 Groove,+15 O/S Stem Available
Keeper	Int	1959-71	121-1000	2 RD Bead Type
	Exh	1959-71	121-1014	4 RD Bead Type
Stem Seal	Int	1959-71	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1959-71	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1959-71	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1959-71	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1959-71	160-1143	2.610 Length,W/ 2 Bbl. Carb., W/O Rotator
		1968-71	160-1149	2.230 Length,W/ Damper,W/ 4 Bbl. Carb.
Lifter	Both	1959-67	VL8	Hydraulic Type,Use W/ .312 X .250 Push Rod Ball, N/A
		1968-71	VL64	Hydraulic Type,Use W/ 190-1408 Push Rod
Rocker Components	Both	1959-71	180-1055	Rocker Arm,L.H.
		1959-71	180-1056	Rocker Arm,R.H.
Push Rod	Both	1968-71	190-1408	8.575 Length

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

122 390 C.I., (6.4L), OHV, GAS, CARB, Vin W, X, Y "AMC"
1968-70 V8 390 CID

AMC390
BORE - 105.9mm/4.17"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-70	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
	Exh	1968-70	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.625 Valve Head Dia.
		1970-70	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
Valve	Int	1968-70	01048	2.025 Head Diameter, 1 Groove
	Exh	1968-70	01047	1.625 Head Diameter, 1 Groove, To Early 1970
		1970-70	01179	1.680 Head Diameter, 1 Groove, From Late 1970
Keeper	Both	1968-70	121-1007	1 SQ Bead Type
Stem Seal	Both	1968-70	122-1031	Positive Type, Poly Material, 2-Ring Style
		1968-70	122-1059	Umbrella Type, GF Nylon Material, Umbrella Style
Guide	Both	1968-70	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1968-70	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1968-70	160-1161	2.068 Length
Lifter	Both	1968-70	VL89	Hydraulic Type
Rocker Components	Both	1968-70	181-1021	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1968-70	184-1023	Stud, ³ / ₈ - ⁷ / ₁₆
		1968-70	184-1038	Nut, ³ / ₈
Push Rod	Both	1968-69	192-1381	7.735 Length
		1970-70	192-1331	7.798 Length

123 392 C.I., (6.4L), OHV, GAS, CARB
1957-58 V8 392 CID

CHR392
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1957-58	140-1803	0.3745 I.D., 2.938 Length, 0.6895 O.D.
	Exh	1957-58	140-1740	0.3745 I.D., 2.813 Length, 0.6893 O.D.
Lifter	Both	1957-58	VL8	Hydraulic Type

124 392 C.I., (6.4L), OHV, GAS, FI, 16 Valve, Vin J, "HEMI SRT-8"
2011-16 V8 392 CID

CHR6.4-SRT8
BORE - 103.9mm/4.09"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2011-16	121-1083	3 RD Bead Type
Stem Seal	Both	2011-16	122-1425	Positive Type, Viton Material, Metal Clad Style
Push Rod	Int	2011-15	190-1549	6.792 Length, NOTE: OEM Equivalent 0.075" Thick Wall
	Exh	2011-15	190-1550	8.085 Length, NOTE: OEM Equivalent 0.075" Thick Wall

125 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin J, M, N, P
1972-78 V8 400 CID

CHR400
BORE - 110.2mm/4.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1972-78	SB2250-1	2 ¹ / ₄ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1972-78	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
		1972-78	SB1875-1N	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¹ / ₄ Depth, LPG
Valve	Int	1972-78	00548	2.080 Head Diameter, 2 Groove
	Exh	1972-78	01156	1.740 Head Diameter, 4 Groove, +15 O/S Stem Available

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin J, M, N, P
1972-78 V8 400 CID

CHR400 **125**
BORE - 110.2mm/4.13" (cont.)

PART	YEARS	PART NO.	NOTES	
Keeper	Int	1972-78	121-1000	2 RD Bead Type
	Exh	1972-78	121-1014	4 RD Bead Type
Stem Seal	Int	1972-78	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1972-78	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1972-78	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1972-78	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1972-78	160-1143	2.610 Length,Exc. Hi-Perf., W/O Rotator
		1972-78	160-1149	2.230 Length,W/ Damper,Hi-Perf.
Lifter	Both	1972-78	VL64	Hydraulic Type
Rocker Components	Both	1972-78	180-1055	Rocker Arm,L.H.
		1972-78	180-1056	Rocker Arm,R.H.
Push Rod	Both	1972-78	190-1408	8.575 Length

401 C.I., (6.6L), OHV, GAS, CARB, Vin Z "AMC"
1971-78 V8 401 CID

AMC401 **126**
BORE - 105.9mm/4.17"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1971-78	SB2125-1	2 $\frac{1}{8}$ O.D.,1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	1971-78	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.680 Valve Head Dia.
Valve	Int	1971-72	01048	2.025 Head Diameter,1 Groove
		1973-78	01258	2.025 Head Diameter,4 Groove,+15 O/S Stem Available
	Exh	1971-72	01179	1.680 Head Diameter,1 Groove
		1973-74	01257	1.680 Head Diameter,1 Groove,Passenger Car & 1974 Jeep, W/ Rotator, $\frac{3}{8}$ Stem Dia.
1974-78	01326	1.680 Head Diameter,4 Groove,Except 1974 Jeep, W/ Rotator, +15 O/S Stem Available		
Keeper	Exh	1973-74	121-1003	1 SQ Bead Type, $\frac{11}{32}$ Stem In Groove Area
	Both	1971-72	121-1007	1 SQ Bead Type
		1973-78	121-1014	4 RD Bead Type
Stem Seal	Both	1971-78	122-1031	Positive Type,Poly Material,2-Ring Style
		1971-78	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
Guide	Exh	1971-78	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1971-78	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1971-78	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Both	1971-78	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1971-78	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	1971-78	160-1164	2.200 Length,Exc. 1971-72 Exh
Lifter	Both	1971-78	VL89	Hydraulic Type
Rocker Components	Both	1971-73	181-1021	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut
		1971-73	184-1023	Stud, $\frac{3}{8}$ - $\frac{7}{16}$
		1971-73	184-1038	Nut, $\frac{3}{8}$

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

126 401 C.I., (6.6L), OHV, GAS, CARB, Vin Z "AMC"
(cont.) 1971-78 V8 401 CID

AMC401
BORE - 105.9mm/4.17"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1974-78	181-1032	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1974-78	183-1014	Fulcrum, Short
		1974-78	183-1028	Bridge, When Replacing, Fulcrum # 183-1014 Must Also Be Used
Push Rod	Both	1971-78	192-1331	7.798 Length

127 408 C.I., (6.7L), OHV, DIESEL, FI, 24 Valve, Vin A, L "Cummins ISB Turbo"
2007-17 L6 408 CID

CHR6.7TD-24V
BORE - 107mm/4.21"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2007-16	SB1375E-1	1.375 O.D., 1.100T I.D., 0.2270 Depth, OEM Replacement, +.010 Oversize Available
	Exh	2007-16	SB1375E-2N	1.375 O.D., 1.100T I.D., 0.2270 Depth, OEM Replacement, +.005, +.010 & +.020 Oversizes Available
Valve	Int	2007-16	02014	1.299 Head Diameter
		2007-16	02014R	1.299 Head Diameter, NOTE: Optional Performance Valve, See Performance Catalog For Details
	Exh	2007-15	13161	1.299 Head Diameter, Inconel, W/ Letter "O" In Head; NOTE: Check Casting Or VIN For Correct Material
		2007-16	13006	1.299 Head Diameter, W/ Letter "N" In Head; NOTE: Check Casting Or VIN For Correct Material
	2007-16	13006R	1.299 Head Diameter, NOTE: Optional Performance Valve, See Performance Catalog For Details	
Keeper	Both	2007-16	121-1097	1 RD Bead Type
Stem Seal	Int	2007-13	122-1370	Positive Type, Viton Material, Top Hat Style, Yellow
	Exh	2007-13	122-1371	Positive Type, Viton Material, Top Hat Style, Green
	Both	2014-16	122-1477	Positive Type, Viton Material, Top Hat Style, Black; NOTE: No Ring
Guide	Int	2007-13	140-3033	0.2776 I.D., 1.937 Length, 0.5015 O.D., Replacement Guide for OEM Integral Guide
		2007-13	140-3080	0.2775 I.D., 1.937 Length, 0.4395 O.D., NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
	Exh	2007-13	140-3034	0.2780 I.D., 2.020 Length, 0.5015 O.D., Replacement Guide for OEM Integral Guide
		2007-13	140-3081	0.2775 I.D., 2.020 Length, 0.4395 O.D., NOTE: Optional O.D. Guide W/O Seal Boss. Does Not Require Special Tooling
Spring	Both	2007-16	160-1484	1.890 Length
Lifter	Both	2007-16	VL565	Mechanical Type, OEM # 5086736AA
Push Rod	Both	2007-16	190-1554	11.450 Length
Head Saver Shim		2007-15	230-2176	New Hgt. - 4.140; Min. Hgt. - 4.124

128 413 C.I., (6.8L), OHV, GAS, CARB, 16 Valve
1959-65 V8 413 CID

CHR413
BORE - 106.4mm/4.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1959-65	SB2250-1	2¼ O.D., 1 ¹⁵ / ₁₆ I.D., 3 ⁹ / ₁₆ Depth
	Exh	1959-65	SB1750-2	1¾ O.D., 1½ I.D., 7 ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1959-65	00548	2.080 Head Diameter, 2 Groove
	Exh	1959-65	00520	1.600 Head Diameter, 4 Groove
Keeper	Int	1959-65	121-1000	2 RD Bead Type
	Exh	1959-65	121-1014	4 RD Bead Type

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

413 C.I., (6.8L), OHV, GAS, CARB, 16 Valve
1959-65 V8 413 CID

CHR413 128
BORE - 106.4mm/4.19" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	1959-65	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1959-65	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1959-65	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
		1959-65	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
Spring	Both	1959-65	160-1143	2.610 Length,Exc. 1963-65 Hi-Perf.
Rotator	Exh	1959-65	161-1020	
Lifter	Both	1959-65	VL8	Hydraulic Type
Rocker Components	Both	1959-65	180-1055	Rocker Arm,L.H.
		1959-65	180-1056	Rocker Arm,R.H.

426 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin H, J, R "HEMI"
1965-71 V8 426 CID

CHR426-H 129
BORE - 107.9mm/4.25"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1965-71	140-6896H	0.3120 I.D.,2.875 Length,0.4390 O.D.
	Exh	1965-71	140-6897H	0.3120 I.D.,2.188 Length,0.4390 O.D.
Lifter	Int	1965-66	VL8	Hydraulic Type,Std. Engine

440 C.I., (7.2L), OHV, GAS, CARB, Vin A, D, K, L, M, T, U, V
1966-78 V8 440 CID

CHR440 130
BORE - 109.7mm/4.32"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1966-78	SB2250-1	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1966-67	SB1687-2	1 ¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia.
		1968-78	SB1875-6	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ⁷ / ₃₂ Depth,W/ 1.740 Valve Head Dia.
Valve	Int	1966-78	00548	2.080 Head Diameter,2 Groove,Exc. 1970-72 W/ 3 or 2 Bbl. Carb.
	Exh	1966-67	00520	1.600 Head Diameter,4 Groove
		1968-78	01156	1.740 Head Diameter,4 Groove,+15 O/S Stem Available
Keeper	Int	1966-78	121-1000	2 RD Bead Type
	Exh	1966-78	121-1014	4 RD Bead Type
Stem Seal	Int	1966-78	122-1046	Positive Type,Poly Material,All Rubber Style
Guide	Exh	1966-78	122-1051	Umbrella Type,Poly Material,Umbrella Style
		1966-67	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	Both	1966-67	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
		1966-78	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,Exc. 1966-67 Exh
	Both	1966-78	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Exc. 1966-67 Exh.
		1966-78	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Exc. 1966-67 Exh.
Spring	Exh	1966-78	160-1227	2.440 Length,W/ Damper,W/ Rotator
	Both	1966-78	160-1143	2.610 Length,Exc. Hi-Perf., W/O Rotator
		1966-78	160-1149	2.230 Length,W/ Damper,Hi-Perf.
Rotator	Both	1966-78	161-1020	
Lifter	Both	1966-67	VL8	Hydraulic Type,NOTE: Early, Use W/ Pushrod W/ One 0.312 Ball End and One 0.250 End

CHRYSLER / PASSENGER CAR OR TRUCK (Cont'd)

130 440 C.I., (7.2L), OHV, GAS, CARB, Vin A, D, K, L, M, T, U, V
(cont.) 1966-78 V8 440 CID

CHR440
BORE - 109.7mm/4.32"

PART		YEARS	PART NO.	NOTES
Lifter	Both	1968-78	VL64	Hydraulic Type,NOTE: Late, Use 190-1403 Pushrod W/ .312 Ball Ends
Rocker Components	Both	1966-78	180-1055	Rocker Arm,L.H.
		1966-78	180-1056	Rocker Arm,R.H.
Push Rod	Both	1968-78	190-1403	9.315 Length

131 440 C.I., (7.2L), OHV, GAS, CARB, Vin A, D
1973-79 V8 440 CID

CHR440-3
BORE - 109.7mm/4.32"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1973-79	SB2250-1	2 ¹ / ₄ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1973-79	SB1875-1	1 ⁷ / ₈ O.D., 1 ¹ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1973-79	00548	2.080 Head Diameter,2 Groove,Except Premium Eng. & Motor Home
	Exh	1973-79	01156	1.740 Head Diameter,4 Groove,Except Premium Eng. & Motor Home, +15 O/S Stem Available
Keeper	Int	1973-79	121-1000	2 RD Bead Type
	Exh	1973-79	121-1014	4 RD Bead Type
Stem Seal	Int	1973-79	122-1046	Positive Type,Poly Material,All Rubber Style
	Exh	1973-79	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1973-79	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1973-79	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Exh	1973-79	160-1227	2.440 Length,W/ Damper,W/ Rotator
	Both	1973-79	160-1143	2.610 Length,Exc. Hi-Perf., W/O Rotator
		1973-79	160-1149	2.230 Length,W/ Damper,Hi-Perf.
Rotator	Both	1973-79	161-1020	
Lifter	Both	1973-79	VL64	Hydraulic Type
Rocker Components	Both	1973-79	180-1055	Rocker Arm,L.H.
		1973-79	180-1056	Rocker Arm,R.H.
Push Rod	Both	1973-79	190-1403	9.315 Length

132 478 C.I., (7.8L), GAS, CARB
1969-77 V8 478 CID

CHR478TRU
BORE - 114.3mm/4.50"

PART		YEARS	PART NO.	NOTES
Guide	Int	1969-77	140-1817	0.4385 I.D.,3.063 Length,0.6265 O.D.
	Exh	1969-77	140-8224	0.4385 I.D.,3.250 Length,0.6920 O.D.

133 488 C.I., (8.0L), OHV, GAS, FI, 20 Valve, Vin E " CAR "
1992-02 V10 488 CID

CHR8.0CAR
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1992-02	SB2062-23	2 ¹ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ³ / ₈ Depth,Note: Must Use Adjustable Cutter To Achieve 0.007 Press Fit
	Exh	1992-02	SB1625-10	1 ⁵ / ₈ O.D., 1 ⁵ / ₁₆ I.D., ⁵ / ₁₆ Depth,Note: Must Use An Adjustable Cutter To Achieve 0.007" Press Fit
Keeper	Both	1992-02	121-1021	1 RD Bead Type
Stem Seal	Int	1992-02	122-1204	Positive Type,Viton Material,Metal Clad Style
	Exh	1992-02	122-1205	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	1992-00	VL106	Hydraulic Roller Type,W/ Metering Socket.,Always Rotate Oil Hole Up When Installing Lifter

(Cont'd) **CHRYSLER / PASSENGER CAR OR TRUCK**

488 C.I., (8.0L), OHV, GAS, FI, 20 Valve, Vin W
1994-03 V10 488 CID

CHR8.0TRU 134
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1994-03	SB1687-5N	1 ¹¹ / ₁₆ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, Alternate Oversized Replacement
Valve	Int 1994-03	01781	1.920 Head Diameter
	Exh 1994-03	01782	1.624 Head Diameter
Keeper	Both 1994-03	121-1021	1 RD Bead Type
Stem Seal	Int 1994-03	122-1204	Positive Type, Viton Material, Metal Clad Style
	Exh 1994-03	122-1205	Positive Type, Viton Material, Metal Clad Style
Guide	Int 1994-03	140-8658	0.3135 I.D., 2.860 Length, 0.5020 O.D.
	Exh 1994-03	140-8659	0.3135 I.D., 3.081 Length, 0.5020 O.D.
Spring	Both 1994-03	160-1378	1.967 Length, Conical
Lifter	Both 1994-03	VL106	Hydraulic Roller Type, W/ Metering Socket., Always Rotate Oil Hole Up When Installing Lifter
Push Rod	Both 1994-03	190-1522	7.770 Length

505 C.I., (8.3L), OHV, GAS, FI, 20 Valve, Vin H
2004-06 V10 505 CID

CHR8.3TRU 135
BORE - 102.4mm/4.03"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2004-06	121-1021	1 RD Bead Type
Stem Seal	Int 2004-06	122-1204	Positive Type, Viton Material, Metal Clad Style
	Exh 2004-06	122-1205	Positive Type, Viton Material, Metal Clad Style

515 C.I., (8.4L), OHV, GAS, FI, 20 Valve, Vin Z
2008-17 V10 515 CID

CHR8.4 136
BORE - 103.4mm/4.07"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2008-16	121-1083	3 RD Bead Type

CHRYSLER / INDUSTRIAL

Engine	Models	Line No.
6 Cylinder		
170 C.I., (2.8L), H170 12 Valve		1
170 C.I., (2.8L), 12 Valve		2
170 C.I., (2.8L), IND170 12 Valve		3
198 C.I., (3.2L), 12 Valve		4
201 C.I., (3.3L), 12 Valve		5
218 C.I., (3.6L), 12 Valve		6
218 C.I., (3.6L), IND5 12 Valve		7
218 C.I., (3.6L), IND5A 12 Valve		8
218 C.I., (3.6L), T112 12 Valve		9
225 C.I., (3.7L), H225 12 Valve		10
225 C.I., (3.7L), IND225 12 Valve		11
230 C.I., (3.8L), IND31 12 Valve		13
230 C.I., (3.8L), IND30 12 Valve		14
230 C.I., (3.8L), 12 Valve		15
230 C.I., (3.8L), IND6 12 Valve		16
230 C.I., (3.8L), IND6A 12 Valve		17
230 C.I., (3.8L), T116 12 Valve		18
237 C.I., (3.9L), IND7 12 Valve		19

CHRYSLER / INDUSTRIAL (Cont'd)

Engine	Models	Line No.
6 Cylinder		
237 C.I., (3.9L), IND7A 12 Valve		20
251 C.I., (4.1L), IND8A 12 Valve		23
251 C.I., (4.1L), IND8 12 Valve		24
265 C.I., (4.3L), IND16 12 Valve		25
265 C.I., (4.3L), IND16A 12 Valve		26
265 C.I., (4.3L), IND33 12 Valve		27
265 C.I., (4.3L), IND32 12 Valve		28
8 Cylinder		
230 C.I., (3.8L), IND20		12
241 C.I., (3.9L), IND18		21
241 C.I., (3.9L), IND18A		22
270 C.I., (4.4L), IND52		29
276 C.I., (4.5L), IND19		30
276 C.I., (4.5L), IND19A		31
318 C.I., (5.2L), LT318		32
318 C.I., (5.2L), H318		33
318 C.I., (5.2L), LH318		34
318 C.I., (5.2L), HC318		35
318 C.I., (5.2L), HB318		36
318 C.I., (5.2L), HA318		37
318 C.I., (5.2L), HT318		38
331 C.I., (5.4L), IND54		39
361 C.I., (5.9L), HB361		40
361 C.I., (5.9L), LPG		41
361 C.I., (5.9L), H361		42
361 C.I., (5.9L), HC361		43
361 C.I., (5.9L), HT361		44
383 C.I., (6.3L), H383		45
383 C.I., (6.3L), HB383		46
383 C.I., (6.3L), HA383		47
400 C.I., (6.6L), H400		48
413 C.I., (6.8L), HB413		49
413 C.I., (6.8L), H413		50
413 C.I., (6.8L), HC413		51
440 C.I., (7.2L), H440		52

1 170 C.I., (2.8L), H170 12 Valve H170
L6 170 CID BORE - 86.36mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00567	1.620 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh	01265	1.360 Head Diameter, 4 Groove

(Cont'd) CHRYSLER / INDUSTRIAL

170 C.I., (2.8L), H170 12 Valve **H170 1**
 L6 170 CID **BORE - 86.36mm/3.40" (cont.)**

PART		PART NO.	NOTES
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type,Poly Material,Umbrella Style
	Exh	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1122	2.000 Length,W/O Rotator
Lifter	Both	VL31	Mechanical High Performance Type

170 C.I., (2.8L), 12 Valve **170 2**
 L6 170 CID **BORE - 86.3mm/3.40"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1¾ O.D.,1½ I.D.,¼ Depth,+10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1500-1	1½ O.D.,1¼ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

170 C.I., (2.8L), IND170 12 Valve **IND170 3**
 L6 170 CID **BORE - 86.36mm/3.40"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1¾ O.D.,1½ I.D.,¼ Depth,+10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00567	1.620 Head Diameter,2 Groove,+15 O/S Stem Available
	Exh	01265	1.360 Head Diameter,4 Groove
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type,Poly Material,Umbrella Style
	Exh	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	Exh	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1122	2.000 Length,W/O Rotator
Lifter	Both	VL31	Mechanical High Performance Type

198 C.I., (3.2L), 12 Valve **198 4**
 L6 198 CID **BORE - 86.3mm/3.40"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1¾ O.D.,1½ I.D.,¼ Depth,+10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1500-1	1½ O.D.,1¼ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

CHRYSLER / INDUSTRIAL (Cont'd)

5 201 C.I., (3.3L), 12 Valve **201**
 L6 201 CID **BORE - 82.5mm/3.25"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7 ¹ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1562-4+010	1.577 O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth
Keeper	Both	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

6 218 C.I., (3.6L), 12 Valve **218**
 L6 218 CID **BORE - 82.5mm/3.25"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7 ¹ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	1.5160 O.D., 1 ¹ / ₄ I.D., 1/4 Depth
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

7 218 C.I., (3.6L), IND5 12 Valve **IND5**
 L6 218 CID **BORE - 82.5mm/3.25"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7 ¹ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	1.5160 O.D., 1 ¹ / ₄ I.D., 1/4 Depth
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

8 218 C.I., (3.6L), IND5A 12 Valve **IND5A**
 L6 218 CID **BORE - 82.5mm/3.25"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7 ¹ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	1.5160 O.D., 1 ¹ / ₄ I.D., 1/4 Depth
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

9 218 C.I., (3.6L), T112 12 Valve **T112**
 L6 218 CID **BORE - 82.5mm/3.25"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7 ¹ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	1.5160 O.D., 1 ¹ / ₄ I.D., 1/4 Depth
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

10 225 C.I., (3.7L), H225 12 Valve **H225**
 L6 225 CID **BORE - 86.36mm/3.40"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7 ¹ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00567	1.620 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh	01265	1.360 Head Diameter, 4 Groove
Keeper	Int	121-1000	2 RD Bead Type

(Cont'd) CHRYSLER / INDUSTRIAL**225 C.I., (3.7L), H225 12 Valve**
L6 225 CID**H225 10**
BORE - 86.36mm/3.40" (cont.)

PART		PART NO.	NOTES
Keeper	Exh	121-1014	4 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type,Poly Material,Umbrella Style
	Exh	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1122	2.000 Length,W/O Rotator
Lifter	Both	VL31	Mechanical High Performance Type
		VL88	Hydraulic Type
Push Rod	Both	190-1349	8.723 Length

225 C.I., (3.7L), IND225 12 Valve
L6 225 CID**IND225 11**
BORE - 86.36mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth,+10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00567	1.620 Head Diameter,2 Groove,+15 O/S Stem Available
	Exh	01265	1.360 Head Diameter,4 Groove
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type,Poly Material,Umbrella Style
	Exh	122-1051	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	Exh	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1122	2.000 Length,W/O Rotator
Lifter	Both	VL31	Mechanical High Performance Type
		VL88	Hydraulic Type

230 C.I., (3.8L), IND20
V8 230 CID**IND20 12**
BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 $\frac{13}{16}$ O.D.,1 $\frac{9}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1516E-1	1.5160 O.D.,1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth

230 C.I., (3.8L), IND31 12 Valve
L6 230 CID**IND31 13**
BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	1.5160 O.D.,1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth
Guide	Int	140-1338	0.3425 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side

CHRYSLER / INDUSTRIAL (Cont'd)

14 230 C.I., (3.8L), IND30 12 Valve IND30
 L6 230 CID BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	

15 230 C.I., (3.8L), 12 Valve 230
 L6 230 CID BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	

16 230 C.I., (3.8L), IND6 12 Valve IND6
 L6 230 CID BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	

17 230 C.I., (3.8L), IND6A 12 Valve IND6A
 L6 230 CID BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	

18 230 C.I., (3.8L), T116 12 Valve T116
 L6 230 CID BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1516E-1	
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	

19 237 C.I., (3.9L), IND7 12 Valve IND7
 L6 237 CID BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 $\frac{13}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	
Valve	Int	00298	1.718 Head Diameter, 2 Groove
Keeper	Int	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	

(Cont'd) CHRYSLER / INDUSTRIAL

237 C.I., (3.9L), IND7A 12 Valve **IND7A 20**
 L6 237 CID **BORE - 87.3mm/3.44"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
Keeper	Int	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

241 C.I., (3.9L), IND18 **IND18 21**
 V8 241 CID **BORE - 87.3mm/3.44"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1516E-1	1.5160 O.D., 1 ¹ / ₄ I.D., 1/4 Depth

241 C.I., (3.9L), IND18A **IND18A 22**
 V8 241 CID **BORE - 87.3mm/3.44"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1516E-1	1.5160 O.D., 1 ¹ / ₄ I.D., 1/4 Depth

251 C.I., (4.1L), IND8A 12 Valve **IND8A 23**
 L6 251 CID **BORE - 87.3mm/3.44"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
Keeper	Int	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

251 C.I., (4.1L), IND8 12 Valve **IND8 24**
 L6 251 CID **BORE - 87.3mm/3.44"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
Keeper	Int	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

265 C.I., (4.3L), IND16 12 Valve **IND16 25**
 L6 265 CID **BORE - 87.3mm/3.44"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
	Exh	00257	1.501 Head Diameter, 2 Groove, W/.340 Stem
Keeper	Both	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

CHRYSLER / INDUSTRIAL (Cont'd)

26 265 C.I., (4.3L), IND16A 12 Valve
L6 265 CID

IND16A
BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
	Exh	00257	1.501 Head Diameter, 2 Groove, W/.340 Stem
Keeper	Both	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

27 265 C.I., (4.3L), IND33 12 Valve
L6 265 CID

IND33
BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
Keeper	Int	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

28 265 C.I., (4.3L), IND32 12 Valve
L6 265 CID

IND32
BORE - 87.3mm/3.44"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00298	1.718 Head Diameter, 2 Groove
Keeper	Int	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side
	Exh	140-1337	0.3445 I.D., 2.813 Length, 0.6575 O.D., Tapered End To Spring Side

29 270 C.I., (4.4L), IND52
V8 270 CID

IND52
BORE - 92mm/3.62"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1516E-1	1.5160 O.D., 1 ¹ / ₄ I.D., 1/4 Depth
Guide	Int	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

30 276 C.I., (4.5L), IND19
V8 276 CID

IND19
BORE - 92mm/3.62"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1516E-1	1.5160 O.D., 1 ¹ / ₄ I.D., 1/4 Depth

(Cont'd) CHRYSLER / INDUSTRIAL**276 C.I., (4.5L), IND19A**

V8 276 CID

IND19A **31**

BORE - 92mm/3.62"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1¾ O.D., 1½ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia. 1.5160 O.D., 1¼ I.D., ¼ Depth
	Exh	SB1516E-1	

318 C.I., (5.2L), LT318

V8 318 CID

LT318 **32**

BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1¾ O.D., 1½ I.D., ¼ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material 1⅝ O.D., 1⅜ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1625-1	
Valve	Int	00938	1.780 Head Diameter, 2 Groove, +15 O/S Stem Available 1.500 Head Diameter, 4 Groove, OEM # 2465339, +15 O/S Stem Available
	Exh	01329	
Keeper	Int	121-1000	2 RD Bead Type 4 RD Bead Type
	Exh	121-1014	
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style Umbrella Type, Poly Material, Umbrella Style
	Exh	122-1051	
Guide	Int	140-9610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	140-9108	
Spring	Both	160-1122	2.000 Length, W/O Rotator
Lifter	Both	VL89	Hydraulic Type
Rocker Components	Both	180-1077	Rocker Arm, L.H., Shaft Not Incl. Rocker Arm, R.H., Shaft Not Incl.
		180-1078	

318 C.I., (5.2L), H318

V8 318 CID

H318 **33**

BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-10	2.000 O.D., 1⅞ I.D., ¼ Depth 1⅞ O.D., 1⅞ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1687-2	
Valve	Int	00514	1.844 Head Diameter, 2 Groove 1.563 Head Diameter, 4 Groove
	Exh	00518	
Keeper	Int	121-1000	2 RD Bead Type 4 RD Bead Type
	Exh	121-1014	
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style Umbrella Type, Poly Material, Umbrella Style
	Exh	122-1051	
Guide	Int	140-5610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
		140-9610	
	Exh	140-6108	
		140-9108	
Spring	Both	160-1161	2.068 Length
Lifter	Both	VL31	Mechanical High Performance Type
Rocker Components	Both	180-1077	Rocker Arm, L.H., Shaft Not Incl. Rocker Arm, R.H., Shaft Not Incl. Rocker Arm Shaft, 2 Required
		180-1078	
		186-1100	

CHRYSLER / INDUSTRIAL (Cont'd)**34** 318 C.I., (5.2L), LH318

V8 318 CID

LH318

BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{9}{16}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00938	1.780 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh	01329	1.500 Head Diameter, 4 Groove, OEM # 2465339, +15 O/S Stem Available
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Stem Seal	Both	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-9610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1122	2.000 Length, W/O Rotator
Lifter	Both	VL89	Hydraulic Type
Rocker Components	Both	180-1077	Rocker Arm, L.H., Shaft Not Incl.
		180-1078	Rocker Arm, R.H., Shaft Not Incl.
		186-1100	Rocker Arm Shaft, 2 Required

35 318 C.I., (5.2L), HC318

V8 318 CID

HC318

BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-10	2.000 O.D., 1 $\frac{9}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	SB1687-2	1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00514	1.844 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-9610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1161	2.068 Length
Lifter	Both	VL31	Mechanical High Performance Type

36 318 C.I., (5.2L), HB318

V8 318 CID

HB318

BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-10	2.000 O.D., 1 $\frac{9}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	SB1687-2	1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00514	1.844 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-9610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Lifter	Both	VL31	Mechanical High Performance Type

(Cont'd) CHRYSLER / INDUSTRIAL**318 C.I., (5.2L), HA318**

V8 318 CID

HA318 **37**

BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-10	2.000 O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth 1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1687-2	
Valve	Int	00514	1.844 Head Diameter, 2 Groove 1.563 Head Diameter, 4 Groove
	Exh	00518	
Keeper	Int	121-1000	2 RD Bead Type 4 RD Bead Type
	Exh	121-1014	
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style Umbrella Type, Poly Material, Umbrella Style
	Exh	122-1051	
Guide	Int	140-9610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	140-9108	
Lifter	Both	VL31	Mechanical High Performance Type

318 C.I., (5.2L), HT318

V8 318 CID

HT318 **38**

BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-10	2.000 O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth 1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1687-2	
Valve	Int	00514	1.844 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-5610	0.3750 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3750 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
		140-9610	
	Exh	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
		140-9108	
Spring	Both	160-1161	2.068 Length
Lifter	Both	VL31	Mechanical High Performance Type

331 C.I., (5.4L), IND54

V8 331 CID

IND54 **39**

BORE - 92mm/3.62"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia. 1.5160 O.D., 1 ¹ / ₄ I.D., 1/4 Depth
	Exh	SB1516E-1	

361 C.I., (5.9L), HB361

V8 361 CID

HB361 **40**

BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material 1.624 O.D., 1-21/64 I.D., 3/8 Depth 1 ⁵ / ₈ O.D., 1 ¹ / ₁₆ I.D., 0.3950 Depth, Optional Larger Depth
	Exh	SB1624E-1N	
		SB1625-20	
Valve	Exh	01017S	1.500 Head Diameter, Stellite Face, 2 Groove, Optional
Keeper	Int	121-1014	4 RD Bead Type 2 RD Bead Type
	Exh	121-1000	
Guide	Int	140-1840	0.3745 I.D., 3.280 Length, 0.6890 O.D.

CHRYSLER / INDUSTRIAL (Cont'd)

40 361 C.I., (5.9L), HB361 HB361
 (cont.) V8 361 CID BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Guide	Exh	140-1839	0.4385 I.D.,3.090 Length,0.6887 O.D.
		140-7337	0.4370 I.D.,3.090 Length,0.6890 O.D.
Spring	Int	160-1143	2.610 Length
Lifter	Both	VL8	Hydraulic Type
Rocker Components	Both	180-1055	Rocker Arm,L.H.
		180-1056	Rocker Arm,R.H.

41 361 C.I., (5.9L), LPG CHI361LP
 V8 361 CID BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,LPG & Natural Gas
	Exh	SB1624E-1N	1.624 O.D.,1-21/64 I.D., ³ / ₈ Depth,LPG & Natural Gas
Valve	Exh	01017S	1.500 Head Diameter,Stellite Face, 2 Groove,Optional
Keeper	Int	121-1014	4 RD Bead Type
	Exh	121-1000	2 RD Bead Type
Guide	Int	140-1840	0.3745 I.D.,3.280 Length,0.6890 O.D.
	Exh	140-1839	0.4385 I.D.,3.090 Length,0.6887 O.D.
Spring	Int	160-1143	2.610 Length
Lifter	Both	VL8	Hydraulic Type
Rocker Components	Both	180-1055	Rocker Arm,L.H.
		180-1056	Rocker Arm,R.H.

42 361 C.I., (5.9L), H361 H361
 V8 361 CID BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2187-2	2 ³ / ₁₆ O.D.,1 ¹³ / ₁₆ I.D., ⁹ / ₃₂ Depth
	Exh	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.680 Valve Head Dia.
Valve	Int	00548	2.080 Head Diameter,2 Groove
	Exh	00520	1.600 Head Diameter,4 Groove
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Guide	Int	140-1840	0.3745 I.D.,3.280 Length,0.6890 O.D.
	Exh	140-1839	0.4385 I.D.,3.090 Length,0.6887 O.D.
Spring	Both	160-1143	2.610 Length
Lifter	Both	VL8	Hydraulic Type
Rocker Components	Both	180-1055	Rocker Arm,L.H.
		180-1056	Rocker Arm,R.H.

43 361 C.I., (5.9L), HC361 HC361
 V8 361 CID BORE - 105mm/4.134"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1624E-1N	1.624 O.D.,1-21/64 I.D., ³ / ₈ Depth

44 361 C.I., (5.9L), HT361 HT361
 V8 361 CID BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material

(Cont'd) CHRYSLER / INDUSTRIAL**361 C.I., (5.9L), HT361**

V8 361 CID

HT361 **44**

BORE - 104.775mm/4.125" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1624E-1N	1.624 O.D., 1-21/64 I.D., 3/8 Depth
Valve	Exh	01017S	1.500 Head Diameter, Stellite Face, 2 Groove, Optional
Keeper	Int	121-1014	4 RD Bead Type
	Exh	121-1000	2 RD Bead Type
Guide	Int	140-1840	0.3745 I.D., 3.280 Length, 0.6890 O.D.
	Exh	140-1839	0.4385 I.D., 3.090 Length, 0.6887 O.D.
Spring	Int	160-1143	2.610 Length
Lifter	Both	VL8	Hydraulic Type
Rocker Components	Both	180-1055	Rocker Arm, L.H.
		180-1056	Rocker Arm, R.H.

383 C.I., (6.3L), H383

V8 383 CID

H383 **45**

BORE - 107.95mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2187-2	2 ³ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., 9/32 Depth
	Exh	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Int	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1143	2.610 Length
Lifter	Both	VL64	Hydraulic Type

383 C.I., (6.3L), HB383

V8 383 CID

HB383 **46**

BORE - 107.95mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2187-2	2 ³ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., 9/32 Depth
	Exh	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Int	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Int	160-1143	2.610 Length
Rocker Components	Both	180-1055	Rocker Arm, L.H.
		180-1056	Rocker Arm, R.H.
Push Rod	Both	190-1408	8.575 Length

383 C.I., (6.3L), HA383

V8 383 CID

HA383 **47**

BORE - 108mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2187-2	2 ³ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., 9/32 Depth
	Exh	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.

CHRYSLER / INDUSTRIAL (Cont'd)

48 400 C.I., (6.6L), H400

V8 400 CID

H400
BORE - 110.287mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 ¹ / ₄ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Both	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1143	2.610 Length
Lifter	Both	VL64	Hydraulic Type
Rocker Components	Both	180-1055	Rocker Arm, L.H.
		180-1056	Rocker Arm, R.H.
Push Rod	Exh	190-1408	8.575 Length

49 413 C.I., (6.8L), HB413

V8 413 CID

HB413
BORE - 106.375mm/4.188"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1624E-1N	1.624 O.D., 1-21/64 I.D., ³ / ₈ Depth
Valve	Exh	01017S	1.500 Head Diameter, Stellite Face, 2 Groove, Optional
Keeper	Int	121-1014	4 RD Bead Type
	Exh	121-1000	2 RD Bead Type
Guide	Int	140-1840	0.3745 I.D., 3.280 Length, 0.6890 O.D.
	Exh	140-1839	0.4385 I.D., 3.090 Length, 0.6887 O.D.
Spring	Int	160-1143	2.610 Length
Lifter	Both	VL64	Hydraulic Type
Rocker Components	Both	180-1055	Rocker Arm, L.H.
		180-1056	Rocker Arm, R.H.

50 413 C.I., (6.8L), H413

V8 413 CID

H413
BORE - 106.375mm/4.188"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2187-2	2 ⁹ / ₁₆ O.D., 1 ¹⁹ / ₁₆ I.D., ⁹ / ₃₂ Depth
	Exh	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
Valve	Int	00548	2.080 Head Diameter, 2 Groove
	Exh	00520	1.600 Head Diameter, 4 Groove
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Guide	Int	140-1840	0.3745 I.D., 3.280 Length, 0.6890 O.D.
	Exh	140-1839	0.4385 I.D., 3.090 Length, 0.6887 O.D.
Lifter	Both	VL8	Hydraulic Type

51 413 C.I., (6.8L), HC413

V8 413 CID

HC413
BORE - 106.4mm/4.188"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1624E-1N	1.624 O.D., 1-21/64 I.D., ³ / ₈ Depth

(Cont'd) **CHRYSLER / INDUSTRIAL**

440 C.I., (7.2L), H440

V8 440 CID

H440 **52**
BORE - 109.728mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2¼ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00548	2.080 Head Diameter, 2 Groove
	Exh	01156	1.740 Head Diameter, 4 Groove, +15 O/S Stem Available
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Guide	Both	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1143	2.610 Length
Lifter	Both	VL64	Hydraulic Type, Late Eng., Use Push Rod 190-1403 W/ Both 0.312 Ball Ends
		VL8	Hydraulic Type, Early Eng., Use Push Rod W/ One 0.312 Ball End And One 0.250 Ball Dia.
Rocker Components	Both	180-1055	Rocker Arm, L.H.
		180-1056	Rocker Arm, R.H.
Push Rod	Exh	190-1403	9.315 Length, From 1968, D Series

CHRYSLER / MARINE

Engine	Models	Line No.
6 Cylinder		
155 C.I., (2.5L), 155 12 Valve		1
225 C.I., (3.7L), 225 12 Valve		2
251 C.I., (4.1L), OHV, GAS, CARB		4
265 C.I., (4.3L), 12 Valve		6
265 C.I., (4.3L), M47 Crown	M47S Crown Special	7
8 Cylinder		
250 C.I., (4.1L), OHV, GAS, CARB	Chrysler III, Superbee III, Jet III, Superbee V-Drive III	3
260 C.I., (4.3L)		5
280 C.I., (4.6L)		8
280 C.I., (4.6L)		9
300 C.I., (4.9L)		10
318 C.I., (5.2L), 195 HP	225 Superbee II, Jet II, Superbee V-Drive, 195 Stern Drive, 240 Stern Drive	11
318 C.I., (5.2L), 195 HP	Special 915	12
318 C.I., (5.2L), Mechanical		13
324 C.I., (5.3L)		14
330 C.I., (5.4L)		15
331 C.I., (5.4L)		16
335 C.I., (5.5L)		17
340 C.I., (5.6L)	Chrysler III, Superbee III, Jet III, Superbee V-Drive III	18
360 C.I., (5.6L)	Jet, Superbee V-Drive III, Superbee III	19
361 C.I., (5.9L)	M81 Imperial	20
375 C.I., (6.1L)		21
383 C.I., (6.3L)		22
400 C.I., (6.6L)		23

CHRYSLER / MARINE (Cont'd)

Engine	Models	Line No.
8 Cylinder		
440 C.I., (7.2L)		24

1 155 C.I., (2.5L), 155 12 Valve **CHM155**
 L6 155 CID **BORE - 86.36mm/3.40"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1500-1	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00567	1.620 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh	01265	1.360 Head Diameter, 4 Groove
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Guide	Int	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

2 225 C.I., (3.7L), 225 12 Valve **CHM225**
 L6 225 CID **BORE - 86.36mm/3.40"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1500-1	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00567	1.620 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh	01265	1.360 Head Diameter, 4 Groove
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Stem Seal	Exh	122-1051	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Lifter	Both	VL31	Mechanical High Performance Type
Push Rod	Both	190-1349	8.723 Length

3 250 C.I., (4.1L), OHV, GAS, CARB **CHM250**
 V8 250 CID **BORE - 102.6mm/4.04"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-6	2.000 O.D., 1 $\frac{5}{8}$ I.D., $\frac{9}{32}$ Depth
	Exh	SB1687-3	1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available Non-Magnetic (N) Material
Valve	Int	01186	1.811 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh	01312S	1.517 Head Diameter, Stellite Face, 2 Groove
Keeper	Both	121-1000	2 RD Bead Type

4 251 C.I., (4.1L), OHV, GAS, CARB **CHM251**
 L6 251 CID **BORE - 87.3mm/3.44"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-1	1 $\frac{13}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1640E-1	1.640 O.D., 1 $\frac{3}{8}$ I.D., $\frac{1}{4}$ Depth

(Cont'd) CHRYSLER / MARINE

260 C.I., (4.3L)			CHM260 5
		V8 260 CID	BORE - 107.95mm/4.20"
PART	PART NO.		NOTES
Valve	Int	00548	2.080 Head Diameter,2 Groove,To S/N E44742
Keeper	Int	121-1000	2 RD Bead Type
Guide	Int	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide 0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	140-9108	
265 C.I., (4.3L), 12 Valve			CHM265 6
		L6 265 CID	BORE - 87.3mm/3.44"
PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material 1.640 O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth
	Exh	SB1640E-1	
Guide	Both	140-1337	0.3445 I.D.,2.813 Length,0.6575 O.D.
265 C.I., (4.3L), M47 Crown			M47 7
		L6 265 CID	BORE - 87.3mm/3.44"
PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1812-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material 1.640 O.D.,1 ³ / ₈ I.D., ¹ / ₄ Depth
	Exh	SB1640E-1	
Valve	Int	00298	1.718 Head Diameter,2 Groove 1.501 Head Diameter,2 Groove, W/.340 Stem
	Exh	00257	
Keeper	Both	121-1001	2 RD Bead Type
Guide	Int	140-1338	0.3425 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side 0.3445 I.D.,2.813 Length,0.6575 O.D.,Tapered End To Spring Side
	Exh	140-1337	
280 C.I., (4.6L)			CHM280_4.2 8
		V8 280 CID	BORE - 107.95mm/4.20"
PART	PART NO.		NOTES
Valve	Int	00548	2.080 Head Diameter,2 Groove
Keeper	Int	121-1000	2 RD Bead Type
280 C.I., (4.6L)			CHM280_4.3 9
		V8 280 CID	BORE - 110.287mm/4.34"
PART	PART NO.		NOTES
Valve	Int	00548	2.080 Head Diameter,2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Both	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
300 C.I., (4.9L)			CHM300 10
		V8 300 CID	BORE - 109.728mm/4.32"
PART	PART NO.		NOTES
Valve	Int	00548	2.080 Head Diameter,2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Both	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
318 C.I., (5.2L), 195 HP			CHM318_195 11
		V8 318 CID	BORE - 99.3mm/3.91"
PART	PART NO.		NOTES
Valve Seat Insert	Int	SB2000-10	2.000 O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth 1 ¹¹ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1687-2	

CHRYSLER / MARINE (Cont'd)

11 318 C.I., (5.2L), 195 HP

(cont.)

V8 318 CID

CHM318_195

BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve	Int	01186	1.811 Head Diameter,2 Groove,+15 O/S Stem Available
	Exh	01312S	1.517 Head Diameter,Stellite Face, 2 Groove,From S/N E169354
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style,W/ Integral Cast Guide & Single Spring
Guide	Int	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1018	1.810 Length,W/ Rotator
Rotator	Both	161-1020	
Lifter	Both	VL89	Hydraulic Type
Rocker Components	Both	180-1077	Rocker Arm,L.H., Shaft Not Incl.
		180-1078	Rocker Arm,R.H., Shaft Not Incl.
		186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

12 318 C.I., (5.2L), 195 HP

V8 318 CID

CHM318_195S

BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve	Int	00938	1.780 Head Diameter,2 Groove,+15 O/S Stem Available
	Exh	01329	1.500 Head Diameter,4 Groove,OEM # 2465339, +15 O/S Stem Available
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Guide	Int	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Rotator	Both	161-1020	
Lifter	Both	VL89	Hydraulic Type
Rocker Components	Both	180-1077	Rocker Arm,L.H., Shaft Not Incl.
		180-1078	Rocker Arm,R.H., Shaft Not Incl.
		186-1100	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1450	7.500 Length,+15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

13 318 C.I., (5.2L), Mechanical

V8 318 CID

CHM318M

BORE - 99.3mm/3.91"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-10	2.000 O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	SB1687-2	1 ¹¹ / ₁₆ O.D., ¹⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00514	1.844 Head Diameter,2 Groove
	Exh	00518	1.563 Head Diameter,4 Groove
Keeper	Int	121-1000	2 RD Bead Type
	Exh	121-1014	4 RD Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style,W/ Integral Cast Guide & Single Spring
Guide	Int	140-9610	0.3750 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

(Cont'd) CHRYSLER / MARINE**318 C.I., (5.2L), Mechanical**

V8 318 CID

CHM318M **13**

BORE - 99.3mm/3.91" (cont.)

PART		PART NO.	NOTES
Guide	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

324 C.I., (5.3L)

V8 324 CID

CHM324 **14**

BORE - 82.5mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-6		1$\frac{1}{2}$ O.D., 1$\frac{3}{16}$ I.D., $\frac{1}{4}$ Depth

330 C.I., (5.4L)

V8 330 CID

CHM330 **15**

BORE - 109.728mm/4.32"

PART		PART NO.	NOTES
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Both	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide

331 C.I., (5.4L)

V8 331 CID

CHM331 **16**

BORE - 96.8mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-2	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth, Early Design 2 $\frac{1}{8}$ O.D., 1 $\frac{3}{4}$ I.D., $\frac{9}{32}$ Depth, Late Design 1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Late Design 1 $\frac{11}{16}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{1}{4}$ Depth, +5 O/S Available, Early Design
		SB2125-10	
	Exh	SB1625-1	
		SB1687-7	

335 C.I., (5.5L)

V8 335 CID

CHM335 **17**

BORE - 109.728mm/4.30"

PART		PART NO.	NOTES
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Both	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Rocker Components	Both	180-1077 180-1078 186-1100	Rocker Arm, L.H., Shaft Not Incl. Rocker Arm, R.H., Shaft Not Incl. Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1450	7.500 Length, +15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

340 C.I., (5.6L)

V8 340 CID

CHM340 **18**

BORE - 102.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2000-1 SB1687-3	2.000 O.D., 1 $\frac{3}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material 1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available Non-Magnetic (N) Material
Valve	Int Exh	01186 01312S	1.811 Head Diameter, 2 Groove, +15 O/S Stem Available 1.517 Head Diameter, Stellite Face, 2 Groove, From S/N E169354
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1031	Positive Type, Poly Material, 2-Ring Style
Lifter	Both	VL89	Hydraulic Type, (G Series)
Push Rod	Both	190-1450	7.500 Length, +15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

CHRYSLER / MARINE (Cont'd)

19 360 C.I., (5.6L)

V8 360 CID

CHM360V
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-6	2.000 O.D., 1 ⁵ / ₈ I.D., ⁹ / ₃₂ Depth
	Exh	SB1625-2	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	01186	1.811 Head Diameter, 2 Groove, +15 O/S Stem Available
	Exh	01312S	1.517 Head Diameter, Stellite Face, 2 Groove
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Rotator	Both	161-1020	
Lifter	Both	VL89	Hydraulic Type
Rocker Components	Both	180-1077	Rocker Arm, L.H., Shaft Not Incl.
		180-1078	Rocker Arm, R.H., Shaft Not Incl.
		186-1100	Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1450	7.500 Length, +15 O/S (190-1450+15) & +45 O/S (190-1450+45) Available

20 361 C.I., (5.9L)

V8 361 CID

CHM361
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1624E-1N	1.624 O.D., 1-21/64 I.D., ³ / ₈ Depth
		SB1625-20	1 ⁵ / ₈ O.D., 1 ⁵ / ₁₆ I.D., 0.3950 Depth, Optional Larger Depth
Keeper	Int	121-1014	4 RD Bead Type
	Exh	121-1000	2 RD Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style, W/ Integral Cast Guide & Dual Spring
		122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Int	140-1840	0.3745 I.D., 3.280 Length, 0.6890 O.D.
	Exh	140-1839	0.4385 I.D., 3.090 Length, 0.6887 O.D.
Lifter	Both	VL31	Mechanical High Performance Type

21 375 C.I., (6.1L)

V8 375 CID

CHM375
BORE - 109.728mm/4.30"

PART		PART NO.	NOTES
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Guide	Both	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide

22 383 C.I., (6.3L)

V8 383 CID

CHM383
BORE - 107.95mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 ¹ / ₄ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1750-1	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ¹ / ₄ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Stem Seal	Both	122-1011	Positive Type, Tef/Rub Material, 1-Ring Style, W/ Integral Cast Guide & Dual Spring, 0.500 Guide O.D.
		122-1031	Positive Type, Poly Material, 2-Ring Style, 0.625 O.D. Valve Guide
Guide	Int	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide

(Cont'd) CHRYSLER / MARINE**383 C.I., (6.3L)**

V8 383 CID

CHM383 **22**
BORE - 107.95mm/4.20" (cont.)

PART		PART NO.	NOTES
Guide	Exh	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Rocker Components	Both	180-1055 180-1056	Rocker Arm, L.H. Rocker Arm, R.H.
Push Rod	Both	190-1408	8.575 Length

400 C.I., (6.6L)

V8 400 CID

CHM400 **23**
BORE - 110.287mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2250-1 SB1875-1	2¼ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth 1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Stem Seal	Both	122-1031	Positive Type, Poly Material, 2-Ring Style, W/ Integral Cast Guide
Guide	Both	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Lifter	Both	VL64	Hydraulic Type
Rocker Components	Both	180-1055 180-1056	Rocker Arm, L.H. Rocker Arm, R.H.
Push Rod	Both	190-1408	8.575 Length

440 C.I., (7.2L)

V8 440 CID

CHM440 **24**
BORE - 109.728mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2250-1 SB1875-1	2¼ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth 1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	00548	2.080 Head Diameter, 2 Groove
Keeper	Int	121-1000	2 RD Bead Type
Stem Seal	Both	122-1011 122-1031	Positive Type, Tef/Rub Material, 1-Ring Style, 0.500 O.D. Valve Guide Positive Type, Poly Material, 2-Ring Style, 0.625 O.D. Valve Guide
Guide	Both	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Lifter	Both	VL64	Hydraulic Type
Rocker Components	Both	180-1055 180-1056	Rocker Arm, L.H. Rocker Arm, R.H.
Push Rod	Both	190-1408	8.575 Length

CLIMAX / HEAVY DUTY

Engine	Models	Line No.
66 C.I., (1.0L)	Industrial Engine	1

66 C.I., (1.0L)

66 CID

C66 **1**
BORE - 146mm/5.75"

PART		PART NO.	NOTES
Guide	Both	140-5379	0.5625 I.D., 3.000 Length, 0.8760 O.D.

CONTINENTAL / HEAVY DUTY

Engine	Models	Line No.
2 Cylinder		
79 C.I., (1.3L), OHV, 4 VALVE, GAS, DIESEL "TM13, TMD13"		7
3 Cylinder		
122 C.I., (2.0L), OHV, 6 VALVE, GAS, DIESEL "TM20, TMD20"		16
4 Cylinder		
62 C.I., (1.0L), N62		1
62 C.I., (1.0L), N4062		2
69 C.I., (1.1L), Y69		3
69 C.I., (1.1L), LY69		4
69 C.I., (1.1L), Y4069		5
69 C.I., (1.1L), PY69		6
91 C.I., (1.5L), PY91		8
91 C.I., (1.5L), Y4091		9
91 C.I., (1.5L), Y91		10
91 C.I., (1.5L), LY91		11
112 C.I., (1.8L), Y112		12
112 C.I., (1.8L), Y4112		13
112 C.I., (1.8L), PY112		14
120 C.I., (2.0L), Z120		15
124 C.I., (2.1L), LF124		17
124 C.I., (2.1L), F124		18
124 C.I., (2.1L), PF124		19
124 C.I., (2.1L), F4124		20
129 C.I., (2.1L), Z129		21
134 C.I., (2.2L), Z134		22
135 C.I., (2.2L), F135		23
140 C.I., (2.3L), F140		24
140 C.I., (2.3L), F4140		25
140 C.I., (2.3L), LF140		27
145 C.I., (2.4L), Z145		28
162 C.I., (2.6L), PF162		29
162 C.I., (2.6L), LF162		30
162 C.I., (2.6L), F4162		31
162 C.I., (2.6L), F162		32
163 C.I., (2.7L), F163		33
165 C.I., (2.7L), OHV, 8 VALVE, GAS, DIESEL "TM27, TMD27, TMDT27"		34
176 C.I., (2.9L), G176 & G176LPG		35
186 C.I., (3.0L), F186		37
193 C.I., (3.2L), G4193		38
193 C.I., (3.2L), G193		39
201 C.I., (3.3L), E201		40
208 C.I., (3.4L), E208 LPG		42

(Cont'd) **CONTINENTAL / HEAVY DUTY**

Engine	Models	Line No.
4 Cylinder		
208 C.I., (3.4L), E208		43
223 C.I., (3.7L), E223		48
223 C.I., (3.7L), E223 LPG		49
242 C.I., (4.0L), E242 LPG		54
242 C.I., (4.0L), E242		55
260 C.I., (4.3L), H260		57
260 C.I., (4.3L), HD260 Diesel		58
277 C.I., (4.5L), HD277		60
277 C.I., (4.5L), H277		61
6 Cylinder		
140 C.I., (2.3L), PF140 12 Valve		26
186 C.I., (3.0L), F6186 12 Valve		36
202 C.I., (3.3L), DS202 12 Valve		41
209 C.I., (3.4L), 24B 12 Valve		44
209 C.I., (3.4L), F209 12 Valve		45
209 C.I., (3.4L), F6209 12 Valve		46
209 C.I., (3.4L), PF209 12 Valve		47
226 C.I., (3.7L), F226 12 Valve		50
226 C.I., (3.7L), PF226 12 Valve		51
226 C.I., (3.7L), F6226 12 Valve		52
226 C.I., (3.7L), F227 12 Valve		53
244 C.I., (4.0L), F245		56
271 C.I., (4.4L), M271 12 Valve		59
290 C.I., (4.7L), M290 12 Valve		62
330 C.I., (5.4L), M330 12 Valve		63

62 C.I., (1.0L), N62 N62 **1**
L4 62 CID BORE - 60.3mm/2.375"

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1000-1	1 O.D., ³ / ₄ I.D., ³ / ₁₆ Depth
Guide	Both 140-1678	0.3164 I.D., 1.658 Length, 0.5643 O.D.

62 C.I., (1.0L), N4062 N4062 **2**
L4 62 CID BORE - 60.3mm/2.375"

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1000-1	1 O.D., ³ / ₄ I.D., ³ / ₁₆ Depth

69 C.I., (1.1L), Y69 Y69 **3**
L4 69 CID BORE - 63.5mm/2.50"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1312-1 Exh SB1125-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth 1 ¹ / ₈ O.D., ³ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int 01365 Exh 00489	1.203 Head Diameter, W/ Late Style Valve Keeper 1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both 121-1011	1 SQ Bead Type
Guide	Both 140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both 160-1401	2.063 Length, Long Spring, OEM # CNY400I00215

CONTINENTAL / HEAVY DUTY (Cont'd)

4 69 C.I., (1.1L), LY69

L4 69 CID

LY69

BORE - 63.5mm/2.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

5 69 C.I., (1.1L), Y4069

L4 69 CID

Y4069

BORE - 63.5mm/2.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

6 69 C.I., (1.1L), PY69

L4 69 CID

PY69

BORE - 63.5mm/2.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

7 79 C.I., (1.3L), OHV, 4 VALVE, GAS, DIESEL "TM13, TMD13"

L2 79 CID

TM13

BORE - 91.008mm/3.583"

PART		PART NO.	NOTES
Valve	Int	13016	1.652 Head Diameter, Gasoline, LPG, Natural Gas, OEM # TM27100504
		13018	1.652 Head Diameter, Diesel, OEM #'s TMD27100502
	Exh	13017	1.357 Head Diameter, Gasoline, LPG, Natural Gas, OEM # TM27100505
		13019	1.357 Head Diameter, Diesel, OEM # TMD27100501
Keeper	Both	121-1003	1 SQ Bead Type, OEM # CVT03234
Guide	Both	140-1962	0.3433 I.D., 2.375 Length, 0.6570 O.D., OEM # TM27100316
Spring	Both	160-1573	2.075 Length, OEM # TM27100309

8 91 C.I., (1.5L), PY91

L4 91 CID

PY91

BORE - 73.025mm/2.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type

(Cont'd) **CONTINENTAL / HEAVY DUTY**

91 C.I., (1.5L), PY91 PY91 **8**
L4 91 CID BORE - 73.025mm/2.875" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

91 C.I., (1.5L), Y4091 Y4091 **9**
L4 91 CID BORE - 73.025mm/2.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1312-1 SB1125-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth 1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int Exh	01365 00489	1.203 Head Diameter, W/ Late Style Valve Keeper 1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

91 C.I., (1.5L), Y91 Y91 **10**
L4 91 CID BORE - 73.025mm/2.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1312-1 SB1125-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth 1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int Exh	01365 00489	1.203 Head Diameter, W/ Late Style Valve Keeper 1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

91 C.I., (1.5L), LY91 LY91 **11**
L4 91 CID BORE - 73.025mm/2.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1312-1 SB1125-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth 1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int Exh	01365 00489	1.203 Head Diameter, W/ Late Style Valve Keeper 1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

112 C.I., (1.8L), Y112 Y112 **12**
L4 112 CID BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1312-1 SB1125-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth 1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int Exh	01365 00489	1.203 Head Diameter, W/ Late Style Valve Keeper 1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

CONTINENTAL / HEAVY DUTY (Cont'd)

13 112 C.I., (1.8L), Y4112

Y4112

L4 112 CID

BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

14 112 C.I., (1.8L), PY112

PY112

L4 112 CID

BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01365	1.203 Head Diameter, W/ Late Style Valve Keeper
	Exh	00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1619	0.3163 I.D., 2.281 Length, 0.5645 O.D.
Spring	Both	160-1401	2.063 Length

15 120 C.I., (2.0L), Z120

Z120

L4 120 CID

BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1125-1	1 ¹ / ₈ O.D., ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Both	00234	1.015 Head Diameter, Drilled Stem
		00489	1.015 Head Diameter, W/ Rotator & Late Style Valve Keeper
Keeper	Both	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
		121-1011	1 SQ Bead Type
Stem Seal	Both	322-1002	Positive Type, Teflon Material, All Teflon Style, Machine Guide To 0.531 O.D.
Guide	Both	140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D.
Spring	Both	160-1401	2.063 Length

16 122 C.I., (2.0L), OHV, 6 VALVE, GAS, DIESEL "TM20, TMD20"

TM20

L3 122 CID

BORE - 91.008mm/3.583"

PART		PART NO.	NOTES
Valve	Int	13016	1.652 Head Diameter, Gas, OEM # TM27100504
		13018	1.652 Head Diameter, Diesel, OEM #'s TMD27100502
	Exh	13017	1.357 Head Diameter, Gas, OEM # TM27100505
		13019	1.357 Head Diameter, Diesel, OEM # TMD27100501
Keeper	Both	121-1003	1 SQ Bead Type, OEM # CVT03234
Guide	Both	140-1962	0.3433 I.D., 2.375 Length, 0.6570 O.D., OEM # TM27100316
Spring	Both	160-1573	2.075 Length, OEM # TM27100309

17 124 C.I., (2.1L), LF124

LF124

L4 124 CID

BORE - 76.2mm/3.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 ³ / ₈ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.

(Cont'd) **CONTINENTAL / HEAVY DUTY**

124 C.I., (2.1L), LF124 **LF124 17**
L4 124 CID **BORE - 76.2mm/3.00" (cont.)**

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1375-3N	1 $\frac{3}{8}$ " O.D., 1 $\frac{1}{16}$ " I.D., $\frac{3}{16}$ " Depth, LPG, W/ 1.203 Valve Head Dia. 1 $\frac{7}{16}$ " O.D., 1 $\frac{3}{16}$ " I.D., $\frac{7}{32}$ " Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia. 1 $\frac{7}{16}$ " O.D., 1 $\frac{3}{16}$ " I.D., $\frac{7}{32}$ " Depth, LPG, W/ 1.328 Valve Head Dia.
		SB1437-3	
		SB1437-3N	
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

124 C.I., (2.1L), F124 **F124 18**
L4 124 CID **BORE - 76.2mm/3.00"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ " O.D., 1 $\frac{3}{8}$ " I.D., $\frac{7}{32}$ " Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 $\frac{3}{8}$ " O.D., 1 $\frac{1}{16}$ " I.D., $\frac{3}{16}$ " Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia. 1 $\frac{3}{8}$ " O.D., 1 $\frac{1}{16}$ " I.D., $\frac{3}{16}$ " Depth, LPG, W/ 1.203 Valve Head Dia. 1 $\frac{7}{16}$ " O.D., 1 $\frac{3}{16}$ " I.D., $\frac{7}{32}$ " Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia. 1 $\frac{7}{16}$ " O.D., 1 $\frac{3}{16}$ " I.D., $\frac{7}{32}$ " Depth, LPG, W/ 1.328 Valve Head Dia.
	Exh	SB1375-3	
		SB1375-3N	
		SB1437-3	
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

124 C.I., (2.1L), PF124 **PF124 19**
L4 124 CID **BORE - 76.2mm/3.00"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ " O.D., 1 $\frac{3}{8}$ " I.D., $\frac{7}{32}$ " Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 $\frac{3}{8}$ " O.D., 1 $\frac{1}{16}$ " I.D., $\frac{3}{16}$ " Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia. 1 $\frac{3}{8}$ " O.D., 1 $\frac{1}{16}$ " I.D., $\frac{3}{16}$ " Depth, LPG, W/ 1.203 Valve Head Dia. 1 $\frac{7}{16}$ " O.D., 1 $\frac{3}{16}$ " I.D., $\frac{7}{32}$ " Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia. 1 $\frac{7}{16}$ " O.D., 1 $\frac{3}{16}$ " I.D., $\frac{7}{32}$ " Depth, LPG, W/ 1.328 Valve Head Dia.
	Exh	SB1375-3	
		SB1375-3N	
		SB1437-3	
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"

CONTINENTAL / HEAVY DUTY (Cont'd)

19 124 C.I., (2.1L), PF124 PF124
 (cont.) L4 124 CID BORE - 76.2mm/3.00"

PART	PART NO.	NOTES
Guide	Both 140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both 160-1401	2.063 Length

20 124 C.I., (2.1L), F4124 F4124
 L4 124 CID BORE - 76.2mm/3.00"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1625-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
	SB1375-3N	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia.
	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
	SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int 00810	1.516 Head Diameter, Drilled Stem
	Exh 00170	1.203 Head Diameter, Drilled Stem
	00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh 121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both 121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both 140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both 160-1401	2.063 Length

21 129 C.I., (2.1L), Z129 Z129
 L4 129 CID BORE - 82.55mm/3.25"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1375-4	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{3}{16}$ Depth
	Exh SB1250-1	1 $\frac{1}{4}$ O.D., 1.000 I.D., $\frac{7}{32}$ Depth
Valve	Int 00343	1.278 Head Diameter, Drilled Stem
	Exh 00486	1.140 Head Diameter, 1 Groove, W/ Rotocap. New Design, Does Not Require Lash Cap
Keeper	Int 121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Exh 121-1011	1 SQ Bead Type
Stem Seal	Both 322-1002	Positive Type, Teflon Material, All Teflon Style, Machine Guide To 0.531 O.D.
Guide	Both 140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D.
Spring	Both 160-1401	2.063 Length

22 134 C.I., (2.2L), Z134 Z134
 L4 134 CID BORE - 85.725mm/3.346"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1375-4	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{3}{16}$ Depth
	Exh SB1250-1	1 $\frac{1}{4}$ O.D., 1.000 I.D., $\frac{7}{32}$ Depth
Valve	Int 00343	1.278 Head Diameter, Drilled Stem, OEM # 1750070M1
	Exh 00486	1.140 Head Diameter, 1 Groove, W/ Rotocap. New Design, Does Not Require Lash Cap
Keeper	Int 121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Exh 121-1011	1 SQ Bead Type
Stem Seal	Both 322-1002	Positive Type, Teflon Material, All Teflon Style, Machine Guide To 0.531 O.D.

(Cont'd) **CONTINENTAL / HEAVY DUTY**

134 C.I., (2.2L), Z134 **Z134 22**
L4 134 CID **BORE - 85.725mm/3.346" (cont.)**

PART		PART NO.	NOTES
Guide	Both	140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D.
Spring	Both	160-1401	2.063 Length

135 C.I., (2.2L), F135 **F135 23**
L4 135 CID **BORE - 79.375mm/3.125"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3 SB1375-3N	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material 1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia.
Valve	Int	01148	1.516 Head Diameter, All
	Exh	01147	1.203 Head Diameter, Except LPG
		01693S	1.203 Head Diameter, Stellite Face, LPG
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1962	0.3433 I.D., 2.375 Length, 0.6570 O.D.
Spring	Both	160-1401	2.063 Length

140 C.I., (2.3L), F140 **F140 24**
L4 140 CID **BORE - 80.96mm/3.1875"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.		
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

140 C.I., (2.3L), F4140 **F4140 25**
L4 140 CID **BORE - 80.96mm/3.1875"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.		
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem

CONTINENTAL / HEAVY DUTY (Cont'd)

25 140 C.I., (2.3L), F4140 F4140
 (cont.) L4 140 CID BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Keeper	Exh	121-1010	PIN Bead Type,Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type,Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D.,2.313 Length,0.6573 O.D.
Spring	Both	160-1401	2.063 Length

26 140 C.I., (2.3L), PF140 12 Valve PF140
 L6 140 CID BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.203 Valve Head Dia.
		SB1375-3N	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth,LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.328 Valve Head Dia.
		SB1437-3N	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter,Drilled Stem
	Exh	00170	1.203 Head Diameter,Drilled Stem
		00196	1.328 Head Diameter,Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type,Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type,Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D.,2.313 Length,0.6573 O.D.
Spring	Both	160-1401	2.063 Length

27 140 C.I., (2.3L), LF140 LF140
 L4 140 CID BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.203 Valve Head Dia.
		SB1375-3N	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth,LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.328 Valve Head Dia.
		SB1437-3N	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter,Drilled Stem
	Exh	00170	1.203 Head Diameter,Drilled Stem
		00196	1.328 Head Diameter,Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type,Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type,Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D.,2.313 Length,0.6573 O.D.
Spring	Both	160-1401	2.063 Length

28 145 C.I., (2.4L), Z145 Z145
 L4 145 CID BORE - 85.725mm/3.346"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-4	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{3}{16}$ Depth

(Cont'd) **CONTINENTAL / HEAVY DUTY**

145 C.I., (2.4L), Z145

L4 145 CID

Z145 **28**

BORE - 85.725mm/3.346" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1250-1	1¼ O.D., 1.000 I.D., 7/32 Depth
Valve	Int	00343	1.278 Head Diameter, Drilled Stem
	Exh	00486	1.140 Head Diameter, 1 Groove, W/ Rotocap. New Design, Does Not Require Lash Cap
Keeper	Int	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Exh	121-1011	1 SQ Bead Type
Stem Seal	Both	322-1002	Positive Type, Teflon Material, All Teflon Style, Machine Guide To 0.531 O.D.
Guide	Both	140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D.
Spring	Both	160-1401	2.063 Length

162 C.I., (2.6L), PF162

L4 162 CID

PF162 **29**

BORE - 87.3mm/3.437"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1½ O.D., 1⅜ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1⅜ O.D., 1⅞ I.D., 3/16 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	1⅜ O.D., 1⅞ I.D., 3/16 Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	17/16 O.D., 1⅜ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	17/16 O.D., 1⅜ I.D., 7/32 Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

162 C.I., (2.6L), LF162

L4 162 CID

LF162 **30**

BORE - 87.3mm/3.437"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1½ O.D., 1⅜ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1⅜ O.D., 1⅞ I.D., 3/16 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	1⅜ O.D., 1⅞ I.D., 3/16 Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	17/16 O.D., 1⅜ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	17/16 O.D., 1⅜ I.D., 7/32 Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

CONTINENTAL / HEAVY DUTY (Cont'd)

31 162 C.I., (2.6L), F4162

L4 162 CID

F4162

BORE - 87.3mm/3.437"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 ³ / ₈ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N	1 ³ / ₈ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, LPG, W/ 1.203 Valve Head Dia.
		SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.

32 162 C.I., (2.6L), F162

L4 162 CID

F162

BORE - 87.3mm/3.437"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 ³ / ₈ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Int	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

33 163 C.I., (2.7L), F163

L4 163 CID

F163

BORE - 87.3mm/3.437"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N	1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	01148	1.516 Head Diameter, All
	Exh	01147	1.203 Head Diameter, Except LPG
		01693S	1.203 Head Diameter, Stellite Face, LPG
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1962	0.3433 I.D., 2.375 Length, 0.6570 O.D.
Spring	Both	160-1401	2.063 Length

(Cont'd) **CONTINENTAL / HEAVY DUTY**

165 C.I., (2.7L), OHV, 8 VALVE, GAS, DIESEL "TM27, TMD27, TMDT27" **TM27 34**
L4 165 CID **BORE - 91.008mm/3.583"**

PART		PART NO.	NOTES
Valve	Int	13016	1.652 Head Diameter,Gas, OEM # TM27100504
		13018	1.652 Head Diameter,Diesel, OEM # TMD27100502
	Exh	13017	1.357 Head Diameter,Gas, OEM # TM27100505
		13019	1.357 Head Diameter,Diesel, OEM # TMD27100501
Keeper	Both	121-1003	1 SQ Bead Type,OEM # CVT03234
Guide	Both	140-1962	0.3433 I.D.,2.375 Length,0.6570 O.D.,OEM # TM27100316
Spring	Both	160-1573	2.075 Length,OEM # TM27100309

176 C.I., (2.9L), G176 & G176LPG **G176 35**
L4 176 CID **BORE - 90.8mm/3.50"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1437-3	17/16 O.D.,13/16 I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N	1.348 O.D.,1.087 I.D.,0.2000 Depth,+10 O/S Available
Valve	Int	13105	1.328 Head Diameter,OEM # 1019742M1; NOTE: Except LPG
	Exh	13106S	1.203 Head Diameter,Stellite Face,OEM # 1019743M1; NOTE: Includes LPG
Guide	Both	140-1833	0.3432 I.D.,1.813 Length,0.6575 O.D.
Spring	Both	160-1544	1.996 Length,OEM # 1010268M1

186 C.I., (3.0L), F6186 12 Valve **F6186 36**
L6 186 CID **BORE - 76.2mm/3.00"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	15/8 O.D.,13/8 I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	17/16 O.D.,13/16 I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00810	1.516 Head Diameter,Drilled Stem
	Exh	00196	1.328 Head Diameter,Drilled Stem
Keeper	Both	121-1012	PIN Bead Type,Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1515	0.3427 I.D.,2.563 Length,0.6573 O.D.

186 C.I., (3.0L), F186 **F186 37**
L4 186 CID **BORE - 76.2mm/3.00"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	15/8 O.D.,13/8 I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	17/16 O.D.,13/16 I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00810	1.516 Head Diameter,Drilled Stem
	Exh	00196	1.328 Head Diameter,Drilled Stem
Keeper	Both	121-1012	PIN Bead Type,Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1515	0.3427 I.D.,2.563 Length,0.6573 O.D.

193 C.I., (3.2L), G4193 **G4193 38**
L4 193 CID **BORE - 95.25mm/3.70"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	113/16 O.D.,11/2 I.D.,1/4 Depth,+30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-3N	17/16 O.D.,13/16 I.D.,7/32 Depth

CONTINENTAL / HEAVY DUTY (Cont'd)

38 193 C.I., (3.2L), G4193 G4193
 (cont.) L4 193 CID BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve	Int	00867	1.641 Head Diameter
	Exh	01055	1.375 Head Diameter
Guide	Both	140-1970	0.3433 I.D.,2.719 Length,0.6575 O.D.

39 193 C.I., (3.2L), G193 G193
 L4 193 CID BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,+30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth
Valve	Int	00867	1.641 Head Diameter
	Exh	01055	1.375 Head Diameter
Guide	Both	140-1970	0.3433 I.D.,2.719 Length,0.6575 O.D.

40 201 C.I., (3.3L), E201 E201
 L4 201 CID BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

41 202 C.I., (3.3L), DS202 12 Valve DS202
 L6 202 CID BORE - 79.3mm/3.1250"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 ³ / ₈ O.D.,1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth,Also Available In Non-Magnetic (N) Material
Guide	Both	140-1470	0.3750 I.D.,2.750 Length,0.6573 O.D.

42 208 C.I., (3.4L), E208 LPG E208LP
 L4 208 CID BORE - 93.6mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth

43 208 C.I., (3.4L), E208 E208
 L4 208 CID BORE - 93.6mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth

44 209 C.I., (3.4L), 24B 12 Valve 24B
 L6 209 CID BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Valve	Int	00810	1.516 Head Diameter,Drilled Stem
	Exh	00170	1.203 Head Diameter,Drilled Stem
		00196	1.328 Head Diameter,Drilled Stem
Keeper	Exh	121-1010	PIN Bead Type,Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
Guide	Both	140-1515	0.3427 I.D.,2.563 Length,0.6573 O.D.

(Cont'd) **CONTINENTAL / HEAVY DUTY**

209 C.I., (3.4L), F209 12 Valve
L6 209 CID

F209 45
BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N SB1437-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia. 1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
		00210	1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh	121-1003	1 SQ Bead Type
		121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1515	0.3427 I.D., 2.563 Length, 0.6573 O.D.

209 C.I., (3.4L), F6209 12 Valve
L6 209 CID

F6209 46
BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N SB1437-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia. 1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem
		00196	1.328 Head Diameter, Drilled Stem
		00210	1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh	121-1003	1 SQ Bead Type
		121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1515	0.3427 I.D., 2.563 Length, 0.6573 O.D.

209 C.I., (3.4L), PF209 12 Valve
L6 209 CID

PF209 47
BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.203 Valve Head Dia.
		SB1375-3N SB1437-3	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth, LPG, W/ 1.203 Valve Head Dia. 1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.328 Valve Head Dia.
		SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00170	1.203 Head Diameter, Drilled Stem

CONTINENTAL / HEAVY DUTY (Cont'd)

47 209 C.I., (3.4L), PF209 12 Valve PF209
 (cont.) L6 209 CID BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Valve	Exh	00196	1.328 Head Diameter, Drilled Stem
		00210	1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh	121-1003	1 SQ Bead Type
		121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1515	0.3427 I.D., 2.563 Length, 0.6573 O.D.

48 223 C.I., (3.7L), E223 E223
 L4 223 CID BORE - 96.8mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-1	1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

49 223 C.I., (3.7L), E223 LPG E223LP
 L4 223 CID BORE - 96.8mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-1	1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

50 226 C.I., (3.7L), F226 12 Valve F226
 L6 226 CID BORE - 84.14mm/3.3125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00196	1.328 Head Diameter, Drilled Stem
		00210	1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh	121-1003	1 SQ Bead Type
	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.

51 226 C.I., (3.7L), PF226 12 Valve PF226
 L6 226 CID BORE - 84.14mm/3.3125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., 7/32 Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00196	1.328 Head Diameter, Drilled Stem
		00210	1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh	121-1003	1 SQ Bead Type

(Cont'd) **CONTINENTAL / HEAVY DUTY**

226 C.I., (3.7L), PF226 12 Valve **PF226 51**
L6 226 CID **BORE - 84.14mm/3.3125" (cont.)**

PART		PART NO.	NOTES
Keeper	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.

226 C.I., (3.7L), F6226 12 Valve **F6226 52**
L6 226 CID **BORE - 84.14mm/3.3125"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, LPG, W/ 1.328 Valve Head Dia.
Valve	Int	00810	1.516 Head Diameter, Drilled Stem
	Exh	00196	1.328 Head Diameter, Drilled Stem
		00210	1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh	121-1003	1 SQ Bead Type
	Both	121-1012	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.6275"; Pin Diameter 0.130"
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.

226 C.I., (3.7L), F227 12 Valve **F227 53**
L6 226 CID **BORE - 84.14mm/3.3125"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N	1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	01148	1.516 Head Diameter, All
	Exh	01147	1.203 Head Diameter, Except LPG
		01693S	1.203 Head Diameter, Stellite Face, LPG
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1620	0.3425 I.D., 2.313 Length, 0.6573 O.D.
Spring	Both	160-1401	2.063 Length

242 C.I., (4.0L), E242 LPG **E242LP 54**
L4 242 CID **BORE - 98.4mm/3.80"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-1	1 $\frac{11}{16}$ O.D., 1 $\frac{13}{32}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-3N	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth

242 C.I., (4.0L), E242 **E242 55**
L4 242 CID **BORE - 98.4mm/3.80"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-1	1 $\frac{11}{16}$ O.D., 1 $\frac{13}{32}$ I.D., $\frac{1}{4}$ Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

244 C.I., (4.0L), F245 **F245 56**
L6 244 CID **BORE - 87.3mm/3.40"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

CONTINENTAL / HEAVY DUTY (Cont'd)

56 244 C.I., (4.0L), F245 F245
(cont.) L6 244 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1348E-1N	1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	01148	1.516 Head Diameter, All
	Exh	01147	1.203 Head Diameter, Except LPG
		01693S	1.203 Head Diameter, Stellite Face, LPG
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-1962	0.3433 I.D., 2.375 Length, 0.6570 O.D.
Spring	Both	160-1401	2.063 Length

57 260 C.I., (4.3L), H260 H260
L4 260 CID BORE - 98.4mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-3	1 ⁵ / ₈ O.D., 1 ⁵ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material

58 260 C.I., (4.3L), HD260 Diesel HD260
L4 260 CID BORE - 98.4mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material
	Exh	SB1562-6N	1 ⁹ / ₁₆ O.D., 1 ¹ / ₄ I.D., 7/32 Depth

59 271 C.I., (4.4L), M271 12 Valve M271
L6 271 CID BORE - 92.075mm/3.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-3	2.000 O.D., 1 ⁵ / ₈ I.D., 19/64 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1687-7	1 ¹¹ / ₁₆ O.D., 1 ³ / ₈ I.D., 1/4 Depth, +5 O/S Available

60 277 C.I., (4.5L), HD277 HD277
L4 277 CID BORE - 101.5mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material
	Exh	SB1562-6N	1 ⁹ / ₁₆ O.D., 1 ¹ / ₄ I.D., 7/32 Depth

61 277 C.I., (4.5L), H277 H277
L4 277 CID BORE - 101.5mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-3	1 ⁵ / ₈ O.D., 1 ⁵ / ₁₆ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material

62 290 C.I., (4.7L), M290 12 Valve M290
L6 290 CID BORE - 95mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-3	2.000 O.D., 1 ⁵ / ₈ I.D., 19/64 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1687-7	1 ¹¹ / ₁₆ O.D., 1 ³ / ₈ I.D., 1/4 Depth, +5 O/S Available

63 330 C.I., (5.4L), M330 12 Valve M330
L6 330 CID BORE - 101.5mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-3	2.000 O.D., 1 ⁵ / ₈ I.D., 19/64 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1687-7	1 ¹¹ / ₁₆ O.D., 1 ³ / ₈ I.D., 1/4 Depth, +5 O/S Available

CUMMINS / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
201 C.I., (3.3L), QSB3.3, DIESEL, 8 VALVE, TURBO, DIRECT INJECTED	Industrial	1
239 C.I., (3.9L), 4B & 4BT Turbo Diesel		2
275 C.I., (4.5L), B4.5, 8 Valve, Turbo Diesel		3
275 C.I., (4.5L), QSB4.5, 16 Valve, Turbo Diesel		4
309 C.I., (5.1L), C90		5
309 C.I., (5.1L), C105		6
309 C.I., (5.1L), C140		7
438 C.I., (7.2L), HB-4		17
6 Cylinder		
352 C.I., (5.8L), V352 12 Valve		8
352 C.I., (5.8L), V6-140 12 Valve		9
359 C.I., (5.9L), 6B & 6BT 12 Valve Turbo Diesel		10
359 C.I., (5.9L), ISB Turbo Diesel 24 Valve		11
359 C.I., (5.9L), QSB Turbo Diesel 24 Valve	Industrial	12
378 C.I., (6.2L), V6-155 12 Valve		13
378 C.I., (6.2L), V378 12 Valve		14
401 C.I., (6.6L), J Series 12 Valve		15
408 C.I., (6.7L), ISB Turbo Diesel 24 Valve		16
464 C.I., (7.6L), C160 12 Valve		18
464 C.I., (7.6L), C175 12 Valve		19
464 C.I., (7.6L), C180 12 Valve		20
464 C.I., (7.6L), C190B 12 Valve		21
464 C.I., (7.6L), CS464 12 Valve		22
464 C.I., (7.6L), CT464 12 Valve		23
505 C.I., (8.3L), 6C Series 12 Valve		28
505 C.I., (8.3L), 6C Series Turbo-Diesel 12 Valve		29
505 C.I., (8.3L), ISC/QSC Series Turbo-Diesel 24 Valve		30
543 C.I., (8.9L), ISL/QSL9 Series, 24 Valve, TURBO, DIESEL		31
588 C.I., (9.6L), V588, VT588, V6-200		34
611 C.I., (10.0L), L-10 24 Valve		35
659 C.I., (11.0L), ISM, 24 Valve, TURBO, DIESEL		36
671 C.I., (11.0L), M11 24 Valve		37
672 C.I., (11.0L), NH180		38
672 C.I., (11.0L), NH195		39
672 C.I., (11.0L), HB-6 12 Valve		40
726 C.I., (11.9L), ISX11.9/12, SOHC, 24 Valve, TURBO, DIESEL		41
726 C.I., (11.9L), QSX11.9, OHV, 24V, TURBO, DIESEL		42
743 C.I., (12.2L), N743, NH743, 4 Valve Engine		43
743 C.I., (12.2L), NH Series		44
743 C.I., (12.2L), NR & NT Series		45
791 C.I., (12.97L), ISZ13, QSZ13, SOHC, 24V, TURBO, DIESEL		47

CUMMINS / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
6 Cylinder		
855 C.I., (14.0L), N-14		48
855 C.I., (14.0L), NH/NT Series		49
855 C.I., (14.0L), G/GTA 855, Natural Gas		50
912 C.I., (14.9L) ISX15, QSX15, SOHC, 24 Valve, TURBO, DIESEL		52
912 C.I., (14.9L), X15, SOHC, 24 Valve, TURBO, DIESEL		53
915 C.I., (15.0L), ISX, QSX, Signature 600, DOHC, 24 Valve, TURBO, DIESEL		54
1159 C.I., (19.0L), K Series, 24 Valve, Turbo Diesel		55
1159 C.I., (19.0L), KTA19G/GC, 24 Valve, Natural Gas		56
8 Cylinder		
470 C.I., (7.7L), V8-185		24
470 C.I., (7.7L), V470		25
504 C.I., (8.3L), V504		26
504 C.I., (8.3L), V8-210		27
555 C.I., (9.1L), V555, VT225, VT555		32
555 C.I., (9.1L), V8-225		33
785 C.I., (12.9L), V785, VT785, V8-265		46
903 C.I., (14.8L), V903, VT903, V903M, VT903, VT903M		51
12 Cylinder		
1486 C.I., (24.4L), NVH450, V1486, VT1486, VT600		57
1710 C.I., (28.0L), VT12/1710/V28 Series		58

1 201 C.I., (3.3L), QSB3.3, DIESEL, 8 VALVE, TURBO, DIRECT INJECTED QSB3.3-8V
L4 201 CID BORE - 95.0mm/3.74"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1775E-3	1.775 O.D., 1.450T I.D., 0.3330 Depth, OEM # C6207111341, 4982847
	Exh SB1538E-2	1.5385 O.D., 1.240T I.D., 0.2550 Depth, OEM # C6204111440, 4982908
Valve	Int 13383	1.728 Head Diameter, OEM # 4982907, C6207-41-4110
	Exh 13384	1.492 Head Diameter, OEM # C6204414210, 4982895
	13388S	1.492 Head Diameter, Stellite Face, OEM # C6209414210, 4982909
Keeper	Both 121-1134	1 SQ Bead Type, OEM # C6204414520, 4982898
Stem Seal	Both 122-1472	Positive Type, Viton Material, Metal Clad Style, OEM # C6204414541, 4982899
Guide	Both 140-3181	0.3150 I.D., 2.040 Length, 0.4740 O.D., OEM # C6204191310, 4982846
Spring	Both 160-1654	1.950 Length, OEM # C6204414410, 4982896

2 239 C.I., (3.9L), 4B & 4BT Turbo Diesel 4BT
L4 239 CID BORE - 102mm/4.00"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1853E-1	1.853 O.D., 1.498T I.D., 0.2730 Depth
	Exh SB1875-8	1 7/8 O.D., 1 1/2 T I.D., 7/32 Depth, Universal Size Seat For Head W/O OEM Seat
	SB1722E-1	1.722 O.D., 1.357T I.D., 0.2650 Depth
	SB1750-7	1 3/4 O.D., 1 1/8 I.D., 7/32 Depth, Universal Size Seat For Head W/O OEM Seat
Valve	Int 01665	1.772 Head Diameter, W/ 30 Degree Seat
	Exh 01664	1.654 Head Diameter, W/ 45 Degree Seat
	01801	1.654 Head Diameter, Inconel, W/ 45 Degree Seat, Marine Applications, OEM # 3925175

(Cont'd) **CUMMINS / HEAVY DUTY**

239 C.I., (3.9L), 4B & 4BT Turbo Diesel
L4 239 CID

4BT 2
BORE - 102mm/4.00" (cont.)

PART		PART NO.	NOTES
Valve	Exh	01862	1.654 Head Diameter,W/ 20 Degree Seat, Natural Gas, OEM # 3922714
Keeper	Both	121-1079	1 RD Bead Type
Stem Seal	Int	122-1269	Positive Type,Viton Material,Ring & Band Style,Orange Color Seal,OEM # 3921640; NOTE: Intake & Exhaust For Marine
	Exh	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal,OEM # 3901097; NOTE: Exept Marine
	Both	122-1365	Positive Type,Viton Material,Top Hat Style,OEM # 3957912
Guide	Int	140-8177	0.3162 I.D.,2.382 Length,0.5528 O.D.
		140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel
	Exh	140-8178 140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel
Both	140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D.,W/O Seal Boss, Universal Length	
Spring	Exh	160-1650	2.875 Length,Barrel Shaped,OEM # 3916691; Note: W/ Exhaust Brake, 60lbs Additional Seat Pressure.
	Both	160-1348	2.235 Length,OEM # 3900276
		160-1379	2.385 Length,OEM # 3926700, NOTE: Both Except , Intake ONLY For Marine Applications
		160-1459	2.194 Length,OEM # 3925667, NOTE: Both Natural Gas, Exhaust ONLY Marine Applications W/ Rotator
	160-1527	2.518 Length,OEM # 3932453; NOTE: Industrial & Non-Turbo Applications ONLY; Replaces Early Castings Equipped With OEM # 3926700; MUST Replace In Sets	
Lifter	Both	VL156	Mechanical Type,OEM # 3931623
Push Rod	Both	190-1530	10.910 Length

275 C.I., (4.5L), B4.5, 8 Valve, Turbo Diesel
L4 275 CID

B4.5 3
BORE - 104.00mm/4.0945"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D.,1.498T I.D.,0.2730 Depth,OEM # 3925177
	Exh	SB1722E-1	1.722 O.D.,1.357T I.D.,0.2650 Depth,OEM # 3925176
Valve	Int	01665	1.772 Head Diameter,OEM # 3802355
	Exh	01664	1.654 Head Diameter,OEM # 3802356
Keeper	Both	121-1079	1 RD Bead Type,OEM # 3900250
Stem Seal	Both	122-1269	Positive Type,Viton Material,Ring & Band Style,Orange Color Seal,OEM # 3921640
Guide	Int	140-8177	0.3162 I.D.,2.382 Length,0.5528 O.D.,OEM # 3904408
		140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel
	Exh	140-8178 140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D.,OEM # 3904409 0.3160 I.D.,2.052 Length,0.5528 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1527	2.518 Length,OEM # 3932453; NOTE: Replaces Early Castings Equipped With OEM # 3926700; MUST Replace In Sets
Lifter	Both	VL565	Mechanical Type,OEM # 3947759 , 4891226

275 C.I., (4.5L), QSB4.5, 16 Valve, Turbo Diesel
L4 275 CID

QSB4.5 4
BORE - 107.00mm/4.2125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375E-1	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, + .010 Oversize Available,OEM # 3943449

CUMMINS / HEAVY DUTY (Cont'd)

4 275 C.I., (4.5L), QSB4.5, 16 Valve, Turbo Diesel QSB4.5
 (cont.) L4 275 CID BORE - 107.00mm/4.2125"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1375E-2N	1.375 O.D., 1.100T I.D., 0.2270 Depth, OEM Replacement, +.005, +.010 & +.020 Oversizes Available, OEM # 3942299, 3943450
Valve	Int	02014	1.299 Head Diameter, OEM # 3802924, 3940735; W/ 30 Degree Seat
	Exh	13006	1.299 Head Diameter, 45 Degree Seat, OEM # 3979602, 4955212, W/ Letter N in Head
		13161	1.299 Head Diameter, Inconel, OEM # 3968183, 4089672; W/ Letter "O" In Head
Keeper	Both	121-1097	1 RD Bead Type, OEM # 3940123
Stem Seal	Int	122-1370	Positive Type, Viton Material, Top Hat Style, OEM # 3955393, Yellow
	Both	122-1371	Positive Type, Viton Material, Top Hat Style, OEM # 3955394, Green
		122-1477	Positive Type, Viton Material, Top Hat Style, OEM # 4991571, Black; NOTE: No Ring
Guide	Int	140-3033	0.2776 I.D., 1.937 Length, 0.5015 O.D.
		140-3080	0.2775 I.D., 1.937 Length, 0.4395 O.D., NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
	Exh	140-3034	0.2780 I.D., 2.020 Length, 0.5015 O.D.
		140-3081	0.2775 I.D., 2.020 Length, 0.4395 O.D., NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
Spring	Both	160-1484	1.890 Length, OEM# 3943161, 4936080
Lifter	Both	VL565	Mechanical Type, OEM # 3947759, 4891226
Push Rod	Both	190-1554	11.450 Length, OEM # 3941253

5 309 C.I., (5.1L), C90 C90
 L4 309 CID BORE - 112.7mm/4.40"

PART		PART NO.	NOTES
Guide	Both	140-1823	0.3429 I.D., 2.810 Length, 0.5633 O.D.

6 309 C.I., (5.1L), C105 C105
 L4 309 CID BORE - 112.7mm/4.40"

PART		PART NO.	NOTES
Guide	Both	140-1823	0.3429 I.D., 2.810 Length, 0.5633 O.D.

7 309 C.I., (5.1L), C140 C140
 L4 309 CID BORE - 112.7mm/4.40"

PART		PART NO.	NOTES
Guide	Both	140-1823	0.3429 I.D., 2.810 Length, 0.5633 O.D.

8 352 C.I., (5.8L), V352 12 Valve V352
 V6 352 CID BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D., 1 ⁷ / ₁₆ I.D., 0.1810 Depth, +10 O/S Available, OEM # 195000
	Exh	SB1691E-2	1.693 O.D., 1 ⁷ / ₁₆ I.D., 0.2000 Depth, +10 O/S Available, OEM # 154390
Valve	Both	01420S	1.605 Head Diameter, Stellite Face, OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007	1 SQ Bead Type, Use W/ Early Style Square Groove Valve
		121-1027	1 RD Bead Type, Use With 01420S
Guide	Both	140-8420	0.3812 I.D., 2.500 Length, 0.6268 O.D., W/ Drilled Relief Hole
Injector Tubes and Components		240-1008	Injector Tube, OEM # 169630
		240-1009R	O-Ring, Black, OEM # 196641, 3007759

(Cont'd) **CUMMINS / HEAVY DUTY**

352 C.I., (5.8L), V6-140 12 Valve
V6 352 CID

V6140 9
BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D., 1 ⁷ / ₁₆ I.D., 0.1810 Depth, +10 O/S Available, OEM # 195000
	Exh	SB1691E-2	1.693 O.D., 1 ⁷ / ₁₆ I.D., 0.2000 Depth, +10 O/S Available, OEM # 154390
Valve	Both	01420S	1.605 Head Diameter, Stellite Face, OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007	1 SQ Bead Type, Use W/ Early Style Square Groove Valve
		121-1027	1 RD Bead Type, Use With 01420S
Guide	Both	140-8420	0.3812 I.D., 2.500 Length, 0.6268 O.D., W/ Drilled Relief Hole
Injector Tubes and Components		240-1008	Injector Tube, OEM # 169630
		240-1009R	O-Ring, Black, OEM # 196641, 3007759

359 C.I., (5.9L), 6B & 6BT 12 Valve Turbo Diesel
L6 359 CID

6BT 10
BORE - 102mm/4.02"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D., 1.498T I.D., 0.2730 Depth, Also Fits High Output Marine Application
		SB1853E-2	1.853 O.D., 1.495T I.D., 0.2710 Depth, 20 Degree, Natural Gas, OEM # 3020211, 3922715
		SB1875-8	1 ⁷ / ₈ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, Universal Size Seat For Head W/O OEM Seat
	Exh	SB1722E-1	1.722 O.D., 1.357T I.D., 0.2650 Depth, Incl. High Output Marine Application
		SB1722E-3	1.722 O.D., 1.382T I.D., 0.2650 Depth, 20 Degree, Natural Gas, OEM # 3395612, 3922716
		SB1750-7 SB1750-8N	1 ³ / ₄ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, Universal Size Seat For Head W/O OEM Seat 1 ³ / ₄ O.D., 1 ³ / ₈ I.D., ¹ / ₄ Depth, Universal Size Seat For Head W/O OEM Seat; NOTE: Alternative Star Series Material, Seat May Need To Be Machined In Order To Achieve Correct Depth
Valve	Int	01665	1.772 Head Diameter, 5.084 Overall Length, W/ 30 Degree Seat, OEM # 3901117, 3920867
		02257	1.772 Head Diameter, 5.085 Overall Length, W/ 20 Degree Seat, Natural Gas, OEM # 3802658, 3922713
	Exh	01664	1.654 Head Diameter, 5.081 Overall Length, W/ 45 Degree Seat, OEM # 3901607, 3920868
		01801	1.654 Head Diameter, Inconel, 5.135 Overall Length, W/ 45 Degree Seat, Marine Applications, OEM # 3925175
		01862	1.654 Head Diameter, 5.081 Overall Length, W/ 20 Degree Seat, Natural Gas, OEM # 3922714
Keeper	Both	121-1079	1 RD Bead Type
Stem Seal	Int	122-1269	Positive Type, Viton Material, Ring & Band Style, Orange Color Seal, OEM # 3921640; NOTE: Intake & Exhaust Marine
	Exh	122-1053	Positive Type, Viton Material, Ring & Band Style, Black Color Seal, OEM # 3901097; NOTE: Except Marine
	Both	122-1365	Positive Type, Viton Material, Top Hat Style, OEM # 3957912
Guide	Int	140-8177	0.3162 I.D., 2.382 Length, 0.5528 O.D.
		140-8177SA	0.3162 I.D., 2.382 Length, 0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Exh	140-8178	0.3160 I.D., 2.052 Length, 0.5528 O.D.
		140-8178SA	0.3160 I.D., 2.052 Length, 0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
Both	140-8277	0.3162 I.D., 2.500 Length, 0.4393 O.D., W/O Seal Boss, Universal Length	
Spring	Exh	160-1650	2.875 Length, Barrel Shaped, OEM # 3916691; Note: W/ Exhaust Brake, 60lbs Additional Seat Pressure.
	Both	160-1348	2.235 Length, OEM # 3900276
		160-1379	2.385 Length, OEM # 3926700, NOTE: Both Except, Intake ONLY For Marine Applications

CUMMINS / HEAVY DUTY (Cont'd)

10 359 C.I., (5.9L), 6B & 6BT 12 Valve Turbo Diesel 6BT
 (cont.) L6 359 CID BORE - 102mm/4.02"

PART		PART NO.	NOTES
Spring	Both	160-1459	2.194 Length,OEM # 3925667, NOTE: Both Natural Gas; Exhaust ONLY Marine Applications W/ Rotator
		160-1527	2.518 Length,OEM # 3932453; NOTE: Industrial & Non-Turbo Applications ONLY; Replaces Early Castings Equipped With OEM # 3926700; MUST Replace In Sets
Rotator	Exh	161-1073	OEM # 3925666, 3957914, Natural Gas & Marine. Use W/ 160-1459
Lifter	Both	VL156	Mechanical Type
Push Rod	Both	190-1530	10.910 Length
Head Saver Shim		230-2174	New Hgt. - 3.747 - 3.749; Min. Hgt. - 3.700

11 359 C.I., (5.9L), ISB Turbo Diesel 24 Valve 6B5.9ISB
 L6 359 CID BORE - 102mm/4.02"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375E-1	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, + .010 Oversize Available,OEM # 3943449
	Exh	SB1375E-2N	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +.005, +.010 & +.020 Oversizes Available,OEM # 3942299, 3943450
Valve	Int	02014	1.299 Head Diameter,OEM # 3802924, 3940735; W/ 30 Degree Seat
	Exh	02015	1.299 Head Diameter,OEM # 3802967, 3940734; W/ 45 Degree Seat, NOTE: DO NOT USE IN H.O.
		13006	1.299 Head Diameter,OEM # 3979602, W/ Letter "N" in Head, W/ 45 Degree Seat
		13161	1.299 Head Diameter,Inconel,OEM # 3968183, 4089672; W/ Letter "O" In Head, W/ 45 Degree Seat
Keeper	Both	121-1097	1 RD Bead Type,OEM # 3940123
Stem Seal	Int	122-1335	Positive Type,Viton Material,Metal Clad Style,OEM # 3942989, Before Eng. S/N 46239409, Yellow
		122-1370	Positive Type,Viton Material,Top Hat Style,OEM # 3955393, After Eng. S/N 46239409, Yellow
	Exh	122-1334	Positive Type,Viton Material,Metal Clad Style,OEM # 3945438, Before Eng. S/N 46239409, Green
		122-1371	Positive Type,Viton Material,Top Hat Style,OEM # 3955394, After Eng. S/N 46239409, Green
	Both	122-1477	Positive Type,Viton Material,Top Hat Style,OEM # 4991571, Black; NOTE: No Ring
Guide	Int	140-3021	0.2776 I.D.,1.937 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use on Cylinder Head with Single Flange on guide, Seal Boss Length 0.360
		140-3033	0.2776 I.D.,1.937 Length,0.5015 O.D.,Use for cylinder head with Dual Flange on guide, Seal Boss Length 0.334
		140-3080	0.2775 I.D.,1.937 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
	Exh	140-3022	0.2776 I.D.,2.020 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use on Cylinder Head with Single Flange on guide, Seal Boss Length 0.360
		140-3034	0.2780 I.D.,2.020 Length,0.5015 O.D.,Use for cylinder head with Dual Flange on guide, Seal Boss Length 0.334
		140-3081	0.2775 I.D.,2.020 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
Spring	Both	160-1484	1.890 Length,OEM # 3943161, 4936380
Lifter	Both	VL554	Mechanical Type,OEM # 3942565; NOTE: Early W/ 1.300 Cam Face Diameter
		VL565	Mechanical Type,OEM # 3947759 , 4891226; NOTE: Late W/ 1.496 Cam Face Diameter

(Cont'd) **CUMMINS / HEAVY DUTY**

359 C.I., (5.9L), ISB Turbo Diesel 24 Valve

L6 359 CID

6B5.9ISB **11**

BORE - 102mm/4.02" (cont.)

PART		PART NO.	NOTES
Push Rod	Both	190-1554	11.450 Length,OEM # 3941253
Head Saver Shim		230-2175	New Hgt. - 4.136 - 4.137; Min Hgt. - 4.124

359 C.I., (5.9L), QSB Turbo Diesel 24 Valve

L6 359 CID

QSB5.9-24V **12**

BORE - 102mm/4.02"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375E-1	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, + .010 Oversize Available,OEM # 3943449
	Exh	SB1375E-2N	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +.005, +.010 & +.020 Oversizes Available,OEM # 3942299, 3943450
Valve	Int	02014	1.299 Head Diameter,OEM # 3802924, W/ 30 Degree Seat
	Exh	13006	1.299 Head Diameter,OEM # 3979602, W/ Letter N in Head, W/ 45 Degree Seat
		13161	1.299 Head Diameter,Inconel,OEM # 3968183, 4089672; W/ Letter "O" In Head, W/ 45 Degree Seat
Keeper	Both	121-1097	1 RD Bead Type,OEM # 3940123
Stem Seal	Int	122-1335	Positive Type,Viton Material,Metal Clad Style,OEM # 3942989, Yellow Positive Type,Viton Material,Top Hat Style,OEM # 3955393, Yellow Positive Type,Viton Material,Metal Clad Style,OEM # 3945438, Green Positive Type,Viton Material,Top Hat Style,OEM # 3955394, Green Positive Type,Viton Material,Top Hat Style,OEM # 4991571, Black; NOTE: No Ring
		122-1370	
	Exh	122-1334	
		122-1371	
	Both	122-1477	
Guide	Int	140-3021	0.2776 I.D.,1.937 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use on Cylinder Head with Single Flange on guide, Seal Boss Length 0.360
		140-3033	0.2776 I.D.,1.937 Length,0.5015 O.D.,Use for cylinder head with Dual Flange on guide, Seal Boss Length 0.334
		140-3080	0.2775 I.D.,1.937 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
	Exh	140-3022	0.2776 I.D.,2.020 Length,0.5015 O.D.,Replacement Guide for OEM Integral Guide, Use on Cylinder Head with Single Flange on guide, Seal Boss Length 0.360
		140-3034	0.2780 I.D.,2.020 Length,0.5015 O.D.,Use for cylinder head with Dual Flange on guide, Seal Boss Length 0.334
		140-3034	0.2780 I.D.,2.020 Length,0.5015 O.D.,W/ Seal Boss
		140-3081	0.2775 I.D.,2.020 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
Spring	Both	160-1484	1.890 Length,OEM # 3943161, 4936380
Lifter	Both	VL554	Mechanical Type,OEM # 3942565; NOTE: Early W/ 1.300 Cam Face Diameter
		VL565	Mechanical Type,OEM # 3947759 , 4891226; NOTE: Late W/ 1.496 Cam Face Diameter
Push Rod	Both	190-1554	11.450 Length,OEM # 3941253

378 C.I., (6.2L), V6-155 12 Valve

V6 378 CID

V6155 **13**

BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D.,17/16 I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000
	Exh	SB1691E-2	1.693 O.D.,17/16 I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both	01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007	1 SQ Bead Type,Use W/ Early Style Square Groove Valve
		121-1027	1 RD Bead Type,Use With 01420S

CUMMINS / HEAVY DUTY (Cont'd)

13 378 C.I., (6.2L), V6-155 12 Valve V6155
 (cont.) V6 378 CID BORE - 117.475mm/4.625"

PART	PART NO.	NOTES
Guide	Both 140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components	240-1008	Injector Tube,OEM # 169630
	240-1009R	O-Ring, Black,OEM # 196641, 3007759

14 378 C.I., (6.2L), V378 12 Valve V378
 V6 378 CID BORE - 117.475mm/4.625"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1691E-1 Exh SB1691E-2	1.691 O.D.,1 ⁷ / ₁₆ I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000 1.693 O.D.,1 ⁷ / ₁₆ I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both 01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both 121-1007 121-1027	1 SQ Bead Type,Use W/ Early Style Square Groove Valve 1 RD Bead Type,Use With 01420S
Guide	Both 140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components	240-1008	Injector Tube,OEM # 169630
	240-1009R	O-Ring, Black,OEM # 196641, 3007759

15 401 C.I., (6.6L), J Series 12 Valve J
 L6 401 CID BORE - 104.775mm/4.125"

PART	PART NO.	NOTES
Guide	Both 140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.

16 408 C.I., (6.7L), ISB Turbo Diesel 24 Valve ISB6.7-24V
 L6 408 CID BORE - 107mm/4.21"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1375E-1 Exh SB1375E-2N	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, + .010 Oversize Available,OEM # 3943449 1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, +.005, +.010 & +.020 Oversizes Available,OEM # 3942299, 3943450
Valve	Int 02014 Exh 13006 13161	1.299 Head Diameter,OEM # 3802924, 3940735; W/ 30 Degree Seat 1.299 Head Diameter,45 Degree Seat, OEM # 3979602, 4955212, W/ Letter N in Head 1.299 Head Diameter,Inconel,OEM # 3968183, 4089672; W/ Letter "O" In Head
Keeper	Both 121-1097	1 RD Bead Type,OEM # 3940123
Stem Seal	Int 122-1370 Exh 122-1371 Both 122-1477	Positive Type,Viton Material,Top Hat Style,OEM # 3955393, Yellow Positive Type,Viton Material,Top Hat Style,OEM # 3955394, Green Positive Type,Viton Material,Top Hat Style,OEM # 4991571, Black; NOTE: No Ring
Guide	Int 140-3033 140-3080 Exh 140-3034 140-3081	0.2776 I.D.,1.937 Length,0.5015 O.D. 0.2775 I.D.,1.937 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling. 0.2780 I.D.,2.020 Length,0.5015 O.D. 0.2775 I.D.,2.020 Length,0.4395 O.D.,NOTE: Optional O.D.; Guide W/O Seal Boss. Does Not Require Special Tooling.
Spring	Both 160-1484	1.890 Length,OEM# 3943161, 4936080
Lifter	Both VL565	Mechanical Type,OEM # 3947759, 4891226
Push Rod	Both 190-1554	11.450 Length,OEM # 3941253
Head Saver Shim	230-2176	New Hgt. - 4.140; Min. Hgt. - 4.124

(Cont'd) **CUMMINS / HEAVY DUTY**

438 C.I., (7.2L), HB-4			HB4 17
		L4 438 CID	BORE - 123.8mm/4.875"
PART	PART NO.		NOTES
Stem Seal	Both	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal
464 C.I., (7.6L), C160 12 Valve			C160 18
		L6 464 CID	BORE - 112.7mm/4.40"
PART	PART NO.		NOTES
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.
464 C.I., (7.6L), C175 12 Valve			C175 19
		L6 464 CID	BORE - 112.7mm/4.40"
PART	PART NO.		NOTES
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.
464 C.I., (7.6L), C180 12 Valve			C180 20
		L6 464 CID	BORE - 112.7mm/4.40"
PART	PART NO.		NOTES
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.
464 C.I., (7.6L), C190B 12 Valve			C190B 21
		L6 464 CID	BORE - 112.7mm/4.40"
PART	PART NO.		NOTES
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.
464 C.I., (7.6L), CS464 12 Valve			CS464 22
		L6 464 CID	BORE - 112.7mm/4.40"
PART	PART NO.		NOTES
Stem Seal	Both	122-1243	Positive Type,Viton Material,Top Hat Style,OEM # 3901178, 3915707, 3919038, 3927642
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.
464 C.I., (7.6L), CT464 12 Valve			CT464 23
		L6 464 CID	BORE - 112.7mm/4.40"
PART	PART NO.		NOTES
Guide	Both	140-1823	0.3429 I.D.,2.810 Length,0.5633 O.D.
470 C.I., (7.7L), V8-185			V8 185 24
		V8 470 CID	BORE - 117.475mm/4.625"
PART	PART NO.		NOTES
Valve Seat Insert	Int Exh	SB1691E-1 SB1691E-2	1.691 O.D.,17/16 I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000 1.693 O.D.,17/16 I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both	01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007 121-1027	1 SQ Bead Type,Use W/ Early Style Square Groove Valve 1 RD Bead Type,Use With 01420S
Guide	Both	140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components		240-1008 240-1009R	Injector Tube,OEM # 169630 O-Ring, Black,OEM # 196641, 3007759
470 C.I., (7.7L), V470			V470 25
		V8 470 CID	BORE - 117.475mm/4.625"
PART	PART NO.		NOTES
Valve Seat Insert	Int Exh	SB1691E-1 SB1691E-2	1.691 O.D.,17/16 I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000 1.693 O.D.,17/16 I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390

CUMMINS / HEAVY DUTY (Cont'd)

25 470 C.I., (7.7L), V470 V470
 (cont.) V8 470 CID BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve	Both	01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007 121-1027	1 SQ Bead Type,Use W/ Early Style Square Groove Valve 1 RD Bead Type,Use With 01420S
Guide	Both	140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components		240-1008	Injector Tube,OEM # 169630
		240-1009R	O-Ring, Black,OEM # 196641, 3007759

26 504 C.I., (8.3L), V504 V504
V8 504 CID BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D.,1 ⁷ / ₁₆ I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000
	Exh	SB1691E-2	1.693 O.D.,1 ⁷ / ₁₆ I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both	01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007 121-1027	1 SQ Bead Type,Use W/ Early Style Square Groove Valve 1 RD Bead Type,Use With 01420S
Guide	Both	140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components		240-1008	Injector Tube,OEM # 169630
		240-1009R	O-Ring, Black,OEM # 196641, 3007759

27 504 C.I., (8.3L), V8-210 V8210
V8 504 CID BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D.,1 ⁷ / ₁₆ I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000
	Exh	SB1691E-2	1.693 O.D.,1 ⁷ / ₁₆ I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both	01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007 121-1027	1 SQ Bead Type,Use W/ Early Style Square Groove Valve 1 RD Bead Type,Use With 01420S
Guide	Both	140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components		240-1008	Injector Tube,OEM # 169630
		240-1009R	O-Ring, Black,OEM # 196641, 3007759

28 505 C.I., (8.3L), 6C Series 12 Valve 6C
L6 505 CID BORE - 114.05mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2126E-2	2.126 O.D.,1.752T I.D.,0.3230 Depth,20 Degree, Natural Gas, OEM # 3927256
	Exh	SB2129E-2	2.129 O.D.,1.752T I.D.,0.3060 Depth,OEM # 3908830, 3924582
		SB1857E-1	1.857 O.D.,1.575T I.D.,0.2290 Depth,OEM # 3904716, 3924583, 3929005
		SB1857E-1T	1.857 O.D.,1.575T I.D.,0.2500 Depth,OEM # 3928174, 3970278; NOTE: Same As SB1857E-1 Except 0.020 Thicker
		SB1857E-2	1.857 O.D.,1.573T I.D.,0.2290 Depth,20 Degree, Natural Gas, OEM # 3927257, 3933088
Valve	Int	01667 02255	2.047 Head Diameter,OEM #'s 3902253 & 3802083 2.047 Head Diameter,5.952 Overall Length, W/ 20 Degree Seat, Natural Gas, OEM # 3802812, 3927254

(Cont'd) CUMMINS / HEAVY DUTY**505 C.I., (8.3L), 6C Series 12 Valve**
L6 505 CID**6C 28**
BORE - 114.05mm/4.40" (cont.)

PART		PART NO.	NOTES
Valve	Int	02255S	2.047 Head Diameter,Stellite Face,5.952 Overall Length, W/ 20 Degree Seat; NOTE: Optional Natural Gas
	Exh	01666	1.811 Head Diameter,OEM #'s 3902254 & 3802085
		02254	1.811 Head Diameter,5.942 Overall Length, W/ 20 Degree Seat, Natural Gas, OEM # 3802813, 3927255
		02254S	1.811 Head Diameter,Stellite Face,5.942 Overall Length, W/ 20 Degree Seat, NOTE: Optional Natural Gas
Keeper	Both	121-1073	1 RD Bead Type,OEM # 3901177
Stem Seal	Both	122-1243	Positive Type,Viton Material,Top Hat Style,OEM # 3901178, 3915707, 3919038, 3927642
		122-1391	Positive Type,Viton Material,Top Hat Style,OEM # 3930057, Natural Gas
Guide	Both	140-3068	0.3761 I.D.,2.835 Length,0.6297 O.D.,OEM # 3925863, Natural Gas
		140-8122	0.3761 I.D.,2.835 Length,0.6297 O.D.,OEM # 3923564
Spring	Exh	160-1669	3.070 Length,W/ Damper,OEM # 3916588; NOTE: With Pink Stripes, W/ 70 lbs Additional Seat Pressur
	Both	160-1592	2.608 Length,OEM # 3906412, 3991085, 5292625
		160-1629	2.445 Length,OEM # 3925272; NOTE: Natural Gas & Some Marine Applications, Use With 161-1075 Rotator
Rotator	Both	161-1075	OEM # 3925273; NOTE: Natural Gas & Some Marine Applications, Use With 160-1629 Valve Spring

505 C.I., (8.3L), 6C Series Turbo-Diesel 12 Valve
L6 505 CID**6CT 29**
BORE - 114.05mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2126E-2	2.126 O.D.,1.752T I.D.,0.3230 Depth,20 Degree, Natural Gas, OEM # 3927256
	Exh	SB2129E-2	2.129 O.D.,1.752T I.D.,0.3060 Depth,OEM # 3908830, 3924582
		SB1857E-1	1.857 O.D.,1.575T I.D.,0.2290 Depth,OEM # 3904716, 3924583, 3929005
		SB1857E-1T	1.857 O.D.,1.575T I.D.,0.2500 Depth,OEM # 3928174, 3970278; NOTE: Same As SB1857E-1 Except 0.020 Thicker
		SB1857E-2	1.857 O.D.,1.573T I.D.,0.2290 Depth,20 Degree, Natural Gas, OEM # 3927257, 3933088
Valve	Int	01667	2.047 Head Diameter,OEM # 3924492
		02255	2.047 Head Diameter,5.952 Overall Length, W/ 20 Degree Seat, Natural Gas, OEM # 3802812, 3927254
		02255S	2.047 Head Diameter,Stellite Face,5.952 Overall Length, W/ 20 Degree Seat; NOTE: Optional Natural Gas
	Exh	01666	1.811 Head Diameter,OEM # 3921444
		02254	1.811 Head Diameter,5.942 Overall Length, W/ 20 Degree Seat, Natural Gas, OEM # 3802813, 3927255
		02254S	1.811 Head Diameter,Stellite Face,5.942 Overall Length, W/ 20 Degree Seat, NOTE: Optional Natural Gas
Keeper	Both	121-1073	1 RD Bead Type,OEM # 3901177
Stem Seal	Both	122-1243	Positive Type,Viton Material,Top Hat Style,OEM # 3901178, 3915707, 3919038, 3927642
		122-1391	Positive Type,Viton Material,Top Hat Style,OEM # 3930057, Natural Gas
Guide	Both	140-3068	0.3761 I.D.,2.835 Length,0.6297 O.D.,OEM # 3925863, Natural Gas
		140-8122	0.3761 I.D.,2.835 Length,0.6297 O.D.,OEM # 3923564
Spring	Exh	160-1669	3.070 Length,W/ Damper,OEM # 3916588; NOTE: With Pink Stripes, W/ 70 lbs Additional Seat Pressur
	Both	160-1592	2.608 Length,OEM # 3906412, 3991085, 5292625
		160-1629	2.445 Length,OEM # 3925272; NOTE: Natural Gas & Some Marine Applications, Use With 161-1075 Rotator

CUMMINS / HEAVY DUTY (Cont'd)

29 505 C.I., (8.3L), 6C Series Turbo-Diesel 12 Valve 6CT
 (cont.) L6 505 CID BORE - 114.05mm/4.40"

PART		PART NO.	NOTES
Rotator	Both	161-1075	OEM # 3925273; NOTE: Natural Gas & Some Marine Applications, Use With 160-1629 Valve Spring
Lifter	Both	VL156	Mechanical Type,OEM # 3931623

30 505 C.I., (8.3L), ISC/QSC Series Turbo-Diesel 24 Valve ISC/QSC6-24V
 L6 505 CID BORE - 114mm/4.49"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1554E-1	1.554 O.D.,1.280T I.D.,0.2360 Depth,+10 & +20 O/S Available,OEM # 3940152, 3969704
	Exh	SB1554E-2	1.554 O.D.,1.301T I.D.,0.1900 Depth,+10 & +20 O/S Available,OEM # 3940153, 3968074
Valve	Int	02188 13162	1.496 Head Diameter,OEM # 3800340, 3942588 1.496 Head Diameter,Inconel,OEM # 3970727 & 4089761; Also Services OEM # 4981794 W/ Letter "C" In Head Of Valve
	Exh	02187 13163	1.496 Head Diameter,OEM # 3800341, 3942589 1.496 Head Diameter,Inconel,OEM # 3969637, 4089762; W/ Letter "O" In Head Of Valve; Also Service OEM # 4981795 W/ Letter "X" In Head Of Valve
Keeper	Both	121-1079	1 RD Bead Type,OEM # 3900250
Stem Seal	Both	122-1439	Positive Type,Viton Material,Top Hat Style,OEM # 3943888, 3948578, 3991267, 5253590
Guide	Both	140-8715	0.3163 I.D.,1.949 Length,0.5512 O.D.,OEM # 3942645, 3945249, 3948102, 4934063
Spring	Exh	160-1595	2.106 Length,OEM # 4931931, 4936079; NOTE: Used ONLY On QSC Models Equipped With Exhaust Rotators
	Both	160-1526	2.387 Length,OEM # 3944711, 4936076; NOTE: W/O Rotator
Lifter	Both	VL554	Mechanical Type,OEM # 3942565, Use W/ 10mm Pushrod Ball End
		VL572	Mechanical Type,OEM # 3945866

31 543 C.I., (8.9L), ISL/QLS9 Series, 24 Valve, TURBO, DIESEL ISL/QLS9-24V
 L6 540 CID BORE - 114mm/4.49"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1554E-1	1.554 O.D.,1.280T I.D.,0.2360 Depth,+10 & +20 O/S Available,OEM # 3940152, 3969704
	Exh	SB1554E-2	1.554 O.D.,1.301T I.D.,0.1900 Depth,+10 & +20 O/S Available,OEM # 3940153, 3968074
Valve	Int	13162	1.496 Head Diameter,Inconel,OEM # 3970727 & 4089761; Also Services OEM # 4981794 W/ Letter "C" In Head
	Exh	13163	1.496 Head Diameter,Inconel,OEM # 3969637, 4089762; W/ Letter "O" In Head; Also Service OEM # 4981795 W/ Letter "X" In Head
Keeper	Both	121-1079	1 RD Bead Type,OEM# 3900250
Stem Seal	Both	122-1439	Positive Type,Viton Material,Top Hat Style,OEM # 3943888, 3948578, 3991267, 5253590
Guide	Both	140-8715	0.3163 I.D.,1.949 Length,0.5512 O.D.,OEM # 3942645, 3945249, 3948102, 4934063
Spring	Both	160-1526	2.387 Length,OEM # 3944711, 4936076; NOTE: W/O Rotator
Lifter	Both	VL554	Mechanical Type,OEM # 3942565, Use W/ 10mm Pushrod Ball End
		VL572	Mechanical Type,OEM # 3945866

(Cont'd) **CUMMINS / HEAVY DUTY**

555 C.I., (9.1L), V555, VT225, VT555 **V555 32**
V8 555 CID **BORE - 117.475mm/4.625"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D.,1 ⁷ / ₁₆ I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000
	Exh	SB1691E-2	1.693 O.D.,1 ⁷ / ₁₆ I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both	01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007	1 SQ Bead Type,Use W/ Early Style Square Groove Valve
		121-1027	1 RD Bead Type,Use With 01420S
Guide	Both	140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components		240-1008	Injector Tube,OEM # 169630
		240-1009R	O-Ring, Black,OEM # 196641, 3007759

555 C.I., (9.1L), V8-225 **V8-225 33**
V8 555 CID **BORE - 117.475mm/4.625"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1691E-1	1.691 O.D.,1 ⁷ / ₁₆ I.D.,0.1810 Depth,+10 O/S Available,OEM # 195000
	Exh	SB1691E-2	1.693 O.D.,1 ⁷ / ₁₆ I.D.,0.2000 Depth,+10 O/S Available,OEM # 154390
Valve	Both	01420S	1.605 Head Diameter,Stellite Face,OEM # 3275355, Late Style W/ Round Groove, Use W/ 121-1027 Keeper
Keeper	Both	121-1007	1 SQ Bead Type,Use W/ Early Style Square Groove Valve
		121-1027	1 RD Bead Type,Use With 01420S
Guide	Both	140-8420	0.3812 I.D.,2.500 Length,0.6268 O.D.,W/ Drilled Relief Hole
Injector Tubes and Components		240-1008	Injector Tube,OEM # 169630
		240-1009R	O-Ring, Black,OEM # 196641, 3007759

588 C.I., (9.6L), V588, VT588, V6-200 **V588 -VT588-V6200 34**
V6 588 CID **BORE - 139.7mm/5.50"**

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2003E-1	2.003 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,OEM # 200354, 3017759; OEM Replacement
		SB2003E-1N	2.003 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic
		SB2006E-1	2.006 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,+5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # 3032285, +3 Additional Press Fit Over OEM Replacement
		SB2006E-1N	2.006 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,+5, +10, +20 & +30 O/S Available,OEM #127930A, 127930B, Turbo & High Heat Application
Valve	Int	00703	1.870 Head Diameter,OEM # 216707
	Exh	00702	1.870 Head Diameter,OEM # 138887
Keeper	Both	121-1006	2 RD Bead Type
Stem Seal	Both	122-1362	Positive Type,Viton Material,Ring & Spring Style,OEM # 156641
Guide	Both	140-1941	0.4525 I.D.,3.010 Length,0.7518 O.D.
		140-1941SA	0.4525 I.D.,3.010 Length,0.7518 O.D.,"Special Alloy" For Ultra Low Sulfur Diesel

611 C.I., (10.0L), L-10 24 Valve **L10 35**
L6 611 CID **BORE - 125mm/4.921"**

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1812E-4	1.812 O.D.,1.450 I.D.,0.1860 Depth,+5, +10, +20 & +30 O/S Available,Except Nat. Gas; OEM # 3028070 & 3820180, NOTE: I.D. Is .070 Smaller And Depth Is 0.010 Shorter Than OEM Service Parts In Order To Accommodate Late Style Valves W/ Radius Head

CUMMINS / HEAVY DUTY (Cont'd)

35 611 C.I., (10.0L), L-10 24 Valve **L10**
 (cont.) L6 611 CID **BORE - 125mm/4.921"**

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1812E-4T	1.812 O.D.,1.520 I.D.,0.2240 Depth,Except Nat. Gas; Special, 0.224 O/S Depth, OEM # 3418052, 3820700
Valve	Int	01532	1.673 Head Diameter,6.945 Overall Length, W/ Dual Spring, Also Single Spring For Industrial Applications, OEM # 3033234 & 3801356, W/ "+" Sign In Head, To 1991
		01663	1.673 Head Diameter,7.690 Overall Length, OEM # 3803310, 3068828, 3080975, 3417778, 3418020 & 3800638, From 1991, NOTE: Must Be Used With Seat I.D. 1.450
	Exh	01531	1.673 Head Diameter,6.940 Overall Length, W/ Dual Spring, Up To 250 HP, OEM # 3033235, 3818520 & 3801357, W/ Letter "N" In Head, To 1991
		01658S	1.673 Head Diameter,Stellite Face,6.940 Overall Length, 250 HP, OEM # 3883287 & 3803348, W/ Letter "J" In Head, 1988-1991
		01662S	1.673 Head Diameter,Stellite Face,7.695 Overall Length, W/ Single Spring, OEM # 3080976, 3417715, 3417779, 3800637. W/ Letter "S" In Head, From 1991, NOTE: Late Style W/ Dual Radius On Margin
		01662SNR	1.673 Head Diameter,Stellite Face,7.695 Overall Length, OEM # 3070159, 3065900, 3417714, 3418021, 3800639, 3803311, 3803730, 3895110, , NOTE: Early Style W/ Radius On Combustion Face And Square Edge On Seat Face Side
Both	01720S	1.673 Head Diameter,Stellite Face,6.945 Overall Length, Natural Gas, OEM # 3884005, W/ Letter "F" In Head, 30 Degree Seat	
Keeper	Both	121-1027	1 RD Bead Type,OEM # 3275354
Stem Seal	Both	122-1241	Positive Type,Viton Material,Metal Clad Style,OEM # 3073509, 3073510 & 3328781, Use W/ Short Guide 140-8210
		122-1374	Positive Type,Viton Material,Metal Clad Style,OEM # 3606766, 4003965, 4003966, Use W/ Long Guide 140-3008
Guide	Both	140-3008	0.3819 I.D.,3.374 Length,0.6506 O.D.,OEM # 3328786, 4923471, Machined For Seal, +2 O/S Available
		140-7625	0.3819 I.D.,2.934 Length,0.6504 O.D.,OEM # 3033314
		140-7625SA	0.3819 I.D.,2.934 Length,0.6504 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
		140-8210	0.3819 I.D.,2.633 Length,0.6504 O.D.,OEM # 3073512, 3328785, Machined For Seal, Guide Must Protrude 1.079 Above The Top Surface Of The Head, +2 O/S Available
		140-8210SA	0.3819 I.D.,2.633 Length,0.6504 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1303	3.100 Length,OEM # 3033233, Inner
		160-1304	3.300 Length,OEM # 3033232, Outer
		160-1414	4.067 Length,(91L10)
Injector Tubes and Components		240-1009	Injector Tube, Thin Nose,Copper, OEM # 3011934, 3070486; Early
		240-1009R	O-Ring, Black,OEM # 196641, 3007759; Early
		240-1010	Injector Tube, Heavy Nose,Copper, OEM # 3011935, 3071147; Early
		240-1011	Injector Tube,Late Style, Stainless, OEM # 3417717
		240-1011R	O-Ring, Black,Late Style, OEM # 3035026; NOTE: Use With 240-1011 Stainless Injector Tube

36 659 C.I., (11.0L), ISM, 24 Valve, TURBO, DIESEL **ISM**
L6 671 CID **BORE - 125mm/4.921"**

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1812E-9	1.8125 O.D.,1.4300 I.D.,0.1860 Depth,+5, +10 & +20 O/S Available,OEM # 3090703, 3090704
Valve	Int	01663	1.673 Head Diameter,7.690 Overall Length, OEM # 3417778

(Cont'd) CUMMINS / HEAVY DUTY**659 C.I., (11.0L), ISM, 24 Valve, TURBO, DIESEL**

L6 671 CID

ISM 36**BORE - 125mm/4.921" (cont.)**

PART		PART NO.	NOTES
Valve	Exh	01662S	1.673 Head Diameter,Stellite Face,7.695 Overall Length, W/ Single Spring, OEM # 3080976, 3417715, 3417779, 3800637. W/ Letter "S" In Head; NOTE: Late Style W/ Dual Radius On Margin
		01662SNR	1.673 Head Diameter,Stellite Face,7.695 Overall Length, OEM # 3070159, 3065900, 3417714, 3418021, 3800639, 3803311, 3803730, 3895110, , NOTE: Early Style W/ Radius On Combustion Face And Square Edge On Seat Face Side
Keeper	Both	121-1027	1 RD Bead Type,OEM # 3275354
Stem Seal	Both	122-1374	Positive Type,Viton Material,Metal Clad Style,OEM # 3606766, 4003965, 4003966,
Guide	Both	140-3008	0.3819 I.D.,3.374 Length,0.6506 O.D.,OEM # 3328786, 4923471, Machined For Seal, +2 O/S Available
Spring	Both	160-1414	4.067 Length,OEM # 3895860
Injector Tubes and Components	Both	240-1009	Injector Tube, Thin Nose,OEM # 3011934, 3070486; NOTE: When Using 240-1009 Copper Sleeve In Place Of Stainless Sleeve, 240-1011R O-Ring Must Used.
		240-1011	Injector Tube,OEM # 3417717
		240-1011R	O-Ring, Black,OEM # 3035026

671 C.I., (11.0L), M11 24 Valve

L6 671 CID

M11 37**BORE - 125mm/4.921"**

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1812E-4	1.812 O.D.,1.450 I.D.,0.1860 Depth,+5, +10, +20 & +30 O/S Available,Except Nat. Gas; OEM # 3028070 & 3820180, NOTE: I.D. Is .070 Smaller And Depth Is 0.010 Shorter Than OEM Service Parts In Order To Accommodate Late Style Valves W/ Radius Head
		SB1812E-4T	1.812 O.D.,1.520 I.D.,0.2240 Depth,Except Nat. Gas; Special, 0.224 O/S Depth, OEM # 3418052, 3820700
Valve	Int	01532	1.673 Head Diameter,6.945 Overall Length, W/ Dual Spring, Also Single Spring For Industrial Applications, OEM # 3033234 & 3801356, W/ "+" Sign In Head, To 1991
		01663	1.673 Head Diameter,7.690 Overall Length, OEM # 3803310, 3068828, 3080975, 3417778, 3418020 & 3800638
		01531	1.673 Head Diameter,6.940 Overall Length, W/ Dual Spring, Up To 250 HP, OEM # 3033235, 3818520 & 3801357, W/ Letter "N" In Head, To 1991
	Exh	01658S	1.673 Head Diameter,Stellite Face,6.940 Overall Length, 250 HP, OEM # 3883287 & 3803348, W/ Letter "J" In Head, 1988-1991
		01662S	1.673 Head Diameter,Stellite Face,7.695 Overall Length, W/ Single Spring, OEM # 3080976, 3417715, 3417779, 3800637; W/ Letter "S" In Head, From 1991, NOTE: Late Style W/ Dual Radius On Margin
		01662SNR	1.673 Head Diameter,Stellite Face,7.695 Overall Length, OEM # 3070159, 3065900, 3417714, 3418021, 3800639, 3803311, 3803730, 3895110, , NOTE: Early Style W/ Radius On Combustion Face And Square Edge On Seat Face Side
Both	01720S	1.673 Head Diameter,Stellite Face,6.945 Overall Length, Natural Gas, OEM # 3884005, W/ Letter "F" In Head, 30 Degree Seat	
Keeper	Both	121-1027	1 RD Bead Type,OEM # 3275354
Stem Seal	Both	122-1241	Positive Type,Viton Material,Metal Clad Style,OEM # 3073509, 3073510 & 3328781, Use W/ Short Guide 140-8210
		122-1374	Positive Type,Viton Material,Metal Clad Style,OEM # 3606766, 4003965, 4003966, Use W/ Long Guide 140-3008
Guide	Both	140-3008	0.3819 I.D.,3.374 Length,0.6506 O.D.,OEM # 3328786, 4923471, Long Guide, Machined For Seal, +2 O/S Available
		140-7625	0.3819 I.D.,2.934 Length,0.6504 O.D.,OEM # 3033314

CUMMINS / HEAVY DUTY (Cont'd)

37 671 C.I., (11.0L), M11 24 Valve M11
 (cont.) L6 671 CID BORE - 125mm/4.921"

PART	PART NO.	NOTES
Guide	Both 140-7625SA	0.3819 I.D.,2.934 Length,0.6504 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	140-8210	0.3819 I.D.,2.633 Length,0.6504 O.D.,OEM # 3703512, 3328785, Machined For Seal, +2 O/S Available
	140-8210SA	0.3819 I.D.,2.633 Length,0.6504 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both 160-1414	4.067 Length,(91L10)
Injector Tubes and Components	240-1009	Injector Tube, Thin Nose,Copper, OEM # 3011934, 3070486; Early; NOTE: When Using 240-1009 Copper Sleeve In Place Of Stainless Sleeve, 240-1011R O-Ring Must Used.
	240-1009R	O-Ring, Black,OEM # 196641, 3007759; Early
	240-1010	Injector Tube, Heavy Nose,Copper, OEM # 3011935, 3071147; Early
	240-1011	Injector Tube,Late Style, Stainless, OEM # 3417717; NOTE: When Using Stainless Sleeve 240-1011 In Place Of Copper Sleeve, 240-1009R O-Ring Must Be Used.
	240-1011R	O-Ring, Black,Late Style, OEM # 3035026; NOTE: Use With 240-1011 Stainless Injector Tube

38 672 C.I., (11.0L), NH180 NH180
 L6 672 CID BORE - 123.8mm/4.875"

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1847E-1	1.846 O.D.,1 ⁹ / ₁₆ I.D., ⁹ / ₃₂ Depth,OEM # 69965
Valve	Both 00326S	1.745 Head Diameter,Stellite Face,OEM #'s 70671 & 144911
Keeper	Both 121-1000	2 RD Bead Type
Stem Seal	Both 122-1014	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Both 140-1969	0.4050 I.D.,3.438 Length,0.7520 O.D.,Std. O.D.
Injector Tubes and Components	240-1009R	O-Ring, Black,OEM # 196641, 3007759

39 672 C.I., (11.0L), NH195 NH195
 L6 672 CID BORE - 123.8mm/4.875"

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1847E-1	1.846 O.D.,1 ⁹ / ₁₆ I.D., ⁹ / ₃₂ Depth,OEM # 69965
Valve	Both 00326S	1.745 Head Diameter,Stellite Face,OEM #'s 70671 & 144911
Keeper	Both 121-1000	2 RD Bead Type
Stem Seal	Both 122-1014	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Both 140-1969	0.4050 I.D.,3.438 Length,0.7520 O.D.,Std. O.D.
Injector Tubes and Components	240-1009R	O-Ring, Black,OEM # 196641, 3007759

40 672 C.I., (11.0L), HB-6 12 Valve HB6
 L6 672 CID BORE - 123.8mm/4.875"

PART	PART NO.	NOTES
Stem Seal	Both 122-1053	Positive Type,Viton Material, Ring & Band Style,Black Color Seal

41 726 C.I., (11.9L), ISX11.9/12, SOHC, 24 Valve, TURBO, DIESEL ISX11.9/12
 L6 726 CID BORE - 130.0mm/5.12"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1953E-4	1.953 O.D.,1.640T I.D.,0.1950 Depth,+5 & +10 O/S Available,OEM #'S 3104445, 3681071, 4059215
	Exh SB1874E-2	1.874 O.D.,1.555T I.D.,0.2375 Depth,OEM #'S 3679537, 3679659, 3683349
Valve	Int 02262	1.870 Head Diameter,OEM #'S 3680760, 4059216, 4059326, 4965868

(Cont'd) **CUMMINS / HEAVY DUTY**

726 C.I., (11.9L), ISX11.9/12, SOHC, 24 Valve, TURBO, DIESEL

ISX11.9/12 41

L6 726 CID

BORE - 130.0mm/5.12" (cont.)

PART		PART NO.	NOTES
Valve	Int	13308	1.870 Head Diameter, Inconel, OEM # 3685996; NOTE: W/ Letter " I " In Head
	Exh	02263S 13309S	1.790 Head Diameter, Stellite Face, OEM # S 3680759, 4059327, 4101454 1.790 Head Diameter, Inconel, Stellite Face, OEM # 3686661; NOTE: W/ Letter " O " In Head
Keeper	Both	121-1091	1 RD Bead Type, OEM # 3680883
Stem Seal	Both	122-1448	Positive Type, Viton Material, Metal Clad Style, OEM # S 3685997, 4312008, NOTE: Early Without Spring Seat
		122-1463	Positive Type, Viton Material, Top Hat Style, OEM # 4356366; NOTE: Late, Replaces Early Style Metal Clad and Spring Seat
Guide	Both	140-3061	0.3819 I.D., 4.105 Length, 0.6506 O.D., OEM # 4026657
Spring	Both	160-1479	3.886 Length, OEM # S 3679551, 368100, 4965891
Injector Tubes and Components		240-1030R	O-Ring, OEM # 3678536, 3687210
		240-1048	Injector Tube, OEM # 3685966
		240-1048RTR	Retaining Ring, OEM # 3686883

726 C.I., (11.9L), QSX11.9, OHV, 24V, TURBO, DIESEL

QSX11.9 42

L6 726 CID

BORE - 130.0mm/5.12"

PART		PART NO.	NOTES
Keeper	Both	121-1091	1 RD Bead Type, OEM # 3680883
Stem Seal	Both	122-1374	Positive Type, Viton Material, Metal Clad Style, OEM # 4003966
Guide	Both	140-3008	0.3819 I.D., 3.374 Length, 0.6506 O.D., OEM # 4923471

743 C.I., (12.2L), N743, NH743, 4 Valve Engine

N743-4V 43

L6 743 CID

BORE - 130.2mm/5.125"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1847E-1	1.846 O.D., 1/16 I.D., 3/32 Depth, OEM # 69965, Exc. Natural Gas
Valve	Both	00326S	1.745 Head Diameter, Stellite Face, OEM #'s 70671 & 144911
		01656S	1.745 Head Diameter, Stellite Face, Letter "S" In Head, Natural Gas 15 Deg. Seat OEM # 90210008
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1969	0.4050 I.D., 3.438 Length, 0.7520 O.D., Std. O.D.
Rocker Components		187-1051	Roll Pin, OEM # 118939
		187-1052	Bridge Guide, OEM # 123558
		187-1068	Injector Cam Roller, OEM # 3062096

743 C.I., (12.2L), NH Series

NH 44

L6 743 CID

BORE - 130.2mm/5.125"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1847E-1	1.846 O.D., 1/16 I.D., 3/32 Depth, OEM # 69965, Exc. Natural Gas
Valve	Both	00326S	1.745 Head Diameter, Stellite Face, OEM #'s 70671 & 144911
		01656S	1.745 Head Diameter, Stellite Face, Letter "S" In Head, 15 Deg. Natural Gas, OEM # 90210008
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1969	0.4050 I.D., 3.438 Length, 0.7520 O.D., Std. O.D.
Spring	Both	160-1306	3.150 Length, OEM # 111446
Rocker Components		187-1051	Roll Pin, OEM # 118939
		187-1068	Injector Cam Roller, OEM # 3062096

CUMMINS / HEAVY DUTY (Cont'd)

44 743 C.I., (12.2L), NH Series NH
 (cont.) L6 743 CID BORE - 130.2mm/5.125"

PART	PART NO.	NOTES
Injector Tubes and Components	240-1009R	O-Ring, Black,OEM # 196641, 3007759

45 743 C.I., (12.2L), NR & NT Series NRT_NT
 L6 743 CID BORE - 130.2mm/5.125"

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1847E-1	1.846 O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, OEM # 69965, Exc. Natural Gas
Valve	Both 00326S 01656S	1.745 Head Diameter, Stellite Face, OEM #'s 70671 & 144911 1.745 Head Diameter, Stellite Face, Letter "S" In Head, 15 Deg. Natural Gas, OEM # 90210008
Keeper	Both 121-1000	2 RD Bead Type
Guide	Both 140-1969	0.4050 I.D., 3.438 Length, 0.7520 O.D., Std. O.D.

46 785 C.I., (12.9L), V785, VT785, V8-265 V785_265
 V8 785 CID BORE - 139.7mm/5.50"

PART	PART NO.	NOTES
Valve Seat Insert	Both SB2003E-1 SB2003E-1N SB2006E-1 SB2006E-1N	2.003 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, OEM Replacement, OEM # 200354, 3017759 2.003 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic 2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material, OEM # 3032285, +3 Additional Press Fit Over OEM Replacement 2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 & +30 O/S Available, OEM # 127930A, 127930B, Turbo & High Heat Application
Valve	Int 00703 Exh 00702	1.870 Head Diameter, OEM # 216707 1.870 Head Diameter, OEM # 138887
Keeper	Both 121-1006	2 RD Bead Type
Stem Seal	Both 122-1362	Positive Type, Viton Material, Ring & Spring Style, OEM # 156641
Guide	Both 140-1941 140-1941SA	0.4525 I.D., 3.010 Length, 0.7518 O.D. 0.4525 I.D., 3.010 Length, 0.7518 O.D., "Special Alloy" For Ultra Low Sulfur Diesel

47 791 C.I., (12.97L), ISZ13, QSZ13, SOHC, 24V, TURBO, DIESEL ISZ13
 L6 791 CID BORE - 163.0mm/6.417"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1953E-4 Exh SB1874E-2	1.953 O.D., 1.640T I.D., 0.1950 Depth, +5 & +10 O/S Available, OEM #'S 3104445, 3681071, 4059215 1.874 O.D., 1.555T I.D., 0.2375 Depth, OEM #'S 3679537, 3679659, 3683349
Valve	Int 13308 Exh 13309S	1.870 Head Diameter, Inconel, OEM # 3685996; NOTE: W/ Letter " I " In Head 1.790 Head Diameter, Inconel, Stellite Face, OEM # 3686661; NOTE: W/ Letter " O " In Head
Keeper	Both 121-1091	1 RD Bead Type, OEM # 3680883
Stem Seal	Both 122-1448 122-1463	Positive Type, Viton Material, Metal Clad Style, OEM #'S 3685997, 4312008, NOTE: Early Without Spring Seat Positive Type, Viton Material, Top Hat Style, OEM # 4356366; NOTE: Late, Replaces Early Style Metal Clad and Spring Seat
Guide	Both 140-3061	0.3819 I.D., 4.105 Length, 0.6506 O.D., OEM # 4026657
Spring	Both 160-1479	3.886 Length, OEM #'S 3679551, 3681001, 4965891
Injector Tubes and Components	240-1030R	O-Ring, OEM # 3678536, 3687210

(Cont'd) **CUMMINS / HEAVY DUTY**

791 C.I., (12.97L), ISZ13, QSZ13, SOHC, 24V, TURBO, DIESEL

ISZ13 47

L6 791 CID

BORE - 163.0mm/6.417" (cont.)

PART	PART NO.	NOTES
Injector Tubes and Components	240-1048	Injector Tube,OEM # 3685966
	240-1048RTR	Retaining Ring,OEM # 3686883

855 C.I., (14.0L), N-14

N14 48

L6 855 CID

BORE - 139.7mm/5.50"

PART	PART NO.	NOTES
Valve Seat Insert	SB1953E-3	1.953 O.D.,1.640T I.D.,0.1950 Depth,+5 O/S Available,94N14 Select & Plus, OEM # 3084020
	SB2006E-5	2.006 O.D.,1.690 I.D.,0.2140 Depth,+10, +20 & +30 O/S Available,91N14, OEM # 3054590 & 3054600
	SB1953E-2C	1.953 O.D.,1.640T I.D.,0.2150 Depth,94N14 Select & Plus, OEM # 3076515 & 3084041, Can Be Used W/ 30 & 45 Degree Valves
	SB2006E-7C	2.006 O.D.,1.690 I.D.,0.2150 Depth,OEM # 3069692, 91N14
Valve	01660	1.870 Head Diameter,Letter "O" In Head,91N14 OEM # 3068519, 3803360; NOTE: 30 Degree Face, Use For Valve W/ Letter "O" In Head
	01756	1.870 Head Diameter,Letter "A" in Head,94N14 Plus & Select OEM # 3084045
	01659S	1.870 Head Diameter,Stellite Face,91N14 OEM #'s 3070473, 3078399, 3406657, 3803427, 3803770; NOTE: 30 Degree Face, Use For Valve W/ Letter "S" Or "J" In Head
	01661S	1.870 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face,94N14 Select, OEM # 3069672, 3803726; NOTE: 30 Degree Face, Use For Valve W/ Letter "X" In Head
	01847S	1.870 Head Diameter,Stellite Face,94N14 Plus OEM #'s 3083991, 3084980, 3166410, 3800891, 3804555; NOTE: 45 Degree Face, Use For Valves W/ Letter "Y", "F" "J", In Head
	21661S	1.870 Head Diameter,Alternative Austenitic Material, Stellite Face,94N14 Select, W/ 30 Degree Face
Keeper	Both 121-1076	1 RD Bead Type,OEM # 3072369
Stem Seal	Both 122-1239	Positive Type,Viton Material,Top Hat Style,OEM # 3064281
Guide	Both 140-8134	0.3819 I.D.,3.400 Length,0.7518 O.D.,+10 O/S Available
	Both 140-8134SA	0.3819 I.D.,3.400 Length,0.7518 O.D.,"Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both 160-1302	3.420 Length,OEM # 3070460
Injector Tubes and Components	Both 240-1009	Injector Tube, Thin Nose,OEM # 3011934, 3070486; NOTE: When Using 240-1009 Copper Sleeve In Place Of Stainless Sleeve, 240-1011R O-Ring Must Used.
	Both 240-1009R	O-Ring, Black,OEM # 196641, 3007759
	Both 240-1011	Injector Tube,OEM # 3417717; NOTE: When Using Stainless Sleeve 240-1011 In Place Of Copper Sleeve, 240-1009R O-Ring Must Be Used.
	Both 240-1011R	O-Ring, Black,OEM # 3035026

855 C.I., (14.0L), NH/NT Series

NH_NT_855 49

L6 855 CID

BORE - 139.7mm/5.50"

PART	PART NO.	NOTES
Valve Seat Insert	Both SB2003E-1	2.003 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,OEM Replacement, OEM # 200354, 3017759
	Both SB2003E-1N	2.003 O.D.,1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth,OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic
	Both SB2003E-6N	2.003 O.D.,1.625 I.D.,0.2795 Depth,+5 & +10 O/S Available,Optional, Nickel Base Alloy Version of Stellite SB2006E-6C. Can Be Used W/ 15 & 20 Degree Valves

CUMMINS / HEAVY DUTY (Cont'd)

49 855 C.I., (14.0L), NH/NT Series

NH_NT 855

(cont.) L6 855 CID

BORE - 139.7mm/5.50"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2006E-1	2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material, OEM # 3032285, +3 Additional Press Fit Over OEM Replacement
		SB2006E-1N	2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 & +30 O/S Available, OEM #127930A, 127930B, Turbo & High Heat Application
		SB2006E-5	2.006 O.D., 1.690 I.D., 0.2140 Depth, +10, +20 & +30 O/S Available, OEM # 3054590 & 3054600; 1988 Big Cam IV, 91N14
		SB2006E-6C	2.006 O.D., 1.630 I.D., 0.2800 Depth, OEM # 80610016 & 90210014, Stellite Material, Can Be Used W/ Natural Gas 15 & 20 Degree Valve
Valve	Int Both	00603	1.870 Head Diameter, Letter "O" in Head, Non Stellite Faced, OEM #135957
		00602	1.870 Head Diameter, Letter "N" In Head, Late Style OEM # 3040830
		00602S	1.870 Head Diameter, Stellite Face, W/ Letter "S" or "J" In Head, OEM # 145701
		01721S	1.875 Head Diameter, Stellite Face, NOTE: Aftermarket Version For Natural Gas, 20 Degree Seat.
		01721S-OEM	1.875 Head Diameter, Stellite Face, NOTE: OEM Recommended Version, Natural Gas, 20 Degree Seat, OEM # 3226068
Keeper	Both	121-1006	2 RD Bead Type, OEM # 127554
Stem Seal	Both	122-1362	Positive Type, Viton Material, Ring & Spring Style, OEM # 156641, Use W/ 140-6452 Guide
Guide	Both	140-6452	0.4528 I.D., 3.195 Length, 0.7520 O.D., Machined For Seal; W/ Oil Relief Hole In Guide Wall
		140-7264	0.4530 I.D., 3.400 Length, 0.7620 O.D., +.010 O.D.
		140-7990	0.4538 I.D., 3.393 Length, 0.7518 O.D., Natural Gas Eng.
		140-7994	0.4530 I.D., 3.400 Length, 0.7518 O.D., +2 O/S Available, Current OEM # 3006456 W/O Sharp Top Edge & Replaces Earlier OEM # 3050369 W/ Sharp Top Edge
		140-7994SA	0.4530 I.D., 3.400 Length, 0.7518 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1177	2.685 Length, Do Not Use W/ Old Spring Under The Same Cross Head. OEM # 211999
		160-1305	2.635 Length, OEM # 3035996 & 3081212 Big Cam IV Only
		160-1406	2.335 Length, OEM #'s 4062872, 4957806 & 90210012, Natural Gas Short Spring Used W/ Rotator
Rotator	Both	161-1072L	Lower Spring Rotator, Natural Gas, OEM #'s 219091, 4062870, 90210011
Rocker Components	Both	187-1051	Roll Pin, OEM # 118939, Big Cam I, II, III
		187-1062	Valve Roller Pin, OEM # 3013331, Big Cam I, II, III
		187-1066	Valve Cam Roller, OEM # 3036933, Big Cam I, II, III
		187-1052	Bridge Guide, OEM # 123558, Big Cam
		187-1061	Injector Roller Pin, OEM # 3013330, Big Cam I, II, III
		187-1067	Injector Cam Roller, OEM # 3036934, Big Cam I, II, III
		187-1068	Injector Cam Roller, OEM # 3062096, Small Cam
Injector Tubes and Components		240-1009	Injector Tube, Thin Nose, OEM # 3011934, 3070486; (250) NT 855
		240-1009R	O-Ring, Black, OEM # 196641, 3007759; (250) NT 855
		240-1010	Injector Tube, Heavy Nose, OEM # 3011935, 3071147; (250) NT855

50 855 C.I., (14.0L), G/GTA 855, Natural Gas

G/GTA 855

L6 855 CID

BORE - 139.7mm/5.50"

PART		PART NO.	NOTES
Valve	Exh	01721S-OEM	1.875 Head Diameter, Stellite Face, OEM # 3226068, 4063086, 80610017, 90210013; NOTE: For Continuous Heads, W/ 20 Degree Seat
Keeper	Both	121-1006	2 RD Bead Type, OEM # 127554
Stem Seal	Int	122-1437	Positive Type, Teflon Material, All Teflon Style, OEM # 3394111

(Cont'd) **CUMMINS / HEAVY DUTY**

855 C.I., (14.0L), G/GTA 855, Natural Gas
L6 855 CID

G/GTA 855 **50**
BORE - 139.7mm/5.50" (cont.)

PART		PART NO.	NOTES
Stem Seal	Exh	122-1471	Positive Type,Viton Material,Metal Clad Style,OEM # 4000643; NOTE: Use with 140-1941 W/.660 Seal Boss
Guide	Int	140-3158	0.4528 I.D.,3.167 Length,0.7518 O.D.,OEM # 3394115; NOTE: W/.627 Seal Boss
		140-3158SA	0.4528 I.D.,3.167 Length,0.7518 O.D.,"Special Alloy" NOTE: W/.627 Seal Boss
	Exh	140-1941	0.4525 I.D.,3.010 Length,0.7518 O.D.,OEM # 138937
		140-1941SA	0.4525 I.D.,3.010 Length,0.7518 O.D.,"Special Alloy"
Spring	Both	160-1406	2.335 Length,OEM #'s 4062872, 4957806 & 90210012
Rotator	Both	161-1072L	Lower Spring Rotator, OEM #'s 219091, 4062870, 90210011

903 C.I., (14.8L), V903,VT903, V903M, VT903, VT903M
V8 903 CID

V903 **51**
BORE - 139.7mm/5.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-14	2.000 O.D.,1 ⁵ / ₁₆ I.D., ⁵ / ₁₆ Depth,OEM # 212217. Note: 45 Degree Starter Seat Angle Must Be Cut To 30 Degree
	Both	SB2003E-1	2.003 O.D.,1 ¹¹ / ₁₆ I.D., ³ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,OEM # 200354, 3017759: OEM Replacement W/ Std O.D,
		SB2003E-1N	2.003 O.D.,1 ¹¹ / ₁₆ I.D., ³ / ₃₂ Depth,OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic
		SB2003E-3N	2.003 O.D.,1 ¹¹ / ₁₆ I.D.,0.2340 Depth,OEM # 212940, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic
		SB2006E-1	2.006 O.D.,1 ¹¹ / ₁₆ I.D., ³ / ₃₂ Depth,+5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # 3032285, +3 Additional Press Fit Over OEM Replacement
		SB2006E-1N	2.006 O.D.,1 ¹¹ / ₁₆ I.D., ³ / ₃₂ Depth,+5, +10, +20 & +30 O/S Available,OEM #127930A, 127930B, Turbo & High Heat Application, Non-magnetic
		SB2006E-3N	2.006 O.D.,1 ¹¹ / ₁₆ I.D.,0.2340 Depth
Valve	Int	00703	1.870 Head Diameter,OEM # 216707
	Exh	00702	1.870 Head Diameter,OEM # 138887
Keeper	Both	121-1006	2 RD Bead Type
Stem Seal	Both	122-1362	Positive Type,Viton Material, Ring & Spring Style,OEM # 156641
Guide	Both	140-1941	0.4525 I.D.,3.010 Length,0.7518 O.D.
		140-1941SA	0.4525 I.D.,3.010 Length,0.7518 O.D.,"Special Alloy" For Ultra Low Sulfur Diesel
Spring	Both	160-1423	2.090 Length,Inner
		160-1424	2.350 Length,Outer
Rocker Components		187-1052	Bridge Guide,OEM # 123558

912 C.I., (14.9L) ISX15, QSX15, SOHC, 24 Valve, TURBO, DIESEL
L6 912 CID

ISX15 **52**
BORE - 137mm/5.394"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1953E-4	1.953 O.D.,1.640T I.D.,0.1950 Depth,+5 & +10 O/S Available,OEM #'S 3104445, 3681071, 4059215
	Exh	SB1874E-2	1.874 O.D.,1.555T I.D.,0.2375 Depth,OEM #'S 3679537, 3679659, 3683349
Valve	Int	02262	1.870 Head Diameter,OEM #'S 3680760, 4059216, 4059326, 4965868
		13308	1.870 Head Diameter,Inconel,OEM # 3685996; NOTE: W/ Letter " I " In Head
	Exh	02263S	1.790 Head Diameter,Stellite Face,OEM #'S 3680759, 4059327, 4101454
		13309S	1.790 Head Diameter,Inconel, Stellite Face,OEM # 3686661; NOTE: W/ Letter " O " In Head
Keeper	Both	121-1091	1 RD Bead Type,OEM # 3680883

CUMMINS / HEAVY DUTY (Cont'd)

52 912 C.I., (14.9L) ISX15, QSX15, SOHC, 24 Valve, TURBO, DIESEL ISX15
 (cont.) L6 912 CID BORE - 137mm/5.394"

PART		PART NO.	NOTES
Stem Seal	Both	122-1448	Positive Type,Viton Material,Metal Clad Style,OEM #'S 3685997, 4312008, NOTE: Early Without Spring Seat
		122-1463	Positive Type,Viton Material,Top Hat Style,OEM # 4356366; NOTE: Late, Replaces Early Style Metal Clad and Spring Seat
Guide	Both	140-3061	0.3819 I.D.,4.105 Length,0.6506 O.D.,OEM # 4026657
Spring	Both	160-1479	3.886 Length,OEM #'S 3679551, 3681001, 4965891
Injector Tubes and Components		240-1030R	O-Ring,OEM # 3678536, 3687210
		240-1048	Injector Tube,OEM # 3685966
		240-1048RTR	Retaining Ring,OEM # 3686883

53 912 C.I., (14.9L), X15, SOHC, 24 Valve, TURBO, DIESEL X15
 L6 912 CID BORE - 137mm/5.394"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1953E-4	1.953 O.D.,1.640T I.D.,0.1950 Depth,+5 & +10 O/S Available,OEM #'S 3104445, 3681071, 4059215
	Exh	SB1874E-2	1.874 O.D.,1.555T I.D.,0.2375 Depth,OEM #'S 3679537, 3679659, 3683349
Valve	Int	13308	1.870 Head Diameter,Inconel,OEM # 3685996; NOTE: W/ Letter " I " In Head
	Exh	02263S	1.790 Head Diameter,Stellite Face,OEM #'S 3680759, 4059327, 4101454
		13309S	1.790 Head Diameter,Inconel, Stellite Face,OEM # 3686661; NOTE: W/ Letter " O " In Head
Keeper	Both	121-1091	1 RD Bead Type,OEM # 3680883
Stem Seal	Both	122-1463	Positive Type,Viton Material,Top Hat Style,OEM # 4356366
Guide	Both	140-3061	0.3819 I.D.,4.105 Length,0.6506 O.D.,OEM # 4026657
Spring	Both	160-1479	3.886 Length,OEM #'S 3679551, 3681001, 4965891
Injector Tubes and Components		240-1030R	O-Ring,OEM # 3678536, 3687210
		240-1048	Injector Tube,OEM # 3685966
		240-1048RTR	Retaining Ring,OEM # 3686883

54 915 C.I., (15.0L), ISX, QSX, Signature 600, DOHC, 24 Valve, TURBO, DIESEL ISX
 L6 915 CID BORE - 137mm/5.394"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1953E-4	1.953 O.D.,1.640T I.D.,0.1950 Depth,+5 & +10 O/S Available,OEM #'S 3104445, 3681071, 4059215
	Exh	SB1874E-2	1.874 O.D.,1.555T I.D.,0.2375 Depth,OEM #'S 3679537, 3679659, 3683349
Valve	Int	02262	1.870 Head Diameter,OEM #'S 3680760, 4059216, 4059326, 4965868
		13308	1.870 Head Diameter,Inconel,OEM # 3685996; NOTE: W/ Letter " I " In Head
	Exh	02263S	1.790 Head Diameter,Stellite Face,OEM #'S 3680759, 4059327, 4101454
Keeper	Both	121-1091	1 RD Bead Type,OEM # 3680883
Stem Seal	Both	122-1374	Positive Type,Viton Material,Metal Clad Style,OEM #'s 3606766, 4003965, 4003966, NOTE: Used ONLY On Early Guide W/O Groove In Chimney Up To ESN 14010274
		122-1448	Positive Type,Viton Material,Metal Clad Style,OEM # 3685997, 4026660, 4026791, 4312008; NOTE: Early Style Without Spring Seat, Use With Guide 140-3061 W/ Groove In Chimney
		122-1463	Positive Type,Viton Material,Top Hat Style,OEM # 4356366; NOTE: Late, Replaces Early Style Metal Clad and Spring Seat
Guide	Both	140-3061	0.3819 I.D.,4.105 Length,0.6506 O.D.,OEM # 4026657; NOTE: Replaces Early Guide W/O Seal Groove On Chimney

(Cont'd) **CUMMINS / HEAVY DUTY**

915 C.I., (15.0L), ISX, QSX, Signature 600, DOHC, 24 Valve, TURBO, DIESEL ISX **54**
L6 915 CID BORE - 137mm/5.394" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1479	3.886 Length,OEM #'S 3679551, 368100, 4965891
Injector Tubes and Components		240-1030	Injector Tube,OEM #'S 3412352, 3680873
		240-1030CU	Injector Tube,Alternative Copper Material
		240-1030R	O-Ring,OEM # 3678536, 3687210

1159 C.I., (19.0L), K Series, 24 Valve, Turbo Diesel K **55**
L6 1159 CID BORE - 158.75mm/6.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2381E-1	2.381 O.D.,1.930 I.D.,0.3225 Depth,+010 O/S Available,OEM # 3026296, Standard & Premium # 2 Engine
		SB2381E-1C	2.381 O.D.,1.930 I.D.,0.3225 Depth,OEM # 3052819, Premium # 1 Engs. Must Use W/ 01738S Tribaloy Valve
	Exh	SB2381E-2	2.381 O.D.,2.030 I.D.,0.3225 Depth,+10 O/S Available,Alternate, Standard Engine, OEM # 205093 (Similar Exc. Material)
		SB2381E-2C	2.381 O.D.,2.030 I.D.,0.3225 Depth,OEM # 205093, Premium # 1 & # 2 Engine
Valve	Int	01534	2.220 Head Diameter,Std & Premium # 2 Engs., OEM # 207241 & 3803515 NOTE: Do Not Use In Marine & Constant Speed Applications
		01738S	2.220 Head Diameter,Stellite Face,Premium #1 Engs., OEM # 3052820; 01738S Must Be Used W/ SB2381E-1C Tribaloy Valve Seat Insert
	Exh	01533S	2.220 Head Diameter,Stellite Face,Std. Engs., OEM # 3024395 & 3035110 NOTE: Do Not Use In Marine & Constant Speed Applications
		01734	2.220 Head Diameter,Inconel,Premium # 1 & # 2 Engine, OEM # 3034827
Keeper	Both	121-1069	1 SQ Bead Type,OEM # 205091
Guide	Both	140-7373	0.4977 I.D.,3.580 Length,0.8459 O.D.,OEM # 3018818; Special Applications
		140-7610	0.4977 I.D.,3.585 Length,0.8458 O.D.,OEM # 3021693, 3201311, 3202210; W/ Sharp Edge
		140-8496	0.4164 I.D.,4.000 Length,0.8459 O.D.,Diesel Only, QSK-19 Engine
Spring	Both	160-1176	3.349 Length,Long Spring, W/O Rotator, OEM # 205208 Or 3629006, For Std. Eng. Only
		160-1641	2.795 Length,W/ White Stripe,Short Spring, W/ Rotator, OEM # 3065934, 3629007, 3630628, 3633840, 3643725; NOTE: With White Stripe
Rotator	Both	161-1045L	Lower Spring Rotator, OEM # 3065936, 3081081, 3640315

1159 C.I., (19.0L), KTA19G/GC, 24 Valve, Natural Gas KTA19G **56**
L6 1159 CID BORE - 158.75mm/6.25"

PART		PART NO.	NOTES
Valve	Int	01738S	2.220 Head Diameter,Stellite Face,OEM # 3052820, 3803518
Keeper	Both	121-1069	1 SQ Bead Type,OEM # 205091
Spring	Both	160-1641	2.795 Length,W/ White Stripe,OEM # 3065934, 3629007, 3630628, 3633840, 3643725
Rotator	Both	161-1045L	OEM # 3081081

1486 C.I., (24.4L), NVH450, V1486, VT1486, VT600 V12_5.125 **57**
V12 1486 CID BORE - 130.2mm/5.125"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1847E-1	1.846 O.D.,1 ⁹ / ₁₆ I.D., ⁹ / ₃₂ Depth,OEM # 69965
Valve	Both	00326S	1.745 Head Diameter,Stellite Face,OEM #'s 70671 & 144911
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Both	140-1969	0.4050 I.D.,3.438 Length,0.7520 O.D.,Std. O.D.

CUMMINS / HEAVY DUTY (Cont'd)

58 1710 C.I., (28.0L), VT12/1710/V28 Series
V12 1710 CID

VT12_1710_V28
BORE - 139.7mm/5.50"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2003E-1	2.003 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, OEM Replacement, OEM # 3017759
		SB2003E-1N	2.003 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic
		SB2006E-1	2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material, OEM # 3032285, +3 Additional Press Fit Over OEM Replacement
		SB2006E-1N	2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 & +30 O/S Available, OEM # 127930, Turbo & High Heat Application
Valve	Both	00602S	1.870 Head Diameter, Stellite Face, W/ Letter "S" or "J" In Head, OEM # 145701
Keeper	Both	121-1006	2 RD Bead Type
Stem Seal	Both	122-1362	Positive Type, Viton Material, Ring & Spring Style, OEM # 156641, Use W/ 140-6452 Guide
Guide	Both	140-6452	0.4528 I.D., 3.195 Length, 0.7520 O.D., Machined For Seal; W/ Oil Relief Hole In Guide Wall
		140-7264	0.4530 I.D., 3.400 Length, 0.7620 O.D., +.010 O.D.
		140-7994	0.4530 I.D., 3.400 Length, 0.7518 O.D., +2 O/S Available, Current OEM # 3006456 W/O Sharp Top Edge & Replaces Earlier OEM # 3050369 W/ Sharp Top Edge
		140-7994SA	0.4530 I.D., 3.400 Length, 0.7518 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1177	2.685 Length, Do Not Use W/ Old Spring Under The Same Cross Head. OEM # 211999
Rocker Components		187-1052	Bridge Guide, OEM # 123558
Injector Tubes and Components		240-1009	Injector Tube, Thin Nose, OEM # 3011934, 3070486, 3406702
		240-1009R	O-Ring, Black, OEM # 196641, 3007759
		240-1010	Injector Tube, Heavy Nose, OEM # 3011935, 3071147

DAEWOO / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6 (1999-02) ..	Lanos	1
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Z, "X20SE Isuzu" (1999-02)	Nubira	2
2200cc, (2.2L), DOHC, GAS, FI, 16 Valve, Vin 2, " X22SE Isuzu" (1999-02)	Leganza	3

1 1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6 DAE1.6DC
1999-02 L4 98 CID BORE - 79mm/3.11"

PART		YEARS	PART NO.	NOTES
Valve	Int	1999-02	02249	1.193 Head Diameter
	Exh	1999-02	02250S	1.021 Head Diameter, Stellite Face
Keeper	Both	1999-02	121-1107	1 RD Bead Type
Stem Seal	Both	1999-02	122-1409	Positive Type, Viton Material, Top Hat Style
Guide	Both	1999-02	140-3046	0.2365 I.D., 1.575 Length, 0.4355 O.D.
Spring	Both	1999-02	160-1487	1.610 Length
Lifter	Both	1999-02	VL567	Hydraulic Bucket Type

(Cont'd) **DAEWOO / PASSENGER CAR**

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Z, "X20SE Isuzu" **DAE2.0DC 2**
1999-02 L4 122 CID **BORE - 86mm/3.39"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1999-02	SB1375E-1 1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, + .010 Oversize Available,Note: Seat May Need To Be Machined To Achieve Correct Depth, Must Use Adjustable Cutter
	Exh	1999-02		SB1187-52 1^{3}/_{16} O.D.,0.934T I.D.,0.2570 Depth,Note: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1999-02	1.260 Head Diameter
	Exh	1999-02	10784 02040S 1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		1999-02	22040S 1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	1999-02	121-1098 3 RD Bead Type
Stem Seal	Both	1999-02	122-1329 Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-02	140-3010 140-3011 0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	1999-02		0.2362 I.D.,1.378 Length,0.3950 O.D.
Spring	Both	1999-02	160-1578 1.666 Length
Lifter	Both	1999-02	VL571 Hydraulic Bucket Type
Head Bolt Set		1999-02	220-1124 Torque To Yield,Services Engine

2200cc, (2.2L), DOHC, GAS, FI, 16 Valve, Vin 2, "X22SE Isuzu" **DAE2.2DC 3**
1999-02 L4 134 CID **BORE - 86mm/3.39"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1999-02	SB1375E-1 1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, + .010 Oversize Available,Note: Seat May Need To Be Machined To Achieve Correct Depth, Must Use Adjustable Cutter
	Exh	1999-02		SB1187-52 1^{3}/_{16} O.D.,0.934T I.D.,0.2570 Depth,Note: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1999-02	1.260 Head Diameter
	Exh	1999-02	10784 02040S 1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		1999-02	22040S 1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	1999-02	121-1098 3 RD Bead Type
Stem Seal	Both	1999-02	122-1329 Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-02	140-3010 140-3011 0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	1999-02		0.2362 I.D.,1.378 Length,0.3950 O.D.
Spring	Both	1999-02	160-1578 1.666 Length
Lifter	Both	1999-02	VL571 Hydraulic Bucket Type
Head Bolt Set		1999-02	220-1124 Torque To Yield,Services Engine

DETROIT DIESEL / HEAVY DUTY

Engine	Models	Line No.
106 C.I., (1.7L), 53 Series 2 Valve Head 2, 3, 4, 6, & 8 Cylinder		1
142 C.I., (2.3L), 71 Series 2 Valve Head 2, 3, 4, 6, 8, 12 & 16 Cylinder		2
212 C.I., (3.5L), 53 Series 4 Valve Head 2, 3, 4, 6 & 8 Cylinder		3

DETROIT DIESEL / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
284 C.I., (4.7L), 71 Series 4 Valve Head 2, 3, 4, 6, 8, 12, & 16 Cylinder		6
1104 C.I., (18.1L), 92 Series 4 Valve Head 6, 8, 12 & 16 Cylinder		18
4 Cylinder		
220 C.I., (3.6L), Bedford Turbo Diesel		4
259 C.I., (4.3L), MBE904, OHV, 12 Valve, Direct Injection, Turbo Diesel		5
292 C.I., (4.8L), MBE924, OHV, 12 Valve, Direct Injection, Turbo Diesel		7
519 C.I., (8.5L), 50 Series Diesel		11
6 Cylinder		
389 C.I., (6.4L), MBE906, OHV, 18 Valve, Direct Injection, Turbo Diesel		8
439 C.I., (7.2L), MBE926, OHV, 18 Valve, Direct Injection, Turbo Diesel		9
677 C.I., (11.1L), 60 Series Diesel		12
775 C.I., (12.7L), 60 Series Diesel		13
781 C.I., (12.8L), DD13, SOHC, 24 Valve, Direct Injected, Turbo Diesel		14
858 C.I., (14.0L), 60 Series Diesel		15
906 C.I., (14.8L), DD15, SOHC, 24 Valve, Direct Injected, Turbo Diesel		16
952 C.I., (15.6L), DD16, SOHC, 24 Valve, Direct Injected, Turbo Diesel		17
8 Cylinder		
501 C.I., (8.2L), 8.2L Naturally Aspirated & Turbo		10
16 Cylinder		
2384 C.I., (39.1L), 16V-149 Series		19

1 106 C.I., (1.7L), 53 Series 2 Valve Head 2, 3, 4, 6, & 8 Cylinder 53_2V
L 106 CID BORE - 98.425mm/3.875"

PART	PART NO.	NOTES
Valve Seat Insert	Exh SB1441E-1	1.441 O.D., 1-13/64T I.D., 0.2150 Depth, OEM # 5116196
Valve	Exh 00758	1.400 Head Diameter, OEM # 5195948
Keeper	Exh 121-1011	1 SQ Bead Type, OEM # 5111337
Stem Seal	Exh 122-1189 122-1223	Positive Type, Teflon Material, All Teflon Style Positive Type, Teflon Material, Metal Clad Style, OEM Style, # 8921209
Guide	Exh 140-1832 140-6254	0.3130 I.D., 2.500 Length, 0.5000 O.D., +2 O/S Available 0.2510 I.D., 2.360 Length, 0.4998 O.D., Cut For Seal, OEM # 5131961, +2, +3, +5, & +10 O/S Available
Injector Tubes and Components	240-1012 240-1013 240-1013R 240-1016	Injector Tube, Thin Nose, OEM # 8925606, 5199527 Injector Tube, Thick Nose, OEM # 5150041, 8925981 O-Ring, Black, OEM # 5160037, 5104701 Water Director, OEM # 5119293

(Cont'd) DETROIT DIESEL / HEAVY DUTY

142 C.I., (2.3L), 71 Series 2 Valve Head 2, 3, 4, 6, 8, 12 & 16 Cylinder **71_2V 2**
 L 142 CID **BORE- 104.78mm/4.125"**

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1628E-2	1.628 O.D.,1 ¹¹ / ₃₂ T I.D.,1/4 Depth,+10, +20, & +30 O/S Available,OEM # 5131096 & 8927920
		SB1628E-2+010	1.638 O.D.,1 ¹¹ / ₃₂ T I.D.,1/4 Depth,OEM # 5198230
		SB1628E-2+020	1.648 O.D.,1 ¹¹ / ₃₂ T I.D.,1/4 Depth,OEM # 5198232
		SB1628E-2+030	1.658 O.D.,1 ¹¹ / ₃₂ T I.D.,1/4 Depth,OEM # 5198233
Valve	Exh	00327	1.584 Head Diameter,OEM # 5193197, Except H.O.
		00411	1.584 Head Diameter,Inconel,OEM # 5193666, H.O.
Keeper	Exh	121-1003	1 SQ Bead Type,OEM # 23507238
Stem Seal	Exh	122-1014	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D.
		122-1221	Positive Type,Teflon Material,Metal Clad Style,OEM # 23500480
Guide	Exh	140-1680	0.3450 I.D.,3.250 Length,0.5639 O.D.,OEM # 5120930, +2 & +5 O/S Available
Spring	Exh	160-1188	2.375 Length,OEM # 5150289
Rocker Components		187-1080	Cam Follower Roller Set; 0.550 Roller Width,OEM # 8923814
Injector Tubes and Components		240-1012	Injector Tube, Thin Nose,OEM # 8925606, 5199527
		240-1013	Injector Tube, Thick Nose,OEM # 5150041, 8925981
		240-1013R	O-Ring, Black,OEM # 5160037, 5104701

212 C.I., (3.5L), 53 Series 4 Valve Head 2, 3, 4, 6 & 8 Cylinder **53_4V 3**
 L 212 CID **BORE - 98.425mm/3.875"**

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1161E-1	1.161 O.D.,0.910T I.D.,0.2220 Depth,+5, +10, +20, +30 & +62 O/S Available,OEM #'s 5116361 & 8921501
		SB1161E-1+010	1.171 O.D.,0.910T I.D.,0.2220 Depth,OEM # 5196752
Valve	Exh	00759	1.090 Head Diameter,OEM # 5199323, Except Turbo
		01018	1.090 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 5197176, Turbo & Marine
		21018	1.090 Head Diameter,Alternative Austenitic Material,Turbo
Keeper	Exh	121-1017	1 SQ Bead Type,OEM # 5116341
Stem Seal	Exh	122-1192	Positive Type,Teflon Material,All Teflon Style
		122-1224	Positive Type,Teflon Material,Metal Clad Style,OEM Style, # 8921741
Guide	Exh	140-6254	0.2510 I.D.,2.360 Length,0.4998 O.D.,Cut For Seal,OEM # 5131961, +2, +3, +5, & +10 O/S Available
Spring	Exh	160-1185	2.090 Length,OEM # 5144019; NOTE: Hi-Lift
		160-1187	2.060 Length,OEM # 5147424; NOTE: Lo-Lift
Rocker Components		187-1079	Valve Roller & Pin Set; 0.343 Roller Width,OEM # 8923813
		187-1080	Cam Follower Roller Set; 0.550 Roller Width,OEM # 8923814
		187-1081	Cam Follower Assy.,OEM # 8924439
Injector Tubes and Components		240-1012	Injector Tube, Thin Nose,OEM # 8925606, 5199527
		240-1013	Injector Tube, Thick Nose,OEM # 5150041, 8925981
		240-1013R	O-Ring, Black,OEM # 5160037, 5104701
		240-1016	Water Director,OEM # 5119293

220 C.I., (3.6L), Bedford Turbo Diesel **220B 4**
 L4 220 CID **BORE - 103.2mm/4.06"**

PART		PART NO.	NOTES
Guide	Int	140-7563	0.3435 I.D.,2.835 Length,0.6270 O.D.
	Exh	140-7564	0.3435 I.D.,2.563 Length,0.6268 O.D.

DETROIT DIESEL / HEAVY DUTY (Cont'd)

5 259 C.I., (4.3L), MBE904, OHV, 12 Valve, Direct Injection, Turbo Diesel **MBE904**
L4 259 CID **BORE - 102.0mm/4.02"**

PART		PART NO.	NOTES
Valve	Int	13360	1.339 Head Diameter,OEM # DDEA9060500326
	Exh	13361	1.496 Head Diameter,OEM # DDEA9060500327
Keeper	Both	121-1132	1 RD Bead Type,OEM # DDEA1020530026
Stem Seal	Both	122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # DDEA9060530358
Guide	Both	140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # DDEA9060530130
Spring	Int	160-1643	1.961 Length,OEM # DDEA9060530120
	Exh	160-1644	2.466 Length,OEM # DDEA9060530020
Injector Tubes and Components		240-1047	Injector Tube,OEM # DDEA9060170488
		240-1047R	O-Ring, Silver,OEM # DDEA5419970345

6 284 C.I., (4.7L), 71 Series 4 Valve Head 2, 3, 4, 6, 8, 12, & 16 Cylinder **71_4V**
L 284 CID **BORE - 104.78mm/4.125"**

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1262E-1	1.262 O.D.,0.975T I.D.,1/4 Depth,+5, +10, +20, +30, +40 & +62 O/S Available,OEM # 5101101, Non-Magnetic
		SB1262E-1+010	1.272 O.D.,0.975T I.D.,1/4 Depth,OEM # 5197167
		SB1262E-1+020	1.282 O.D.,0.975T I.D.,1/4 Depth,OEM # 5197168
		SB1262E-1+030	1.292 O.D.,0.975T I.D.,1/4 Depth,OEM # 5197170
Valve	Exh	01429S	1.180 Head Diameter,Inconel, Stellite Face,OEM # 5149386, Turbo-Intercooled Marine & Off Highway, With "J6" In Head
		01500	1.180 Head Diameter,Recommended OEM Nickel Base Inconel Material,Naturally Aspirated & Turbo, With Letter " U " In Head, OEM # 5195167
		21500	1.180 Head Diameter,Alternative Austenitic Material,Naturally Aspirated & Turbo
Keeper	Exh	121-1011	1 SQ Bead Type,OEM # 5111337
Stem Seal	Exh	122-1189	Positive Type,Teflon Material,All Teflon Style
		122-1223	Positive Type,Teflon Material,Metal Clad Style,OEM Style, # 8921209
Guide	Exh	140-1832	0.3130 I.D.,2.500 Length,0.5000 O.D.,+2 O/S Available
		140-1946	0.3130 I.D.,2.380 Length,0.4998 O.D.,OEM # 5129919, W/ Step For Stem Seal; +2, +3, +5 & +10 O/S Available
Spring	Exh	160-1186	1.970 Length,OEM # 5117561, 5147347, 8927794
Rocker Components		187-1079	Valve Roller & Pin Set; 0.343 Roller Width,OEM # 8923813
		187-1081	Cam Follower Assy.,OEM # 8924439
		187-1080	Cam Follower Roller Set; 0.550 Roller Width,OEM # 8923814; NOTE: Replacement Pin & Roller For 187-1081 (8924439)
Injector Tubes and Components		240-1012	Injector Tube, Thin Nose,OEM # 8925606, 5199527
		240-1013	Injector Tube, Thick Nose,OEM # 5150041, 8925981
		240-1013R	O-Ring, Black,OEM # 5160037, 5104701
		240-1015	Water Director,OEM # 5111332

7 292 C.I., (4.8L), MBE924, OHV, 12 Valve, Direct Injection, Turbo Diesel **MBE924**
L4 292 CID **BORE - 106.0mm/4.17"**

PART		PART NO.	NOTES
Valve	Int	13360	1.339 Head Diameter,OEM # DDEA9060500326
	Exh	13361	1.496 Head Diameter,OEM # DDEA9060500327
Keeper	Both	121-1132	1 RD Bead Type,OEM # DDEA1020530026
Stem Seal	Both	122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # DDEA9060530358
Guide	Both	140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # DDEA9060530130

(Cont'd) DETROIT DIESEL / HEAVY DUTY

292 C.I., (4.8L), MBE924, OHV, 12 Valve, Direct Injection, Turbo Diesel **MBE924 7**
 L4 292 CID **BORE - 106.0mm/4.17" (cont.)**

PART		PART NO.	NOTES
Spring	Int	160-1643	1.961 Length,OEM # DDEA9060530120
	Exh	160-1644	2.466 Length,OEM # DDEA9060530020
Injector Tubes and Components		240-1047	Injector Tube,OEM # DDEA9060170488
		240-1047R	O-Ring, Silver,OEM # DDEA5419970345

389 C.I., (6.4L), MBE906, OHV, 18 Valve, Direct Injection, Turbo Diesel **MBE906 8**
 L6 389 CID **BORE - 102.0mm/4.02"**

PART		PART NO.	NOTES
Valve	Int	13360	1.339 Head Diameter,OEM # DDEA9060500326
	Exh	13361	1.496 Head Diameter,OEM # DDEA9060500327
Keeper	Both	121-1132	1 RD Bead Type,OEM # DDEA1020530026
Stem Seal	Both	122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # DDEA9060530358
Guide	Both	140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # DDEA9060530130
Spring	Int	160-1643	1.961 Length,OEM # DDEA9060530120
	Exh	160-1644	2.466 Length,OEM # DDEA9060530020
Injector Tubes and Components		240-1047	Injector Tube,OEM # DDEA9060170488
		240-1047R	O-Ring, Silver,OEM # DDEA5419970345

439 C.I., (7.2L), MBE926, OHV, 18 Valve, Direct Injection, Turbo Diesel **MBE926 9**
 L6 439 CID **BORE - 106.0mm/4.17"**

PART		PART NO.	NOTES
Valve	Int	13360	1.339 Head Diameter,OEM # DDEA9060500326
	Exh	13361	1.496 Head Diameter,OEM # DDEA9060500327
Keeper	Both	121-1132	1 RD Bead Type,OEM # DDEA1020530026
Stem Seal	Both	122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # DDEA9060530358
Guide	Both	140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # DDEA9060530130
Spring	Int	160-1643	1.961 Length,OEM # DDEA9060530120
	Exh	160-1644	2.466 Length,OEM # DDEA9060530020
Injector Tubes and Components		240-1047	Injector Tube,OEM # DDEA9060170488
		240-1047R	O-Ring, Silver,OEM # DDEA5419970345

501 C.I., (8.2L), 8.2L Naturally Aspirated & Turbo **8.2 10**
 V8 501 CID **BORE - 107.95mm/4.20"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-12	1 ¹⁵ / ₁₆ O.D.,1.578T I.D.,0.2030 Depth,Repair Seat
	Exh	SB1750-12	1 ³ / ₄ O.D.,1.438T I.D.,0.2030 Depth,Repair Seat, Non-Magnetic Star Series Material
Valve	Int	01456	1.811 Head Diameter,OEM #'s, 5149743 & 23502068
	Exh	01455	1.665 Head Diameter,OEM #'s, 5149742 & 23502067
Keeper	Both	121-1003	1 SQ Bead Type,OEM # 23507238
Stem Seal	Both	122-1221	Positive Type,Teflon Material,Metal Clad Style,OEM # 23500480
Guide	Both	140-7552	0.3440 I.D.,2.875 Length,0.5640 O.D.
Spring	Both	160-1194	2.190 Length,Barrel Shaped,OEM # 8927857
Rocker Components		187-1079	Valve Roller & Pin Set; 0.343 Roller Width,OEM # 8923813
		187-1080	Cam Follower Roller Set; 0.550 Roller Width,OEM # 8923814

DETROIT DIESEL / HEAVY DUTY (Cont'd)

10 501 C.I., (8.2L), 8.2L Naturally Aspirated & Turbo 8.2
 (cont.) V8 501 CID BORE - 107.95mm/4.20"

PART	PART NO.	NOTES
Injector Tubes and Components	240-1018	Injector Tube,OEM # 8920404, 5149724
	240-1018R	O-Ring, Black,OEM # 8920390

11 519 C.I., (8.5L), 50 Series Diesel 519
 L4 519 CID BORE - 130mm/5.12"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1819E-1	1.819 O.D.,1.571 I.D.,0.2830 Depth,+5, +10 & +20 O/S Available,Except CNG, OEM # 8929127
	Exh SB1628E-3	1.628 O.D.,1.357T I.D.,0.2490 Depth,+10, +20 & +30 O/S Available,Except CNG, OEM # 8929126
	SB1628E-3SA	1.6285 O.D.,1.357 I.D.,0.2490 Depth,"Special Alloy" NOTE: W/ Straight I.D., Can Be Used In CNG & Marine Applications with 20 Degree Or 30 Degree Valves
Valve	Int 13000	1.732 Head Diameter,Except CNG, OEM # 23529629
	13083S	1.732 Head Diameter,Inconel, Stellite Face,Except CNG, OEM # 23529004
	Exh 13001	1.556 Head Diameter,Inconel,Except CNG, OEM # 23529596
Keeper	Both 121-1080	1 RD Bead Type,OEM # 8929573
Stem Seal	Both 122-1242	Positive Type,Viton Material,Metal Clad Style,Except CNG, OEM # 23523930
Guide	Both 140-8591	0.3453 I.D.,4.006 Length,0.5635 O.D.,NOTE: Guide Bore Reaming Is Recommended Prior To Installation.,Except CNG, OEM # 23518571, 23533552, Cast Iron; +5 & +10 Oversized O.D. Also Available
Spring	Both 160-1418	2.910 Length,OEM # 8929415
Rotator	Both 161-1039	OEM # 8929105
Injector Tubes and Components	240-1017	Injector Tube,OEM # 8929078, 23501580
	240-1017R	O-Ring, Green,OEM # 23515470
	240-1028	Injector Tube,Thick Nose

12 677 C.I., (11.1L), 60 Series Diesel 677
 L6 677 CID BORE - 130mm/5.12"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1819E-1	1.819 O.D.,1.571 I.D.,0.2830 Depth,+5, +10 & +20 O/S Available,OEM # 8929127
	Exh SB1628E-3	1.628 O.D.,1.357T I.D.,0.2490 Depth,+10, +20 & +30 O/S Available,OEM # 8929126
	SB1628E-3SA	1.6285 O.D.,1.357 I.D.,0.2490 Depth,"Special Alloy" NOTE: W/ Straight I.D., Can Be Used In CNG & Marine Applications with 20 Degree Or 30 Degree Valves
Valve	Int 01567	1.732 Head Diameter,OEM # 8929589
	13000	1.732 Head Diameter,OEM # 23529629
	13083S	1.732 Head Diameter,Inconel, Stellite Face,OEM # 23529004; Marine
	Exh 01566	1.556 Head Diameter,OEM # 8929590, Also Replaces Valve For Eng. W/ Letter "H" or "U" In Head
	13001	1.556 Head Diameter,Inconel,OEM # 23529596
13001S	1.556 Head Diameter,Inconel, Stellite Face,OEM # 23525179, Marine; NOTE: Services Valve With " E5 " Stamped In Head	
Keeper	Both 121-1080	1 RD Bead Type,OEM # 8929573
Stem Seal	Both 122-1242	Positive Type,Viton Material,Metal Clad Style,OEM # 8929072
Guide	Both 140-8591	0.3453 I.D.,4.006 Length,0.5635 O.D.,NOTE: Guide Bore Reaming Is Recommended Prior To Installation.,OEM # 23518571, 23533552, Cast Iron; +5 & +10 Oversized O.D. Also Available

(Cont'd) DETROIT DIESEL / HEAVY DUTY**677 C.I., (11.1L), 60 Series Diesel**
L6 677 CID**677 12**
BORE - 130mm/5.12" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1418	2.910 Length,OEM # 23535296
Rotator	Both	161-1039	OEM # 8929105
Injector Tubes and Components		240-1017	Injector Tube,OEM # 8929078, 23501580
		240-1017R	O-Ring, Green,OEM # 23515470
		240-1028	Injector Tube,Thick Nose

775 C.I., (12.7L), 60 Series Diesel
L6 775 CID**775 13**
BORE - 130mm/5.12"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1819E-1	1.819 O.D.,1.571 I.D.,0.2830 Depth,+5, +10 & +20 O/S Available,OEM # 8929127
	Exh	SB1628E-3	1.628 O.D.,1.357T I.D.,0.2490 Depth,+10, +20 & +30 O/S Available,OEM # 8929126
		SB1628E-3SA	1.6285 O.D.,1.357 I.D.,0.2490 Depth,"Special Alloy" NOTE: W/ Straight I.D., Can Be Used In CNG & Marine Applications with 20 Degree Or 30 Degree Valves
Valve	Int	01567	1.732 Head Diameter,OEM # 8929589, W/O EGR
		13000	1.732 Head Diameter,OEM # 23529629, From 2003 W/EGR
		13083S	1.732 Head Diameter,Inconel, Stellite Face,OEM # 23529004; Marine
	Exh	01566	1.556 Head Diameter,OEM # 8929590, Also Replaces Valve For Eng. W/ Letter "H" or "U" In Head W/O EGR
		13001	1.556 Head Diameter,Inconel,OEM # 23529596, From 2003 W/EGR
	13001S	1.556 Head Diameter,Inconel, Stellite Face,OEM # 23525179, Marine; NOTE: Services Valve With " E5 " Stamped In Head	
Keeper	Both	121-1080	1 RD Bead Type,OEM # 8929573
Stem Seal	Both	122-1242	Positive Type,Viton Material,Metal Clad Style,OEM # 23523930
Guide	Both	140-8591	0.3453 I.D.,4.006 Length,0.5635 O.D.,NOTE: Guide Bore Reaming Is Recommended Prior To Installation.,OEM # 23518571, 23533552, Cast Iron; +5 & +10 Oversized O.D. Also Available
Spring	Both	160-1418	2.910 Length,OEM #'s 8929415, 23535296
Rotator	Both	161-1039	OEM # 8929105
Injector Tubes and Components		240-1017	Injector Tube,OEM # 8929078, 23501580
		240-1017R	O-Ring, Green,OEM # 23515470
		240-1028	Injector Tube,Thick Nose

781 C.I., (12.8L), DD13, SOHC, 24 Valve, Direct Injected, Turbo Diesel
L6 781 CID**DD13 14**
BORE - 132.0mm/5.20"

PART		PART NO.	NOTES
Valve	Int	13381	1.780 Head Diameter,Inconel,OEM # A4710500426
	Exh	13382	1.697 Head Diameter,Inconel,OEM # A4710500527
Keeper	Both	121-1073	1 RD Bead Type,OEM # A4720530026
Stem Seal	Both	122-1461	Positive Type,Viton Material,Metal Clad Style,OEM # A4700530158, A4720530558
Guide	Both	140-3178	0.3740 I.D.,3.860 Length,0.5920 O.D.
Spring	Int	160-1636	3.930 Length,OEM # A4720530420, NOTE: W/ Pink & Blue Stripe
	Exh	160-1637	3.860 Length,OEM # A4720530520, NOTE: W/ Pink & Yellow Stripe
Injector Tubes and Components		240-1051	Injector Tube,OEM # A4720780273
		240-1051R	O-Ring, Silver,OEM # A0269978245, A0249976445

DETROIT DIESEL / HEAVY DUTY (Cont'd)

15 858 C.I., (14.0L), 60 Series Diesel
L6 858 CID

858
BORE - 133mm/5.24"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1819E-1	1.819 O.D.,1.571 I.D.,0.2830 Depth,+5, +10 & +20 O/S Available,OEM # 8929127
	Exh	SB1628E-3	1.628 O.D.,1.357T I.D.,0.2490 Depth,+10, +20 & +30 O/S Available,OEM # 8929126
		SB1628E-3SA	1.6285 O.D.,1.357 I.D.,0.2490 Depth,"Special Alloy" NOTE: W/ Straight I.D., Can Be Used In CNG & Marine Applications with 20 Degree Or 30 Degree Valves
Valve	Int	01567	1.732 Head Diameter,OEM # 8929589, W/O EGR
		13000	1.732 Head Diameter,OEM # 23529629, From 2003 W/EGR
		13083S	1.732 Head Diameter,Inconel, Stellite Face,OEM # 23529004; Marine
	Exh	01566	1.556 Head Diameter,OEM # 8929590, Also Replaces Valve For Eng. W/ Letter "H" or "U" In Head, W/O EGR; Except Marine
		13001	1.556 Head Diameter,Inconel,OEM # 23529596, From 2003 W/EGR; Except Marine
	13001S	1.556 Head Diameter,Inconel, Stellite Face,OEM # 23525179, Marine; NOTE: Services Valve With " E5 " Stamped In Head	
Keeper	Both	121-1080	1 RD Bead Type,OEM # 8929573
Stem Seal	Both	122-1242	Positive Type,Viton Material,Metal Clad Style,OEM #'s 8929072, 23523930
Guide	Both	140-8591	0.3453 I.D.,4.006 Length,0.5635 O.D.,NOTE: Guide Bore Reaming Is Recommended Prior To Installation.,OEM # 23518571, 23533552, Cast Iron; +5 & +10 Oversized O.D. Also Available
Spring	Int	160-1418	2.910 Length,OEM #'s 8929415, 23535296
	Exh	160-1486	3.262 Length,OEM # 23535122
Rotator	Both	161-1039	OEM # 8929105
Injector Tubes and Components		240-1017	Injector Tube,OEM # 8929078, 23501580
		240-1017R	O-Ring, Green,OEM # 23515470
		240-1028	Injector Tube,Thick Nose
		240-1035	Injector Tube,OEM # 23533148; NOTE: Early; Threaded Stainless Steel W/ 1.245 Upper O.D. and W/1.160" Lower Diameter
		240-1035R	O-Ring, Brown,OEM # 23533147; NOTE: Use With Threaded Stainless Steel Tube 240-1035 & 240-1039
		240-1035SH+007	0.007 Thick Injector Tube Shim,OEM # 23536862; NOTE: Can Be Used With All Threaded Stainless Steel Tubes
		240-1035SH+012	0.012 Thick Injector Tube Shim,OEM # 23536863; NOTE: Can Be Used With All Threaded Stainless Steel Tubes
		240-1035SH+018	0.018 Thick Injector Tube Shim,OEM # 23536864; NOTE: Can Be Used With All Threaded Stainless Steel Tubes
		240-1039	Injector Tube,OEM # 23538840; NOTE: Late Style For Improved Cooling Threaded Stainless Steel W/1.245 and W/1.080" Lower Diameter
		240-1045	Injector Tube,OEM # 23534745; NOTE: Threaded Stainless Steel W/1.375 Upper O.D. & 1.010 Lower O.D.; Replaces Early 23538829 W/1.375 & W/1.160 Lower O.D.
		240-1045R	O-Ring, Blue,OEM # 23537743; NOTE: Use With Threaded Stainless Steel Tube W/1.375 Upper O.D. 240-1045

16 906 C.I., (14.8L), DD15, SOHC, 24 Valve, Direct Injected, Turbo Diesel
L6 906 CID

DD15
BORE - 139.0mm/5.47"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1934E-1	1.934 O.D.,1.562 I.D.,0.3100 Depth
	Exh	SB1856E-2	1.856 O.D.,1.325T I.D.,0.3100 Depth
Valve	Int	13354	1.856 Head Diameter,Inconel,OEM # A4730500126
	Exh	13355S	1.778 Head Diameter,Inconel, Stellite Face,OEM # A4730500127
Keeper	Both	121-1073	1 RD Bead Type,OEM # A4720530026

(Cont'd) DETROIT DIESEL / HEAVY DUTY

906 C.I., (14.8L), DD15, SOHC, 24 Valve, Direct Injected, Turbo Diesel DD15 **16**
 L6 906 CID BORE - 139.0mm/5.47" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1461	Positive Type,Viton Material,Metal Clad Style,OEM # A4700530158, A4720530558
Guide	Both	140-3178	0.3740 I.D.,3.860 Length,0.5920 O.D.
Spring	Int	160-1636	3.930 Length,OEM # A4720530420, NOTE: W/ Pink & Blue Stripe
		160-1678	4.010 Length,OEM # A4720530020, NOTE: W/Pink & Green & White Stripe
	Exh	160-1637	3.860 Length,OEM # A4720530520, NOTE: W/ Pink & Yellow Stripe
		160-1679	4.220 Length,OEM # A4720530220, NOTE: W/ Pink & Orange Stripe
Injector Tubes and Components		240-1051	Injector Tube,OEM # A4720780273
		240-1051R	O-Ring, Silver,OEM # A0269978245, A0249976445

952 C.I., (15.6L), DD16, SOHC, 24 Valve, Direct Injected, Turbo Diesel DD16 **17**
 L6 952 CID BORE - 139.0mm/5.47"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1934E-1	1.934 O.D.,1.562 I.D.,0.3100 Depth
	Exh	SB1856E-2	1.856 O.D.,1.325T I.D.,0.3100 Depth
Valve	Int	13354	1.856 Head Diameter,Inconel,OEM # A4730500126
	Exh	13355S	1.778 Head Diameter,Inconel, Stellite Face,OEM # A4730500127
Keeper	Both	121-1073	1 RD Bead Type,OEM # A4720530026
Stem Seal	Both	122-1461	Positive Type,Viton Material,Metal Clad Style,OEM # A4700530158, A4720530558
Guide	Both	140-3178	0.3740 I.D.,3.860 Length,0.5920 O.D.
Spring	Int	160-1636	3.930 Length,OEM # A4720530420, NOTE: W/ Pink & Blue Stripe
	Exh	160-1637	3.860 Length,OEM # A4720530520, NOTE: W/ Pink & Yellow Stripe
Injector Tubes and Components		240-1051	Injector Tube,OEM # A4720780273
		240-1051R	O-Ring, Silver,OEM # A0269978245, A0249976445

1104 C.I., (18.1L), 92 Series 4 Valve Head 6, 8, 12 & 16 Cylinder V92 **18**
 L 1104 CID BORE - 122.94mm/4.84"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1442E-1	1.442 O.D.,1-9/64T I.D.,¼ Depth,+05, +10, +20 & +30, +40, +63 O/S Available,OEM # 5148490
		SB1442E-1+010	1.452 O.D.,1-9/64T I.D.,¼ Depth,OEM # 5101315
		SB1442E-1+020	1.462 O.D.,1-9/64T I.D.,¼ Depth,OEM # 5148493
		SB1442E-1+030	1.472 O.D.,1-9/64T I.D.,¼ Depth,OEM # 5148494
Valve	Exh	01366	1.380 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 5149771, Turbo & Non-Turbo
		21366	1.380 Head Diameter,Alternative Austenitic Material,Turbo & Non-Turbo
Keeper	Exh	121-1011	1 SQ Bead Type,OEM # 5111337
Stem Seal	Exh	122-1189	Positive Type,Teflon Material,All Teflon Style
		122-1223	Positive Type,Teflon Material,Metal Clad Style,OEM Style, # 8921209
Guide	Exh	140-1946	0.3130 I.D.,2.380 Length,0.4998 O.D.,OEM # 5129919, +2, +3, +5 & +10 O/S Available
Spring	Exh	160-1186	1.970 Length,OEM # 5117561, 5147347, 8927794
Rocker Components		187-1069	Spring,OEM # 5108918
		187-1079	Valve Roller & Pin Set; 0.343 Roller Width,OEM # 8923813
		187-1080	Cam Follower Roller Set; 0.550 Roller Width,OEM # 8923814
		187-1081	Cam Follower Assy.,OEM # 8924439
Injector Tubes and Components		240-1012	Injector Tube, Thin Nose,OEM # 8925606, 5199527

DETROIT DIESEL / HEAVY DUTY (Cont'd)

18 1104 C.I., (18.1L), 92 Series 4 Valve Head 6, 8, 12 & 16 Cylinder V92
 (cont.) L 1104 CID BORE - 122.94mm/4.84"

PART	PART NO.	NOTES
Injector Tubes and Components	240-1013	Injector Tube, Thick Nose,OEM # 5150041, 8925981
	240-1013R	O-Ring, Black,OEM # 5160037, 5104701
	240-1014	Water Director,OEM # 8922388

19 2384 C.I., (39.1L), 16V-149 Series 16V-149
 L16 2384 CID BORE - 145.9mm/5.75"

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1899E-1	1.898 O.D.,1 ¹⁷ / ₃₂ T I.D.,0.2750 Depth,OEM # 5139982
Guide	Exh 140-6546	0.3755 I.D.,3.150 Length,0.7100 O.D.,Tapered End,OEM # 5138653
	140-8133	0.3755 I.D.,3.150 Length,0.7100 O.D.,OEM # 23505104, Knurled End

FIAT / PASSENGER CAR

Engine	Models	Line No.
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4 Cylinder		
1368cc, (1.4L), SOHC, GAS, FI, 16 Valve, EAB (2012-17) ...	500	1
1368cc, (1.4L), SOHC, GAS, FI, 16 Valve, TURBO, EAF (2012-17)	500	2
1368cc, (1.4L), SOHC, GAS, FI, 16 Valve, TURBO, EAM (2014-17)	124 Spider, 500L	3
2360cc, (2.4L), SOHC, GAS, FI, 16 Valve, ED6 "Tigershark" (2016-17)	500X	4

1 1368cc, (1.4L), SOHC, GAS, FI, 16 Valve, EAB 500EAB-1.4SC
 2012-17 L4 83 CID BORE - 71.9mm/2.83"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2012-16	121-1098	3 RD Bead Type
Stem Seal	Both 2012-16	122-1363	Positive Type,Viton Material,Metal Clad Style

2 1368cc, (1.4L), SOHC, GAS, FI, 16 Valve, TURBO, EAF 500EAF-1.4SCT
 2012-17 L4 83 CID BORE - 71.9mm/2.83"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2012-16	121-1098	3 RD Bead Type
Stem Seal	Both 2012-16	122-1363	Positive Type,Viton Material,Metal Clad Style

3 1368cc, (1.4L), SOHC, GAS, FI, 16 Valve, TURBO, EAM 500EAM-1.4SCT
 2014-17 L4 83 CID BORE - 71.9mm/2.83"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2014-16	121-1098	3 RD Bead Type
Stem Seal	Both 2014-16	122-1363	Positive Type,Viton Material,Metal Clad Style

4 2360cc, (2.4L), SOHC, GAS, FI, 16 Valve, ED6 "Tigershark" 500ED6-2.4SCT
 2016-17 L4 144 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Valve	Int 2016-16	13401	1.417 Head Diameter
	Exh 2016-16	13402	1.142 Head Diameter
Stem Seal	Both 2016-16	122-1467	Positive Type,Viton Material,Top Hat Style
Lifter	Both 2016-16	VL561	Hydraulic Lash Adjuster Type

FORD / INDUSTRIAL

Engine	Models	Line No.
4 Cylinder		
134 C.I., (2.2L), Gas, 1953-78	E, E134, JE, B8PE	1
172 C.I., (2.8L), Gas, 1955-78	B8PD, D, JD, JD-5, 172GF	2
172 C.I., (2.8L), Diesel, 1958-78	B, DD	3
192 C.I., (3.1L), Gas, 1972-78		4
192 C.I., (3.1L), Diesel, 1972-78		5
6 Cylinder		
200 C.I., (3.3L), 12 Valve		6
200 C.I., (3.3L), 200GP 12 Valve		7
223 C.I., (3.7L), 12 Valve		8
240 C.I., (3.9L), 12 Valve, 1965-73	C5PF	9
262 C.I., (4.3L), 12 Valve		10
300 C.I., (4.9L), Light Duty 12 Valve, 1965-96	C5PG, 300GF	14
8 Cylinder		
292 C.I., (4.8L), B8PK		11
292 C.I., (4.8L), 1958-63		12
292 C.I., (4.8L), K292, 1958-63		13
330 C.I., (5.4L), Heavy Duty, 1964-79	C4PA	15
330 C.I., (5.4L), Medium Duty, 1964-69	C4PD, C5PD	16
330 C.I., (5.4L), 1970-76	330GF	17
332 C.I., (5.4L), B6PL		18
361 C.I., (5.9L), 1964-76	C4PB	19
391 C.I., (6.4L), 1964-76	C4PC	20
401 C.I., (6.6L), 1958-70	401, B8PQ, Q	21
428 C.I., (7.0L)		22
460 C.I., (7.5L), 1976-94	460L, S, G, 875 R	23
477 C.I., (7.8L), 1958-70	B8PM, M	24
534 C.I., (8.7L), 1958-70	B8PN, N	25

134 C.I., (2.2L), Gas, 1953-78 FOI134 **1**
L4 134 CID BORE - 87.3mm/3.40"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh SB1625-11+006	1.636 O.D., 1 ¹¹ / ₃₂ I.D., 7/32 Depth
Valve	Int 00376	1.647 Head Diameter, OEM # EBU7507A
	Exh 00348	1.510 Head Diameter, OEM # EAF6505D, Rototype
Keeper	Int 121-1003	1 SQ Bead Type, OEM # 7HA6518
	Exh 121-1065	No Bead Bead Type, Tapered Groove, OEM # EAM6518A
Stem Seal	Both 122-1032	Umbrella Type, Poly Material, Umbrella Style, OEM # C3AE6571B
Guide	Both 140-1726	0.3437 I.D., 2.470 Length, 0.7515 O.D., OEM # EAF6510C
Spring	Int 160-1120	2.222 Length, OEM # EAA6513A, W/O Rotator
Lifter	Both VL21	Mechanical Type, OEM # EAA6500D

FORD / INDUSTRIAL (Cont'd)**2 172 C.I., (2.8L), Gas, 1955-78**

L4 172 CID

FOI172G

BORE - 99.06mm/3.9"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-11+006	1.636 O.D., 1 ¹¹ / ₃₂ I.D., 7/32 Depth
Valve	Int	00376	1.647 Head Diameter, OEM # EBU6507A
	Exh	00348	1.510 Head Diameter, OEM # EAF6505D
Keeper	Int	121-1003	1 SQ Bead Type, OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type, Tapered Groove, OEM # EAM6518A
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
	Both	122-1032	Umbrella Type, Poly Material, Umbrella Style, OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D., 2.470 Length, 0.7515 O.D., OEM # EAF6510C
Spring	Both	160-1120	2.222 Length, OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type, OEM # EAA6500D
Push Rod	Both	190-1222	9.602 Length

3 172 C.I., (2.8L), Diesel, 1958-78

L4 172 CID

FOI172D

BORE - 99.06mm/3.9"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-11+006	1.636 O.D., 1 ¹¹ / ₃₂ I.D., 7/32 Depth
Valve	Int	00609	1.647 Head Diameter, OEM # 310650
	Exh	00608	1.510 Head Diameter, OEM # 310651
Keeper	Int	121-1003	1 SQ Bead Type, OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type, Tapered Groove, OEM # EAM6518A
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-1966	0.3440 I.D., 2.938 Length, 0.7513 O.D., OEM # 311411
	Exh	140-1726	0.3437 I.D., 2.470 Length, 0.7515 O.D., OEM # EAF6510C
Spring	Both	160-1120	2.222 Length, OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type, OEM # EAA6500D
Push Rod	Both	190-1222	9.602 Length

4 192 C.I., (3.1L), Gas, 1972-78

L4 192 CID

FOI192G

BORE - 105mm/4.134"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00376	1.647 Head Diameter, OEM # EBU6507A
	Exh	00348	1.510 Head Diameter, OEM # EAF6505D
Keeper	Int	121-1003	1 SQ Bead Type, OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type, Tapered Groove, OEM # EAM6518A
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Both	140-1726	0.3437 I.D., 2.470 Length, 0.7515 O.D., OEM # EAF6510C
Spring	Both	160-1159	2.073 Length, W/ Damper
		160-1212	2.208 Length, OEM # D6NN6513A
Lifter	Both	VL21	Mechanical Type, OEM # EAA6500D
Push Rod	Both	190-1222	9.602 Length

(Cont'd) FORD / INDUSTRIAL**192 C.I., (3.1L), Diesel, 1972-78**
L4 192 CIDFOI192D **5**
BORE - 105mm/4.134"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-1	1 ³ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00609	1.647 Head Diameter, OEM # 310650
	Exh	00608	1.510 Head Diameter, OEM # 310651
Keeper	Int	121-1065	No Bead Bead Type, Tapered Groove, OEM # EAM6518A
	Exh	121-1003	1 SQ Bead Type, OEM # 7HA6518
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Exh	140-1966	0.3440 I.D., 2.938 Length, 0.7513 O.D., OEM # 311411
Spring	Both	160-1159	2.073 Length, W/ Damper
Lifter	Both	VL21	Mechanical Type, OEM # C3AE6500A
Push Rod	Both	190-1222	9.602 Length

200 C.I., (3.3L), 12 Valve
L6 200 CIDFOI200 **6**
BORE - 93.4mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.651 Valve Head Dia.
		SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.751 Valve Head Dia.
	Exh	SB1437-2	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01268	1.651 Head Diameter, OEM # D2DZ6507E
		01357	1.751 Head Diameter, OEM # D7BE6507AA
	Exh	01266	1.390 Head Diameter, +15 O/S Stem Available
Keeper	Both	121-1011	1 SQ Bead Type, OEM # F4TZ6518A
Stem Seal	Both	122-1009	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.500 O.D.
		122-1034	Umbrella Type, Poly Material, Umbrella Style
Guide	Both	140-6869	0.3125 I.D., 1.875 Length, 0.4390 O.D., Plain I.D. Conversion Guide
		140-6977	0.3120 I.D., 2.281 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		140-9869	0.3125 I.D., 1.875 Length, 0.4390 O.D., Spiral I.D. Conversion Guide
		140-9977	0.3120 I.D., 2.281 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	160-1131	1.828 Length, W/ Hydraulic Lifters, Exc. 1968-69
Lifter	Both	VL9	Hydraulic Type
Push Rod	Both	190-1327	8.350 Length, -54 U/S Available (190-1327U54), W/ Hyd. Lifters

200 C.I., (3.3L), 200GP 12 Valve
L6 200 CIDFOI200GP **7**
BORE - 93.4mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.651 Valve Head Dia.
		SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.751 Valve Head Dia.
	Exh	SB1437-2	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01268	1.651 Head Diameter, OEM # D2DZ6507A
		01357	1.751 Head Diameter, OEM # D7BE6507AA
	Exh	01266	1.390 Head Diameter, +15 O/S Stem Available

FORD / INDUSTRIAL (Cont'd)

7 200 C.I., (3.3L), 200GP 12 Valve FOI200GP
 (cont.) L6 200 CID BORE - 93.4mm/3.60"

PART		PART NO.	NOTES
Keeper	Both	121-1011	1 SQ Bead Type
Stem Seal	Both	122-1009 122-1034	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.500 O.D. Umbrella Type,Poly Material,Umbrella Style
Guide	Both	140-6869 140-6977 140-9869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Plain I.D. Conversion Guide 0.3120 I.D.,2.281 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3125 I.D.,1.875 Length,0.4390 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1131	1.828 Length,W/ Hydraulic Lifters, Exc. 1968-69
Lifter	Both	VL9	Hydraulic Type
Push Rod	Both	190-1327	8.350 Length,-54 U/S Available (190-1327U54),W/ Hyd. Lifters

8 223 C.I., (3.7L), 12 Valve FOI223
 L6 223 CID BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-3 SB1630E-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,(1958-67) 1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,(1958-67)
Valve	Int Exh	00373 00375	1.780 Head Diameter,OEM # EBP6507E 1.510 Head Diameter,OEM # EBP6505A
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1041 122-1048	Umbrella Type,Poly Material,Umbrella Style Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia.; Use W/ Factory Guide Boss
Guide	Both	140-6105 140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Spring	Both	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

9 240 C.I., (3.9L), 12 Valve, 1965-73 FOI240
 L6 240 CID BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-3 SB1625-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	00963 01120 01177S 01358	1.781 Head Diameter 1.780 Head Diameter,H-Duty, +15 O/S Stem Available 1.560 Head Diameter,Stellite Face,Optional 1.560 Head Diameter,+15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1035 122-1047	Umbrella Type,Poly Material,Umbrella Style Positive Type,Poly Material,2-Ring Style
Guide	Int Exh	140-9867 140-5607 140-9607	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	160-1135	1.875 Length,W/ Rotator

(Cont'd) FORD / INDUSTRIAL**240 C.I., (3.9L), 12 Valve, 1965-73**
L6 240 CIDFOI240 **9**
BORE - 101.6mm/4.00" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1134	1.990 Length,W/O Rotator
Rotator	Exh	161-1006	
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1237 181-1040 184-1038 183-1020 183-1030	Rocker Arm, Cast Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Smooth Ball, (1) 3/8 Nut, (1) 5/16 Nut Nut, 3/8 Grooved Ball, 3/8 Smooth Ball, 3/8
Push Rod	Both	192-1322	10.136 Length,- 40 U/S (192-1322U40) Available

262 C.I., (4.3L), 12 Valve
L6 262 CIDFOI262 **10**
BORE - 94.4mm/3.72"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-3 SB1630E-1	1 13/16 O.D., 1 1/2 I.D., 7/32 Depth 1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Guide	Int Exh	140-9964 140-7298 140-9298	0.3730 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9964H) 0.3730 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3729 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Push Rod	Both	190-1222	9.602 Length

292 C.I., (4.8L), B8PK
V8 292 CIDFOI B8PK **11**
BORE - 95.2mm/3.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1750-3 SB1562-2	1 3/4 O.D., 1 7/16 I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material, (1958-63) 1 9/16 O.D., 1 5/16 I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material, (1958-63)
Guide	Int Exh	140-5606 140-6105 140-9105	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U) 0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)

292 C.I., (4.8L), 1958-63
V8 292 CIDFOI292 **12**
BORE - 95.2mm/3.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1750-3 SB2000-1 SB1562-2	1 3/4 O.D., 1 7/16 I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material, (1960-63) 2.000 O.D., 1 3/4 I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material, (1958-59) 1 9/16 O.D., 1 5/16 I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int Exh	00376 00494 00375	1.647 Head Diameter, (1960-63) 1.925 Head Diameter, (1958-59) 1.510 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1074	Positive Type, Viton Material, Ring & Band Style
Guide	Int	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)

FORD / INDUSTRIAL (Cont'd)

12 292 C.I., (4.8L), 1958-63 FOI292
 (cont.) V8 292 CID BORE - 95.2mm/3.75"

PART		PART NO.	NOTES
Guide	Exh	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Spring	Both	160-1120	2.222 Length,W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1543	8.122 Length

13 292 C.I., (4.8L), K292, 1958-63 FOI_K292
 V8 292 CID BORE - 95.2mm/3.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-3	1 $\frac{3}{4}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Non-Magnetic (N) Material,(1960-63)
		SB2000-1	2.000 O.D.,1 $\frac{3}{4}$ I.D., $\frac{7}{32}$ Depth,Also Available In Non-Magnetic (N) Material,(1958-59)
	Exh	SB1562-2	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ T I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	00376	1.647 Head Diameter,(1960-63)
		00494	1.925 Head Diameter,(1958-59)
	Exh	00375	1.510 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1074	Positive Type,Viton Material,Ring & Band Style
Guide	Int	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
	Exh	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Spring	Both	160-1120	2.222 Length,W/O Rotator
Lifter	Both	VL21	Mechanical Type

14 300 C.I., (4.9L), Light Duty 12 Valve, 1965-96 FOI300
 L6 300 CID BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 $\frac{9}{16}$ O.D.,1 $\frac{1}{2}$ T I.D., $\frac{7}{32}$ Depth
	Exh	SB1687-4N	1 $\frac{11}{16}$ O.D.,1 $\frac{11}{32}$ I.D., $\frac{9}{16}$ Depth,W/ Factory Installed Seat
		SB1687-5N	1 $\frac{11}{16}$ O.D.,1 $\frac{9}{16}$ I.D., $\frac{7}{32}$ Depth,W/O Factory Installed Seat
Valve	Int	00963	1.781 Head Diameter,1965-83
		01120	1.780 Head Diameter,1965-83 H-Duty, 1984 To Mid 1996 All, Chrome Plated, +15 O/S Stem Available
		01875	1.780 Head Diameter,From Mid-96
	Exh	01177S	1.560 Head Diameter,Stellite Face,Optional, 4.810 Overall Length, 1965-83
		01358	1.560 Head Diameter,4.810 Overall Length, +15 O/S Stem Available, 1965-83
		01504S	1.560 Head Diameter,Stellite Face,4.750 Overall Length, W/ Flat Valve Head, 1984-96
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Exh	122-1006	Positive Type,Rubber Material,Ring & Band Style,02/1991-1994
	Both	122-1035	Umbrella Type,Poly Material,Umbrella Style,1965-86
		122-1043	O-Ring Type,Nitrile Material,O-Ring Style,Exc. F100,F250 4x2 To C/118, 1965-70
		122-1063	Positive Type,Viton Material,All Rubber Style
Guide	Int	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)

(Cont'd) FORD / INDUSTRIAL**300 C.I., (4.9L), Light Duty 12 Valve, 1965-96**
L6 300 CIDFOI300 **14**
BORE - 101.6mm/4.00" (cont.)

PART		PART NO.	NOTES
Guide	Exh	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	160-1135	1.875 Length,W/ Rotator
	Both	160-1134	1.990 Length,W/O Rotator
Rotator	Exh	161-1006	
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1029	Rocker Arm
		180-1237	Rocker Arm, Cast
		181-1040	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Smooth Ball, (1) 3/8 Nut, (1) 5/16 Nut
		184-1021	Stud, 5/16
		184-1022	+6 Oversize Stud, 5/16
		184-1035	Bolt W/Washer, 5/16
		184-1038	Nut, 3/8
		184-1039	Nut, 5/16
		183-1020	Grooved Ball, 3/8
		183-1022	Fulcrum
183-1030	Smooth Ball, 3/8		
Push Rod	Both	192-1322	10.136 Length,- 40 U/S (192-1322U40) Available

330 C.I., (5.4L), Heavy Duty, 1964-79
V8 330 CIDFOI330HD **15**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-1	1.815 O.D.,1.595 I.D.,1/4 Depth,OEM # C8TZ-6057A
		SB1875-2	1 7/8 O.D.,1 1/16 I.D.,1/4 Depth,Optional, Use W/ 1 7/8 Cutter
	Exh	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # C4TZ-6057A & D1TZ-6057A
		SB1687-4	1 11/16 O.D.,1 11/32 I.D.,5/16 Depth,Also Available In Non-Magnetic (N) Material,Optional, Use W/ 1 11/16 Cutter
Valve	Int	00918	1.753 Head Diameter
		01057S	1.753 Head Diameter,Stellite Face,Optional, To S/N 025,001, +15 O/S Stem Available, 1964-77
		01348	1.753 Head Diameter,From S/N 025,001, 1977-79
	Exh	00917SN	1.506 Head Diameter,Stellite Face, Sodium Filled,+15 O/S Stem Available
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Int	140-6109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-6119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
		140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1006	1.960 Length
Lifter	Both	VL9	Hydraulic Type
Rocker Components	Both	180-1059	Rocker Arm, Cast
		186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available,1964-72
		190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips, 1972-79

FORD / INDUSTRIAL (Cont'd)**16 330 C.I., (5.4L), Medium Duty, 1964-69**
V8 330 CIDFOI330MD
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-1	1.815 O.D., 1.595 I.D., 1/4 Depth, OEM # C8TZ-6057A
	Exh	SB1875-2	1 7/8 O.D., 1 9/16 I.D., 1/4 Depth, Optional, Use W/ 1 7/8 Cutter
		SB1630E-1	1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material, OEM # C4TZ-6057A & D1TZ-6057A
		SB1687-4	1 11/16 O.D., 1 11/32 I.D., 5/16 Depth, Also Available In Non-Magnetic (N) Material, Optional, Use W/ 1 11/16 Cutter
Valve	Int	00949	1.753 Head Diameter
	Exh	01332	1.508 Head Diameter, +15 O/S Stem Available
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type, Poly Material, 2-Ring Style
		122-1033	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-6109	0.3740 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		140-9109	0.3740 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-7298	0.3730 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		140-9298	0.3729 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1124	2.260 Length, W/ Damper
Lifter	Both	VL9	Hydraulic Type
Rocker Components	Both	180-1059	Rocker Arm, Cast
		186-1090	Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1351	9.620 Length, +60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available
		190-1426	9.590 Length, +60 O/S (190-1426+60) Available , W/ Hyd. Lifters (Std. Length) W/ Ball Tips

17 330 C.I., (5.4L), 1970-76

V8 330 CID

FOI330

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-1	1.815 O.D., 1.595 I.D., 1/4 Depth, OEM # C8TZ-6057A
	Exh	SB1875-2	1 7/8 O.D., 1 9/16 I.D., 1/4 Depth, Optional, Use W/ 1 7/8 Cutter
		SB1630E-1	1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material, OEM # C4TZ-6057A & D1TZ-6057A
		SB1687-4	1 11/16 O.D., 1 11/32 I.D., 5/16 Depth, Also Available In Non-Magnetic (N) Material, Optional, Use W/ 1 11/16 Cutter
Valve	Int	00949	1.753 Head Diameter
	Exh	01217S	1.508 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type, Poly Material, 2-Ring Style
		122-1033	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	140-9109	0.3740 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-9298	0.3729 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1124	2.260 Length, W/ Damper
Lifter	Both	VL9	Hydraulic Type
Rocker Components	Both	180-1059	Rocker Arm, Cast
		186-1090	Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1351	9.620 Length, +60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available
		190-1426	9.590 Length, +60 O/S (190-1426+60) Available , W/ Hyd. Lifters (Std. Length) W/ Ball Tips

(Cont'd) FORD / INDUSTRIAL**332 C.I., (5.4L), B6PL**

V8 332 CID

FOI332 **18**

BORE - 96.5mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2125-1	2 $\frac{1}{8}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{1}{4}$ Depth 1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1630E-1	
Guide	Int	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	140-6119	0.4375 I.D., 2.500 Length, 0.6267 O.D., Plain I.D. Conversion Guide, +2 O/S Available
		140-9119	0.4375 I.D., 2.500 Length, 0.6265 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1120	2.222 Length, W/O Rotator
Push Rod	Both	190-1222	9.602 Length

361 C.I., (5.9L), 1964-76

V8 361 CID

FOI361 **19**

BORE - 102.87mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-1	1.815 O.D., 1.595 I.D., $\frac{1}{4}$ Depth, OEM # C8TZ-6057A 1 $\frac{7}{8}$ O.D., 1 $\frac{9}{16}$ I.D., $\frac{1}{4}$ Depth, Optional, Use W/ 1 $\frac{7}{8}$ Cutter 1.630 O.D., 1.335 I.D., 0.3120 Depth, OEM # C4TZ-6057A & D1TZ-6057A 1 $\frac{11}{16}$ O.D., 1 $\frac{11}{32}$ I.D., $\frac{5}{16}$ Depth, Optional, Use W/ 1 $\frac{11}{16}$ Cutter
		SB1875-2	
	Exh	SB1630E-1N	
		SB1687-4N	
Valve	Int	00918	1.753 Head Diameter, 0.473 Tip To Groove Length
		01057S	1.753 Head Diameter, Stellite Face, Optional, 0.473 Tip To Groove Length, +15 O/S Stem Available
	Exh	00917SN	1.506 Head Diameter, Stellite Face, Sodium Filled, +15 O/S Stem Available
Keeper	Both	121-1007	1 SQ Bead Type
		122-1036	Umbrella Type, Poly Material, Umbrella Style, To S/N C10000, 1967-76
Stem Seal	Int	122-1043	O-Ring Type, Nitrile Material, O-Ring Style, To S/N C10000, 1967-76
	Both		
Guide	Int	140-6109	0.3740 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		140-9109	0.3740 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-6119	0.4375 I.D., 2.500 Length, 0.6267 O.D., Plain I.D. Conversion Guide, +2 O/S Available
		140-9119	0.4375 I.D., 2.500 Length, 0.6265 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1006	1.960 Length
Lifter	Both	VL9	Hydraulic Type
Rocker Components	Both	180-1059	Rocker Arm, Cast
		186-1090	Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1351	9.620 Length, +60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available
		190-1426	9.590 Length, +60 O/S (190-1426+60) Available, W/ Hyd. Lifters (Std. Length) W/ Ball Tips

391 C.I., (6.4L), 1964-76

V8 391 CID

FOI391 **20**

BORE - 102.87mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-1	1.815 O.D., 1.595 I.D., $\frac{1}{4}$ Depth, OEM # C8TZ-6057A 1 $\frac{7}{8}$ O.D., 1 $\frac{9}{16}$ I.D., $\frac{1}{4}$ Depth, Optional, Use W/ 1 $\frac{7}{8}$ Cutter 1.630 O.D., 1.335 I.D., 0.3120 Depth, OEM # C4TZ-6057A & D1TZ-6057A 1 $\frac{11}{16}$ O.D., 1 $\frac{11}{32}$ I.D., $\frac{5}{16}$ Depth, Optional, Use W/ 1 $\frac{11}{16}$ Cutter
		SB1875-2	
	Exh	SB1630E-1N	
		SB1687-4N	
Valve	Int	00918	1.753 Head Diameter

FORD / INDUSTRIAL (Cont'd)**20** 391 C.I., (6.4L), 1964-76

FOI391

(cont.)

V8 391 CID

BORE - 102.87mm/4.00"

PART		PART NO.	NOTES
Valve	Int	01057S	1.753 Head Diameter,Stellite Face,Optional, +15 O/S Stem Available
	Exh	00917SN	1.506 Head Diameter,Stellite Face, Sodium Filled,+15 O/S Stem Available
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Int	122-1036	Umbrella Type,Poly Material,Umbrella Style,From S/N B54001, 1967-76
	Exh	122-1043	O-Ring Type,Nitrile Material,O-Ring Style,From S/N B54001, 1967-76
	Both	122-1075	Positive Type,Viton Material, Ring & Band Style
Guide	Int	140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		140-9964	0.3730 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9964H)
	Exh	140-6119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
		140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1006	1.960 Length
		160-1175	2.120 Length,W/ Damper
Lifter	Both	VL9	Hydraulic Type
Rocker Components	Both	180-1059	Rocker Arm, Cast
		186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available
		190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

21 401 C.I., (6.6L), 1958-70

FOI401

V8 401 CID

BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2220E-1	2.220 O.D.,1.843 I.D.,0.3120 Depth,OEM # B8TZ-6057T
	Exh	SB1744E-1N	1.744 O.D.,1.445 I.D.,0.3120 Depth,OEM # B8QH-6057A
Valve	Int	00531S	2.020 Head Diameter,Stellite Face
	Exh	00530SN	1.634 Head Diameter,Stellite Face, Sodium Filled
		01346S	1.635 Head Diameter,Stellite Face,Optional
Keeper	Both	121-1009	1 SQ Bead Type
Stem Seal	Both	122-1003	Umbrella Type,Nitrile Material,Umbrella Style
Guide	Exh	140-7197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		140-9197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide
	Both	140-9609	0.4375 I.D.,2.625 Length,0.6270 O.D.,Spiral I.D. Conversion Guide,Both 1958-69; Intake 1970

22 428 C.I., (7.0L)

FOI428

V8 428 CID

BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1815E-1	1.815 O.D.,1.595 I.D.,¼ Depth,OEM # C8TZ-6057A
		SB1875-2	1⅞ O.D.,1⅞ I.D.,¼ Depth,Optional, Use W/ 1⅞ Cutter
	Exh	SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,OEM # C4TZ-6057A & D1TZ-6057A
		SB1687-4N	1⅞ O.D.,1⅞ I.D.,⅝ Depth,Optional, Use W/ 1⅞ Cutter
Valve	Int	00949	1.753 Head Diameter,From S/N 420B61 (3/15/71)
	Exh	00917SN	1.506 Head Diameter,Stellite Face, Sodium Filled,W/ Seal Groove, To S/N 420B61, +15 O/S Stem Available
		01217S	1.508 Head Diameter,Stellite Face,W/O Seal Groove, From S/N 420B61
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Int	122-1036	Umbrella Type,Poly Material,Umbrella Style
	Exh	122-1043	O-Ring Type,Nitrile Material,O-Ring Style,To Eng. Code 420B61

(Cont'd) FORD / INDUSTRIAL**428 C.I., (7.0L)**

V8 428 CID

FOI428 **22**

BORE - 104.775mm/4.125" (cont.)

PART		PART NO.	NOTES
Guide	Exh	140-9116	0.4375 I.D., 3.125 Length, 0.6270 O.D., Spiral I.D. Conversion Guide, To 3/71 0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Both	140-9108	
Spring	Both	160-1006	1.960 Length
Lifter	Both	VL9	Hydraulic Type
Push Rod	Both	190-1426	9.590 Length, +60 O/S (190-1426+60) Available , Check Length Before Installing

460 C.I., (7.5L), 1976-94

V8 460 CID

FOI460 **23**

BORE - 110.74mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2062-30	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., ³ / ₁₆ Depth, EFI & LPG, W/ 1.978 Valve Head Dia. 2 ¹ / ₄ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth, Industrial, Marine & EFI. W/ 2.083 Valve Head Dia.
		SB2250-1	
	Exh	SB1625-3N	1 ⁵ / ₈ O.D., 1 ⁵ / ₁₆ I.D., ¹ / ₄ Depth, Industrial, Use W/ 1.508 Valve Head Dia. 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, W/O OEM Seat & W/ 1.654 Valve Head Dia. 1.781 O.D., 1.476 I.D., 0.3110 Depth, W/ OEM Seat & W/ 1.654 Valve Head Dia.
		SB1750-2N SB1781E-1N SB1812-21N	
Valve	Int	01272	2.083 Head Diameter, Industrial & Marine +15 O/S Stem Available 1.978 Head Diameter, EFI, +15 O/S Stem Available, 1988-94 1.977 Head Diameter, Stellite Face, LPG 2.083 Head Diameter, EFI., 1993-94
		01548	
		01548S	
	Exh	01723	1.654 Head Diameter, Marine, +15 O/S Stem Available 1.508 Head Diameter, Stellite Face, Industrial 1.654 Head Diameter, Recommended OEM Nickel Base Inconel Material, EFI & LPG, +15 O/S Stem Available, 1988-94 1.654 Head Diameter, Alternative Austenitic Material, EFI & LPG, 1988-94
		01271	
		01368S 01547 21547	
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Int	122-1198	Positive Type, Viton Material, Metal Clad Style, 02/1992 - 1994 Positive Type, Rubber Material, Ring & Band Style, 02/1992 - 1994 Umbrella Type, Poly Material, Umbrella Style, Use W/ .015 & .030 O/S Valves, 1976-92 Positive Type, Viton Material, Ring & Band Style, From 02/1986 To 01/1992
	Exh	122-1006	
	Both	122-1041	
		122-1074	
Guide	Both	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both	160-1161	2.068 Length
		160-1201	2.090 Length
		160-1409	2.300 Length, W/ Damper, Opt. H.D. Spring
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1233	Rocker Arm, Stamped Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) ⁵ / ₁₆ Bolt Bolt, ⁵ / ₁₆ Fulcrum
		181-1034	
		184-1034	
		183-1022	
Push Rod	Both	190-1425	8.550 Length, +60 O/S (190-1425+60) Available

477 C.I., (7.8L), 1958-70

V8 477 CID

FOI477 **24**

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2220E-1	2.220 O.D., 1.843 I.D., 0.3120 Depth, OEM # B8TZ-6057T 1.744 O.D., 1.445 I.D., 0.3120 Depth, OEM # B8QH-6057A
	Exh	SB1744E-1N	

FORD / INDUSTRIAL (Cont'd)

24 477 C.I., (7.8L), 1958-70 FOI477
 (cont.) V8 477 CID BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve	Int	00531S	2.020 Head Diameter,Stellite Face
	Exh	00530SN	1.634 Head Diameter,Stellite Face, Sodium Filled
		01346S	1.635 Head Diameter,Stellite Face,Optional
Keeper	Both	121-1009	1 SQ Bead Type
Stem Seal	Both	122-1003	Umbrella Type,Nitrile Material,Umbrella Style
Guide	Both	140-9609	0.4375 I.D.,2.625 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

25 534 C.I., (8.7L), 1958-70 FOI534
 V8 534 CID BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2220E-1	2.220 O.D.,1.843 I.D.,0.3120 Depth,OEM # B8TZ-6057T
	Exh	SB1744E-1N	1.744 O.D.,1.445 I.D.,0.3120 Depth,OEM # B8QH-6057A
Valve	Int	00531S	2.020 Head Diameter,Stellite Face
	Exh	00530SN	1.634 Head Diameter,Stellite Face, Sodium Filled
		01346S	1.635 Head Diameter,Stellite Face,Optional
Keeper	Both	121-1009	1 SQ Bead Type
Stem Seal	Both	122-1003	Umbrella Type,Nitrile Material,Umbrella Style
Guide	Exh	140-7197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		140-9197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide
	Both	140-9609	0.4375 I.D.,2.625 Length,0.6270 O.D.,Spiral I.D. Conversion Guide,Both 1958-69, Intake Only 1970

FORD / TRACTOR

Engine	Models	Line No.
3 Cylinder		
158 C.I., (2.6L), Gas		8
158 C.I., (2.6L), Diesel		9
158 C.I., (2.6L), LPG		10
175 C.I., (2.8L)		15
192 C.I., (3.1L), Diesel		16
192 C.I., (3.1L), Gas		17
201 C.I., (3.3L), Gas		18
201 C.I., (3.3L), Diesel		19
4 Cylinder		
120 C.I., (2.0L), GAS, 2N, 1942-47		1
120 C.I., (2.0L), GAS, 8N, 1948-52		2
120 C.I., (2.0L), GAS, 9N, 1939-41		3
134 C.I., (2.2L), Gas, 1953-64		4
134 C.I., (2.2L), Kerosene, 1953-64		5
134 C.I., (2.2L), LPG, 1953-64		6
144 C.I., (2.4L), Diesel		7
172 C.I., (2.8L), LPG, 1955-64		11
172 C.I., (2.8L), Gas, 1955-64		12
172 C.I., (2.8L), Kerosene, 1955-64		13
172 C.I., (2.8L), Diesel, 1958-64		14
220 C.I., (3.6L), Diesel		20

Engine	Models	Line No.
4 Cylinder		
233 C.I., (3.8L), Gas		22
233 C.I., (3.8L), Diesel		23
256 C.I., (4.2L), Diesel		25
256 C.I., (4.2L), Gas		26
268 C.I., (4.2L), Diesel, 268NA, 268T		27
6 Cylinder		
223 C.I., (3.7L), 12 Valve, 1958-71		21
242 C.I., (4.0L), Diesel 12 Valve, 1961-71		24
330 C.I., (5.4L), Diesel 12 Valve		28
401 C.I., (6.6L), Diesel 12 Valve		29
401 C.I., (6.6L), Turbo Diesel 12 Valve		30

120 C.I., (2.0L), GAS, 2N, 1942-47 **120_61** **1**
L4 120 CID **BORE - 80.96mm/3.1875"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N		1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	00212	1.510 Head Diameter, OEM # 1BA6505A2 & 8BA6505A; NOTE: Stainless Steel
		00214	1.510 Head Diameter, OEM # 8BA6507A
	Exh	00220	1.281 Head Diameter, OEM # 8N6505A
		00270	1.283 Head Diameter, Tapered Groove, OEM # 8N6505C, Rototype
Keeper	Int	121-1003	1 SQ Bead Type, OEM # 7HA6518A
	Exh	121-1065	No Bead Bead Type, Tapered Groove, OEM # EAM6518A, Rototype
Stem Seal	Both	122-1376	O-Ring Type, Nitrile Material, Valve Guide Seal Style, OEM # 8BA6571
Guide	Both	140-1614	0.3435 I.D., 2.210 Length, 1.0303 O.D., OEM # 8BA6510B
		149-1001	Valve Guide Retainer, OEM # 4Q6512
Spring	Both	160-1433	2.313 Length, OEM # 8N6513
Rotator	Exh	161-1058	ROTOTYPE, OEM # 8RT6514B
		161-9002	Lash Cap, OEM # 8EQ6550B
	Both	161-1057	OEM # 8BA6514

120 C.I., (2.0L), GAS, 8N, 1948-52 **120_62** **2**
L4 120 CID **BORE - 80.96mm/3.1875"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N		1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	00212	1.510 Head Diameter, OEM # 1BA6505A2 & 8BA6505A; NOTE: Stainless Steel
		00214	1.510 Head Diameter, OEM # 8BA6507A
	Exh	00220	1.281 Head Diameter, W/O Rototype, OEM # 8N6505A
		00270	1.283 Head Diameter, Tapered Groove, Rototype, OEM # 8N6505C
Keeper	Exh	121-1065	No Bead Bead Type, Tapered Groove, Rototype, OEM # EAM6518A
	Both	121-1003	1 SQ Bead Type, W/O Rototype, OEM # 7HA6518A
Stem Seal	Both	122-1376	O-Ring Type, Nitrile Material, Valve Guide Seal Style, OEM # 8BA6571
Guide	Both	140-1614	0.3435 I.D., 2.210 Length, 1.0303 O.D., OEM # 8BA6510B
		149-1001	Valve Guide Retainer, OEM # 4Q6512

FORD / TRACTOR (Cont'd)

2 120 C.I., (2.0L), GAS, 8N, 1948-52 120_62
 (cont.) L4 120 CID BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Spring	Both	160-1433	2.313 Length,OEM # 8N6513
Rotator	Exh	161-1058	ROTOTYPE, OEM # 8RT6514B
		161-9002	Lash Cap,OEM # 8EQ6550B
	Both	161-1057	OEM # 8BA6514

3 120 C.I., (2.0L), GAS, 9N, 1939-41 120_63
 L4 120 CID BORE - 80.96mm/3.1875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N	1.348 O.D.,1.087 I.D.,0.2000 Depth,+10 O/S Available
Valve	Int	00212	1.510 Head Diameter,OEM # 1BA6505A2 & 8BA6505A; NOTE: Stainless Steel
	Exh	00214	1.510 Head Diameter,OEM # 8BA6507A
		00220	1.281 Head Diameter,OEM # 8N6505A
		00270	1.283 Head Diameter,Tapered Groove,OEM # 8N6505C, Rototype
Keeper	Int	121-1003	1 SQ Bead Type,OEM # 7HA6518A
	Exh	121-1065	No Bead Bead Type,Tapered Groove,OEM # EAM6518A, Rototype
Stem Seal	Both	122-1376	O-Ring Type,Nitrile Material,Valve Guide Seal Style,OEM # 8BA6571
Guide	Both	140-1614	0.3435 I.D.,2.210 Length,1.0303 O.D.,OEM # 8BA6510B
		149-1001	Valve Guide Retainer,OEM # 4Q6512
Spring	Both	160-1433	2.313 Length,OEM # 8N6513
Rotator	Exh	161-1058	ROTOTYPE, OEM # 8RT6514B
		161-9002	Lash Cap,OEM # 8EQ6550B
	Both	161-1057	OEM # 8BA6514

4 134 C.I., (2.2L), Gas, 1953-64 134G
 L4 134 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-2	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1625-11+006	1.636 O.D.,1 ¹¹ / ₃₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	00376	1.647 Head Diameter,OEM # EBU6507A
	Exh	00348	1.510 Head Diameter,OEM # EAF6505D, Rototype
Keeper	Int	121-1003	1 SQ Bead Type,OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type,Tapered Groove,OEM # EAM6518A
Stem Seal	Both	122-1032	Umbrella Type,Poly Material,Umbrella Style,OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D.,2.470 Length,0.7515 O.D.,OEM # EAF6510C
Spring	Int	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

5 134 C.I., (2.2L), Kerosene, 1953-64 134K
 L4 134 CID BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-2	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1625-11+006	1.636 O.D.,1 ¹¹ / ₃₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	00376	1.647 Head Diameter,OEM # EBU6507A
	Exh	00348	1.510 Head Diameter,OEM # EAF6505D, Rototype
Keeper	Int	121-1003	1 SQ Bead Type,OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type,Tapered Groove,OEM # EAM6518A

(Cont'd) FORD / TRACTOR**134 C.I., (2.2L), Kerosene, 1953-64**
L4 134 CID134K **5**
BORE - 87.3mm/3.40" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1032	Umbrella Type,Poly Material,Umbrella Style,OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D.,2.470 Length,0.7515 O.D.,OEM # EAF6510C
Spring	Int	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

134 C.I., (2.2L), LPG, 1953-64
L4 134 CID134LP **6**
BORE - 87.3mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-2	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1625-11+006	1.636 O.D.,1 ¹¹ / ₃₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	00376	1.647 Head Diameter,OEM # EBU6507A
	Exh	00348	1.510 Head Diameter,OEM # EAF6505D, Rototype
Keeper	Int	121-1003	1 SQ Bead Type,OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type,Tapered Groove,OEM # EAM6518A
Stem Seal	Both	122-1032	Umbrella Type,Poly Material,Umbrella Style,OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D.,2.470 Length,0.7515 O.D.,OEM # EAF6510C
Spring	Int	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

144 C.I., (2.4L), Diesel
L4 144 CID144D **7**
BORE - 90.4mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-11	1 ⁵ / ₈ O.D.,1 ¹¹ / ₃₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1250-1	1 ¹ / ₄ O.D.,1.000 I.D., ⁷ / ₃₂ Depth
Push Rod	Both	190-1222	9.602 Length

158 C.I., (2.6L), Gas
L3 158 CID158G **8**
BORE - 106.68mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter,OEM # C5NN6507B
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1991
		160-1212	2.208 Length,OEM # D6NN6513A, To 1991

158 C.I., (2.6L), Diesel
L3 158 CID158D **9**
BORE - 106.68mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth

FORD / TRACTOR (Cont'd)

9 158 C.I., (2.6L), Diesel 158D
 (cont.) L3 158 CID BORE - 106.68mm/4.20"

PART		PART NO.	NOTES
Valve	Int	01654	1.805 Head Diameter, OEM # D3NN6507A
	Exh	01653	1.500 Head Diameter, OEM # D3NN6505A
		01695S	1.510 Head Diameter, Stellite Face, Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type, OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D., 3.969 Length, 0.6275 O.D., Universal
Spring	Both	160-1211	2.390 Length, From 1991
		160-1212	2.208 Length, OEM # D6NN6513A, To 1991

10 158 C.I., (2.6L), LPG 158LP
 L3 158 CID BORE - 106.68mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D., 1.650 I.D., 0.3000 Depth, Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D., 1.645 I.D., 0.2500 Depth, +20 O/S Available, OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D., 1.340 I.D., 0.3000 Depth, +20 O/S Available, OEM # C9NN6057J
		SB1630E-1N	1.630 O.D., 1.335 I.D., 0.3120 Depth, Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter, OEM # D3NN6507A
	Exh	01653	1.500 Head Diameter, OEM # D3NN6505A
		01695S	1.510 Head Diameter, Stellite Face, Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type, OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D., 3.969 Length, 0.6275 O.D., Universal
Spring	Both	160-1211	2.390 Length, From 1991
		160-1212	2.208 Length, OEM # D6NN6513A, To 1991

11 172 C.I., (2.8L), LPG, 1955-64 172LP
 L4 172 CID BORE - 99.06mm/3.90"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-2	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1625-11+006	1.636 O.D., 1 ¹¹ / ₃₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	00376	1.647 Head Diameter, OEM # EBU6507A
	Exh	00348	1.510 Head Diameter, OEM # EAF6505D
Keeper	Int	121-1003	1 SQ Bead Type, OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type, Tapered Groove, OEM # EAM6518A
Stem Seal	Both	122-1032	Umbrella Type, Poly Material, Umbrella Style, OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D., 2.470 Length, 0.7515 O.D., OEM # EAF6510C
Spring	Both	160-1120	2.222 Length, OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

12 172 C.I., (2.8L), Gas, 1955-64 172G
 L4 172 CID BORE - 99.06mm/3.90"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-2	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	SB1625-11+006	1.636 O.D., 1 ¹¹ / ₃₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	00376	1.647 Head Diameter, OEM # EBU6507A
	Exh	00348	1.510 Head Diameter, OEM # EAF6505D
Keeper	Int	121-1003	1 SQ Bead Type, OEM # 7HA6518
	Exh	121-1065	No Bead Bead Type, Tapered Groove, OEM # EAM6518A
Stem Seal	Both	122-1032	Umbrella Type, Poly Material, Umbrella Style, OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D., 2.470 Length, 0.7515 O.D., OEM # EAF6510C

(Cont'd) FORD / TRACTOR**172 C.I., (2.8L), Gas, 1955-64**

L4 172 CID

172G **12**

BORE - 99.06mm/3.90" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

172 C.I., (2.8L), Kerosene, 1955-64

L4 172 CID

172K **13**

BORE - 99.06mm/3.90"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-2 SB1625-11+006	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth 1.636 O.D.,1 ¹¹ / ₃₂ I.D., ⁷ / ₃₂ Depth
Valve	Int Exh	00376 00348	1.647 Head Diameter,OEM # EBU6507A 1.510 Head Diameter,OEM # EAF6505D
Keeper	Int Exh	121-1003 121-1065	1 SQ Bead Type,OEM # 7HA6518 No Bead Bead Type,Tapered Groove,OEM # EAM6518A
Stem Seal	Both	122-1032	Umbrella Type,Poly Material,Umbrella Style,OEM # C3AE6571B
Guide	Both	140-1726	0.3437 I.D.,2.470 Length,0.7515 O.D.,OEM # EAF6510C
Spring	Both	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

172 C.I., (2.8L), Diesel, 1958-64

L4 172 CID

172D **14**

BORE - 99.06mm/3.90"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1812-5 SB1625-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,+30 O/S Available, Also Available In Non-Magnetic (N) Material 1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	00609 00608	1.647 Head Diameter,OEM # 31650 1.510 Head Diameter,OEM # 310651
Keeper	Int Exh	121-1003 121-1065	1 SQ Bead Type,OEM # 7HA6518 No Bead Bead Type,Tapered Groove,OEM # EAM6518A
Stem Seal	Both	122-1032	Umbrella Type,Poly Material,Umbrella Style,OEM # C3AE6571B
Guide	Int Exh	140-1966 140-1726	0.3440 I.D.,2.938 Length,0.7513 O.D.,OEM # 311411 0.3437 I.D.,2.470 Length,0.7515 O.D.,OEM # EAF6510C
Spring	Both	160-1120	2.222 Length,OEM # EAA6513A, W/O Rotator
Lifter	Both	VL21	Mechanical Type
Push Rod	Both	190-1222	9.602 Length

175 C.I., (2.8L)

L3 175 CID

175 **15**

BORE - 106.68mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1900E-1 SB1900E-2 SB1600E-1 SB1630E-1N	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth 1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A 1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J 1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int Exh	01654 01653 01695S	1.805 Head Diameter,OEM # D3NN6507A 1.500 Head Diameter,OEM # D3NN6505A 1.510 Head Diameter,Stellite Face,Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal

FORD / TRACTOR (Cont'd)

15 175 C.I., (2.8L) 175
 (cont.) L3 175 CID BORE - 106.68mm/4.20"

PART		PART NO.	NOTES
Spring	Both	160-1211	2.390 Length, From 1991
		160-1212	2.208 Length, OEM # D6NN6513A, To 1991

16 192 C.I., (3.1L), Diesel 192D
L3 192 CID BORE - 111.7mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D., 1.650 I.D., 0.3000 Depth, Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D., 1.645 I.D., 0.2500 Depth, +20 O/S Available, OEM # D4NN6056A, Exc. Turbo
	Exh	SB1900E-3	1.900 O.D., 1.650 I.D., 0.2200 Depth, OEM # D4NN6056A, Turbo
		SB1600E-1	1.600 O.D., 1.340 I.D., 0.3000 Depth, +20 O/S Available, OEM # C9NN6057J, Thin Margin Valve, 0.050"
		SB1630E-1N	1.630 O.D., 1.335 I.D., 0.3120 Depth, Alternate +30 O/S W/ Larger Depth, Includes Turbo
Valve	Int	01654	1.805 Head Diameter, OEM # D3NN6507A, Except Turbo
		01694	1.842 Head Diameter, OEM # D8NN6507AA, Turbo
	Exh	01653	1.500 Head Diameter, OEM # D3NN6505A
		01695S	1.510 Head Diameter, Stellite Face, OEM # D8NN6505AA, Turbo, Thick Margin Valve, 0.070"
Keeper	Both	121-1007	1 SQ Bead Type, OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D., 3.969 Length, 0.6275 O.D., Universal
Spring	Both	160-1211	2.390 Length, From 1991
		160-1212	2.208 Length, OEM # D6NN6513A, To 1990

17 192 C.I., (3.1L), Gas 192G
L3 192 CID BORE - 111.7mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D., 1.650 I.D., 0.3000 Depth, Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D., 1.645 I.D., 0.2500 Depth, +20 O/S Available, OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D., 1.340 I.D., 0.3000 Depth, +20 O/S Available, OEM # C9NN6057J
		SB1630E-1N	1.630 O.D., 1.335 I.D., 0.3120 Depth, Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter, OEM # D3NN6507A
		01653	1.500 Head Diameter, OEM # D3NN6505A
	Exh	01695S	1.510 Head Diameter, Stellite Face, Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type, OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D., 3.969 Length, 0.6275 O.D., Universal
Spring	Both	160-1211	2.390 Length, From 1991
		160-1212	2.208 Length, OEM # D6NN6513A, To 1991

18 201 C.I., (3.3L), Gas 201G
L3 201 CID BORE - 111.76mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D., 1.650 I.D., 0.3000 Depth, Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D., 1.645 I.D., 0.2500 Depth, +20 O/S Available, OEM # D4NN6056A
	Exh	SB1630E-1	1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	01654	1.805 Head Diameter, OEM # D3NN6507A
		01653	1.500 Head Diameter, OEM # D3NN6505A
	Exh	01695S	1.510 Head Diameter, Stellite Face, Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type, OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D., 3.969 Length, 0.6275 O.D., Universal
Spring	Both	160-1211	2.390 Length, From 1991

(Cont'd) FORD / TRACTOR

201 C.I., (3.3L), Gas **201G 18**
 L3 201 CID **BORE - 111.76mm/4.40" (cont.)**

PART		PART NO.	NOTES
Spring	Both	160-1212	2.208 Length,OEM # D6NN6513A, To 1990

201 C.I., (3.3L), Diesel **201D 19**
 L3 201 CID **BORE - 111.76mm/4.40"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter,OEM # C5NN6507B
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1991
		160-1212	2.208 Length,OEM # D6NN6513A, To 1990

220 C.I., (3.6L), Diesel **220D 20**
 L4 220 CID **BORE - 100mm/3.9375"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	17/8 O.D.,19/16 I.D.,7/32 Depth
	Exh	SB1750-7	13/4 O.D.,13/8 I.D.,7/32 Depth,Universal Size Seat For Head W/O OEM Seat

223 C.I., (3.7L), 12 Valve, 1958-71 **223 21**
 L6 223 CID **BORE - 92mm/3.60"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	13/4 O.D.,11/2 I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Guide	Both	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
Push Rod	Both	190-1222	9.602 Length

233 C.I., (3.8L), Gas **233G 22**
 L4 233 CID **BORE - 106.68mm/4.20"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter,OEM # D3NN6507A
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1991
		160-1212	2.208 Length,OEM # D6NN6513A, To 1991

233 C.I., (3.8L), Diesel **233D 23**
 L4 233 CID **BORE - 106.68mm/4.20"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth

FORD / TRACTOR (Cont'd)

23 233 C.I., (3.8L), Diesel

233D

(cont.)

L4 233 CID

BORE - 106.68mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-2	1.900 O.D., 1.645 I.D., 0.2500 Depth, +20 O/S Available, OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D., 1.340 I.D., 0.3000 Depth, +20 O/S Available, OEM # C9NN6057J
		SB1630E-1N	1.630 O.D., 1.335 I.D., 0.3120 Depth, Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter, OEM # C5NN6507B
	Exh	01653	1.500 Head Diameter, OEM # D3NN6505A
		01695S	1.510 Head Diameter, Stellite Face, Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type, OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D., 3.969 Length, 0.6275 O.D., Universal
Spring	Both	160-1211	2.390 Length, From 1991
		160-1212	2.208 Length, OEM # D6NN6513A, To 1991

24 242 C.I., (4.0L), Diesel 12 Valve, 1961-71

242

L6 242 CID

BORE - 92mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-3	1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-4	1 ⁷ / ₁₆ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth

25 256 C.I., (4.2L), Diesel

256D

L4 256 CID

BORE - 111.76mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D., 1.650 I.D., 0.3000 Depth, Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D., 1.645 I.D., 0.2500 Depth, +20 O/S Available, OEM # D4NN6056A, Exc. Turbo
	Exh	SB1900E-3	1.900 O.D., 1.650 I.D., 0.2200 Depth, OEM # D4NN6056A, Turbo
		SB1600E-1	1.600 O.D., 1.340 I.D., 0.3000 Depth, +20 O/S Available, OEM # C9NN6057J, Thin Margin Valve, 0.050"
		SB1630E-1N	1.630 O.D., 1.335 I.D., 0.3120 Depth, Alternate +30 O/S W/ Larger Depth, Includes Turbo
Valve	Int	01654	1.805 Head Diameter, OEM # D3NN6507A, Except Turbo
	Exh	01694	1.842 Head Diameter, OEM # D8NN6507AA, Turbo
		01653	1.500 Head Diameter, OEM # D3NN6505A
		01695S	1.510 Head Diameter, Stellite Face, OEM # D8NN6505AA, Turbo, Thick Margin Valve, 0.070"
Keeper	Both	121-1007	1 SQ Bead Type, OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D., 3.969 Length, 0.6275 O.D., Universal
Spring	Both	160-1211	2.390 Length, From 1991
		160-1212	2.208 Length, OEM # D6NN6513A, To 1990

26 256 C.I., (4.2L), Gas

256G

L4 256 CID

BORE - 111.76mm/4.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D., 1.650 I.D., 0.3000 Depth, Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D., 1.645 I.D., 0.2500 Depth, +20 O/S Available, OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D., 1.340 I.D., 0.3000 Depth, +20 O/S Available, OEM # C9NN6057J
		SB1630E-1N	1.630 O.D., 1.335 I.D., 0.3120 Depth, Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter, OEM # D3NN6507A
	Exh	01653	1.500 Head Diameter, OEM # D3NN6505A
		01695S	1.510 Head Diameter, Stellite Face, OEM # D8NN6505AA, Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type, OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D., 3.969 Length, 0.6275 O.D., Universal
Spring	Both	160-1211	2.390 Length, From 1991

(Cont'd) FORD / TRACTOR

256 C.I., (4.2L), Gas **256G 26**
 L4 256 CID **BORE - 111.76mm/4.40" (cont.)**

PART		PART NO.	NOTES
Spring	Both	160-1212	2.208 Length,OEM # D6NN6513A, To 1990

268 C.I., (4.2L), Diesel, 268NA, 268T **268D 27**
 L4 268 CID **BORE - 111.76mm/4.40"**

PART		PART NO.	NOTES
Valve	Int	01654	1.805 Head Diameter,OEM #D3NN6507A
		01694	1.842 Head Diameter,OEM # D8NN6507AA
	Exh	01695S	1.510 Head Diameter,Stellite Face,OEM # D8NN6505AA
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.
Spring	Both	160-1212	2.208 Length,OEM # D6NN6513A

330 C.I., (5.4L), Diesel 12 Valve **330 28**
 L6 330 CID **BORE - 100mm/3.9375"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth
	Exh	SB1750-7	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Head W/O OEM Seat

401 C.I., (6.6L), Diesel 12 Valve **401 29**
 L6 401 CID **BORE - 111.76mm/4.40"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01654	1.805 Head Diameter,OEM # C5NN6507B, Except Turbo
	Exh	01653	1.500 Head Diameter,OEM # D3NN6505A
		01695S	1.510 Head Diameter,Stellite Face,OEM # D8NN6505AA, Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1990
		160-1212	2.208 Length,OEM # D6NN6513A, To 1990

401 C.I., (6.6L), Turbo Diesel 12 Valve **401T 30**
 L6 401 CID **BORE - 111.76mm/4.40"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1900E-1	1.900 O.D.,1.650 I.D.,0.3000 Depth,Alternate W/ Larger Depth
		SB1900E-2	1.900 O.D.,1.645 I.D.,0.2500 Depth,+20 O/S Available,OEM # D4NN6056A
		SB1900E-3	1.900 O.D.,1.650 I.D.,0.2200 Depth,OEM # D4NN6056A
	Exh	SB1600E-1	1.600 O.D.,1.340 I.D.,0.3000 Depth,+20 O/S Available,OEM # C9NN6057J
		SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,Alternate +30 O/S W/ Larger Depth
Valve	Int	01694	1.842 Head Diameter,OEM # D8NN6507AA
	Exh	01695S	1.510 Head Diameter,Stellite Face,OEM # D8NN6505AA, Thick Margin Valve
Keeper	Both	121-1007	1 SQ Bead Type,OEM # F2NN6518AA
Guide	Both	140-6905	0.3750 I.D.,3.969 Length,0.6275 O.D.,Universal
Spring	Both	160-1211	2.390 Length,From 1990
		160-1212	2.208 Length,OEM # D6NN6513A, To 1990

FORD / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
4 Cylinder		
81 C.I., (1.3L), SOHC, GAS, CARB, FI, 8 Valve, Vin H, K (1988-97)	Aspire, Festiva	1
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6 "Turbo Mazda" (1991-94)	Capri	2
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Z "Mazda" (1991-94)	Capri	3
1598cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin 5 "B6 Mazda" (1988-89)	Tracer	4
98 C.I., (1.6L), OHV, GAS, CARB, Vin L, W (1971-73)	Capri, Pinto	5
98 C.I., (1.6L), OHV, GAS, CARB, 8 Valve (1978-80)	Fiesta	6
98 C.I., (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 2 (1981-85)	Escort, EXP, LN7, Lynx	7
1836cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8 "Mazda" (1991-96)	Escort, Tracer	8
116 C.I., (1.9L), SOHC, GAS, CARB, 8 Valve, Vin 9 (1985-86)	Escort, EXP, Lynx	9
116 C.I., (1.9L), SOHC, GAS, FI, 8 Valve, Vin 9, J (1987-96)	Escort, EXP, Lynx, Tracer	10
121 C.I., (2.0L), DOHC, BI-FUEL, GAS, FI, 16 Valve, Vin 3, Z "ZETEC" (1995-04)	Contour, Cougar, Escort, Focus, Mystique	11
121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 5 " ZETEC SVT " (2002-04)	Focus SVT	12
121 C.I., (2.0L), DOHC, FLEX, GAS, FI, 16 Valve, Vin 2, N "DURATEC" (2005-17)	Focus	13
122 C.I., (2.0L), SOHC, GAS, CARB, Vin X (1971-74)	Capri, Mustang II, Pinto	14
1989cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A "Mazda" (1993-97)	Probe	15
122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin P (1997-04)	Escort, Focus, Tracer	16
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 9 "Ecoboost" (2013-17)	Focus, Fusion, MKZ, Special Service Police Sedan, Taurus	17
122 C.I., (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin U "Hybrid" (2013-17)	C-Max, Fusion, MKZ	18
2180cc, (2.2L), SOHC, GAS, FI, 12 Valve, Vin C "Mazda" (1989-92)	Probe	19
2184cc, (2.2L), SOHC, GAS, FI, 12 Valve, Vin L "Turbo Mazda" (1989-92)	Probe GT	20
140 C.I., (2.3L), SOHC, GAS, CARB, Vin A, Y (1974-85)	Bobcat, Capri, Cougar, Fairmont, Granada, LTD, Marquis, Mustang, Mustang II, Pinto, Zephyr	21
140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin T, W "Turbo" (1983-88)	Capri, Cougar, Mustang, Thunderbird, XR4Ti	22
140 C.I., (2.3L), OHV, GAS, CARB, 8 Valve, Vin R "HSC" (1984-84)	Tempo, Topaz	23
140 C.I., (2.3L), OHV, GAS, FI, 8 Valve, Vin S, X "HSC" (1985-94)	Tempo, Topaz	24
140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin A, M (1987-93)	Mustang	25
140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin Z "DURATEC" (2004-09)	Focus, Fusion, Milan	26
140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin H, "Ecoboost" (2015-17)	Focus, Mustang	27
152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin A (2010-12)	Fusion, Milan	30
152 C.I., (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 3 "Hybrid" (2010-12)	Fusion, Milan, MKZ	31

(Cont'd) FORD / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin 7 "DURATEC / i-VCT" (2013-16)	Fusion	32
153 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin D "HSC" (1986-91)	Sable, Taurus	33
200 C.I., (3.3L), GAS, CARB, "Model A" (1928-31)	Model A	46
200 C.I., (3.3L), GAS, CARB, "Model B" (1932-34)	Model B	47
6 Cylinder		
144 C.I., (2.4L), OHV, GAS, CARB, 12 Valve, Vin D, S (1960-64)	Country Sedan, Country Squire, Falcon, Ranch Wagon	28
2450cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin B "Mazda KL" (1993-97)	Probe	29
155 C.I., (2.5L), DOHC, GAS, FI, 24 Valve, Vin G, L "DURATEC" (1995-02)	Contour, Cougar, Mystique	34
156 C.I., (2.6L), OHV, GAS, CARB, 12 Valve, Vin U (1972-73)	Capri	35
164 C.I., (2.7L), DOHC, GAS, FI, 24 Valve, Vin P "Ecoboost" (2017-17)	Continental, Fusion	36
170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin U (1961-72)	Comet, Country Sedan, Country Squire, Fairlane, Falcon, Maverick, Meteor, Mustang, Ranch Wagon, Sprint, Villager, Voyager	37
171 C.I., (2.8L), OHV, GAS, CARB, Vin Z (1974-79)	Bobcat, Capri, Mustang, Mustang II, Pinto	38
177 C.I., (2.9L), OHV, GAS, FI, 12 Valve, Vin V "Merkur" (1988-89)	Scorpio	39
2984cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 1, W "VG30E Nissan" (1993-98)	Villager	40
181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin S "Lincoln LS" DURATEC (2000-05)	Lincoln LS	41
181 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, G, S, "DURATEC" (1996-12)	Five Hundred, Freestyle, Fusion, Milan, Montego, Sable, Taurus	42
182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin 1, 2, U "VULCAN" (1986-07)	Probe, Sable, Taurus, Tempo, Topaz	43
182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin Y "Yamaha SHO" (1989-95)	Taurus	44
195 C.I., (3.2L), DOHC, GAS, FI, 24 Valve, Vin P "Yamaha SHO" (1993-95)	Taurus	45
200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin B, T, X (1963-83)	300, Country Sedan, Country Squire, Fairlane, Fairmont, Falcon, Ford 300, Galaxie, Galaxie 500, Granada, LTD, Maverick, Mustang, Ranch Wagon, Sprint, Thunderbird, Torino	48
213 C.I., (3.5L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 8, C, T, W "DURATEC" (2007-17)	Fusion, MKZ, Police Interceptor Sedan, Sable, Taurus, Taurus X	49
213 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, Vin T "Ecoboost" (2010-17)	MKS, Police Interceptor Sedan, Taurus	50
223 C.I., (3.7L), GAS, CARB (1954-64)	Fairlane, Galaxie, Galaxie 500, Meteor	52
227 C.I., (3.7L), DOHC, FLEX, GAS, FI, 24 Valve, Vin K, M, R "DURATEC" (2009-17)	Continental, MKS, MKZ, Mustang, Police Interceptor Sedan	53
232 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 3 (1982-83)	Capri, Cougar, Granada, LTD, Marquis, Mustang, Thunderbird	54
232 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 3, 4 (1984-04)	Capri, Continental, Cougar, LTD, Marquis, Mustang, Sable, Taurus, Thunderbird	55

FORD / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
6 Cylinder		
240 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin B, E, V (1965-72)	Country Sedan, Country Squire, Custom, Custom 500, Galaxie, Galaxie 500, LTD, Ranch Wagon	58
245 C.I., (4.0L), SOHC, GAS, FI, 12 Valve, Vin N (2005-10)	Mustang	60
250 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin C, L (1969-80)	Comet, Country Sedan, Country Squire, Fairlane, Falcon, Gran Torino, Granada, Maverick, Monarch, Montego, Mustang, Ranch Wagon, Torino	61
8 Cylinder		
221 C.I., (3.6L), OHV, GAS, CARB, 16 Valve, Vin L (1962-63)	Country Sedan, Country Squire, Fairlane, Falcon, Ranch Wagon, Sprint	51
239 C.I., (3.9L), L-HEAD, GAS, CARB, 16 Valve, Vin B "L-HEAD" (1949-53)	Club, Country Sedan, Country Squire, Crestline, Custom, Customline, Deluxe, Ford, Mainline, Ranch Wagon, Sunliner, Victoria	56
239 C.I., (3.9L), OHV, GAS, CARB, 16 Valve (1954-54)	Club, Country Sedan, Country Squire, Crestline, Customline, Mainline, Ranch Wagon, Skyliner, Sunliner, Victoria	57
242 C.I., (3.9L), DOHC, GAS, FI, 32 Valve, Vin A (2000-06)	LS, Thunderbird	59
255 C.I., (4.2L), OHV, GAS, CARB, 16 Valve, Vin D (1980-82)	Capri, Cougar, Fairmont, Granada, Grand Marquis, LTD, Marquis, Monarch, Mustang, Thunderbird, Zephyr	62
260 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin F (1962-64)	300, Caliente, Comet, Country Cruiser, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Fairlane, Falcon, Ford 300, Galaxie, Galaxie 500, Meteor, Mustang, Ranch Wagon, Sprint, Villager	63
272 C.I., (4.5L), OHV, GAS, CARB, 16 Valve (1955-57)	Club, Country Sedan, Country Squire, Custom, Custom 300, Customline, Del Rio Wagon, Fairlane, Mainline, Park Lane Wagon, Ranch Wagon, Skyliner, Sunliner, Thunderbird, Victoria	64
281 C.I., (4.6L), SOHC, CNG, FLEX, GAS, FI, 16 Valve, Vin 6, 9, V, W (1992-11)	Cougar, Crown Victoria, Grand Marquis, Thunderbird, Town Car	65
281 C.I., (4.6L), SOHC, GAS, FI, 16 Valve, Vin X (1996-04)	Mustang GT	66
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin R, V "In Tech" (1993-04)	Continental, Marauder, Mark VIII, Mustang	67
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin Y "Supercharged" (2003-04)	Mustang SVT Cobra	68
281 C.I., (4.6L), SOHC, GAS, FI, 24 Valve, Vin H (2005-10)	Mustang	69
289 C.I., (4.7L), OHV, GAS, CARB, 16 Valve, Vin A, C, D, K (1963-68)	300, Caliente, Capri, Comet, Commuter, Cougar, Country Cruiser, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Fairlane, Falcon, Ford 300, Galaxie, Galaxie 500, GT40, LTD, Meteor, Montego, Mustang, Ranch Wagon, Sprint, Villager, Voyager	70
292 C.I., (4.8L), OHV, GAS, CARB, 16 Valve (1955-62)	Club, Colony Park, Commuter, Country Sedan, Country Squire, Custom, Custom 300, Customline, Del Rio Wagon, Fairlane, Galaxie, Galaxie 500, Mainline, Meteor, Montclair, Monterey, Park Lane Wagon, Ranch Wagon, Skyliner, Starliner, Sunliner, Thunderbird, Victoria	71
302 C.I., (5.0L), OHV, GAS, CARB, Vin F (1968-82)	Capri, Comet, Continental, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Fairlane, Fairmont, Falcon, Galaxie 500, Gran Torino, Granada, Grand Marquis, LTD, LTD II, Marquis, Maverick, Monarch, Montego, Mustang, Mustang II, Ranch Wagon, Thunderbird, Torino, Versailles, Zephyr	72

(Cont'd) FORD / PASSENGER CAR

Engine	Models	Line No.
8 Cylinder		
302 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin E, F, T (1982-95)	Capri, Colony Park, Continental, Cougar, Country Squire, Grand Marquis, LTD, LTD Crown Victoria, Mark VI, Mark VII, Mustang, Thunderbird, Town Car	73
302 C.I., (5.0L), DOHC, GAS, FI, 32 Valve, Vin F (2011-17) .	Mustang	74
302 C.I., (5.0L), DOHC, GAS, FI, 32 Valve, Vin U "BOSS" (2012-13)	Mustang Boss 302	75
312 C.I., (5.1L), OHV, GAS, CARB, 16 Valve (1956-60)	Club, Colony Park, Commuter, Country Cruiser, Country Sedan, Country Squire, Custom, Custom 300, Customline, Del Rio Wagon, Fairlane, Mainline, Medalist, Montclair, Monterey, Park Lane, Park Lane Wagon, Ranch Wagon, Skyliner, Sunliner, Thunderbird, Victoria, Voyager	76
330 C.I., (5.4L), DOHC, GAS, FI, 32 Valve, Vin S "Supercharged" (2005-12)	GT, Mustang	77
332 C.I., (5.4L), OHV, GAS, CARB, 16 Valve (1958-59)	Club, Country Sedan, Country Squire, Custom 300, Del Rio Wagon, Fairlane, Galaxie, Ranch Wagon, Skyliner, Sunliner, Thunderbird, Victoria	78
351 C.I., (5.8L), OHV, GAS, CARB, Vin G, H, M "Windsor" (1969-91)	Colony Park, Comet, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Elite, Fairlane, Falcon, Galaxie 500, Gran Torino, Granada, Grand Marquis, LTD, LTD Crown Victoria, LTD II, Marquis, Monarch, Montego, Monterey, Mustang, Ranch Wagon, Thunderbird, Torino, Versailles	79
351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin H, Q, R "Cleveland" (1972-74)	Colony Park, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Galaxie 500, Gran Torino, LTD, Marquis, Montego, Monterey, Mustang, Ranch Wagon, Torino	80
351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin H "Modified" (1975-79)	Cougar, Custom 500, Elite, Gran Torino, Grand Marquis, LTD, LTD II, Marquis, Montego, Thunderbird, Torino	81
352 C.I., (5.8L), OHV, GAS, CARB, 16 Valve (1958-66)	300, Club, Colony Park, Commuter, Country Sedan, Country Squire, Custom, Custom 300, Custom 500, Del Rio Wagon, Fairlane, Ford 300, Galaxie, Galaxie 500, LTD, Meteor, Monterey, P-350, Ranch Wagon, Skyliner, Starliner, Sunliner, Thunderbird, Victoria	82
355 C.I., (5.8L), DOHC, GAS, FI, 32 Valve, Vin Z "Supercharged" (2013-14)	Mustang Shelby GT	83
361 C.I., (5.9L), OHV, GAS, CARB (1958-60)	Full Size	84
390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin 9, H, M, P, Q, R, S, X, Y, Z (1961-71)	300, Brougham, Caliente, Capri, Colony Park, Comet, Commuter, Cougar, Country Cruiser, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Fairlane, Ford 300, Galaxie, Galaxie 500, LTD, Marauder, Marquis, Meteor, Montclair, Montego, Monterey, Mustang, Park Lane, Ranch Wagon, Thunderbird, Torino, Villager, Voyager	85
400 C.I., (6.6L), OHV, GAS, CARB, Vin S (1971-79)	Colony Park, Continental, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Elite, Galaxie 500, Gran Torino, Grand Marquis, LTD, LTD II, Mark V, Marquis, Montego, Monterey, Ranch Wagon, Thunderbird, Torino	86
406 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin B, G (1962-63)	300, Colony Park, Commuter, Country Sedan, Country Squire, Ford 300, Galaxie, Galaxie 500, Marauder, Monterey, Ranch Wagon, Thunderbird	87
410 C.I., (6.7L), OHV, GAS, CARB, 16 Valve, Vin M (1966-67)	Brougham, Colony Park, Commuter, Marauder, Marquis, Montclair, Monterey, Park Lane	88

FORD / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
8 Cylinder		
428 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin P, Q, R (1966-70)	Brougham, Colony Park, Comet, Commuter, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Fairlane, Galaxie, Galaxie 500, LTD, Marauder, Marquis, Montclair, Montego, Monterey, Mustang, Park Lane, Ranch Wagon, Thunderbird, Torino	89
429 C.I., (7.0L), OHV, GAS, CARB, Vin C, J, K, N, P, Z (1968-73)	Colony Park, Comet, Continental, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Cyclone, Fairlane, Falcon, Galaxie 500, Gran Torino, LTD, Marauder, Marquis, Montego, Monterey, Mustang, Ranch Wagon, Thunderbird, Torino	90
460 C.I., (7.5L), OHV, GAS, CARB, Vin A, C (1968-78)	Colony Park, Continental, Cougar, Country Sedan, Country Squire, Custom, Custom 500, Elite, Galaxie 500, Gran Torino, Grand Marquis, LTD, Mark III, Mark IV, Mark V, Marquis, Montego, Monterey, Ranch Wagon, Thunderbird, Torino	91

1 81 C.I., (1.3L), SOHC, GAS, CARB, FI, 8 Valve, Vin H, K **FOC1.3**
1988-97 **L4 81 CID** **BORE - 71mm/2.80"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-97	SB1375-51	1 $\frac{3}{8}$ O.D., 1.060T I.D., 0.2800 Depth
	Exh	1988-97	SB1250-52	1 $\frac{1}{4}$ O.D., 0.910T I.D., 0.2850 Depth
Valve	Int	1988-97	10118	1.261 Head Diameter
	Exh	1988-97	10153	1.103 Head Diameter
Stem Seal	Both	1988-97	122-1149	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1988-97	140-8036	0.2765 I.D., 1.970 Length, 0.4745 O.D., W/ Snap Ring
Lifter	Both	1988-97	VL146	Hydraulic Lash Adjuster Type

2 1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6 "Turbo Mazda" **FOC1.6-6**
1991-94 **L4 98 CID** **BORE - 78mm/3.07"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-94	SB1250-61	1 $\frac{1}{4}$ O.D., 0.976 I.D., 0.1800 Depth
	Exh	1991-94	SB1062-50	1 $\frac{1}{16}$ O.D., 0.790 I.D., 0.2540 Depth
Valve	Int	1991-94	10157	1.220 Head Diameter
	Exh	1991-94	10159	1.031 Head Diameter, Inconel
Stem Seal	Both	1991-94	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1991-94	140-8187	0.2371 I.D., 1.920 Length, 0.4355 O.D., W/ Snap Ring, Tapered End
	Exh	1991-94	140-8186	0.2371 I.D., 1.920 Length, 0.4355 O.D., W/ Snap Ring
Lifter	Both	1991-94	VL149	Hydraulic Bucket Type

3 1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Z "Mazda" **FOC1.6-Z**
1991-94 **L4 98 CID** **BORE - 78mm/3.07"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-94	SB1250-61	1 $\frac{1}{4}$ O.D., 0.976 I.D., 0.1800 Depth
	Exh	1991-94	SB1062-50	1 $\frac{1}{16}$ O.D., 0.790 I.D., 0.2540 Depth
Valve	Int	1991-94	10157	1.220 Head Diameter
	Exh	1991-94	10159	1.031 Head Diameter, Inconel
Guide	Int	1991-94	140-8187	0.2371 I.D., 1.920 Length, 0.4355 O.D., W/ Snap Ring, Tapered End
	Exh	1991-94	140-8186	0.2371 I.D., 1.920 Length, 0.4355 O.D., W/ Snap Ring
Lifter	Both	1991-94	VL149	Hydraulic Bucket Type

(Cont'd) FORD / PASSENGER CAR**1598cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin 5 "B6 Mazda"**
1988-89 L4 98 CIDFOCB6 **4**
BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-89	SB1625-54	1 $\frac{1}{8}$ O.D., 1.329 I.D., 0.2800 Depth
	Exh	1988-89	SB1437-66	1 $\frac{7}{16}$ O.D., 1.120 I.D., 0.3000 Depth
Stem Seal	Both	1988-89	122-1149	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1988-89	140-8205	0.2755 I.D., 1.990 Length, 0.4745 O.D., W/ Snap Ring
Lifter	Both	1988-89	VL146	Hydraulic Lash Adjuster Type

98 C.I., (1.6L), OHV, GAS, CARB, Vin L, W
1971-73 L4 98 CIDFOC1.6L-W **5**
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1971-73	SB1562-5	1 $\frac{1}{16}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth
	Exh	1971-73	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, Also Available Non-Magnetic (N) Material
Stem Seal	Both	1971-73	122-1039	Positive Type, Poly Material, 1-Spring Style
		1971-73	122-1206	Positive Type, Viton Material, Top Hat Style
Guide	Both	1971-73	140-7205	0.3120 I.D., 2.000 Length, 0.5020 O.D.
		1971-73	140-9205	0.3120 I.D., 2.000 Length, 0.5020 O.D.
Spring	Both	1971-73	160-1005	1.480 Length

98 C.I., (1.6L), OHV, GAS, CARB, 8 Valve
1978-80 L4 98 CIDFOC1.6F **6**
BORE - 76.9mm/3.03"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-80	SB1437-1	1 $\frac{7}{16}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth
	Exh	1978-80	SB1375-1	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth, Also Available Non-Magnetic (N) Material
Stem Seal	Both	1978-80	122-1039	Positive Type, Poly Material, 1-Spring Style
		1978-80	122-1206	Positive Type, Viton Material, Top Hat Style
Guide	Both	1978-80	140-7205	0.3120 I.D., 2.000 Length, 0.5020 O.D.
		1978-80	140-9205	0.3120 I.D., 2.000 Length, 0.5020 O.D.
Spring	Both	1978-80	160-1005	1.480 Length

98 C.I., (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 2
1981-85 L4 98 CIDFOC1.6-2 **7**
BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-85	SB1750-60	1 $\frac{3}{4}$ O.D., 1.437T I.D., 0.3020 Depth
	Exh	1981-85	SB1562-54	1 $\frac{9}{16}$ O.D., 1.220T I.D., 0.3440 Depth
Valve	Int	1981-85	01452	1.654 Head Diameter
	Exh	1981-85	01451	1.457 Head Diameter
Keeper	Both	1981-85	121-1024	3 RD Bead Type
Stem Seal	Both	1981-85	122-1039	Positive Type, Poly Material, 1-Spring Style
		1981-85	122-1206	Positive Type, Viton Material, Top Hat Style
Guide	Both	1981-85	140-7822	0.3175 I.D., 2.525 Length, 0.5348 O.D., Use 140-7822 If Concentricity of Original Guide is Within .002 - NOTE: Check Bore Size After Removal Of Old Guide, +2 O/S Available
Lifter	Both	1981-85	VL86	Hydraulic Type
Rocker Components	Both	1981-85	181-1008	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Fulcrum, (1) 7mm Nut
Head Bolt Set		1981-85	220-1008	Torque To Yield, Services Engine
Head Saver Shim		1981-85	230-2009	New Hgt. - 5.0800; Min. Hgt. - 5.0550

FORD / PASSENGER CAR (Cont'd)

8 1836cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8 "Mazda"
1991-96 L4 112 CID

FOC1.8-8
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-96	SB1437-74	1 ⁷ / ₁₆ O.D., 1.162 I.D., 0.2300 Depth
	Exh	1991-96	SB1250-56	1 ¹ / ₄ O.D., 0.905T I.D., 0.2300 Depth
Valve	Int	1991-96	10234	1.298 Head Diameter
	Exh	1991-96	10235	1.103 Head Diameter
Stem Seal	Int	1994-96	122-1246	Positive Type, Viton Material, Metal Clad Style
	Exh	1994-96	122-1285	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1991-96	140-8173	0.2370 I.D., 1.775 Length, 0.4360 O.D., W/ Snap Ring
Lifter	Both	1991-96	VL149	Hydraulic Bucket Type
Head Saver Shim		1991-96	230-2011	New Hgt.- 5.2681 - 5.2759; Min. Hgt.- 5.2677

9 116 C.I., (1.9L), SOHC, GAS, CARB, 8 Valve, Vin 9
1985-86 L4 116 CID

FOC1.9-CA
BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-86	SB1750-60	1 ³ / ₄ O.D., 1.437T I.D., 0.3020 Depth
	Exh	1985-86	SB1562-54	1 ⁹ / ₁₆ O.D., 1.220T I.D., 0.3440 Depth
Valve	Int	1985-86	01452	1.654 Head Diameter
	Exh	1985-86	01451	1.457 Head Diameter
Keeper	Both	1985-86	121-1024	3 RD Bead Type
Guide	Both	1985-86	140-7822	0.3175 I.D., 2.525 Length, 0.5348 O.D., Use 140-7822 If Concentricity of Original Guide is Within .002 - Check Bore Size After Removal Of Old Guide, +2 O/S Available
Spring	Int	1985-86	160-1080	1.878 Length
Lifter	Both	1985-86	VL86	Hydraulic Type
Rocker Components	Both	1985-86	181-1008	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Fulcrum, (1) 7mm Nut
Head Bolt Set		1985-86	220-1008	Torque To Yield, Services Engine
Head Saver Shim		1985-86	230-2009	New Hgt.- 5.0800; Min. Hgt.- 5.0550

10 116 C.I., (1.9L), SOHC, GAS, FI, 8 Valve, Vin 9, J
1987-96 L4 116 CID

FOC1.9-FI
BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-96	SB1625-62	1 ⁵ / ₈ O.D., 1.320 I.D., 0.3000 Depth, 1987-90 CFI, 1991-94 EFI, 1995 U.S. Built Only, W/ 1.535 Valve Head Dia.
		1987-96	SB1750-60	1 ³ / ₄ O.D., 1.437T I.D., 0.3020 Depth, 1987-90 EFI, 1994 H.O., 1995-96 Mexico Built Only, W/ 1.654 Valve Head Dia.
	Exh	1987-96	SB1437-65	1 ⁷ / ₁₆ O.D., 1.105 I.D., 0.3220 Depth, 1987-90 CFI, 1991-94 EFI, 1995 U.S. Built Only, W/ 1.339 Valve Head Dia.
		1987-96	SB1562-54	1 ⁹ / ₁₆ O.D., 1.220T I.D., 0.3440 Depth, 1987-90 EFI, 1994 H.O., 1995-96 Mexico Built Only, 1.457 Valve Head Dia.
Valve	Int	1987-96	01452	1.654 Head Diameter, 1987-90 EFI, 1994 H.O., 1995-96 Mexico Built Only.
		1987-96	01546	1.535 Head Diameter, 1987-90 CFI, 1991-94 EFI, 1995-96 U.S. Built Only
	Exh	1987-96	01451	1.457 Head Diameter, 1987-90 EFI, 1994 H.O., 1995-96 Mexico Built Only.
		1987-96	01545	1.339 Head Diameter, 1987-90 CFI, 1991-94 EFI, 1995-96 U.S. Built Only
Keeper	Both	1987-96	121-1024	3 RD Bead Type
Stem Seal	Both	1992-96	122-1206	Positive Type, Viton Material, Top Hat Style

(Cont'd) FORD / PASSENGER CAR**116 C.I., (1.9L), SOHC, GAS, FI, 8 Valve, Vin 9, J**
1987-96 L4 116 CIDFOC1.9-FI **10**
BORE - 82mm/3.23" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both 1987-96	140-7822	0.3175 I.D.,2.525 Length,0.5348 O.D.,Use 140-7822 If Concentricity of Original Guide is Within .002 - Check Bore Size After Removal Of Old Guide, +2 O/S Available
Spring	Exh 1987-96	160-1080	1.878 Length,Incl. 1995-96 Mexico Built Eng.
Lifter	Both 1987-90 1987-96	VL86 VL113	Hydraulic Type Hydraulic Roller Type
Rocker Components	Both 1987-96	181-1008	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Fulcrum, (1) 7mm Nut
Head Bolt Set	1987-96	220-1008	Torque To Yield,Services Engine
Head Saver Shim	1991-96	230-2009	New Hgt.- 5.0800; Min. Hgt.- 5.0550

121 C.I., (2.0L), DOHC, BI-FUEL, GAS, FI, 16 Valve, Vin 3, Z "ZETEC"
1995-04 L4 121 CIDFOC2.0-3 **11**
BORE - 84.8mm/3.34"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1995-04	SB1339E-2	34mm O.D.,.26mm I.D.,.85mm Depth,Note: Adjustable Cutter Required Due To Insufficient Room Between Intake Seats
	Exh 1995-04	SB1187-51	1 ³ / ₁₆ O.D.,.0.905 I.D.,.0.2570 Depth
Valve	Int 1995-04	01745	1.260 Head Diameter,Includes Flex-Fuel Applications; NOTE: Except Focus SVT
	Exh 1995-04	01746	1.102 Head Diameter,Includes Flex-Fuel Applications; NOTE: Except Focus SVT
Keeper	Both 1995-04	121-1101	1 RD Bead Type
Stem Seal	Both 1995-04	122-1342	Positive Type,Viton Material,Top Hat Style
Guide	Both 1995-04	140-8662	0.2390 I.D.,1.420 Length,0.4727 O.D.
Spring	Int 1995-04	160-1580	1.694 Length,Conical
	Exh 1995-04	160-1581	1.691 Length,Conical
Head Bolt Set	1995-04	220-1121	Torque To Yield,Services Engine
Head Saver Shim	1995-04	230-2082	New Hgt.- 5.230 - 5.236; Min. Hgt 5.225

121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 5 " ZETEC SVT "
2002-04 L4 121 CIDFOC2.0-SVT **12**
BORE - 84.8mm/3.34"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2002-04	121-1101	1 RD Bead Type
Stem Seal	Both 2002-04	122-1342	Positive Type,Viton Material,Top Hat Style
Guide	Both 2002-04	140-8662	0.2390 I.D.,1.420 Length,0.4727 O.D.
Spring	Int 2002-04	160-1580	1.694 Length,Conical
	Exh 2002-04	160-1581	1.691 Length,Conical
Head Bolt Set	2002-04	220-1121	Torque To Yield

121 C.I., (2.0L), DOHC, FLEX, GAS, FI, 16 Valve, Vin 2, N "DURATEC"
2005-17 L4 121 CIDFOC2.0-N **13**
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES
Valve	Int 2005-16	02006	1.378 Head Diameter
	Exh 2005-11	02007	1.181 Head Diameter
Keeper	Both 2005-16	121-1104	1 RD Bead Type
Stem Seal	Int 2005-16	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh 2005-16	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both 2005-16	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both 2005-16	160-1568	1.908 Length,Conical

FORD / PASSENGER CAR (Cont'd)

13 121 C.I., (2.0L), DOHC, FLEX, GAS, FI, 16 Valve, Vin 2, N "DURATEC" FOC2.0-N
 (cont.) 2005-17 L4 121 CID BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES
Head Bolt Set	2005-12	220-1111	Torque To Yield,Services Engine
Head Saver Shim	2005-12	230-2144	New Hgt. - Min. Hgt. N/A

14 122 C.I., (2.0L), SOHC, GAS, CARB, Vin X FOC2.0-X
 1971-74 L4 122 CID BORE - 90.8mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1971-74	SB1750-3	1 $\frac{3}{4}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh 1971-74	SB1500-1	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1971-74	01200	1.654 Head Diameter
	Exh 1971-74	01199	1.417 Head Diameter
Keeper	Both 1971-74	121-1024	3 RD Bead Type
Stem Seal	Both 1971-74	122-1039	Positive Type, Poly Material, 1-Spring Style
Guide	Both 1971-74	140-9198	0.3174 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both 1971-74	160-1012	1.730 Length

15 1989cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A "Mazda" FOC2.0-A
 1993-97 L4 122 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int 1993-97	10562	1.240 Head Diameter
	Exh 1993-97	10563	1.089 Head Diameter
Stem Seal	Int 1994-97	122-1246	Positive Type, Viton Material, Metal Clad Style
	Exh 1994-97	122-1285	Positive Type, Viton Material, Metal Clad Style
	Both 1993-93	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both 1993-97	140-8561	0.2370 I.D., 1.490 Length, 0.4358 O.D., W/ Snap Ring
Lifter	Both 1993-97	VL149	Hydraulic Bucket Type
Head Bolt Set	1993-97	220-1028	Torque To Yield, Services Engine
Head Saver Shim	1993-97	230-2089	New Hgt. - 4.900; Min. Hgt. - 4.894

16 122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin P FOC2.0-P
 1997-04 L4 122 CID BORE - 84.8mm/3.34"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1997-04	SB1812-56	1 $\frac{13}{16}$ O.D., 1.535 I.D., 0.2930 Depth
	Exh 1997-04	SB1500-71	1 $\frac{1}{2}$ O.D., 1.240 I.D., 0.3170 Depth
Valve	Int 1997-04	02044	1.736 Head Diameter
	Exh 1997-04	01936	1.457 Head Diameter
Keeper	Both 1997-04	121-1024	3 RD Bead Type
Stem Seal	Both 1997-04	122-1206	Positive Type, Viton Material, Top Hat Style
Guide	Both 1997-04	140-3012	0.3175 I.D., 2.540 Length, 0.5339 O.D.
Spring	Both 1997-04	160-1398	2.025 Length, Conical
Lifter	Both 1997-04	VL113	Hydraulic Roller Type
Head Bolt Set	1997-04	220-1008	Torque To Yield, Services Engine
Head Saver Shim	1997-99	230-2009	New Hgt. - 5.0750 - 5.0850; Min. Hgt. - 5.0650
	2000-04	230-2131	New Hgt. - 5.0750 - 5.0850; Min. Hgt. - 5.0650

(Cont'd) FORD / PASSENGER CAR

122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 9 "Ecoboost" **FOC2.0-ECO 17**
 2013-17 L4 122 CID **BORE - 87.5mm/3.44"**

PART		YEARS	PART NO.	NOTES
Keeper	Both	2013-17	121-1104	1 RD Bead Type
Stem Seal	Int	2013-17	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2013-17	122-1411	Positive Type,Viton Material,Top Hat Style

122 C.I., (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin U "Hybrid" **FOC2.0-U 18**
 2013-17 L4 122 CID **BORE - 87.5mm/3.44"**

PART		YEARS	PART NO.	NOTES
Valve	Int	2013-16	02006	1.378 Head Diameter
	Exh	2013-16	02007	1.181 Head Diameter
Keeper	Both	2013-16	121-1104	1 RD Bead Type
Stem Seal	Int	2013-16	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2013-16	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2013-16	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.

2180cc, (2.2L), SOHC, GAS, FI, 12 Valve, Vin C "Mazda" **FOC2.2-C 19**
 1989-92 L4 133 CID **BORE - 86.1mm/3.39"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-92	SB1375-56	1 ³ / ₈ O.D.,1.102 I.D.,0.2600 Depth
	Exh	1989-92	SB1437-75	1 ⁷ / ₁₆ O.D.,1.175 I.D.,0.2600 Depth
Valve	Int	1989-92	10162	1.280 Head Diameter
	Exh	1989-92	10163	1.339 Head Diameter
Stem Seal	Both	1989-92	122-1149	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1989-92	140-8142	0.2765 I.D.,2.088 Length,0.4760 O.D.,W/ Snap Ring
Lifter	Both	1989-92	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-92	230-2086	New Hgt.- 3.6200 - 3.6240; Min. Hgt.- 3.6120

2184cc, (2.2L), SOHC, GAS, FI, 12 Valve, Vin L "Turbo Mazda" **FOC2.2-L 20**
 1989-92 L4 133 CID **BORE - 86.1mm/3.39"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-92	SB1375-56	1 ³ / ₈ O.D.,1.102 I.D.,0.2600 Depth
	Exh	1989-92	SB1437-75	1 ⁷ / ₁₆ O.D.,1.175 I.D.,0.2600 Depth
Valve	Int	1989-92	10162	1.280 Head Diameter
	Exh	1989-92	10164	1.339 Head Diameter,Inconel
Stem Seal	Both	1989-92	122-1149	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1989-92	140-8142	0.2765 I.D.,2.088 Length,0.4760 O.D.,W/ Snap Ring
Lifter	Both	1989-92	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-92	230-2086	New Hgt.- 3.6200 - 3.6240; Min. Hgt.- 3.6120

140 C.I., (2.3L), SOHC, GAS, CARB, Vin A, Y **FOC2.3-AY 21**
 1974-85 L4 140 CID **BORE - 96mm/3.78"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1974-85	SB1812-2	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	1974-85	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1974-85	01598	1.735 Head Diameter
	Exh	1974-85	01597	1.500 Head Diameter
Keeper	Both	1974-85	121-1019	4 RD Bead Type
Stem Seal	Both	1974-85	122-1047	Positive Type,Poly Material,2-Ring Style

FORD / PASSENGER CAR (Cont'd)

21 140 C.I., (2.3L), SOHC, GAS, CARB, Vin A, Y
(cont.) 1974-85 L4 140 CID

FOC2.3-AY
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Guide	Both	1974-85	140-9206	0.3440 I.D.,2.188 Length,0.5020 O.D.,Flanged
Spring	Both	1974-79	160-1033	1.950 Length
Lifter	Both	1974-85	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both	1974-85	180-1037	Cam Follower
Head Bolt Set		1974-85	220-1006	Torque To Yield,When Used to Replace Non-TTY Bolts, Bolts Must Be Tightened to Specs as Follows: Torque to 51 ft. lbs., Loosen All Bolts, Then Torque to 51 ft. lbs., Then Tighten All Bolts an Additional 90 - 100 Degrees., Services Engine

22 140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin T, W "Turbo"
1983-88 L4 140 CID

FOC2.3-TW
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1983-88 1983-88	SB1812-2 SB1562-1	1 ¹⁹ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	1983-88 1983-88	01598 01397	1.735 Head Diameter 1.500 Head Diameter,Inconel
Keeper	Both	1983-88	121-1019	4 RD Bead Type
Stem Seal	Both	1983-88	122-1075	Positive Type,Viton Material, Ring & Band Style
Guide	Both	1983-88	140-9206	0.3440 I.D.,2.188 Length,0.5020 O.D.,Flanged
Lifter	Both	1983-88	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both	1983-88	180-1037	Cam Follower
Head Bolt Set		1983-88	220-1006	Torque To Yield,When Used to Replace Non-TTY Bolts, Bolts Must Be Tightened to Specs as Follows: Torque to 51 ft. lbs., Loosen All Bolts, Then Torque to 51 ft. lbs., Then Tighten All Bolts an Additional 90 - 100 Degrees., Services Engine

23 140 C.I., (2.3L), OHV, GAS, CARB, 8 Valve, Vin R "HSC"
1984-84 L4 140 CID

FOC2.3HSC-CA
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1984-84 1984-84	SB1812-2 SB1562-36	1 ¹⁹ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ³ / ₁₆ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int Exh	1984-84 1984-84	01598 01597	1.735 Head Diameter 1.500 Head Diameter
Keeper	Both	1984-84	121-1019	4 RD Bead Type
Stem Seal	Int Exh	1984-84 1984-84	122-1198 122-1006	Positive Type,Viton Material,Metal Clad Style Positive Type,Rubber Material, Ring & Band Style
Guide	Int Exh	1984-84 1984-84	140-9206 140-9846	0.3440 I.D.,2.188 Length,0.5020 O.D.,Flanged 0.3440 I.D.,2.313 Length,0.5020 O.D.,Flanged,-5 U/S I.D. Available (140-9846U)
Lifter	Both	1984-84	VL35	Hydraulic Type
Rocker Components	Both	1984-84 1984-84	180-1029 183-1022	Rocker Arm Fulcrum
Push Rod	Both	1984-84	190-1469	8.880 Length

(Cont'd) **FORD / PASSENGER CAR**

140 C.I., (2.3L), OHV, GAS, FI, 8 Valve, Vin S, X "HSC"
1985-94 L4 140 CID

FOC2.3HSC-FI 24
BORE - 94mm/3.70"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1985-94	SB1812-2	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	1985-94	SB1562-36	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ³ / ₁₆ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1985-94	01598	1.735 Head Diameter
	Exh	1985-94	01597	1.500 Head Diameter
Keeper	Both	1985-94	121-1019	4 RD Bead Type
Stem Seal	Int	1985-94	122-1200	Positive Type, Viton Material, Metal Clad Style
	Exh	1985-94	122-1199	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1985-94	140-9206	0.3440 I.D., 2.188 Length, 0.5020 O.D., Flanged
	Exh	1985-94	140-9846	0.3440 I.D., 2.313 Length, 0.5020 O.D., Flanged, -5 U/S I.D. Available (140-9846U)
Lifter	Both	1985-94	VL35	Hydraulic Type
Rocker Components	Both	1985-94	180-1029	Rocker Arm
		1985-94	183-1022	Fulcrum
Push Rod	Both	1985-94	190-1469	8.880 Length

140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin A, M
1987-93 L4 140 CID

FOC2.3-AM 25
BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-93	SB1812-2	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	1987-93	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1987-93	01598	1.735 Head Diameter
	Exh	1987-93	01597	1.500 Head Diameter
Keeper	Both	1987-93	121-1019	4 RD Bead Type
Stem Seal	Int	1987-93	122-1200	Positive Type, Viton Material, Metal Clad Style
	Exh	1987-93	122-1199	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1987-93	140-9206	0.3440 I.D., 2.188 Length, 0.5020 O.D., Flanged
Lifter	Both	1987-93	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both	1987-90	180-1037	Cam Follower
Head Bolt Set		1987-93	220-1006	Torque To Yield, When Used to Replace Non-TTY Bolts, Bolts Must Be Tightened to Specs as Follows: Torque to 51 ft. lbs., Loosen All Bolts, Then Torque to 51 ft. lbs., Then Tighten All Bolts an Additional 90 - 100 Degrees., Services Engine

140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin Z "DURATEC"
2004-09 L4 140 CID

FOC2.3-Z 26
BORE - 87.4mm/3.44"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2004-09	SB1250-62	1 ¹ / ₄ O.D., 1.000 I.D., 0.3050 Depth
Valve	Int	2004-09	02006	1.378 Head Diameter
	Exh	2004-09	02007	1.181 Head Diameter
Keeper	Both	2004-09	121-1104	1 RD Bead Type
Stem Seal	Int	2004-09	122-1410	Positive Type, Viton Material, Top Hat Style
	Exh	2004-09	122-1411	Positive Type, Viton Material, Top Hat Style
Guide	Both	2004-09	140-3070	0.2170 I.D., 1.535 Length, 0.4345 O.D.
Spring	Both	2004-09	160-1568	1.908 Length, Conical
Head Bolt Set		2004-09	220-1111	Torque To Yield, Services Engine
Head Saver Shim		2004-09	230-2144	New Hgt. - Min. Hgt. N/A

FORD / PASSENGER CAR (Cont'd)

27 140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin H, "Ecoboost"
2015-17 L4 140 CID

FOC2.3-ECO
BORE - 87.6mm/3.45"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-16	121-1104	1 RD Bead Type
Stem Seal	Int	2015-16	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2015-16	122-1411	Positive Type,Viton Material,Top Hat Style

28 144 C.I., (2.4L), OHV, GAS, CARB, 12 Valve, Vin D, S
1960-64 L6 144 CID

FOC144
BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1960-64	SB1562-1	1 ¹ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1960-64	SB1375-4	1 ³ / ₈ O.D.,1 ¹ / ₈ I.D., ³ / ₁₆ Depth
Valve	Exh	1960-64	00564	1.268 Head Diameter
Keeper	Both	1960-64	121-1011	1 SQ Bead Type
Stem Seal	Both	1960-64	122-1034	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1960-64	140-6869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Plain I.D. Conversion Guide
		1960-64	140-6977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1960-64	140-9869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Spiral I.D. Conversion Guide,Exact Length
		1960-64	140-9977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	1960-62	160-1127	2.000 Length,W/ Mechanical Lifters
		1963-64	160-1131	1.828 Length,W/ Hydraulic Lifters
Lifter	Both	1963-64	VL9	Hydraulic Type
Push Rod	Both	1960-64	190-1280	8.021 Length,W/ Mechanical Lifters

29 2450cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin B "Mazda KL"
1993-97 V6 152 CID

FOC2.5P
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1993-97	10550	1.260 Head Diameter
	Exh	1993-97	10551	1.086 Head Diameter,Except Calif.
Stem Seal	Int	1993-97	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1993-97	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1993-97	140-8561	0.2370 I.D.,1.490 Length,0.4358 O.D.,W/ Snap Ring
Lifter	Both	1993-97	VL149	Hydraulic Bucket Type

30 152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin A
2010-12 L4 152 CID

FOC2.5DC-A
BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-12	02006	1.378 Head Diameter
	Exh	2010-12	02007	1.181 Head Diameter
Keeper	Both	2010-12	121-1104	1 RD Bead Type
Stem Seal	Int	2010-12	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2010-12	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-12	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2010-12	160-1568	1.908 Length,Conical
Head Bolt Set		2010-12	220-1111	Torque To Yield,Services Engine

(Cont'd) **FORD / PASSENGER CAR**

152 C.I., (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 3 "Hybrid" FOC2.5DCE-3 **31**
2010-12 L4 152 CID BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-12	02006	1.378 Head Diameter
	Exh	2010-12	02007	1.181 Head Diameter
Keeper	Both	2010-12	121-1104	1 RD Bead Type
Stem Seal	Int	2010-12	122-1410	Positive Type, Viton Material, Top Hat Style
	Exh	2010-12	122-1411	Positive Type, Viton Material, Top Hat Style
Guide	Both	2010-12	140-3070	0.2170 I.D., 1.535 Length, 0.4345 O.D.
Spring	Both	2010-12	160-1568	1.908 Length, Conical
Head Bolt Set		2010-12	220-1111	Torque To Yield, Services Engine

152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin 7 "DURATEC / i-VCT" FOC2.5DVCT **32**
2013-16 L4 152 CID BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-16	02006	1.378 Head Diameter
	Exh	2013-16	02007	1.181 Head Diameter
Keeper	Both	2013-16	121-1104	1 RD Bead Type
Stem Seal	Int	2013-16	122-1410	Positive Type, Viton Material, Top Hat Style
	Exh	2013-16	122-1411	Positive Type, Viton Material, Top Hat Style
Guide	Both	2013-16	140-3070	0.2170 I.D., 1.535 Length, 0.4345 O.D.

153 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin D "HSC" FOC2.5HSC-D **33**
1986-91 L4 153 CID BORE - 93.9mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-91	SB1812-2	1 ¹ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	1986-91	SB1562-36	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ³ / ₁₆ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1986-91	01598	1.735 Head Diameter
	Exh	1986-91	01597	1.500 Head Diameter
Keeper	Both	1986-91	121-1019	4 RD Bead Type
Stem Seal	Int	1986-91	122-1200	Positive Type, Viton Material, Metal Clad Style
	Exh	1986-91	122-1199	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1986-91	140-9206	0.3440 I.D., 2.188 Length, 0.5020 O.D., Flanged
	Exh	1986-91	140-9846	0.3440 I.D., 2.313 Length, 0.5020 O.D., Flanged, -5 U/S I.D. Available (140-9846U)
Lifter	Both	1986-91	VL35	Hydraulic Type
Rocker Components	Both	1986-91	180-1029	Rocker Arm

155 C.I., (2.5L), DOHC, GAS, FI, 24 Valve, Vin G, L "DURATEC" FOC2.5D **34**
1995-02 V6 155 CID BORE - 82.3mm/3.24"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-02	SB1375-55	1 ³ / ₈ O.D., 1.120 I.D., 0.3250 Depth
	Exh	1995-02	SB1125-52	1 ¹ / ₈ O.D., 0.825T I.D., 0.2850 Depth, W/ 1.023 Valve Head Dia.
Valve	Int	1995-02	01728	1.260 Head Diameter
	Exh	1995-02	01729	1.023 Head Diameter
Keeper	Both	1995-02	121-1082	3 RD Bead Type
Stem Seal	Both	1995-02	122-1229	Positive Type, Viton Material, Top Hat Style
Guide	Both	1995-02	140-8560	0.2370 I.D., 1.880 Length, 0.4953 O.D.
Spring	Both	1995-02	160-1490	1.847 Length
Lifter	Both	1995-02	VL107	Hydraulic Lash Adjuster Type

FORD / PASSENGER CAR (Cont'd)

34 155 C.I., (2.5L), DOHC, GAS, FI, 24 Valve, Vin G, L "DURATEC" FOC2.5D
 (cont.) 1995-02 V6 155 CID BORE - 82.3mm/3.24"

PART	YEARS	PART NO.	NOTES
Rocker Components	Both	1995-02 180-1333	Roller Cam Follower

35 156 C.I., (2.6L), OHV, GAS, CARB, 12 Valve, Vin U FOC159MU
 1972-73 V6 156 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Valve	Int	1972-73 01285	1.570 Head Diameter,1 Groove
	Exh	1972-73 01300	1.269 Head Diameter,3 Groove
Keeper	Int	1972-73 121-1011	1 SQ Bead Type
	Exh	1972-73 121-1024	3 RD Bead Type
Guide	Both	1972-73 140-9198	0.3174 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Push Rod	Both	1972-73 190-1435	5.429 Length

36 164 C.I., (2.7L), DOHC, GAS, FI, 24 Valve, Vin P "Ecoboost" FOC2.7-ECO
 2017-17 V6 164 CID BORE - 83.1mm/3.27"

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	2017-17 122-1493	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2017-17 VL575	Hydraulic Lash Adjuster Type

37 170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin U FOC170U
 1961-72 L6 170 CID BORE - 88.8mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1961-64 SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.527 Valve Head Dia.
		1965-72 SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.651 Valve Head Dia.
	Exh	1961-64 SB1375-4	1 ³ / ₈ O.D.,1 ¹ / ₈ I.D.,3/16 Depth,W/ 1.268 Valve Head Dia.
		1965-72 SB1437-3	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.390 Valve Head Dia.
Valve	Int	1961-64 00627	1.527 Head Diameter
		1965-72 01268	1.651 Head Diameter
	Exh	1961-64 00564	1.268 Head Diameter
		1965-72 01266	1.390 Head Diameter,+15 O/S Stem Available
Keeper	Both	1961-72 121-1011	1 SQ Bead Type
Stem Seal	Both	1961-72 122-1034	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1961-72 140-6869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Plain I.D. Conversion Guide
		1961-72 140-6977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1961-72 140-9869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Spiral I.D. Conversion Guide
		1961-72 140-9977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	1961-64 160-1127	2.000 Length,W/ Mechanical Lifters
		1965-72 160-1131	1.828 Length,W/ Hydraulic Lifters
Lifter	Both	1965-72 VL9	Hydraulic Type
Push Rod	Both	1961-64 190-1280	8.021 Length,W/ Mechanical Lifters
		1965-72 190-1327	8.350 Length,-54 U/S Available (190-1327U54),W/ Hyd. Lifters

(Cont'd) FORD / PASSENGER CAR**171 C.I., (2.8L), OHV, GAS, CARB, Vin Z**
1974-79 V6 171 CIDFOC171Z **38**
BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1974-79	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1974-79	SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material
Valve	Int	1974-79	01285	1.570 Head Diameter, 1 Groove
	Exh	1974-79	01300	1.269 Head Diameter, 3 Groove
Keeper	Int	1974-79	121-1011	1 SQ Bead Type
	Exh	1974-79	121-1024	3 RD Bead Type
Stem Seal	Both	1974-79	122-1039	Positive Type, Poly Material, 1-Spring Style
Guide	Both	1974-79	140-7198	0.3175 I.D., 2.000 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1974-79	140-9198	0.3174 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1975-79	160-1033	1.950 Length
Rocker Components	Both	1974-79	180-1007	Rocker Arm, Adjustable, W/ .635 Pad Width, Replaces Narrow Pad Arm
Push Rod	Both	1974-79	190-1435	5.429 Length

177 C.I., (2.9L), OHV, GAS, FI, 12 Valve, Vin V "Mercur"
1988-89 V6 177 CIDFOC2.9V **39**
BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-89	SB1750-2	3/4 O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1988-89	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1988-89	10385	1.656 Head Diameter, 1 Groove, +15 O/S Stem Available
	Exh	1988-89	10386	1.418 Head Diameter, 3 Groove, +15 O/S Stem Available
Keeper	Int	1988-89	121-1011	1 SQ Bead Type
	Exh	1988-89	121-1024	3 RD Bead Type
Stem Seal	Both	1988-89	122-1067	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1988-89	140-9198	0.3174 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1988-89	160-1172	2.170 Length
Lifter	Both	1988-89	VL9	Hydraulic Type
Rocker Components	Both	1988-89	180-1007	Rocker Arm, Adjustable, W/ .635 Pad Width, Replaces Narrow Pad Arm
Push Rod	Both	1988-89	190-1435	5.429 Length
Head Bolt Set		1988-89	220-1016	Torque To Yield, Services Engine

2984cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 1, W "VG30E Nissan"
1993-98 V6 182 CIDFOCVG30E **40**
BORE - 87mm/3.42"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1993-98	SB1812-55	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 0.2780 Depth
Valve	Int	1993-98	10281	1.657 Head Diameter
		1993-95	10282	1.382 Head Diameter
		1996-98	10282S	1.382 Head Diameter, Stellite Face
Keeper	Both	1993-98	121-1059	1 RD Bead Type
Stem Seal	Int	1993-98	122-1139	Positive Type, Viton Material, Metal Clad Style
	Exh	1993-98	122-1263	Positive Type, Viton Material, Ring & Spring Style

FORD / PASSENGER CAR (Cont'd)

40 2984cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 1, W "VG30E Nissan" FOCVG30E
 (cont.) 1993-98 V6 182 CID BORE - 87mm/3.42"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1993-98	140-7873	0.2760 I.D.,2.315 Length,0.4423 O.D.,Head Must Be Reamed To .440/.4408 For Guide Installation
		1993-98	140-8388	0.2760 I.D.,2.315 Length,0.4345 O.D.,Std. O.D.
	Exh	1993-98	140-8017	0.3160 I.D.,2.500 Length,0.4820 O.D.,Head Must Be Reamed To .4793/.4802 For Guide Installation
		1993-98	140-8389	0.3160 I.D.,2.500 Length,0.4740 O.D.,Std O.D.
Spring	Both	1993-98	160-1052	1.725 Length,Inner
		1993-98	160-1216	2.065 Length,Outer
Lifter	Both	1993-98	VL121	Hydraulic Type
Rocker Components	Both	1993-98	180-1264	Cam Follower
Head Saver Shim		1993-98	230-2015	New Hgt.- 4.2047 - 4.2200; Min. Hgt.- 4.1967, 2 Required

41 181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin S "Lincoln LS" DURATEC 3.0DC-24V-LS
 2000-05 V6 181 CID BORE - 89mm/3.5039"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	01/00-07/00	SB1250-56	1¼ O.D.,0.905T I.D.,0.2300 Depth,W/6mm Stem Dia.
Valve	Int	01/00-07/00	01787	1.378 Head Diameter,W/6mm Stem Dia.
		08/00-12/05	02245	1.378 Head Diameter,W/5.5mm Stem Dia.
	Exh	01/00-07/00	01788	1.181 Head Diameter,W/6mm Stem Dia.
		08/00-12/05	02246	1.185 Head Diameter,W/5.5mm Stem Dia.
Keeper	Both	01/00-07/00	121-1082	3 RD Bead Type,W/6mm Stem Dia.
		08/00-12/05	121-1103	1 RD Bead Type,W/5.5mm Stem Dia.
Stem Seal	Both	01/00-07/00	122-1229	Positive Type,Viton Material,Top Hat Style,W/6mm Stem Dia.
Guide	Both	01/00-07/00	140-8560	0.2370 I.D.,1.880 Length,0.4953 O.D.,W/6mm Stem Dia.
		08/00-12/05	140-3028	0.2175 I.D.,1.455 Length,0.3774 O.D.,W/5.5mm Stem Dia.
Spring	Both	01/00-07/00	160-1490	1.847 Length,W/6mm Stem Dia.
Lifter	Both	01/00-07/00	VL107	Hydraulic Lash Adjuster Type,W/6mm Stem Dia.
Rocker Components	Both	2000-00	180-1333	Roller Cam Follower,W/6mm Stem Dia.
Head Bolt Set		01/00-07/00	220-1094	Torque To Yield,W/6mm Stem Dia., 2 Required
Head Saver Shim		01/00-07/00	230-2130L	Left,W/6mm Stem Dia., New Hgt. 5.155" - 5.163" - Min. Hgt. - N/A
		01/00-07/00	230-2130R	Right,W/6mm Stem Dia., New Hgt. 5.155" - 5.163" - Min. Hgt. - N/A

42 181 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, G, S, "DURATEC" FOC3.0-DC24V
 1996-12 V6 181 CID BORE - 89mm/3.5039"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1996-12	SB1250-56	1¼ O.D.,0.905T I.D.,0.2300 Depth
Valve	Int	1996-12	01787	1.378 Head Diameter
	Exh	1996-12	01788	1.181 Head Diameter
Keeper	Both	1996-12	121-1082	3 RD Bead Type,OEM # F5RZ6518B
Stem Seal	Both	1996-12	122-1229	Positive Type,Viton Material,Top Hat Style
Guide	Both	1996-12	140-8560	0.2370 I.D.,1.880 Length,0.4953 O.D.
Spring	Both	1996-09	160-1490	1.847 Length
Lifter	Both	1996-12	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1996-12	180-1333	Roller Cam Follower
Head Bolt Set		1996-06	220-1094	Torque To Yield,2 Required
Head Saver Shim		1996-09	230-2130L	Left,New Hgt. 5.155" - 5.163" - Min. Hgt. - N/A

(Cont'd) FORD / PASSENGER CAR

181 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, G, S, "DURATEC" FOC3.0-DC24V 42
 1996-12 V6 181 CID BORE - 89mm/3.5039" (cont.)

PART	YEARS	PART NO.	NOTES
Head Saver Shim	1996-09	230-2130R	Right,New Hgt. 5.155" - 5.163" - Min. Hgt. - N/A

182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin 1, 2, U "VULCAN" FOC182U 43
 1986-07 V6 182 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-07	SB1750-2 1 3/4 O.D., 1 1/2 I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material	
	Exh	1986-07		SB1437-3 1 7/16 O.D., 1 3/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1986-99	01536 1.661 Head Diameter, 0.3130 Stem Dia.; Includes "Flex-Fuel" Applications, +15 O/S Stem Available	
		2000-07		02046 1.661 Head Diameter, 7mm Stem Dia.; Includes "Flex-Fuel" Applications
	Exh	1986-99	01535 1.371 Head Diameter, 0.3125 Stem Dia.; Includes "Flex-Fuel" Applications, +15 O/S Stem Available	
		2000-07	02047 1.371 Head Diameter, 7mm Stem Dia.; Includes "Flex-Fuel" Applications	
Keeper	Both	1986-99	121-1024 3 RD Bead Type, Use With 5/16 Stem Dia.	
		2000-07	121-1084 3 RD Bead Type, Use W/ 7mm Stem Dia.	
Stem Seal	Int	1986-99	122-1065 Positive Type, Viton Material, Ring & Band Style, Use With 5/16 Stem Dia.	
		2000-07	122-1357 Positive Type, Viton Material, Ring & Band Style, Green, Use W/ 7mm Stem Dia.	
	Exh	1986-99	122-1066 Positive Type, Viton Material, Ring & Band Style, Use With 5/16 Stem Dia.	
		2000-07	122-1358 Positive Type, Viton Material, Ring & Band Style, Orange, Use W/ 7mm Stem Dia.	
Guide	Both	1986-99	140-9204 0.3150 I.D., 2.200 Length, 0.4390 O.D., Use With 5/16 Stem Dia.	
		2000-07		140-3048 0.2768 I.D., 2.500 Length, 0.4747 O.D., Use W/ 7mm Stem Dia., W/ Seal Boss; NOTE: W/ 4747 O. D.
		2000-07		140-3066 0.2768 I.D., 2.200 Length, 0.4390 O.D., Use W/ 7mm Stem Dia., W/O Seal Boss; NOTE: W/ 4390 O.D.
Spring	Both	1986-99	160-1072 1.840 Length	
		2000-07	160-1437 1.834 Length, Conical	
Lifter	Both	1986-91	VL35 Hydraulic Type	
		1992-07	VL100 Hydraulic Roller Type	
Rocker Components	Both	1986-07	180-1315 Rocker Arm	
Push Rod	Both	1992-96	190-1524 5.332 Length, W/ Roller Lifters	
		1997-07	190-1541 5.297 Length, W/ Roller Lifters	
Head Bolt Set		1986-98	220-1005 Torque To Yield, Services Engine; To 7/13/98	
		1998-07	220-1096 Torque To Yield, Services Engine; From 7/14/98	
Head Saver Shim		1986-07	230-2177 New Hgt. - 3.620 - 3.630; Min. Hgt. - N/A	

182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin Y "Yamaha SHO" 3.0Y 44
 1989-95 V6 182 CID BORE - 89mm/3.5039"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-95	SB1437-2 1 7/16 O.D., 1 7/32 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1989-95		SB1312-3 1 5/16 O.D., 1.000 I.D., 7/32 Depth
Guide	Both	1989-95	140-8559 0.2365 I.D., 1.575 Length, 0.4360 O.D.

FORD / PASSENGER CAR (Cont'd)

45 195 C.I., (3.2L), DOHC, GAS, FI, 24 Valve, Vin P "Yamaha SHO" 3.2P
 1993-95 V6 195 CID BORE - 91.4mm/3.60"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-95	SB1437-2 1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., 7 ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1993-95		SB1312-3 1^{5}/_{16} O.D., 1.000 I.D., 7^{7}/_{32} Depth
Guide	Both	1993-95	140-8559 0.2365 I.D., 1.575 Length, 0.4360 O.D.

46 200 C.I., (3.3L), GAS, CARB, "Model A" A
 1928-31 L4 200 CID BORE - 98.425mm/3.80"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Both	1928-31	SB1625-1 1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., 7 ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Both	1928-31	00100 1.537 Head Diameter, Stainless Steel Version

47 200 C.I., (3.3L), GAS, CARB, "Model B" B
 1932-34 L4 200 CID BORE - 98.425mm/3.80"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Both	1932-34	SB1625-1 1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., 7 ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Both	1932-34	00100 1.537 Head Diameter, Stainless Steel Version

48 200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin B, T, X 200XBT
 1963-83 L6 200 CID BORE - 93.5mm/3.68"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1963-64	SB1625-1 1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., 7 ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.527 Valve Head Dia.	
		1965-76		SB1750-2 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7 ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.651 Valve Head Dia.
		1977-83		SB1812-4 1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., 7 ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.751 Valve Head Dia.
	Exh	1963-64	SB1375-4 1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., 3 ³ / ₁₆ Depth, W/ 1.268 Valve Head Dia.	
Valve	Int	1965-83	SB1437-2 1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., 7 ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.390 Valve Head Dia.	
		1963-64	00627 1.527 Head Diameter	
		1965-76	01268 1.651 Head Diameter	
	Exh	1977-83	01357 1.751 Head Diameter	
		1963-64	00564 1.268 Head Diameter	
	1965-83	01266 1.390 Head Diameter, +15 O/S Stem Available		
Keeper	Both	1963-83	121-1011 1 SQ Bead Type	
Stem Seal	Both	1963-83	122-1034 Umbrella Type, Poly Material, Umbrella Style	
Guide	Both	1963-83	140-6869 0.3125 I.D., 1.875 Length, 0.4390 O.D., Plain I.D. Conversion Guide	
		1963-83	140-6977 0.3120 I.D., 2.281 Length, 0.5020 O.D., Plain I.D. Conversion Guide	
		1963-83	140-9869 0.3125 I.D., 1.875 Length, 0.4390 O.D., Spiral I.D. Conversion Guide	
Spring	Both	1965-83	160-1131 1.828 Length, W/ Hydraulic Lifters	
Lifter	Both	1963-83	VL9 Hydraulic Type	
Push Rod	Both	1963-64	190-1280 8.021 Length, W/ Mechanical Lifters	

(Cont'd) FORD / PASSENGER CAR**200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin B, T, X**
1963-83 L6 200 CID**200XBT 48**
BORE - 93.5mm/3.68" (cont.)

PART	YEARS	PART NO.	NOTES	
Push Rod	Both	1965-83	190-1327	8.350 Length,-54 U/S Available (190-1327U54),W/ Non-Adj. Rocker Arms, (Exc. 1969-72 Bronco)

213 C.I., (3.5L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 8, C, T, W
"DURATEC"

2007-17 V6 213 CID

FOC3.5DC-24V 49
BORE - 92.5mm/3.64"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-17	13225	1.457 Head Diameter
	Exh	2007-16	13226	1.220 Head Diameter
Keeper	Both	2007-17	121-1104	1 RD Bead Type
Stem Seal	Both	2007-17	122-1427	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-17	140-3170	0.2177 I.D.,1.395 Length,0.4355 O.D.,Chamfer I.D. to Cumbustion
Spring	Both	2007-14	160-1599	1.910 Length,Conical

213 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, Vin T "Ecoboost"
2010-17 V6 213 CID**FOC3.5DC-24VT 50**
BORE - 92.5mm/3.64"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-16	13344	1.457 Head Diameter
	Exh	2010-16	13345S	1.220 Head Diameter,Inconel, Stellite Face
Keeper	Both	2010-16	121-1104	1 RD Bead Type
Stem Seal	Both	2010-16	122-1427	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-16	140-3170	0.2177 I.D.,1.395 Length,0.4355 O.D.,Chamfer I.D. to Combustion
Spring	Both	2010-16	160-1631	2.176 Length

221 C.I., (3.6L), OHV, GAS, CARB, 16 Valve, Vin L
1962-63 V8 221 CID**FOC221 51**
BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1962-63	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1962-63	SB1500-1	1 $\frac{1}{2}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1962-63	121-1011	1 SQ Bead Type
Stem Seal	Both	1962-63	122-1006	Positive Type,Rubber Material, Ring & Band Style
Guide	Both		140-9977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
		1962-63	140-6872	0.3120 I.D.,2.281 Length,0.4390 O.D.,Plain I.D. Conversion Guide
		1962-63	140-9872	0.3120 I.D.,2.281 Length,0.4390 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1962-63	160-1120	2.222 Length,W/O Rotator
Lifter	Both	1962-63	VL35	Hydraulic Type
Rocker Components	Both	1962-63	181-1023	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Grooved Ball, (1) $\frac{3}{8}$ Nut
Push Rod	Both	1962-63	192-1321	6.804 Length

FORD / PASSENGER CAR (Cont'd)

52 223 C.I., (3.7L), GAS, CARB

FOC223

1954-64

L6 223 CID

BORE - 92.075mm/3.63"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1954-64	SB1875-6	1 ⁷ / ₈ O.D., 1 ¹ / ₈ I.D., 7/32 Depth
	Exh	1954-64	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1954-64	00373	1.780 Head Diameter
	Exh	1954-64	00375	1.510 Head Diameter
Keeper	Both	1954-64	121-1003	1 SQ Bead Type
Stem Seal	Both	1954-64	122-1041	Umbrella Type, Poly Material, Umbrella Style
		1954-64	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
Guide	Both	1954-64	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1954-64	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
Spring	Both	1954-64	160-1120	2.222 Length, W/O Rotator
Lifter	Both	1954-64	VL21	Mechanical Type
Push Rod	Both	1954-64	190-1222	9.602 Length

53 227 C.I., (3.7L), DOHC, FLEX, GAS, FI, 24 Valve, Vin K, M, R "DURATEC" FOC3.7DC-24V

2009-17

V6 227 CID

BORE - 95.5mm/3.76"

PART		YEARS	PART NO.	NOTES
Valve	Int	2009-17	13225	1.457 Head Diameter
	Exh	2009-17	13226	1.220 Head Diameter
Keeper	Both	2009-17	121-1104	1 RD Bead Type
Stem Seal	Both	2009-17	122-1427	Positive Type, Viton Material, Top Hat Style
Spring	Both	2009-14	160-1599	1.910 Length, Conical

54 232 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 3

232CA

1982-83

V6 232 CID

BORE - 96.8mm/3.81"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-83	SB1875-50	1 ⁷ / ₈ O.D., 1.640 I.D., 0.2800 Depth
	Exh	1982-83	SB1625-54	1 ⁵ / ₈ O.D., 1.329 I.D., 0.2800 Depth
Valve	Int	1982-83	01470	1.782 Head Diameter
	Exh	1982-83	01469	1.461 Head Diameter
Keeper	Both	1982-83	121-1019	4 RD Bead Type
Stem Seal	Both	1982-83	122-1074	Positive Type, Viton Material, Ring & Band Style
Guide	Both	1982-83	140-8545	0.3440 I.D., 2.250 Length, 0.4988 O.D., Knock Out Style
		1982-83	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Lifter	Both	1982-83	VL35	Hydraulic Type
Rocker Components	Both	1982-83	180-1012	Rocker Arm
		1982-83	181-1018	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 8mm Bolt
Push Rod	Both	1982-83	190-1522	7.770 Length, W/ Hyd. Lifters
Head Bolt Set		1982-83	220-1002	Torque To Yield, 2 Required
Head Saver Shim		1982-83	230-2016	New Hgt.- 3.0550 - 3.0700; Min. Hgt.- 3.0450, 2 Required

(Cont'd) **FORD / PASSENGER CAR**

232 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 3, 4
1984-04 V6 232 CID

232FI **55**
BORE - 96.8mm/3.81"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-99 2000-04	SB1875-50 SB1937-55	1 $\frac{7}{8}$ O.D., 1.640 I.D., 0.2800 Depth 1 $\frac{15}{16}$ O.D., 1.640T I.D., 0.2900 Depth
	Exh	1984-04	SB1625-54	1 $\frac{5}{8}$ O.D., 1.329 I.D., 0.2800 Depth
Valve	Int	1984-95	01470	1.782 Head Diameter, 0.3419 Stem Dia.
		1996-99	01790	1.782 Head Diameter, 0.2750 Stem Dia.
		2000-04	01789	1.861 Head Diameter, 0.2750 Stem Dia.
	Exh	1984-95	01469	1.461 Head Diameter, 0.3414 Stem Dia.
		1996-04	01791	1.461 Head Diameter, 0.2740 Stem Dia.
Keeper	Both	1984-95	121-1019	4 RD Bead Type, For .3410 Stem
		1996-04	121-1084	3 RD Bead Type, For .2740 Stem
Stem Seal	Int	1989-95	122-1215	Positive Type, Viton Material, Metal Clad Style
	Exh	1989-95	122-1216	Positive Type, Viton Material, Metal Clad Style
	Both	1996-98	122-1226	Positive Type, Viton Material, Metal Clad Style
		1999-04	122-1351	Positive Type, Viton Material, Top Hat Style
Guide	Exh	1996-98	140-8574	0.2765 I.D., 2.200 Length, 0.4955 O.D., W/ .274 Stem Dia.
	Both	1984-95	140-8545	0.3440 I.D., 2.250 Length, 0.4988 O.D., Knock Out Style
		1984-95	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
		1996-04	140-8575	0.2765 I.D., 2.050 Length, 0.4955 O.D., W/ .274 Stem Dia., NOTE: Intake Only Up To 1998, Intake & Exhaust 1999-2004
Spring	Both	1989-95	160-1075	2.021 Length, W/ Damper, W/ 1.434 O.D.
		1996-04	160-1430	2.015 Length, Conical
Lifter	Both	1984-88	VL35	Hydraulic Type
		1989-04	VL100	Hydraulic Roller Type
Rocker Components	Both	1984-04	180-1012	Rocker Arm
		1984-04	181-1018	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 8mm Bolt
Push Rod	Both	1984-88	190-1522	7.770 Length, W/ Hyd. Lifters
		1989-04	190-1511	7.137 Length, W/ Roller Lifters
Head Bolt Set		1984-88	220-1002	Torque To Yield, 2 Required
		1989-95	220-1004	Torque To Yield, 2 Required
		1996-04	220-1076	Torque To Yield, 2 Required
Head Saver Shim		1984-98	230-2016	New Hgt. - 3.0550 - 3.0700; Min. Hgt. - 3.0450, 2 Required, Exc. 97-04 Mustang

239 C.I., (3.9L), L-HEAD, GAS, CARB, 16 Valve, Vin B "L-HEAD"
1949-53 V8 239 CID

FOC239L **56**
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1949-53	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1949-53	SB1640E-1	1.640 O.D., 1 $\frac{3}{8}$ I.D., $\frac{1}{4}$ Depth
Valve	Both	1949-50	00212	1.510 Head Diameter
Keeper	Both	1949-50	121-1003	1 SQ Bead Type
Stem Seal	Both	1949-53	122-1376	O-Ring Type, Nitrile Material, Valve Guide Seal Style
Guide	Both	1949-53	140-1614	0.3435 I.D., 2.210 Length, 1.0303 O.D.
		1949-53	149-1001	Valve Guide Retainer
Rotator	Both	1949-50	161-1057	

FORD / PASSENGER CAR (Cont'd)

57 239 C.I., (3.9L), OHV, GAS, CARB, 16 Valve
1954-54 V8 239 CID

FOC239
BORE - 88.9mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1954-54	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., 7 ¹ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1954-54	SB1640E-1	1.640 O.D., 1 ¹ / ₈ I.D., 1/4 Depth
Valve	Int	1954-54	00376	1.647 Head Diameter
	Exh	1954-54	00375	1.510 Head Diameter
Keeper	Both	1954-54	121-1003	1 SQ Bead Type
Stem Seal	Both	1954-54	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D.
Guide	Int	1954-54	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1954-54	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
	Exh	1954-54	140-5604	0.3440 I.D., 2.625 Length, 0.5020 O.D., Plain I.D. Conversion Guide, +2 O/S Available
		1954-54	140-9604	0.3440 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1954-54	160-1120	2.222 Length, W/O Rotator
Lifter	Both	1954-54	VL21	Mechanical Type
Push Rod	Both	1954-54	190-1221	8.258 Length

58 240 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin B, E, V
1965-72 L6 240 CID

FOC240
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-72	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7 ¹ / ₃₂ Depth
	Exh	1965-72	SB1687-1	1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1965-70	00963	1.781 Head Diameter, Except Taxi & Police
		1967-72	01120	1.780 Head Diameter, 1967-70 Taxi & Police, All 1971- 72., +15 O/S Stem Available
	Exh	1965-72	01358	1.560 Head Diameter, Except 1967-72 Taxi & Police, +15 O/S Stem Available
		1967-72	01177S	1.560 Head Diameter, Stellite Face, Taxi & Police From L-18, +15 O/S Stem Available
Keeper	Both	1965-72	121-1003	1 SQ Bead Type
Stem Seal	Both	1965-72	122-1035	Umbrella Type, Poly Material, Umbrella Style
		1965-72	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
Guide	Int	1965-72	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1965-72	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1965-72	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1965-67	160-1135	1.875 Length, W/ Rotator
	Both	1965-72	160-1134	1.990 Length, W/O Rotator, 1965-67 Used As Int. Only, 1968-72 Used As Both
Rotator	Exh	1965-67	161-1006	
Lifter	Both	1965-72	VL35	Hydraulic Type
Rocker Components	Both	1965-72	180-1237	Rocker Arm, Cast

(Cont'd) FORD / PASSENGER CAR**240 C.I., (3.9L), OHV, GAS, CARB, 12 Valve, Vin B, E, V**
1965-72 L6 240 CIDFOC240 **58**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1965-72	181-1040	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut, (1) $\frac{5}{16}$ Nut
		1965-72	183-1020	Grooved Ball, $\frac{3}{8}$
		1965-72	183-1030	Smooth Ball, $\frac{3}{8}$
		1965-72	184-1038	Nut, $\frac{3}{8}$
Push Rod	Both	1965-72	192-1322	10.136 Length,- 40 U/S (192-1322U40) Available
Head Saver Shim		1965-72	230-2017	

242 C.I., (3.9L), DOHC, GAS, FI, 32 Valve, Vin A
2000-06 V8 242 CID3.9A **59**
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2000-06	02192	1.378 Head Diameter
	Exh	2000-06	02193	1.215 Head Diameter

245 C.I., (4.0L), SOHC, GAS, FI, 12 Valve, Vin N
2005-10 V6 245 CIDFOC245 **60**
BORE - 100.4mm/3.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2005-10	SB1875-50	$1\frac{7}{8}$ O.D., 1.640 I.D., 0.2800 Depth, Note: Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	2005-10	SB1625-54	$1\frac{5}{8}$ O.D., 1.329 I.D., 0.2800 Depth
Valve	Int	2005-10	01913	1.811 Head Diameter
	Exh	2005-10	01914	1.535 Head Diameter
Stem Seal	Both	2005-10	122-1348	Positive Type, Viton Material, Top Hat Style
Spring	Both	2005-10	160-1504	1.696 Length
Lifter	Both	2005-10	VL176	Hydraulic Lash Adjuster Type
Rocker Components	Both	2005-10	180-1325	Roller Cam Follower
Head Bolt Set		2005-10	220-1106	Torque To Yield, Services Engine

250 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin C, L
1969-80 L6 250 CIDFOC250 **61**
BORE - 93.5mm/3.68"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1969-76	SB1750-2	$1\frac{3}{4}$ O.D., $1\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.651 Valve Head Dia.
		1977-80	SB1812-4	$1\frac{13}{16}$ O.D., $1\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.751 Valve Head Dia.
	Exh	1969-80	SB1437-2	$1\frac{7}{16}$ O.D., $1\frac{17}{32}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1969-76	01268	1.651 Head Diameter
		1977-80	01357	1.751 Head Diameter
	Exh	1969-80	01266	1.390 Head Diameter, +15 O/S Stem Available
Keeper	Both	1969-80	121-1011	1 SQ Bead Type
Stem Seal	Both	1969-80	122-1009	Positive Type, Tef/Rub Material, 1-Ring Style, Use W/ .502 O.D. Guide
		1969-80	122-1034	Umbrella Type, Poly Material, Umbrella Style
Guide	Both	1969-80	140-6869	0.3125 I.D., 1.875 Length, 0.4390 O.D., Plain I.D. Conversion Guide
		1969-80	140-6977	0.3120 I.D., 2.281 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1969-80	140-9869	0.3125 I.D., 1.875 Length, 0.4390 O.D., Spiral I.D. Conversion Guide

FORD / PASSENGER CAR (Cont'd)

61 250 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin C, L
(cont.) 1969-80 L6 250 CID

FOC250
BORE - 93.5mm/3.68"

PART		YEARS	PART NO.	NOTES
Guide	Both	1969-80	140-9977	0.3120 I.D., 2.281 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	1969-80	160-1131	1.828 Length, W/ Hydraulic Lifters
Lifter	Both	1969-80	VL9	Hydraulic Type
Push Rod	Both	1972-80	190-1422	9.390 Length

62 255 C.I., (4.2L), OHV, GAS, CARB, 16 Valve, Vin D
1980-82 V8 255 CID

255D
BORE - 93.5mm/3.68"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-82	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.682 Valve Head Dia.
	Exh	1980-82	SB1562-1	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1980-82	01135	1.451 Head Diameter, Does Not Require Lash Cap, +3 & +15 O/S Stem Available
		1980-82	01135S	1.451 Head Diameter, Stellite Face, LPG, Does Not Require Lash Cap
Keeper	Both	1980-82	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-82	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1980-82	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 $\frac{1}{32}$ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1980-82	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, +2 O/S Available (140-5607+2)
		1980-82	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), -5 U/S I.D. Available (140-9607U)
Spring	Int	1980-82	160-1044	2.040 Length
	Exh	1980-82	160-1024	1.923 Length
Lifter	Both	1980-82	VL35	Hydraulic Type
Rocker Components	Both	1980-82	180-1234	Rocker Arm, Stamped
		1980-82	181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) $\frac{5}{16}$ Bolt
		1980-82	183-1022	Fulcrum
		1980-82	184-1035	Bolt W/Washer, $\frac{5}{16}$
Push Rod	Both	1980-82	192-1409	6.876 Length, -60 U/S (192-1409U60) Available

63 260 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin F
1962-64 V8 260 CID

FOC260
BORE - 96.4mm/3.80"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1962-63	SB1687-2	1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1962-63	SB1500-1	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1964-64	00742	1.450 Head Diameter
Keeper	Both	1964-64	121-1003	1 SQ Bead Type
Guide	Both	1962-63	140-6869	0.3125 I.D., 1.875 Length, 0.4390 O.D., Plain I.D. Conversion Guide

(Cont'd) FORD / PASSENGER CAR**260 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin F**
1962-64 V8 260 CID**FOC260 63**
BORE - 96.4mm/3.80" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	1962-63	140-6977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1964-64	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
Spring	Both	1962-64	160-1120	2.222 Length,W/O Rotator
Lifter	Both	1962-64	VL35	Hydraulic Type
Rocker Components	Both	1962-64	181-1023	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Grooved Ball, (1) 3/8 Nut
Push Rod	Both	1962-64	192-1321	6.804 Length

272 C.I., (4.5L), OHV, GAS, CARB, 16 Valve
1955-57 V8 272 CID**FOC272 64**
BORE - 92.1mm/3.63"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1955-56	SB1812-3	1 13/16 O.D.,1 1/2 I.D.,7/32 Depth,W/ 1.780 Valve Head Dia. 2.000 O.D.,1 3/4 I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material,W/ 1.925 Valve Head Dia.
		1957-57	SB2000-1	
	Exh	1955-57	SB1562-2	1 9/16 O.D.,1 5/16 I.D.,1/4 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1955-56	00373	1.780 Head Diameter
		1957-57	00494	1.925 Head Diameter
	Exh	1955-57	00375	1.510 Head Diameter
Keeper	Both	1955-57	121-1003	1 SQ Bead Type
Stem Seal	Both	1955-57	122-1074	Positive Type,Viton Material, Ring & Band Style
Guide	Int	1955-57	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1955-57	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
	Exh	1955-57	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1955-57	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Spring	Both	1955-57	160-1120	2.222 Length,W/O Rotator
Lifter	Both	1955-57	VL21	Mechanical Type
Push Rod	Both	1955-55	190-1221	8.258 Length
		1956-57	190-1543	8.122 Length

281 C.I., (4.6L), SOHC, CNG, FLEX, GAS, FI, 16 Valve, Vin 6, 9, V, W
1992-11 V8 281 CID**4.6W-SC 65**
BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-11	SB1875-56	1 7/8 O.D.,1.600T I.D.,0.2520 Depth,Exc. CNG & LPG 1 3/8 O.D.,1.130T I.D.,0.3040 Depth,Exc. CNG & LPG 1 1/2 O.D.,1.203T I.D.,0.2800 Depth,Also Available In Non-Magnetic (N) Material,Exc. CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth
		1992-99	SB1375-61	
	2000-11	SB1500-50		
		2000-11	SB1500-50N	1 1/2 O.D.,1.203T I.D.,0.2800 Depth,CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1992-99	01699	1.752 Head Diameter,4.607 Length, Except CNG & LPG
		1992-99	01699S	1.752 Head Diameter,Stellite Face,4.622 Length, CNG & LPG
		2000-11	01924	1.752 Head Diameter,4.752 Length, Except CNG & LPG
	Exh	2000-11	01924S	1.752 Head Diameter,Stellite Face,4.752 Length, CNG & LPG
		1992-99	01698	1.339 Head Diameter,4.607 Length, Except CNG & LPG
		1992-99	01698S	1.339 Head Diameter,Stellite Face,4.622 Length, CNG & LPG

FORD / PASSENGER CAR (Cont'd)

65 281 C.I., (4.6L), SOHC, CNG, FLEX, GAS, FI, 16 Valve, Vin 6, 9, V, W 4.6W-SC
 (cont.) 1992-11 V8 281 CID BORE - 90.2mm/3.55"

PART		YEARS	PART NO.	NOTES
Valve	Exh	2000-11	01925	1.418 Head Diameter,4.681 Length, Except CNG & LPG
		2000-11	01925S	1.418 Head Diameter,Stellite Face,4.681 Length, CNG & LPG
Keeper	Both	1992-11	121-1084	3 RD Bead Type
Stem Seal	Both	1992-93	122-1227	Positive Type,Viton Material,Top Hat Style,W/ Stepped Guide
		1994-11	122-1449	Positive Type,Viton Material,Top Hat Style,W/ Straight Guide
Guide	Both	1994-11	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,Late Style W/ Non Stepped O.D., +2, +3 O/S Available
Spring	Both	1992-95	160-1268	2.000 Length
		1996-99	160-1408	2.115 Length,Conical, Large End O.D. 1.040"
		2000-11	160-1411	2.101 Length,Conical, Large End O.D. 1.069",NOTE:These springs are for castings that have slotted spring seats in order to accept the larger O.D. spring
Lifter	Both	1992-11	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1992-11	180-1284	Roller Cam Follower
Head Bolt Set		1992-11	220-1023	Torque To Yield,2 Required
		1992-11	220-1125	Torque To Yield,2 Required; Improved Design
Head Saver Shim		1992-11	230-2052L	Left,New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980
		1992-11	230-2052R	Right,New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980

66 281 C.I., (4.6L), SOHC, GAS, FI, 16 Valve, Vin X 4.6X-SC
 1996-04 V8 281 CID BORE - 90.2mm/3.55"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1996-04	SB1875-56	1 $\frac{7}{8}$ O.D.,1.600T I.D.,0.2520 Depth
		1996-98	SB1375-61	1 $\frac{3}{8}$ O.D.,1.130T I.D.,0.3040 Depth
		1999-04	SB1500-50	1 $\frac{1}{2}$ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Non-Magnetic (N) Material,Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1996-98	01699	1.752 Head Diameter,4.607 Overall Length
		1999-04	01924	1.752 Head Diameter,4.752 Overall Length
	Exh	1996-98	01698	1.339 Head Diameter,4.607 Overall Length
		1999-04	01925	1.418 Head Diameter,4.681 Overall Length
Keeper	Both	1996-04	121-1084	3 RD Bead Type
Stem Seal	Both	1996-04	122-1449	Positive Type,Viton Material,Top Hat Style,W/ Straight Guide
Guide	Both	1996-04	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,W/ Non Stepped O.D., +2, +3 O/S Available
Spring	Both	1996-98	160-1408	2.115 Length,Conical, Large End O.D. 1.040"
		1999-04	160-1411	2.101 Length,Conical, Large End O.D. 1.069",NOTE:These springs are for castings that have slotted spring seats in order to accept the larger O.D. spring
Lifter	Both	1996-04	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1996-04	180-1284	Roller Cam Follower
Head Bolt Set		1996-04	220-1023	Torque To Yield,2 Required
		1996-04	220-1125	Torque To Yield,2 Required; Improved Design
Head Saver Shim		1996-04	230-2052L	Left,New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980
		1996-04	230-2052R	Right,New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980

67 281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin R, V "In Tech" FOC4.6-DC
 1993-04 V8 281 CID BORE - 90.2mm/3.55"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-04	SB1500-79	1 $\frac{1}{2}$ O.D.,1.295 I.D.,0.2620 Depth

(Cont'd) FORD / PASSENGER CAR**281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin R, V "In Tech"**
1993-04 V8 281 CIDFOC4.6-DC **67**
BORE - 90.2mm/3.55" (cont.)

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1993-04	SB1250-61	1¼ O.D.,0.976 I.D.,0.1800 Depth
Valve	Int 1993-04	01709	1.456 Head Diameter
	Exh 1993-04	01708	1.181 Head Diameter
Keeper	Both 1993-04	121-1084	3 RD Bead Type
Stem Seal	Both 1995-04	122-1419	Positive Type,Viton Material,Top Hat Style,Except 1993-94 Lincoln Mark VIII
Guide	Both 1993-04	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,W/ Non Stepped O.D., +2, +3 O/S Available
Spring	Both 1993-95	160-1269	1.660 Length
	1996-04	160-1425	1.736 Length,Conical
Lifter	Both 1993-04	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both 1993-04	180-1284	Roller Cam Follower
Head Bolt Set	1993-04	220-1023	Torque To Yield,2 Required
	1993-04	220-1125	Torque To Yield,2 Required; Improved Design

281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin Y "Supercharged"
2003-04 V8 281 CIDFOC4.6DC-Y **68**
BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2003-04	SB1500-79	1½ O.D.,1.295 I.D.,0.2620 Depth
	Exh 2003-04	SB1250-61	1¼ O.D.,0.976 I.D.,0.1800 Depth
Valve	Int 2003-04	01709	1.456 Head Diameter
	Exh 2003-04	01708	1.181 Head Diameter
Keeper	Both 2003-04	121-1084	3 RD Bead Type
Stem Seal	Both 2003-04	122-1419	Positive Type,Viton Material,Top Hat Style
Guide	Both 2003-04	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,W/ Non Stepped O.D., +2, +3 O/S Available
Spring	Both 2003-04	160-1425	1.736 Length,Conical
Lifter	Both 2003-04	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both 2003-04	180-1284	Roller Cam Follower
Head Bolt Set	2003-04	220-1023	Torque To Yield,2 Required

281 C.I., (4.6L), SOHC, GAS, FI, 24 Valve, Vin H
2005-10 V8 281 CID4.6W-SC **69**
BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2005-10	SB1375-50	1% O.D.,1.109T I.D.,0.2550 Depth
	Exh 2005-10	SB1500-73	1½ O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material
	2005-10	SB1500-73N	1½ O.D.,1.230 I.D.,0.2780 Depth,CNG
Valve	Int 2005-10	02118	1.331 Head Diameter
	2005-10	02118S	1.331 Head Diameter,Stellite Face,CNG
	Exh 2005-10	02119	1.479 Head Diameter,Inconel
	2005-10	02119S	1.479 Head Diameter,Inconel, Stellite Face,CNG
Keeper	Both 2005-10	121-1082	3 RD Bead Type
Stem Seal	Both 2005-10	122-1356	Positive Type,Viton Material,Top Hat Style
Guide	Both 2005-10	140-3047	0.2371 I.D.,1.725 Length,0.4360 O.D.
Spring	Both 2005-10	160-1485	2.169 Length,Conical
Lifter	Both 2005-10	VL180	Hydraulic Lash Adjuster Type,W/ Undercut Groove On Boss
Rocker Components	Both 2005-10	180-1330	Cam Follower

FORD / PASSENGER CAR (Cont'd)

70 289 C.I., (4.7L), OHV, GAS, CARB, 16 Valve, Vin A, C, D, K
1963-68 V8 289 CID

FOC289
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1963-64	SB1750-2 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	1963-68	SB1812-3 1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth, W/ 1.781 Valve Head Dia.
		1963-68	SB1562-1 1 ¹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1964-65	00947 1.781 Head Diameter, Except Special 4 Bbl. Taxi & Police .240 Tip To Groove
		1966-68	01001 1.780 Head Diameter, Except Special 4 Bbl. Taxi & Police, 0.360 Tip To Groove, +15 O/S Stem Available
	Exh	1963-65	00742 1.450 Head Diameter, Except Special 4 Bbl. Taxi & Police .240 Tip To Groove
		1966-68	01000 1.451 Head Diameter, Except Special 4 Bbl. Taxi & Police, .360 Tip To Groove +15 O/S Stem Available
Keeper	Both	1963-68	121-1003 1 SQ Bead Type
Stem Seal	Both	1963-68	122-1014 Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D.
		1963-68	122-1038 Umbrella Type, Poly Material, Umbrella Style
Guide	Both	1963-68	140-5607 0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1963-68	140-9607 0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1963-66	160-1120 2.222 Length, W/O Rotator, To L-10 Change 1966
		1963-67	160-1132 2.047 Length, W/ Damper, Special
		1966-67	160-1142 1.860 Length, From L-10 Change 1966, To L-14 Change 1967
		1967-67	160-1151 1.970 Length, From L14 Change 1967
		1968-68	160-1152 2.020 Length
Lifter	Both	1963-68	VL35 Hydraulic Type, Exc. Special, Taxi & Police
		1963-68	VL48 Mechanical High Performance Type, Special, Taxi & Police
Rocker Components	Both	1963-65	180-1304 Rocker Arm, Cast
		1963-65	181-1023 Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, To 9/65
		1963-68	183-1020 Grooved Ball, ³ / ₈
		1963-68	183-1030 Smooth Ball, ³ / ₈
		1963-68	184-1038 Nut, ³ / ₈
		1966-68	180-1238 Rocker Arm, Cast, Rail Type
		1966-68	181-1041 Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, (1) ⁵ / ₁₆ Nut, From 10/65
Push Rod	Both	1963-68	192-1321 6.804 Length

71 292 C.I., (4.8L), OHV, GAS, CARB, 16 Valve
1955-62 V8 292 CID

FOC292
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1955-56	SB1812-3 1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth, W/ 1.780 Valve Head Dia.
		1957-59	SB2000-1 2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.925 Valve Head Dia.
	Exh	1960-62	SB1750-3 1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.647 Valve Head Dia.
		1955-62	SB1562-2 1 ¹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ T I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1955-56	00373 1.780 Head Diameter
		1957-59	00494 1.925 Head Diameter

(Cont'd) FORD / PASSENGER CAR**292 C.I., (4.8L), OHV, GAS, CARB, 16 Valve**
1955-62 V8 292 CID**FOC292 71**
BORE - 95.3mm/3.75" (cont.)

PART		YEARS	PART NO.	NOTES
Valve	Int	1960-62	00376	1.647 Head Diameter
	Exh	1955-62	00375	1.510 Head Diameter
Keeper	Both	1955-62	121-1003	1 SQ Bead Type
Stem Seal	Both	1955-62	122-1035	Umbrella Type,Poly Material,Umbrella Style
		1955-62	122-1047	Positive Type,Poly Material,2-Ring Style
Guide	Int	1955-56	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
		1955-62	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1955-62	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	Exh	1955-62	140-5604	0.3440 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
		1955-62	140-9604	0.3440 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Both	1955-62	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Int 1957-62 Exh 1955-56, -5 U/S I.D. Available (140-9105U)
Spring	Both	1955-62	160-1120	2.222 Length,W/O Rotator
Lifter	Both	1955-62	VL21	Mechanical Type
Push Rod	Both	1955-55	190-1221	8.258 Length
		1956-62	190-1543	8.122 Length

302 C.I., (5.0L), OHV, GAS, CARB, Vin F
1968-82 V8 302 CID**302F 72**
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-82	SB1875-1	1 ⁷ / ₈ O.D.,1 ¹ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material,Exc. Spec. Boss Mustang
	Exh	1968-82	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Exc. Spec. Boss Mustang
Valve	Int	1968-69	01001	1.780 Head Diameter,Except 1969 Special, Before L-4, 4.873 Overall Length, 0.360 Tip To Groove, +15 O/S Stem Available
		1969-77	01137	1.781 Head Diameter,0.461 Tip To Groove, 5.050 Overall Length, From Chg. L-4 To S/N BEO,001; +15 O/S Stem Available
		1978-82	01328	1.782 Head Diameter,5.070 Overall Length, 0.393 Tip To Groove, From S/N BEO.001, +3 & +15 O/S Stem Available
	Exh	1968-69	01000	1.451 Head Diameter,Except 1969 Special Before L-4, +15 O/S Stem Available
		1969-82	01135	1.451 Head Diameter,From Chg. L-4; 5.070 Overall Length, Does Not Require Lash Cap., +3 & +15 O/S Stem Available
Keeper	Both	1968-82	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-82	122-1038	Umbrella Type,Poly Material,Umbrella Style
		1968-82	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1969-82	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1968-82	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1968-82	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)

FORD / PASSENGER CAR (Cont'd)

72 302 C.I., (5.0L), OHV, GAS, CARB, Vin F **302F**
 (cont.) 1968-82 V8 302 CID **BORE - 101.6mm/4.00"**

PART	YEARS	PART NO.	NOTES	
Guide	Both	1969-71	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Int	1969-79	160-1041	1.965 Length
		1979-82	160-1044	2.040 Length,Exc. 1980-82 H-Duty Eng.
		1982-82	160-1054	1.900 Length,W/ H.O. Eng.
	Exh	1969-82	160-1024	1.923 Length,Incl. 1980-82 H-Duty Eng.
		1982-82	160-1047	2.100 Length,W/ H.O. Eng.
Both	1968-69	160-1151	1.970 Length,Before L4 Change	
Lifter	Both	1968-68	VL67RH	Hydraulic High Performance Type
		1968-71	VL48	Mechanical High Performance Type,Special
		1968-82	VL35	Hydraulic Type,Exc. Hi-Perf. & Special
Rocker Components	Both	1968-69	184-1038	Nut, 3/8, To Change L-4
		1968-78	180-1238	Rocker Arm, Cast, Rail Type
		1968-78	181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) 3/8 Nut, (1) 5/16 Nut, From Change L-4
		1968-78	183-1020	Grooved Ball, 3/8
		1968-78	183-1030	Smooth Ball, 3/8
		1970-78	184-1039	Nut, 5/16, From Change L-4
		1978-82	180-1234	Rocker Arm, Stamped
		1978-82	181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt
		1978-82	183-1022	Fulcrum
		1978-82	184-1035	Bolt W/Washer, 5/16, From Change L-4
Push Rod	Both	1968-69	192-1321	6.804 Length,Exc. Special
		1969-82	192-1409	6.876 Length,- 60 U/S (192-1409U60) Available

73 302 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin E, F, T **302TEF**
 1982-95 V8 302 CID **BORE - 101.6mm/4.00"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-95	SB1875-6	1 7/8 O.D., 1 5/8 I.D., 7/32 Depth, Exc. 1993-95 Mustang Cobra
		1982-95	SB1500-4	1 1/2 O.D., 1 7/32 I.D., 7/32 Depth, Recommended For Use On Late Model Cylinder Head W/ Thin Wall Section, Exc. 1993-95 Mustang Cobra
	Exh	1982-95	SB1562-1	1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. 1992-95 Mustang Cobra
		1982-95	SB1562-36	1 9/16 O.D., 1 5/16 I.D., 3/16 Depth, Also Available In Non-Magnetic (N) Material, Recommended For Use On Late Model Cylinder Head W/ Thin Wall Section
Valve	Int	1982-95	01328	1.782 Head Diameter, 5.070 Overall Length, Exc. 1987-95 Mustang Cobra, +3 & +15 O/S Stem Available
		1986-91	01538	1.782 Head Diameter, 4.942 Overall Length
		1993-95	01701	1.842 Head Diameter, Mustang Cobra
	Exh	1982-95	01135	1.451 Head Diameter, Exc. Mustang Cobra, 5.070 Overall Length., +3 & +15 O/S Stem Available
		1986-91	01537	1.451 Head Diameter, 4.942 Overall Length
		1993-95	01877	1.541 Head Diameter, Mustang Cobra
Keeper	Both	1982-95	121-1003	1 SQ Bead Type
Stem Seal	Int	1992-95	122-1200	Positive Type, Viton Material, Metal Clad Style, W/ OEM Guide Dia.
	Exh	1992-95	122-1199	Positive Type, Viton Material, Metal Clad Style, W/ OEM Guide Dia.
	Both	1982-95	122-1038	Umbrella Type, Poly Material, Umbrella Style

(Cont'd) FORD / PASSENGER CAR**302 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin E, F, T**
1982-95 V8 302 CID**302TEF 73**
BORE - 101.6mm/4.00" (cont.)

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1982-95	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1982-95	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1982-95	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1982-95	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	1982-91	160-1004	2.060 Length,1982-89 Exc. H.O. Eng., Exc. 1990-91 Cougar, Mustang, Thunderbird & Town Car
		1982-95	160-1044	2.040 Length
		1982-95	160-1071	2.028 Length,1982-89 H.O. Eng. 1990-91 Cougar, Mustang, Thunderbird & Town Car, 1992-95 All Exc. Cobra
	Exh	1982-95	160-1024	1.923 Length,Exc. H.O. Eng., Exc. 1990-91 Cougar, Mustang, Thundebird & Town Car
	Both	1982-95	160-1054	1.900 Length,1983-89 H.O. Eng., 1990-91 Cougar, Mustang, Thunderbird & Town Car, 1992-95 All Exc. Cobra
Lifter	Both	1982-85	VL35	Hydraulic Type,Exc. Hi-Perf.
		1985-95	VL100	Hydraulic Roller Type
Rocker Components	Both	1982-95	180-1234	Rocker Arm, Stamped
		1982-95	181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5 ¹ / ₁₆ Bolt
		1982-95	183-1022	Fulcrum
		1982-95	184-1035	Bolt W/Washer, 5 ¹ / ₁₆
Push Rod	Both	1982-85	192-1409	6.876 Length,- 60 U/S (192-1409U60) Available,W/ Hyd. Lifters
		1982-95	190-1473	6.248 Length,- 57 U/S (190-1473U57) Available,W/ Roller Lifters
Head Bolt Set		1992-95	220-1033	Torque To Yield,2 Required

302 C.I., (5.0L), DOHC, GAS, FI, 32 Valve, Vin F
2011-17 V8 302 CID**FOC5.0DC-GT 74**
BORE - 92.2mm/3.63"

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-17	13294	1.457 Head Diameter
	Exh	2011-14	13295	1.220 Head Diameter
Keeper	Both	2011-17	121-1082	3 RD Bead Type
Stem Seal	Both	2011-17	122-1447	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-17	140-3166	0.2373 I.D.,1.715 Length,0.4395 O.D.
Spring	Both	2011-14	160-1617	2.075 Length,Conical
Lifter	Both	2011-16	VL575	Hydraulic Lash Adjuster Type

302 C.I., (5.0L), DOHC, GAS, FI, 32 Valve, Vin U "BOSS"
2012-13 V8 302 CID**FOC5.0DC-BOSS 75**
BORE - 92.2mm/3.63"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2012-13	121-1082	3 RD Bead Type
Stem Seal	Both	2012-13	122-1447	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2012-13	VL575	Hydraulic Lash Adjuster Type

FORD / PASSENGER CAR (Cont'd)

76 312 C.I., (5.1L), OHV, GAS, CARB, 16 Valve
1956-60 V8 312 CID

FOC312
BORE - 96.4mm/3.80"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1956-56	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth, W/ 1.780 Valve Head Dia.
		1957-59	SB2000-1	2.000 O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.925 Valve Head Dia.
	Exh	1960-60	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.647 Valve Head Dia.
		1956-60	SB1562-2	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1956-56	00373	1.780 Head Diameter
		1957-59	00494	1.925 Head Diameter
		1960-60	00376	1.647 Head Diameter
	Exh	1956-60	00375	1.510 Head Diameter
Keeper	Both	1956-60	121-1003	1 SQ Bead Type
Stem Seal	Both	1956-57	122-1074	Positive Type, Viton Material, Ring & Band Style
Guide	Int	1956-60	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1956-60	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
	Exh	1956-60	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1956-60	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
Spring	Both	1956-57	160-1120	2.222 Length, W/O Rotator
Lifter	Both	1956-60	VL21	Mechanical Type
Push Rod	Both	1956-60	190-1543	8.122 Length

77 330 C.I., (5.4L), DOHC, GAS, FI, 32 Valve, Vin S "Supercharged"
2005-12 V8 330 CID

FOC5.4DC-32V
BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2005-12	121-1084	3 RD Bead Type
Stem Seal	Both	2005-12	122-1419	Positive Type, Viton Material, Top Hat Style
Lifter	Exh	2005-12	VL176	Hydraulic Lash Adjuster Type
Rocker Components	Both	2005-12	180-1325	Roller Cam Follower

78 332 C.I., (5.4L), OHV, GAS, CARB, 16 Valve
1958-59 V8 332 CID

FOC332
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1958-59	SB2062-1	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ T I.D., ¹ / ₄ Depth
	Exh	1958-59	SB1687-1	1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1958-59	00585	2.027 Head Diameter
	Exh	1958-59	01242	1.559 Head Diameter, +15 O/S Stem Available
Keeper	Both	1958-59	121-1007	1 SQ Bead Type
Stem Seal	Both	1958-59	122-1011	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.500 O.D.
		1958-59	122-1033	Umbrella Type, Poly Material, Umbrella Style
Guide	Both	1958-59	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1958-59	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

(Cont'd) FORD / PASSENGER CAR**332 C.I., (5.4L), OHV, GAS, CARB, 16 Valve**
1958-59 V8 332 CIDFOC332 **78**
BORE - 101.6mm/4.00" (cont.)

PART		YEARS	PART NO.	NOTES
Spring	Both	1958-59	160-1124	2.260 Length,W/ Damper
Lifter	Both	1958-59	VL9	Hydraulic Type
Rocker Components	Both	1958-59 1958-59	180-1059 186-1090	Rocker Arm, Cast Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1958-59	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

351 C.I., (5.8L), OHV, GAS, CARB, Vin G, H, M "Windsor"
1969-91 V8 351 CID351W **79**
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1969-74	SB1937-1	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth
		1975-91	SB1875-6	1 ⁷ / ₈ O.D.,1 ¹⁵ / ₈ I.D., ⁷ / ₃₂ Depth,W/ 1.782 Valve Head Dia.
	Exh	1969-74	SB1625-1	1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.541 Valve Head Dia.
		1975-91	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.451 & 1.461 Valve Head Dia.
Valve	Int	1969-74	01238	1.842 Head Diameter,+15 O/S Stem Available
		1975-91	01328	1.782 Head Diameter,1975-79 All, 1980-91 Exc. H.O. Police & Trailer Towing Pkg., +3 & +15 O/S Stem Available
	Exh	1969-74	01237	1.541 Head Diameter,+15 O/S Stem Available
		1975-76	01327	1.461 Head Diameter,1975-76 All, 1977-78 W/ Cast Iron Rocker Arms, W/O Rotators
		1978-91	01135	1.451 Head Diameter,W/ Steel Rocker Arms, Does Not Require Lash Cap, +3 & +15 O/S Stem Available
Keeper	Both	1969-91	121-1003	1 SQ Bead Type
Stem Seal	Both	1969-91	122-1038	Umbrella Type,Poly Material,Umbrella Style
		1969-91	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
	1975-91	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems	
Guide	Both	1969-91	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1969-91	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	1980-91	160-1044	2.040 Length,Exc. H.O. Eng.
		1980-91	160-1047	2.100 Length,W/ H.O., Trailer Package
	Exh	1977-91	160-1024	1.923 Length,Exc. H.O. Eng.
		1980-91	160-1054	1.900 Length,W/ H.O., Trailer Package
	Both	1969-69	160-1159	2.073 Length,W/ Damper
1970-79		160-1004	2.060 Length,Exc. 1977-79 Exh.	
Lifter	Both	1969-91	VL35	Hydraulic Type
Rocker Components	Both	1969-78	180-1238	Rocker Arm, Cast, Rail Type
		1969-78	181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, (1) ⁵ / ₁₆ Nut
		1969-78	183-1020	Grooved Ball, ³ / ₈
		1969-78	184-1039	Nut, ⁵ / ₁₆
		1969-91	183-1030	Smooth Ball, ³ / ₈
		1978-91	180-1234	Rocker Arm, Stamped
		1978-91	181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) ⁵ / ₁₆ Bolt

FORD / PASSENGER CAR (Cont'd)

79 351 C.I., (5.8L), OHV, GAS, CARB, Vin G, H, M "Windsor" 351W
 (cont.) 1969-91 V8 351 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1978-91	183-1022	Fulcrum
		1978-91	184-1035	Bolt W/Washer, 5/16
Push Rod	Both	1969-78	192-1399	8.152 Length,W/ Cast Iron Rocker Arms
		1978-91	190-1443	8.182 Length,W/ Stamped Rocker Arms

80 351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin H, Q, R "Cleveland" 351C
 1972-74 V8 351 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1972-72	SB2250-2	2¼ O.D., 17/8 I.D., 9/32 Depth,W/ 2.190 Valve Head Dia.
		1972-74	SB2125-1	2½ O.D., 1¾ I.D., ¼ Depth,W/ 2.041 Valve Head Dia.
	Exh	1972-72	SB1812-4	1¾ I.D., 1¾ I.D., 7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.709 Valve Head Dia.
		1972-74	SB1750-2	1¾ O.D., 1½ I.D., 7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.655 Valve Head Dia.
Valve	Int	1972-72	01172	2.190 Head Diameter,4 Bbl. Carb.
		1972-74	01170	2.041 Head Diameter,4 Groove,+15 O/S Stem Available
	Exh	1972-72	01171	1.709 Head Diameter,4 Bbl. Carb.
		1972-74	01169	1.655 Head Diameter,4 Groove,+15 O/S Stem Available
Keeper	Both	1972-74	121-1019	4 RD Bead Type
Stem Seal	Both	1972-74	122-1038	Umbrella Type,Poly Material,Umbrella Style
		1972-74	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1972-74	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1½ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1972-74	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1972-74	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1972-74	160-1154	2.060 Length,W/ Damper,W/ 4 Bbl. Carb.
		1972-74	160-1160	2.026 Length,W/ Damper,Boss Engine
		1972-74	160-1161	2.068 Length,W/ 2 Bbl. Carb.
Lifter	Both	1972-74	VL35	Hydraulic Type
Rocker Components	Both	1972-74	180-1233	Rocker Arm, Stamped
		1972-74	180-1238	Rocker Arm, Cast, Rail Type
		1972-74	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt
		1972-74	183-1022	Fulcrum
		1972-74	184-1034	Bolt, 5/16
Push Rod	Both	1972-74	190-1395	8.408 Length,Exc. Boss Special

81 351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin H "Modified" 351M
 1975-79 V8 351 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1975-79	SB2125-2	2½ O.D., 17/8 I.D., ¼ Depth
	Exh	1975-79	SB1750-2N	1¾ O.D., 1½ I.D., 7/32 Depth
Valve	Int	1975-78	01170	2.041 Head Diameter,4 Groove,+15 O/S Stem Available
		1979-79	01380	2.041 Head Diameter,1 Groove,+15 O/S Stem Available
	Exh	1975-77	01169	1.655 Head Diameter,4 Groove,0.3415 Stem Dia., 4 Groove, +15 O/S Stem Available

(Cont'd) **FORD / PASSENGER CAR**

351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin H "Modified"
1975-79 V8 351 CID

351M 81
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES
Valve	Exh 1978-79	01367	1.655 Head Diameter, 1 Groove, 0.3414 Stem Dia., +15 O/S Stem Available
Keeper	Both 1975-78	121-1019	4 RD Bead Type
	1978-79	121-1003	1 SQ Bead Type
Stem Seal	Both 1975-79	122-1038	Umbrella Type, Poly Material, Umbrella Style
	1975-79	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss
	1975-79	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both 1975-79	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Exh 1978-79	160-1041	1.965 Length, W/ Rotator
	Both 1975-79	160-1161	2.068 Length, W/O Rotator, Exc. 1978-79 Exh.
Lifter	Both 1975-79	VL35	Hydraulic Type
Rocker Components	Both 1975-79	180-1233	Rocker Arm, Stamped
	1975-79	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt
	1975-79	183-1022	Fulcrum
	1975-79	184-1034	Bolt, 5/16
Push Rod	Both 1975-79	190-1417	9.500 Length, +60 O/S (190-1417+60) & - 60 U/S (190-1417U60) Available, Exc. Boss Special

352 C.I., (5.8L), OHV, GAS, CARB, 16 Valve
1958-66 V8 352 CID

FOC352 82
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1958-66	SB2062-1	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ T I.D., 1/4 Depth
	Exh 1958-66	SB1687-1	1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int 1958-60	00585	2.027 Head Diameter, 30 Degree Seat
	1961-66	00637	2.027 Head Diameter, +15 O/S Stem Available, 45 Deg.
	Exh 1958-66	01242	1.559 Head Diameter, +15 O/S Stem Available
Keeper	Both 1958-66	121-1007	1 SQ Bead Type
Stem Seal	Both 1958-66	122-1031	Positive Type, Poly Material, 2-Ring Style
	1958-66	122-1036	Umbrella Type, Poly Material, Umbrella Style
Guide	Exh 1958-66	140-7298	0.3730 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
	Both 1958-66	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	1958-66	140-9298	0.3729 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both 1958-66	160-1124	2.260 Length, W/ Damper
Lifter	Both 1958-66	VL9	Hydraulic Type
Rocker Components	Both 1958-66	180-1059	Rocker Arm, Cast, W/ Hydraulic Lifter
	1958-66	186-1090	Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both 1958-63	190-1426	9.590 Length, +60 O/S (190-1426+60) Available, W/ Hyd. Lifters (Std. Length) W/ Ball Tips
	1964-66	190-1351	9.620 Length, +60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available, W/ Hyd. Lifters, From 1/64

FORD / PASSENGER CAR (Cont'd)

83 355 C.I., (5.8L), DOHC, GAS, FI, 32 Valve, Vin Z "Supercharged"

FOC-5.8DC

2013-14

V8 355 CID

BORE - 93.5mm/3.68"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2013-14	121-1084	3 RD Bead Type
Stem Seal	Both	2013-14	122-1419	Positive Type,Viton Material,Top Hat Style
Guide	Both	2013-14	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.

84 361 C.I., (5.9L), OHV, GAS, CARB

FOC361

1958-60

V8 361 CID

BORE - 102.87mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1958-60	SB2062-1	2 ¹ / ₁₆ O.D.,1 ¹³ / ₁₆ T I.D., ¹ / ₄ Depth
	Exh	1958-60	SB1687-1	1 ¹¹ / ₁₆ O.D.,1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1958-60	00585	2.027 Head Diameter
	Exh	1958-60	01242	1.559 Head Diameter,+15 O/S Stem Available
Keeper	Both	1958-60	121-1007	1 SQ Bead Type
Stem Seal	Both	1958-60	122-1033	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	1958-60	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1958-60	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	1958-60	140-6109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1958-60	140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Lifter	Both	1958-59	VL9	Hydraulic Type
Rocker Components	Both	1958-59	180-1059	Rocker Arm, Cast
Push Rod	Both	1958-60	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available

85 390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin 9, H, M, P, Q, R, S, X, Y, Z

FOC390

1961-71

V8 390 CID

BORE - 101.6mm/4.05"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1961-71	SB2062-1	2 ¹ / ₁₆ O.D.,1 ¹³ / ₁₆ T I.D., ¹ / ₄ Depth
	Exh	1961-71	SB1687-1	1 ¹¹ / ₁₆ O.D.,1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1961-71	00637	2.027 Head Diameter,Except Heavy Duty, +15 O/S Stem Available
	Exh	1961-71	01242	1.559 Head Diameter,+15 O/S Stem Available
Keeper	Both	1961-71	121-1007	1 SQ Bead Type
Stem Seal	Both	1961-71	122-1031	Positive Type,Poly Material,2-Ring Style
		1961-71	122-1033	Umbrella Type,Poly Material,Umbrella Style
Guide	Exh	1961-71	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1961-71	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Both	1961-71	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1961-71	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 U/S I.D. Available (140-9108U)
Spring	Both	1961-65	160-1129	2.280 Length,W/ Damper,Exc Hi-Perf. & Police.
		1963-71	160-1175	2.120 Length,W/ Damper,Incl. 1963-65 HP & Police

(Cont'd) **FORD / PASSENGER CAR**

390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin 9, H, M, P, Q, R, S, X, Y, Z FOC390 **85**
1961-71 V8 390 CID BORE - 101.6mm/4.05" (cont.)

PART	YEARS	PART NO.	NOTES
Lifter	Both 1961-71	VL9	Hydraulic Type
Rocker Components	Both 1961-71 1961-71	180-1059 186-1090	Rocker Arm, Cast,Non-Adjustable, W/ Hydraulic Lifters Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both 1961-71 1961-71	190-1351 190-1426	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available,W/ Hyd. Lifters 9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters, W/ Ball Tips

400 C.I., (6.6L), OHV, GAS, CARB, Vin S 400S **86**
1971-79 V8 400 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1971-79 Exh 1971-79	SB2125-2 SB1750-2	2 $\frac{1}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth 1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1971-78 1979-79 Exh 1971-77 1978-79	01170 01380 01169 01367	2.041 Head Diameter,4 Groove,+15 O/S Stem Available 2.041 Head Diameter,1 Groove,+15 O/S Stem Available 1.655 Head Diameter,4 Groove,+15 O/S Stem Available 1.655 Head Diameter,1 Groove,+15 O/S Stem Available
Keeper	Both 1971-78 1978-79	121-1019 121-1003	4 RD Bead Type 1 SQ Bead Type
Stem Seal	Both 1971-79 1971-79	122-1038 122-1048	Umbrella Type,Poly Material,Umbrella Style Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
Guide	Both 1971-79 1971-79	140-5607 140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh 1978-79 Both 1973-79	160-1041 160-1162	1.965 Length,W/ Rotator 2.056 Length,W/O Rotator, Exc. 1978-79 Exh.
Lifter	Both 1971-79	VL35	Hydraulic Type
Rocker Components	Both 1971-79 1971-79 1971-79 1971-79	180-1233 181-1034 183-1022 184-1034	Rocker Arm, Stamped Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) $\frac{5}{16}$ Bolt Fulcrum Bolt, $\frac{5}{16}$
Push Rod	Both 1971-79	190-1417	9.500 Length,+60 O/S (190-1417+60) & - 60 U/S (190-1417U60) Available,Exc. Boss Special

406 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin B, G FOC406 **87**
1962-63 V8 406 CID BORE - 105mm/4.13"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1962-63 Exh 1962-63 1962-63	SB2062-1 SB1687-1 SB1750-2	2 $\frac{1}{16}$ O.D.,1 $\frac{13}{16}$ T I.D., $\frac{1}{4}$ Depth 1 $\frac{11}{16}$ O.D.,1 $\frac{13}{32}$ I.D., $\frac{1}{4}$ Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material,W/ 1.559 Valve Head Dia. 1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.652 Valve Head Dia.
Valve	Int 1962-63 Exh 1962-63	00585 01242	2.027 Head Diameter 1.559 Head Diameter,+15 O/S Stem Available
Keeper	Both 1962-63	121-1007	1 SQ Bead Type

FORD / PASSENGER CAR (Cont'd)

87 406 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin B, G
(cont.) 1962-63 V8 406 CID

FOC406
BORE - 105mm/4.13"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1962-63	122-1031	Positive Type,Poly Material,2-Ring Style
		1962-63	122-1033	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	1962-63	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1962-63	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	1962-63	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1962-63	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1962-63	160-1154	2.060 Length,W/ Damper

88 410 C.I., (6.7L), OHV, GAS, CARB, 16 Valve, Vin M
1966-67 V8 410 CID

FOC410
BORE - 102.9mm/4.05"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1966-67	SB2062-1	2 ¹ / ₁₆ O.D.,1 ¹³ / ₁₆ T I.D., ¹ / ₄ Depth
	Exh	1966-67	SB1687-1	1 ¹¹ / ₁₆ O.D.,1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1966-67	00637	2.027 Head Diameter,Except Heavy Duty, +15 O/S Stem Available
	Exh	1966-67	01242	1.559 Head Diameter,+15 O/S Stem Available
Keeper	Both	1966-67	121-1007	1 SQ Bead Type
Stem Seal	Both	1966-66	122-1036	Umbrella Type,Poly Material,Umbrella Style,Police Interceptor., .645 Seal Height
		1966-67	122-1033	Umbrella Type,Poly Material,Umbrella Style,Exc. 1966 Police Interceptor., .790 Seal Height
Guide	Both	1966-67	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1966-67	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Lifter	Both	1966-67	VL9	Hydraulic Type
Push Rod	Both	1966-67	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available

89 428 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin P, Q, R
1966-70 V8 428 CID

FOC428
BORE - 104.9mm/4.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1966-70	SB2125-2	2 ¹ / ₈ O.D.,1 ⁷ / ₈ I.D., ¹ / ₄ Depth,Exc. CJ & SCJ W/ 2.027 Valve Head Dia.
		1968-70	SB2250-1	2 ¹ / ₄ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth,CJ & SCJ W/ 2.090 Valve Head Dia.
	Exh	1966-70	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Exc. CJ & SCJ W/ 1.559 Valve Head
		1968-70	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.652 Valve Head Dia.
Valve	Int	1966-70	00637	2.027 Head Diameter,Except 67-68 Police or SCJ & CJ, +15 O/S Stem Available
	Exh	1966-70	01242	1.559 Head Diameter,Except CJ & SCJ, +15 O/S Stem Available
Keeper	Both	1966-70	121-1007	1 SQ Bead Type

(Cont'd) **FORD / PASSENGER CAR**

428 C.I., (7.0L), OHV, GAS, CARB, 16 Valve, Vin P, Q, R
1966-70 V8 428 CID

FOC428 89
BORE - 104.9mm/4.13" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1966-70	122-1031	Positive Type,Poly Material,2-Ring Style
		1966-70	122-1033	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	1966-70	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1966-70	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	Both	1966-70	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
		1966-70	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1966-70	160-1154	2.060 Length,W/ Damper
		1966-70	160-1175	2.120 Length,W/ Damper
Rocker Components	Both	1966-70	180-1059	Rocker Arm, Cast,Non-Adjustable, W/ Hydraulic Lifters, Exc. 1966 Police
		1966-70	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1966-67	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available,W/ Hyd. Lifters, To 1/68
		1968-70	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

429 C.I., (7.0L), OHV, GAS, CARB, Vin C, J, K, N, P, Z
1968-73 V8 429 CID

FOC429 90
BORE - 110.7mm/4.36"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1968-73	SB2250-1	2¼ O.D., 1 ¹⁵ / ₁₆ I.D., ¾ Depth,Exc. CJ, SCJ & Police
		1968-73	SB1750-2	1¾ O.D., 1½ I.D., 7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.654 Valve Head Dia.
		1968-73	SB1750-38	1¾ O.D., 1¼ I.D., 7/32 Depth,SCJ, W/ 1.725 Valve Head Dia.
Valve	Int	1968-72	01103	2.083 Head Diameter,5.288 Overall Length Exc. Police, Cobra Jet & Special
		1973-73	01272	2.083 Head Diameter,5.198 Overall Length, Exc. Police, Cobra Jet & Special, +15 O/S Stem Available
	Exh	1968-72	01102	1.654 Head Diameter,5.080 Overall Length, Exc. Police, Cobra Jet & Special
		1973-73	01271	1.654 Head Diameter,4.983 Overall Length, Exc. Police, Cobra Jet & Special, +15 O/S Stem Available
Keeper	Both	1968-73	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-73	122-1041	Umbrella Type,Poly Material,Umbrella Style
		1968-73	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
Guide	Both	1968-73	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1968-73	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1968-73	160-1160	2.026 Length,W/ Damper,Hi-Perf. & Police
		1968-73	160-1161	2.068 Length,Exc. Hi-Perf. & Police
Lifter	Both	1968-69	VL67RH	Hydraulic High Performance Type
		1968-73	VL35	Hydraulic Type,Exc. 1970 Cobra Jet & Police
		1970-71	VL48	Mechanical High Performance Type,Cobra Jet & Police
Rocker Components	Both	1968-73	180-1233	Rocker Arm, Stamped
		1968-73	184-1038	Nut, ¾

FORD / PASSENGER CAR (Cont'd)

90 429 C.I., (7.0L), OHV, GAS, CARB, Vin C, J, K, N, P, Z FOC429
 (cont.) 1968-73 V8 429 CID BORE - 110.7mm/4.36"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1970-72	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt, Police, Cobra Jet, Super Cobra Jet, Exc. Special Fulcrum, Police, Cobra Jet, Super Cobra Jet, Exc. Special Bolt, 5/16, Police, Cobra Jet, Super Cobra Jet, Exc. Special
		1970-72	183-1022	
		1970-72	184-1034	
Push Rod	Both	1969-71	190-1396	8.648 Length, Exc. Police, Cobra Jet & Super Cobra Jet (To Early 1971), From 4/69 8.550 Length, +60 O/S (190-1425+60) Available, Exc. Police & Cobra Jet 8.686 Length, Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available
		1970-73	190-1425	
		1971-71	190-1433	

91 460 C.I., (7.5L), OHV, GAS, CARB, Vin A, C FOC460
 1968-78 V8 460 CID BORE - 110.74mm/4.36"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-78	SB2250-1	2 1/4 O.D., 1 15/16 I.D., 3/16 Depth 1 3/4 O.D., 1 1/2 I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1968-78	SB1750-2	
Valve	Int	1968-72	01103	2.083 Head Diameter, 5.288 Overall Length 2.083 Head Diameter, 5.198 Overall Length, Exc. Police, +15 O/S Stem Available
		1973-78	01272	
	Exh	1968-72	01102	1.654 Head Diameter, 5.080 Overall Length 1.654 Head Diameter, 4.983 Overall Length, Exc. Police, +15 O/S Stem Available
		1973-78	01271	
Keeper	Both	1968-78	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-78	122-1041	Umbrella Type, Poly Material, Umbrella Style Positive Type, Viton Material, Ring & Band Style
		1968-78	122-1074	
Guide	Both	1968-78	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U) 0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
		1968-78	140-9606	
Spring	Both	1972-78	160-1160	2.026 Length, W/ Damper, Hi-Perf. & Police 2.068 Length, Exc. Hi-Perf. & Police
		1972-78	160-1161	
Lifter	Both	1968-78	VL35	Hydraulic Type
Rocker Components	Both	1968-78	184-1038	Nut, 3/8 Rocker Arm, Stamped Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt Fulcrum Bolt, 5/16
		1972-78	180-1233	
		1972-78	181-1034	
		1972-78	183-1022	
		1972-78	184-1034	
Push Rod	Both	1969-71	190-1396	8.648 Length, Exc. Police, Cobra Jet & Super Cobra Jet (To Early 1971), From 4/69 8.550 Length, +60 O/S (190-1425+60) Available, Exc. Police & Cobra Jet
		1972-78	190-1425	

FORD TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
4 Cylinder		
1803cc, (1.8L), SOHC, GAS, CARB, Vin A "Mazda" (1972-78)	Courier	1
1970cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin C, 1 "Mazda" (1979-81)	Courier	2

(Cont'd) FORD TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
4 Cylinder		
121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin B "ZETEC" (2001-04)	Escape	3
121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin N "DURATEC" (2010-13)	Transit Connect	4
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 9 "Ecoboost" (2012-17)	Edge, Escape, Explorer, MKC, MKT	5
122 C.I., (2.0L), SOHC, GAS, CARB, 8 Valve, Vin C (1983-88)	Ranger	6
140 C.I., (2.3L), SOHC, GAS, CARB, 8 Valve, Vin 2, B (1977-82)	Courier	7
140 C.I., (2.3L), OHV, DIESEL, FI, 8 Valve, Vin E "TURBO Mitsubishi" (1985-87)	Ranger	8
140 C.I., (2.3L), SOHC, GAS, CARB, 8 Valve, Vin A (1983-84)	Ranger	9
140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin A (1985-97)	Aerostar, Ranger	10
140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin D, Z "DURATEC" (2001-11)	Escape, Mariner, Ranger	11
140 C.I., (2.3L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin H, "HYBRID" (2005-08)	Escape, Mariner	12
140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin H "Ecoboost" (2015-17)	Explorer, MKC	13
152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin 7 "DURATEC" (2009-17)	Escape, Mariner	15
152 C.I., (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 3 "Duratec Hybrid" (2009-12)	Escape, Mariner	16
152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin 7 "DURATEC" (2014-17)	Transit Connect	17
152 C.I., (2.5L), DOHC, CNG, LPG, FI, 16 Valve, Vin 7 "DURATEC" (2014-17)	Transit Connect CNG/LPG	18
153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin C (1998-01)	F-100 Ranger, Ranger	19
5 Cylinder		
195 C.I., (3.2L), DOHC, DIESEL, FI, 20 Valve, Vin V "Powerstroke" (2015-17)	Transit-150, Transit-250, Transit-350, Transit-350 HD	26
6 Cylinder		
144 C.I., (2.4L), OHV, GAS, CARB, 12 Valve, Vin D, S (1960-64)	Falcon Sedan Delivery, Ranchero	14
164 C.I., (2.7L), DOHC, GAS, FI, 24 Valve, Vin P "Ecoboost" (2015-17)	Edge, F-150, MKX	20
170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin F, U (1962-72)	Bronco, Falcon Sedan Delivery, Ranchero	21
171 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin S (1983-86)	Aerostar, Bronco II, Ranger	22
177 C.I., (2.9L), OHV, GAS, FI, 12 Valve, Vin T (1986-92)	Bronco II, Ranger	23
181 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, G, "DURATEC" (2001-12)	Escape, Mariner	24
182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin U, V "VULCAN" (1986-08)	Aerostar, Ranger, Windstar	25
200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin T (1965-65)	Falcon Sedan Delivery, Ranchero	27
200 C.I., (3.3L), OHV, GAS, CARB, Vin T (1973-74)	Bronco	28

FORD TRUCK / PASSENGER TRUCK (Cont'd)

Engine	Models	Line No.
6 Cylinder		
3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin T "VG33E NISSAN" (1999-02)	Villager	29
213 C.I., (3.5L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 8, C "DURATEC" (2007-17)	Edge, Explorer, F-150, Flex, MKX	30
213 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, Vin G, T "Ecoboost" (2010-17)	Expedition, Explorer, F-150, Flex, MKT, Navigator, Police Interceptor Utility, Transit-150, Transit-250, Transit-350, Transit-350 HD	31
223 C.I., (3.6L), OHV, GAS, CARB, 12 Valve, Vin A, J, V (1954-64)	Courier Sedan Delivery, F Series, F-100, F-250, F-350, P-100, P-350, Ranchero	32
227 C.I., (3.7L), DOHC, FLEX, GAS, FI, 24 Valve, Vin K, M, R "DURATEC" (2010-17)	Edge, F-150, MKT, MKX, Police Interceptor Utility, Transit-150, Transit-250, Transit-350, Transit-350 HD	33
227 C.I., (3.7L), DOHC, CNG, LPG, FI, 24 Valve, Vin M (2014-17)	F-150, Transit-150, Transit-250, Transit-350, Transit-350 HD	34
232 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 3 (1982-83)	F-100	35
232 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 4 (1995-03)	Windstar	36
238 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin 6 (2004-07)	Freestar	37
240 C.I., (3.9L), OHV, GAS, CARB, Vin 1, A, B, E, J, V (1965-74)	Bronco, Club Wagon, E-100 Econoline, E-200 Econoline, E-300 Econoline, Econoline, F-100, F-250, F-350, P-100, P-350	40
245 C.I., (4.0L), OHV, GAS, FI, 12 Valve, Vin X (1990-01)	Explorer, Ranger	41
245 C.I., (4.0L), SOHC, FLEX, GAS, FI, 12 Valve, Vin E, K (1997-11)	Explorer, Explorer Sport Trac, Mountaineer, Ranger	42
256 C.I., (4.2L), OHV, GAS, FI, 12 Valve, Vin 2 (1997-08)	E-150, E-150 Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-250, E-250 Econoline, F-150, F-150 Heritage, Freestar, Monterey	44
262 C.I., (4.3L), OHV, GAS, CARB, 12 Valve, Vin B (1961-64)	F-100, F-250, F-350	46
300 C.I., (4.9L), OHV, GAS, CARB, 12 Valve, Vin B "Heavy Duty" (1965-79)	E-100 Econoline, E-100 Econoline Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-200 Econoline, E-250 Econoline, E-250 Econoline Club Wagon, E-300 Econoline, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-250, F-350, P-350, P-400, P-500	53
300 C.I., (4.9L), OHV, GAS, CARB, 12 Valve, Vin B, E, Y (1965-86)	Bronco, E-100 Econoline, E-100 Econoline Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-200 Econoline, E-250 Econoline, E-250 Econoline Club Wagon, E-300 Econoline, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-250, F-350, P-350, P-400, P-500	54
300 C.I., (4.9L), OHV, GAS, FI, 12 Valve, Vin Y "Light Duty" (1987-96)	Bronco, E-150 Econoline, E-150 Econoline Club Wagon, E-250 Econoline, E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F-150, F-250, F-350	55
300 C.I., (4.9L), OHV, BI-FUEL, FI, 12 Valve, Vin Z "LPG" (1994-96)	E-250 Econoline, E-350 Econoline Club Wagon, F-150, F-250	56
401 C.I., (6.6L), DIESEL, FI, Vin P "Turbo Brazilian" (1986-94)	B600, B700, CF6000, CF7000, CF8000, F600, F600 LPO, F700, F800, FT900, LN7000, LN8000, LTS8000F	85

(Cont'd) FORD TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
6 Cylinder		
473 C.I., (7.8L), DIESEL, FI, Vin A "Turbo Brazilian" (1987-94)	B700, C8000, CF8000, CFT8000, F600, F700, F800, FT900, L8000F, LA8000F, LN7000, LN8000, LNT8000F, LS8000F, LT8000F, LTS8000F	98
8 Cylinder		
239 C.I., (3.9L), L-HEAD, GAS, CARB, 16 Valve "L-HEAD" (1949-53)	Courier Sedan Delivery, F1, F-100, F2, F-250, F3, F-350, F4, M-47	38
239 C.I., (3.9L), OHV, GAS, CARB, 16 Valve, Vin U (1954-55)	Courier Sedan Delivery, F-100, F-250, F-350	39
255 C.I., (4.2L), OHV, GAS, CARB, 16 Valve, Vin D (1981-82)	F-100	43
256 C.I., (4.2L), OHV, GAS, CARB (1954-55)	Pickup	45
272 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin B, M, U (1956-57)	Courier Sedan Delivery, F Series, F-100, F-250, F-350, Ranchero	47
281 C.I., (4.6L), SOHC, FLEX, GAS, FI, 16 Valve, Vin 6, W "TRITON" (1997-14)	E-150, E-150 Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-250, Expedition, Explorer, F-150, F-150 Heritage, F-250, Mountaineer	48
281 C.I., (4.6L), SOHC, GAS, FI, 24 Valve, Vin 8 (2006-10) ..	Explorer, Explorer Sport Trac, F-150, Mountaineer	49
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin H (2003-05) ..	Aviator	50
289 C.I., (4.7L), OHV, GAS, CARB, 16 Valve, Vin A, C, N (1965-68)	Bronco, Falcon Sedan Delivery, Ranchero	51
292 C.I., (4.8L), OHV, GAS, CARB, 16 Valve, Vin C, D (1958-64)	Courier Sedan Delivery, F Series, F-100, F-250, F-350, P-350, Ranchero	52
302 C.I., (5.0L), OHV, GAS, CARB (1956-63)	F-Series	57
302 C.I., (5.0L), OHV, GAS, CARB, Vin B, F, G (1969-85) ..	Bronco, E-100 Econoline, E-100 Econoline Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-200 Econoline, E-250 Econoline, E-250 Econoline Club Wagon, E-300 Econoline, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-250, F-350, P-350, P-400, P-500, Ranchero	58
302 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin N, P (1986-01)	Bronco, E-150 Econoline, E-150 Econoline Club Wagon, E-250 Econoline, Explorer, F-150, F-250	59
302 C.I., (5.0L), DOHC, FLEX, FI, 32 Valve, Vin F (2011-17) ..	F-150	60
330 C.I., (5.4L), OHV, GAS, CARB "Heavy Duty" (1964-79) ..	M-450 Motor Home	61
330 C.I., (5.4L), OHV, GAS, CARB, 16 Valve "Medium Duty" (1964-77)	F-500	62
330 C.I., (5.4L), SOHC, GAS, FI, 16 Valve, Vin 3 "Triton Supercharged" (1999-04)	F-150 Lightning, F-150 Heritage	63
330 C.I., (5.4L), SOHC, BI-FUEL, CNG, FLEX, GAS, LPG, FI, 16 Valve, Vin 3, L, M, Z "TRITON" (1997-16)	E-150, E-150 Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-250, E-250 Econoline, E-350 Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, E-350 Super Duty, Excursion, Expedition, F-150, F-150 Heritage, F-250, F-250 Super Duty, F-350 Super Duty, Navigator	64
330 C.I., (5.4L), SOHC, FLEX, GAS, FI, 24 Valve, Vin 5, V (2004-14)	Expedition, F-150, F-250 Super Duty, F-350 Super Duty, Mark LT, Navigator	65
330 C.I., (5.4L), DOHC, GAS, FI, 32 Valve, Vin A, R "In-Tech" (1999-04)	Blackwood, Navigator	66

FORD TRUCK / PASSENGER TRUCK (Cont'd)

Engine	Models	Line No.
8 Cylinder		
332 C.I., (5.4L), OHV, GAS, CARB, 16 Valve (1956-63)	F-100, F-250, F-350	67
351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin G, H "WINDSOR" (1975-87)	Bronco, E-100 Econoline, E-100 Econoline Club Wagon, E-150 Econoline, E-150 Econoline Club Wagon, E-250 Econoline, E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-250, F-350, Ranchero	68
351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin G, H "MODIFIED" (1977-81)	Bronco, E-250 Econoline, E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-250, F-350, Ranchero	69
351 C.I., (5.8L), OHV, GAS, FI, 16 Valve, Vin H, R "WINDSOR" (1988-97)	Bronco, E-150 Econoline, E-150 Econoline Club Wagon, E-250 Econoline, E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, Econoline Super Duty, F-150, F-250, F-250 HD, F-350	70
351 C.I., (5.8L), OHV, GAS, FI, 16 Valve, Vin R "LIGHTNING" (1993-95)	F-150 Lightning	71
352 C.I., (5.8L), OHV, GAS, CARB, Vin D (1965-67)	F-100, F-250, F-350, P-350, Ranchero	72
359 C.I., (5.9L), OHV, GAS, CARB, 16 Valve, Vin K (1974-78)	Medium Duty Truck	73
360 C.I., (5.9L), OHV, GAS, CARB, Vin Y (1968-76)	F-100, F-150, F-250, F-350, F-500, M-400, M-450, P-350	74
361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve (1964-78)	F-100, F-250, F-350	75
365 C.I., (6.0L), OHV, DIESEL, FI, 32 Valve, Vin P "Navistar Powerstroke Turbo" (2003-10)	E-350 Club Wagon, E-350 Super Duty, E-450 Super Duty, Excursion, F-250 Super Duty, F-350 Super Duty, F-450 Super Duty, F-550 Super Duty, F650, F750	76
370 C.I., (6.1L), OHV, GAS, CARB, 16 Valve Vin A, H (1979-91)	Medium Duty Applications	77
379 C.I., (6.2L), SOHC, FLEX, GAS, FI, 16 Valve, Vin 6 (2010-17)	F-150, F-250 Super Duty, F-350 Super Duty	78
389 C.I., (6.4L), OHV, GAS, CARB, 16 Valve Vin F (1975-78)	Medium Duty Applications	79
390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin H, M, S, Y (1968-76)	F-100, F-150, F-250, F-350, F-500, M-400, Ranchero	80
391 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin F (1964-78)	Medium Duty Applications	81
391 C.I., (6.4L), OHV, DIESEL, FI, 32 Valve, Vin R "Navistar MaxxForce 7" (2008-10)	F-250 Super Duty, F-350 Super Duty, F-450 Super Duty, F-550 Super Duty	82
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin S, Z (1977-82)	Bronco, E-100 Econoline, E-250 Econoline, E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-250, F-350, P-500, Ranchero	83
401 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin H (1958-76)	Medium Duty Applications	84
406 C.I., (6.7L), OHV, DIESEL, FI, 32 Valve, Vin T "Powerstroke" (2011-17)	F-250 Super Duty, F-350 Super Duty, F-450 Super Duty, F-550 Super Duty, F650, F750	86
420 C.I., (6.9L), OHV, DIESEL, FI, 16 Valve, Vin 1 "Navistar" (1983-87)	E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F-150, F-250, F-350	89
429 C.I., (7.0L), GAS, CARB, Vin C, K "Medium Duty" (1979-91)	B600, B700, C700, C800, F600, F600 LPO, F700, F800, FT800, L800, LN700, LN800, LNT800	90

(Cont'd) FORD TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
8 Cylinder		
429 C.I., (7.0L), OHV, LPG, FI, 16 Valve, Vin 8 "Medium Duty" (1991-98)	Medium Duty Applications	.91
429 C.I., (7.0L), OHV, GAS, FI, 16 Valve, Vin J "Medium Duty" (1991-98)	Medium Duty Applications	.92
445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin M "Navistar" (1988-95)	E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F Super Duty, F-250, F-350, F59	.93
445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin C, K "Navistar Turbo Indirect Inj." (1993-94)	F Super Duty, F-250, F-350, F59	.94
445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin F "Navistar Turbo Direct Inj. Power Stroke" (1994-03)	E-350 Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, E-350 Super Duty, E-450 Econoline Super Duty, E-450 Super Duty, E-550 Econoline Super Duty, E-550 Super Duty, Econoline Super Duty, Excursion, F Super Duty, F-250, F-250 HD, F-250 Super Duty, F-350, F-350 Super Duty, F-450 Super Duty, F-550 Super Duty, F59	.95
460 C.I., (7.5L), OHV, GAS, CARB, Vin A, J, L (1973-87)	E-100 Econoline, E-250 Econoline, E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, F-100, F-150, F-250, F-350, Ranchero	.96
460 C.I., (7.5L), OHV, GAS, FI, 16 Valve, Vin G (1988-97)	E-250 Econoline Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, Econoline Super Duty, F Super Duty, F-250, F-250 HD, F-350, F53	.97
475 C.I., (7.8L), OHV, GAS, CARB, 16 Valve, Vin J "Medium Duty" (1973-79)	Medium Duty Applications	.99
477 C.I., (7.8L), OHV, GAS, CARB, 16 Valve, Vin K "Medium Duty" (1958-81)	Medium Duty Applications	.100
534 C.I., (8.8L), OHV, GAS, CARB, 16 Valve, Vin L "Medium Duty" (1958-81)	Medium Duty Applications	.101
10 Cylinder		
415 C.I., (6.8L), SOHC, CNG, GAS, LPG, FI, 20 Valve, Vin S "TRITON" (1997-15)	E-350 Club Wagon, E-350 Econoline, E-350 Econoline Club Wagon, E-350 Super Duty, E-450 Econoline Super Duty, E-450 Super Duty, E-550 Econoline Super Duty, E-550 Super Duty, Econoline Super Duty, Excursion, F-250 Super Duty, F-350 Super Duty, F-450 Super Duty, F53, F-550 Super Duty	.87
415 C.I., (6.8L), SOHC, CNG, GAS, LPG, FI, 30 Valve, Vin Y "TRITON" (2005-17)	E-450 Super Duty, F-250 Super Duty, F-350 Super Duty, F-450 Super Duty, F53, F-550 Super Duty, F59, F650, F750	.88

1803cc, (1.8L), SOHC, GAS, CARB, Vin A "Mazda" 110A **1**
 1972-78 L4 110 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1972-78	SB1500-57	1½ O.D., 1.100T I.D., 0.3160 Depth
Valve	Int 1972-78	10061	1.656 Head Diameter
	Exh 1972-78	10060S	1.297 Head Diameter, Stellite Face
Keeper	Exh 1972-78	121-1026	1 RD Bead Type, 0.090 Bead Dia.

1970cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin C, 1 "Mazda" 121C1 **2**
 1979-81 L4 121 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1979-81	SB1500-57	1½ O.D., 1.100T I.D., 0.3160 Depth
Valve	Int 1979-81	10061	1.656 Head Diameter
	Exh 1979-81	10060S	1.297 Head Diameter, Stellite Face

FORD TRUCK / PASSENGER TRUCK (Cont'd)

2 1970cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin C, 1 "Mazda" 121C1
 (cont.) 1979-81 L4 121 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Keeper	Exh	1979-81	121-1026	1 RD Bead Type,0.090 Bead Dia.
Guide	Both	1979-81	140-9557	0.3180 I.D.,2.000 Length,0.5535 O.D.,W/ Snap Ring

3 121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin B "ZETEC" FOT2.0-DC
 2001-04 L4 121 CID BORE - 84.8mm/3.34"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2001-04	SB1339E-2	34mm O.D.,26mm I.D.,8.5mm Depth,Note: Adjustable Cutter Required Due To Insufficient Room Between Intake Seats
	Exh	2001-04	SB1187-51	1 ¹ / ₁₆ O.D.,0.905 I.D.,0.2570 Depth
Valve	Int	2001-04	01745	1.260 Head Diameter
	Exh	2001-04	01746	1.102 Head Diameter
Keeper	Both	2001-04	121-1101	1 RD Bead Type
Stem Seal	Both	2001-04	122-1342	Positive Type,Viton Material,Top Hat Style
Guide	Both	2001-04	140-8662	0.2390 I.D.,1.420 Length,0.4727 O.D.
Spring	Int	2001-04	160-1580	1.694 Length,Conical
	Exh	2001-04	160-1581	1.691 Length,Conical
Head Bolt Set		2001-04	220-1121	Torque To Yield,Services Engine
Head Saver Shim		2001-04	230-2082	New Hgt. - 5.230 - 5.236; Min. Hgt 5.225

4 121 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin N "DURATEC" FOT2.0-N
 2010-13 L4 121 CID BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-13	02006	1.378 Head Diameter
	Exh	2010-13	02007	1.181 Head Diameter
Keeper	Both	2010-13	121-1104	1 RD Bead Type
Stem Seal	Int	2010-13	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2010-13	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-13	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2010-13	160-1568	1.908 Length,Conical
Head Bolt Set		2010-12	220-1111	Torque To Yield,Services Engine
Head Saver Shim		2010-11	230-2144	New Hgt. - Min. Hgt. N/A

5 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 9 "Ecoboost" FOT2.0-ECO
 2012-17 L4 122 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2012-17	121-1104	1 RD Bead Type
Stem Seal	Int	2012-17	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2012-17	122-1411	Positive Type,Viton Material,Top Hat Style

6 122 C.I., (2.0L), SOHC, GAS, CARB, 8 Valve, Vin C 122C
 1983-88 L4 122 CID BORE - 89.4mm/3.52"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-88	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1983-88	SB1437-2	1 ⁷ / ₁₆ O.D.,1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1983-88	01528	1.610 Head Diameter
	Exh	1983-88	01527	1.380 Head Diameter
Keeper	Both	1983-88	121-1019	4 RD Bead Type

(Cont'd) FORD TRUCK / PASSENGER TRUCK**122 C.I., (2.0L), SOHC, GAS, CARB, 8 Valve, Vin C**
1983-88 L4 122 CID122C **6**
BORE - 89.4mm/3.52" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	1987-88	122-1200	Positive Type,Viton Material,Metal Clad Style
	Exh	1987-88	122-1199	Positive Type,Viton Material,Metal Clad Style
	Both	1983-86	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
Guide	Both	1983-88	140-9206	0.3440 I.D.,2.188 Length,0.5020 O.D.,Flanged
Lifter	Both	1983-88	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both	1983-88	180-1037	Cam Follower

140 C.I., (2.3L), SOHC, GAS, CARB, 8 Valve, Vin 2, B
1977-82 L4 140 CIDFOT140-B2 **7**
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1977-82	SB1812-2	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	1977-82	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1977-82	01598	1.735 Head Diameter
	Exh	1977-82	01597	1.500 Head Diameter
Keeper	Both	1977-82	121-1019	4 RD Bead Type
Stem Seal	Both	1977-82	122-1075	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1977-82	140-9206	0.3440 I.D.,2.188 Length,0.5020 O.D.,Flanged
Spring	Both	1977-82	160-1033	1.950 Length
Lifter	Both	1977-82	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both	1977-82	180-1037	Cam Follower
Head Bolt Set		1977-82	220-1006	Torque To Yield,When Used to Replace Non-TTY Bolts, Bolts Must Be Tightened to Specs as Follows: Torque to 51 ft. lbs., Loosen All Bolts, Then Torque to 51 ft. lbs., Then Tighten All Bolts an Additional 90 - 100 Degrees., Services Engine

140 C.I., (2.3L), OHV, DIESEL, FI, 8 Valve, Vin E "TURBO Mitsubishi"
1985-87 L4 140 CID140E **8**
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1985-87	121-1039	1 RD Bead Type
Stem Seal	Both	1985-87	122-1075	Positive Type,Viton Material,Ring & Band Style
		1985-87	122-1086	Positive Type,Viton Material,Metal Clad Style

140 C.I., (2.3L), SOHC, GAS, CARB, 8 Valve, Vin A
1983-84 L4 140 CID140A-CA **9**
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-84	SB1812-2	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	1983-84	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1983-84	01598	1.735 Head Diameter
	Exh	1983-84	01597	1.500 Head Diameter
Keeper	Both	1983-84	121-1019	4 RD Bead Type
Stem Seal	Both	1983-84	122-1075	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1983-84	140-9206	0.3440 I.D.,2.188 Length,0.5020 O.D.,Flanged
Lifter	Both	1983-84	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both	1983-84	180-1037	Cam Follower

FORD TRUCK / PASSENGER TRUCK (Cont'd)

9 140 C.I., (2.3L), SOHC, GAS, CARB, 8 Valve, Vin A 140A-CA
 (cont.) 1983-84 L4 140 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Head Bolt Set	1983-84	220-1006	Torque To Yield,When Used to Replace Non-TTY Bolts, Bolts Must Be Tightened to Specs as Follows: Torque to 51 ft. lbs., Loosen All Bolts, Then Torque to 51 ft. lbs., Then Tighten All Bolts an Additional 90 - 100 Degrees., Services Engine

10 140 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin A 140A-FI
 1985-97 L4 140 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1985-97 1985-97	SB1812-2 SB1562-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	1985-94 1985-94 1985-94 1985-94	01598 01743 01597 01744	1.735 Head Diameter,W/ .3419 Stem Dia., 4 Groove 1.735 Head Diameter,W/ 7mm Stem Dia. 1.500 Head Diameter,W/ .3414 Stem Dia., 4 Groove 1.500 Head Diameter,W/ 7mm Stem Dia.
Keeper	Both	1985-94 1985-97	121-1019 121-1084	4 RD Bead Type,W/ .3410 Stem Dia. 3 RD Bead Type,W/ 7mm Stem Dia.
Stem Seal	Int Exh Both	1985-94 1985-94 1985-94 1985-94 1985-97	122-1200 122-1199 122-1075 122-1226	Positive Type,Viton Material,Metal Clad Style,W/ .3410 Stem Dia. Positive Type,Viton Material,Metal Clad Style,W/ .3410 Stem Dia. Positive Type,Viton Material,Ring & Band Style,W/ .3410 Stem Dia. Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.
Guide	Int Exh Both	1985-94 1985-94 1985-94	140-9206 140-9846 140-8274	0.3440 I.D.,2.188 Length,0.5020 O.D.,Flanged,W/ .3410 Stem Dia. 0.3440 I.D.,2.313 Length,0.5020 O.D.,Flanged,W/ .3410 Stem Dia., -5 U/S I.D. Available (140-9846U) 0.2765 I.D.,1.930 Length,0.4953 O.D.,W/ 7mm Stem Dia., +2, +3 O/S Available
Spring	Both	1985-97	160-1383	2.020 Length
Lifter	Both	1985-97	VL83	Hydraulic Lash Adjuster Type
Rocker Components	Both	1985-87	180-1037	Cam Follower
Head Bolt Set		1985-94	220-1006	Torque To Yield,When Used to Replace Non-TTY Bolts, Bolts Must Be Tightened to Specs as Follows: Torque to 51 ft. lbs., Loosen All Bolts, Then Torque to 51 ft. lbs., Then Tighten All Bolts an Additional 90 - 100 Degrees., Services Engine

11 140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin D, Z "DURATEC" FOT2.3-DC
 2001-11 L4 140 CID BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2001-11	SB1250-62	1 ¹ / ₄ O.D.,1.000 I.D.,0.3050 Depth
Valve	Int Exh	2001-11 2001-11	02006 02007	1.378 Head Diameter 1.181 Head Diameter
Keeper	Both	2001-11	121-1104	1 RD Bead Type
Stem Seal	Int Exh	2001-11 2001-11	122-1410 122-1411	Positive Type,Viton Material,Top Hat Style Positive Type,Viton Material,Top Hat Style
Guide	Both	2001-11	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2001-03 2004-11	160-1506 160-1568	1.776 Length,Conical 1.908 Length,Conical

(Cont'd) FORD TRUCK / PASSENGER TRUCK

140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin D, Z "DURATEC" **FOT2.3-DC 11**
 2001-11 L4 140 CID **BORE - 87.4mm/3.44" (cont.)**

PART	YEARS	PART NO.	NOTES
Head Bolt Set	2001-11	220-1111	Torque To Yield,Services Engine
Head Saver Shim	2001-11	230-2144	New Hgt. - Min. Hgt. N/A

140 C.I., (2.3L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin H, "HYBRID" **FOT2.3-DCE 12**
 2005-08 L4 140 CID **BORE - 87.4mm/3.44"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2005-08	SB1250-62	1¼ O.D.,1.000 I.D.,0.3050 Depth
Valve	Int	2005-08	02006	1.378 Head Diameter
	Exh	2005-08	02007	1.181 Head Diameter
Keeper	Both	2005-08	121-1104	1 RD Bead Type
Stem Seal	Int	2005-08	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2005-08	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-08	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2005-06	160-1506	1.776 Length,Conical
		2007-08	160-1568	1.908 Length,Conical
Head Saver Shim	2005-08	230-2144	New Hgt. - Min. Hgt. N/A	

140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin H "Ecoboost" **FOT2.3-ECO 13**
 2015-17 L4 140 CID **BORE - 87.6mm/3.45"**

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-17	121-1104	1 RD Bead Type
Stem Seal	Int	2015-17	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2015-17	122-1411	Positive Type,Viton Material,Top Hat Style

144 C.I., (2.4L), OHV, GAS, CARB, 12 Valve, Vin D, S **FOT144 14**
 1960-64 L6 144 CID **BORE - 88.9mm/3.50"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1960-64	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1960-64	SB1375-4	1 ³ / ₈ O.D.,1 ¹ / ₈ I.D., ³ / ₁₆ Depth
Valve	Exh	1960-64	00564	1.268 Head Diameter
Keeper	Exh	1960-64	121-1011	1 SQ Bead Type
Stem Seal	Both	1960-64	122-1009	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.500 O.D.
Guide	Both	1960-64	140-6869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Plain I.D. Conversion Guide
		1960-64	140-6977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1960-64	140-9869	0.3125 I.D.,1.875 Length,0.4390 O.D.,Spiral I.D. Conversion Guide
		1960-64	140-9977	0.3120 I.D.,2.281 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	1960-64	160-1127	2.000 Length,W/ Mechanical Lifters
Push Rod	Both	1960-64	190-1280	8.021 Length,W/ Mechanical Lifters

152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin 7 "DURATEC" **FOT2.5-DC 15**
 2009-17 L4 152 CID **BORE - 88.9mm/3.50"**

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-17	02006	1.378 Head Diameter

FORD TRUCK / PASSENGER TRUCK (Cont'd)

15 152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin 7 "DURATEC" FOT2.5-DC
 (cont.) 2009-17 L4 152 CID BORE - 88.9mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve	Exh	2009-17	02007	1.181 Head Diameter
Keeper	Both	2009-17	121-1104	1 RD Bead Type
Stem Seal	Int	2009-17	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2009-17	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-17	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2009-17	160-1568	1.908 Length,Conical
Head Bolt Set		2009-12	220-1111	Torque To Yield,Services Engine

16 152 C.I., (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 3 "Duratec Hybrid" FOT2.5-DCE
 2009-12 L4 152 CID BORE - 88.9mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve	Int	2009-12	02006	1.378 Head Diameter
	Exh	2009-12	02007	1.181 Head Diameter
Keeper	Both	2009-12	121-1104	1 RD Bead Type
Stem Seal	Int	2009-12	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2009-12	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-12	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2009-12	160-1568	1.908 Length,Conical
Head Bolt Set		2009-12	220-1111	Torque To Yield,Services Engine

17 152 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin 7 "DURATEC" FOT2.5_TC
 2014-17 L4 152 CID BORE - 88.9mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve	Int	2014-17	02006	1.378 Head Diameter
	Exh	2014-17	02007	1.181 Head Diameter
Keeper	Both	2014-17	121-1104	1 RD Bead Type
Stem Seal	Int	2014-17	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2014-17	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-17	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Head Bolt Set		2014-17	220-1111	Torque To Yield,Services Engine

18 152 C.I., (2.5L), DOHC, CNG, LPG, FI, 16 Valve, Vin 7 "DURATEC" FOT2.5-TC_CNG
 2014-17 L4 152 CID BORE - 88.9mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve	Exh	2014-17	02007	1.181 Head Diameter
Keeper	Both	2014-17	121-1104	1 RD Bead Type
Stem Seal	Int	2014-17	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2014-17	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-17	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Head Bolt Set		2014-17	220-1111	Torque To Yield,Services Engine

19 153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin C FOT2.5
 1998-01 L4 153 CID BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1998-01	SB1812-2	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
	Exh	1998-01	SB1562-6	1 ¹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1998-01	01743	1.735 Head Diameter,Includes Flex-Fuel

(Cont'd) FORD TRUCK / PASSENGER TRUCK**153 C.I., (2.5L), SOHC, GAS, FI, 8 Valve, Vin C**
1998-01 L4 153 CIDFOT2.5 **19**
BORE - 96mm/3.78" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1998-01	01744	1.500 Head Diameter, Includes Flex-Fuel
Keeper	Both	1998-01	121-1084	3 RD Bead Type
Stem Seal	Both	1998-01	122-1226	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1998-01	140-8274	0.2765 I.D., 1.930 Length, 0.4953 O.D.
Spring	Both	1998-01	160-1383	2.020 Length
Lifter	Both	1998-01	VL83	Hydraulic Lash Adjuster Type
Head Bolt Set		1998-01	220-1006	Torque To Yield

164 C.I., (2.7L), DOHC, GAS, FI, 24 Valve, Vin P "Ecoboost"
2015-17 V6 164 CIDFOT2.7-ECO **20**
BORE - 83.1mm/3.27"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	2015-17	122-1493	Positive Type, Viton Material, Top Hat Style
Lifter	Both	2015-17	VL575	Hydraulic Lash Adjuster Type

170 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin F, U
1962-72 L6 170 CIDFOT170 **21**
BORE - 88.8mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1962-64	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.527 Valve Head Dia.
		1965-72	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.651 Valve Head Dia.
	Exh	1962-64	SB1375-4	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ³ / ₁₆ Depth, W/ 1.268 Valve Head Dia.
		1965-72	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.390 Valve Head Dia.
Valve	Int	1962-64	00627	1.527 Head Diameter
		1965-72	01268	1.651 Head Diameter
	Exh	1962-64	00564	1.268 Head Diameter
		1965-72	01266	1.390 Head Diameter, +15 O/S Stem Available
Keeper	Both	1962-72	121-1011	1 SQ Bead Type
Stem Seal	Both	1962-72	122-1009	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.500 O.D.
		1962-72	122-1034	Umbrella Type, Poly Material, Umbrella Style
Guide	Both	1962-72	140-6869	0.3125 I.D., 1.875 Length, 0.4390 O.D., Plain I.D. Conversion Guide
		1962-72	140-6977	0.3120 I.D., 2.281 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1962-72	140-9869	0.3125 I.D., 1.875 Length, 0.4390 O.D., Spiral I.D. Conversion Guide
		1962-72	140-9977	0.3120 I.D., 2.281 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	1962-72	160-1127	2.000 Length, W/ Mechanical Lifters
Push Rod	Both	1962-72	190-1280	8.021 Length, W/ Mechanical Lifters

171 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin S
1983-86 V6 171 CIDFOT171S **22**
BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-86	SB1687-2	1 ¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

FORD TRUCK / PASSENGER TRUCK (Cont'd)

22 171 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin S FOT171S
 (cont.) 1983-86 V6 171 CID BORE - 93mm/3.66"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1983-86	SB1375-4	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{3}{16}$ Depth
Valve	Int	1983-86	01285	1.570 Head Diameter, 1 Groove
	Exh	1983-86	01300	1.269 Head Diameter, 3 Groove
Keeper	Int	1983-86	121-1011	1 SQ Bead Type
	Exh	1983-86	121-1024	3 RD Bead Type
Stem Seal	Both	1983-86	122-1039	Positive Type, Poly Material, 1-Spring Style
Guide	Both	1983-86	140-7198	0.3175 I.D., 2.000 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1983-86	140-9198	0.3174 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Rocker Components	Both	1983-86	180-1007	Rocker Arm, Adjustable, W/ .635 Pad Width, Replaces Narrow Pad Arm
Push Rod	Both	1983-86	190-1435	5.429 Length

23 177 C.I., (2.9L), OHV, GAS, FI, 12 Valve, Vin T FOT177T
 1986-92 V6 177 CID BORE - 93mm/3.66"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-92	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1986-92	SB1500-1	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1986-92	10385	1.656 Head Diameter, 1 Groove, +15 O/S Stem Available
	Exh	1986-92	10386	1.418 Head Diameter, 3 Groove, +15 O/S Stem Available
Keeper	Int	1986-92	121-1011	1 SQ Bead Type
	Exh	1986-92	121-1024	3 RD Bead Type
Stem Seal	Both	1986-92	122-1067	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1986-92	140-7198	0.3175 I.D., 2.000 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1986-92	140-9198	0.3174 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1986-92	160-1172	2.170 Length
Lifter	Both	1986-92	VL9	Hydraulic Type
Rocker Components	Both	1986-92	180-1007	Rocker Arm, Adjustable, W/ .635 Pad Width, Replaces Narrow Pad Arm
Push Rod	Both	1986-92	190-1435	5.429 Length
Head Bolt Set		1986-92	220-1016	Torque To Yield, Services Engine

24 181 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, G, "DURATEC" FOT3.0-DC
 2001-12 V6 181 CID BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2001-12	SB1250-56	1 $\frac{1}{4}$ O.D., 0.905T I.D., 0.2300 Depth
Valve	Int	2001-12	01787	1.378 Head Diameter
	Exh	2001-12	01788	1.181 Head Diameter
Keeper	Both	2001-12	121-1082	3 RD Bead Type
Stem Seal	Both	2001-12	122-1229	Positive Type, Viton Material, Top Hat Style
Guide	Both	2001-12	140-8560	0.2370 I.D., 1.880 Length, 0.4953 O.D.
Spring	Both	2001-08	160-1490	1.847 Length
Lifter	Both	2001-12	VL107	Hydraulic Lash Adjuster Type

(Cont'd) FORD TRUCK / PASSENGER TRUCK

181 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, G, "DURATEC" FOT3.0-DC **24**
 2001-12 V6 181 CID BORE - 89mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	2001-12	180-1333	Roller Cam Follower
Head Bolt Set		2001-12	220-1094	Torque To Yield,2 Required
Head Saver Shim		2001-12	230-2130L	Left,New Hgt. - 5.1550 - 5.1630; Min. Hgt. N/A
		2001-12	230-2130R	Right,New Hgt. - 5.1550 - 5.1630; Min. Hgt. N/A

182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin U, V "VULCAN" FOT182U **25**
 1986-08 V6 182 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-08	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1986-08	SB1437-3N		1$\frac{7}{16}$ O.D., 1$\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	1986-99	01536	1.661 Head Diameter, 0.3130 Stem Dia., +15 O/S Stem Available
		2000-08	02046	1.661 Head Diameter, 7mm Stem Dia., Includes "Flex-Fuel" Applications
	Exh	1986-99	01535	1.371 Head Diameter, 0.3125 Stem Dia., +15 O/S Stem Available
		2000-08	02047	1.371 Head Diameter, 7mm Stem Dia., Includes "Flex-Fuel" Applications
Keeper	Both	1986-99	121-1024	3 RD Bead Type, Use With $\frac{5}{16}$ Stem Dia.
		2000-08	121-1084	3 RD Bead Type, Use W/ 7mm Stem Dia.
Stem Seal	Int	1986-99	122-1065	Positive Type, Viton Material, Ring & Band Style, Use With $\frac{5}{16}$ Stem Dia.
		2000-08	122-1357	Positive Type, Viton Material, Ring & Band Style, Green, Use W/ 7mm Stem Dia.
	Exh	1986-99	122-1066	Positive Type, Viton Material, Ring & Band Style, Use With $\frac{5}{16}$ Stem Dia.
		2000-08	122-1358	Positive Type, Viton Material, Ring & Band Style, Orange, Use W/ 7mm Stem Dia.
Guide	Both	1986-99	140-9204	0.3150 I.D., 2.200 Length, 0.4390 O.D., Use With $\frac{5}{16}$ Stem Dia.
		2000-08	140-3048	0.2768 I.D., 2.500 Length, 0.4747 O.D., Use W/ 7mm Stem Dia., W/ Seal Boss; NOTE: W/ 4747 O.D.
		2000-08	140-3066	0.2768 I.D., 2.200 Length, 0.4390 O.D., Use W/ 7mm Stem Dia., W/O Seal Boss; NOTE: W/ 4390 O.D.
Spring	Both	1986-99	160-1072	1.840 Length
		2000-08	160-1437	1.834 Length, Conical
Lifter	Both	1986-91	VL35	Hydraulic Type
		1992-08	VL100	Hydraulic Roller Type
Rocker Components	Both	1986-08	180-1315	Rocker Arm
Push Rod	Both	1992-96	190-1524	5.332 Length, W/ Roller Lifters
		1997-08	190-1541	5.297 Length, W/ Roller Lifters
Head Bolt Set		1986-98	220-1005	Torque To Yield, Services Engine; To 7/13/98
		1998-08	220-1096	Torque To Yield, Services Engine; From 7/14/98
Head Saver Shim		1986-08	230-2177	New Hgt. - 3.620 - 3.630; Min. Hgt. - N/A

195 C.I., (3.2L), DOHC, DIESEL, FI, 20 Valve, Vin V "Powerstroke" FOT3.2-20VTD **26**
 2015-17 L5 195 CID BORE - 89.9mm/3.54"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-16	121-1128	3 RD Bead Type

FORD TRUCK / PASSENGER TRUCK (Cont'd)

27 200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin T
1965-65 L6 200 CID

FOT200-65
BORE - 93.5mm/3.68"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-65	SB1750-2 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1965-65	
Valve	Int	1965-65	01268 1.651 Head Diameter
	Exh	1965-65	
Keeper	Both	1965-65	121-1011 1 SQ Bead Type
Stem Seal	Both	1965-65	122-1034 Umbrella Type, Poly Material, Umbrella Style
Guide	Both	1965-65	140-6869 0.3125 I.D., 1.875 Length, 0.4390 O.D., Plain I.D. Conversion Guide
		1965-65	140-6977 0.3120 I.D., 2.281 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1965-65	140-9869 0.3125 I.D., 1.875 Length, 0.4390 O.D., Spiral I.D. Conversion Guide
		1965-65	140-9977 0.3120 I.D., 2.281 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	1965-65	160-1131 1.828 Length, W/ Hydraulic Lifters
Lifter	Both	1965-65	VL9 Hydraulic Type
Push Rod	Both	1965-65	190-1327 8.350 Length, -54 U/S Available (190-1327U54), W/ Hyd. Lifters

28 200 C.I., (3.3L), OHV, GAS, CARB, Vin T
1973-74 L6 200 CID

FOT200
BORE - 93.5mm/3.68"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1973-74	SB1750-2 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1973-74	
Valve	Int	1973-74	01268 1.651 Head Diameter
	Exh	1973-74	
Keeper	Both	1973-74	121-1011 1 SQ Bead Type
Stem Seal	Both	1973-74	122-1009 Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.500 O.D.
		1973-74	122-1034 Umbrella Type, Poly Material, Umbrella Style
Guide	Both	1973-74	140-9869 0.3125 I.D., 1.875 Length, 0.4390 O.D., Spiral I.D. Conversion Guide
		1973-74	140-9977 0.3120 I.D., 2.281 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9977H), -5 U/S I.D. Available (140-9977U)
Spring	Both	1973-74	160-1131 1.828 Length, W/ Hydraulic Lifters
Lifter	Both	1973-74	VL9 Hydraulic Type
Push Rod	Both	1973-74	190-1327 8.350 Length, -54 U/S Available (190-1327U54), W/ Hyd. Lifters

29 3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin T "VG33E NISSAN"
1999-02 V6 200 CID

FOT-VG33E
BORE - 91.5mm/3.60"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1999-02	SB1812-55 1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 0.2780 Depth
Valve	Int	1999-02	10281 1.657 Head Diameter
	Exh	1999-02	10282S 1.382 Head Diameter, Stellite Face

(Cont'd) FORD TRUCK / PASSENGER TRUCK**3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin T "VG33E NISSAN"**
1999-02 V6 200 CID**FOT-VG33E 29**
BORE - 91.5mm/3.60" (cont.)

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1999-02 121-1059	1 RD Bead Type	
Stem Seal	Int	1999-02	122-1262	Positive Type,Viton Material,Metal Clad Style
	Exh	1999-02	122-1263	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1999-02	140-8388	0.2760 I.D.,2.315 Length,0.4345 O.D.,Std. O.D.
	Exh	1999-02	140-8389	0.3160 I.D.,2.500 Length,0.4740 O.D.,Std. O.D.
Spring	Both	1999-02	160-1052	1.725 Length,Inner
		1999-02	160-1216	2.065 Length,Outer
Lifter	Both	1999-02	VL121	Hydraulic Type
Rocker Components	Both	1999-02	180-1264	Cam Follower

213 C.I., (3.5L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 8, C "DURATEC"
2007-17 V6 213 CID**FOT3.5-DC24V 30**
BORE - 92.5mm/3.64"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-17	13225	1.457 Head Diameter
	Exh	2007-17	13226	1.220 Head Diameter
Keeper	Both	2007-17	121-1104	1 RD Bead Type
Stem Seal	Both	2007-17	122-1427	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-17	140-3170	0.2177 I.D.,1.395 Length,0.4355 O.D.,Chamfer I.D. to Cumbustion
Spring	Both	2007-14	160-1599	1.910 Length,Conical

213 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, Vin G, T "Ecoboost"
2010-17 V6 213 CID**FOT3.5-ECO 31**
BORE - 92.5mm/3.64"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-16	13344	1.457 Head Diameter
	Exh	2010-16	13345S	1.220 Head Diameter,Inconel, Stellite Face
Keeper	Both	2010-16	121-1104	1 RD Bead Type
Stem Seal	Both	2010-16	122-1427	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-16	140-3170	0.2177 I.D.,1.395 Length,0.4355 O.D.,Chamfer I.D. to Cumbustion
Spring	Both	2010-16	160-1631	2.176 Length

223 C.I., (3.6L), OHV, GAS, CARB, 12 Valve, Vin A, J, V
1954-64 L6 223 CID**FOT223 32**
BORE - 92.1mm/3.63"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1954-64	SB1875-6	17/8 O.D.,15/8 I.D.,7/32 Depth
	Exh	1954-64	SB1625-1	15/8 O.D.,13/8 I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1954-64	00373	1.780 Head Diameter
	Exh	1954-64	00375	1.510 Head Diameter
Keeper	Both	1954-64	121-1003	1 SQ Bead Type
Stem Seal	Both	1954-64	122-1047	Positive Type,Poly Material,2-Ring Style
		1954-64	122-1041	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1954-64	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1954-64	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Spring	Both	1954-64	160-1120	2.222 Length,W/O Rotator

FORD TRUCK / PASSENGER TRUCK (Cont'd)

32 223 C.I., (3.6L), OHV, GAS, CARB, 12 Valve, Vin A, J, V FOT223
 (cont.) 1954-64 L6 223 CID BORE - 92.1mm/3.63"

PART	YEARS	PART NO.	NOTES
Lifter	Both	1954-64 VL21	Mechanical Type
Push Rod	Both	1954-64 190-1222	9.602 Length

33 227 C.I., (3.7L), DOHC, FLEX, GAS, FI, 24 Valve, Vin K, M, R "DURATEC" FOT3.7-DC24V
 2010-17 V6 227 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Valve	Int	2010-17 13225	1.457 Head Diameter
	Exh	2010-17 13226	1.220 Head Diameter
Keeper	Both	2010-17 121-1104	1 RD Bead Type
Stem Seal	Both	2010-17 122-1427	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-17 140-3170	0.2177 I.D.,1.395 Length,0.4355 O.D.,Chamfer I.D. to Cumbustion
Spring	Both	2010-14 160-1599	1.910 Length,Conical

34 227 C.I., (3.7L), DOHC, CNG, LPG, FI, 24 Valve, Vin M FOT3.7-24V_CNG
 2014-17 V6 227 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-17 121-1104	1 RD Bead Type
Stem Seal	Both	2014-17 122-1427	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-17 140-3170	0.2177 I.D.,1.395 Length,0.4355 O.D.,Chamfer I.D. to Cumbustion
Spring	Both	2014-14 160-1599	1.910 Length,Conical

35 232 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 3 FOT232CA
 1982-83 V6 232 CID BORE - 96.8mm/3.81"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-83 SB1875-50	1 ⁷ / ₈ O.D.,1.640 I.D.,0.2800 Depth
	Exh	1982-83 SB1625-54	1 ⁵ / ₈ O.D.,1.329 I.D.,0.2800 Depth
Valve	Int	1982-83 01470	1.782 Head Diameter
	Exh	1982-83 01469	1.461 Head Diameter
Keeper	Both	1982-83 121-1019	4 RD Bead Type
Stem Seal	Both	1982-83 122-1074	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1982-83 140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1982-83 140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Lifter	Both	1982-83 VL35	Hydraulic Type
Rocker Components	Both	1982-83 180-1012	Rocker Arm
		1982-83 181-1018	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 8mm Bolt
Push Rod	Both	1982-83 190-1522	7.770 Length,W/ Hyd. Lifters
Head Bolt Set		1982-83 220-1002	Torque To Yield,2 Required
Head Saver Shim		1982-83 230-2016	New Hgt.- 3.0550 - 3.0700; Min. Hgt.- 3.0450, 2 Required

36 232 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 4 FOT232FI
 1995-03 V6 232 CID BORE - 96.8mm/3.81"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1995-95 SB1875-50	1 ⁷ / ₈ O.D.,1.640 I.D.,0.2800 Depth
		1996-03 SB1937-55	1 ¹⁵ / ₁₆ O.D.,1.640T I.D.,0.2900 Depth

(Cont'd) FORD TRUCK / PASSENGER TRUCK**232 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 4**
1995-03 V6 232 CIDFOT232FI **36**
BORE - 96.8mm/3.81" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1995-03	SB1625-54	1% O.D., 1.329 I.D., 0.2800 Depth
Valve	Int	1995-95	01470	1.782 Head Diameter, 0.3419 Stem Dia.
		1996-03	01789	1.861 Head Diameter, 0.2750 Stem Dia.
	Exh	1995-95	01469	1.461 Head Diameter, 0.3414 Stem Dia.
		1996-03	01791	1.461 Head Diameter, 0.2740 Stem Dia.
Keeper	Both	1995-95	121-1019	4 RD Bead Type, W/ .341 Stem Dia.
		1996-03	121-1084	3 RD Bead Type, W/ .274 Stem Dia.
Stem Seal	Int	1995-95	122-1215	Positive Type, Viton Material, Metal Clad Style
	Exh	1995-95	122-1216	Positive Type, Viton Material, Metal Clad Style
	Both	1996-98	122-1226	Positive Type, Viton Material, Metal Clad Style, W/ .274 Stem Dia.
		1999-03	122-1351	Positive Type, Viton Material, Top Hat Style, W/ .274 Stem Dia.
Guide	Int	1996-03	140-8575	0.2765 I.D., 2.050 Length, 0.4955 O.D., W/ .274 Stem Dia.
	Exh	1996-03	140-8574	0.2765 I.D., 2.200 Length, 0.4955 O.D., W/ .274 Stem Dia.
	Both	1995-95	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1995-95	140-8545	0.3440 I.D., 2.250 Length, 0.4988 O.D., Knock Out Style
		1995-95	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1995-95	160-1075	2.021 Length, W/ Damper
		1996-03	160-1430	2.015 Length, Conical
Lifter	Both	1995-03	VL100	Hydraulic Roller Type
Rocker Components	Both	1995-03	180-1012	Rocker Arm
		1995-03	181-1018	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 8mm Bolt
Push Rod	Both	1995-03	190-1511	7.137 Length, W/ Roller Lifters
Head Bolt Set		1995-95	220-1004	Torque To Yield, 2 Required
		1996-03	220-1076	Torque To Yield, 2 Required
Head Saver Shim		1995-96	230-2016	New Hgt. - 3.0550 - 3.0700; Min. Hgt. - 3.0450, 2 Required, NOTE: Except 1996 Windstar
		1997-03	230-2155	New Hgt. N/A; Min. Hgt. N/A; 2 Required

238 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin 6
2004-07 V6 238 CIDFOT3.9 **37**
BORE - 96.8mm/3.81"

PART		YEARS	PART NO.	NOTES
Valve	Int	2004-07	01789	1.861 Head Diameter
	Exh	2004-07	01791	1.461 Head Diameter
Keeper	Both	2004-07	121-1084	3 RD Bead Type
Stem Seal	Both	2004-07	122-1351	Positive Type, Viton Material, Top Hat Style
Guide	Both	2004-07	140-8574	0.2765 I.D., 2.200 Length, 0.4955 O.D.
Spring	Both	2004-07	160-1430	2.015 Length, Conical
Lifter	Both	2004-07	VL100	Hydraulic Roller Type
Rocker Components	Both	2004-07	180-1012	Rocker Arm
Push Rod	Both	2004-07	190-1511	7.137 Length
Head Saver Shim	Both	2004-07	230-2124	2 Required

FORD TRUCK / PASSENGER TRUCK (Cont'd)

38 239 C.I., (3.9L), L-HEAD, GAS, CARB, 16 Valve "L-HEAD"
1949-53 V8 239 CID

FOT239L
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1949-53	SB1625-1 1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1949-53	
Valve	Both	1949-50	00212 1.510 Head Diameter
Keeper	Both	1949-53	121-1003 1 SQ Bead Type
Stem Seal	Both	1949-53	122-1376 O-Ring Type, Nitrile Material, Valve Guide Seal Style
Guide	Both	1949-53	140-1614 0.3435 I.D., 2.210 Length, 1.0303 O.D. Valve Guide Retainer
		1949-53	
Rotator	Both	1949-50	161-1057

39 239 C.I., (3.9L), OHV, GAS, CARB, 16 Valve, Vin U
1954-55 V8 239 CID

FOT239
BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1954-54	SB1625-1 1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1954-54	
Valve	Int	1954-55	00376 1.647 Head Diameter
	Exh	1954-55	00375 1.510 Head Diameter
Keeper	Both	1954-55	121-1003 1 SQ Bead Type
Stem Seal	Both	1954-55	122-1014 Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D.
Guide	Int	1954-55	140-5606 0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1954-55	
	Exh	1954-55	140-9604 0.3440 I.D., 2.625 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
		1954-55	
Spring	Both	1954-55	160-1120 2.222 Length, W/O Rotator

40 240 C.I., (3.9L), OHV, GAS, CARB, Vin 1, A, B, E, J, V
1965-74 L6 240 CID

FOT240
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-74	SB1812-3 1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth
	Exh	1965-74	
Valve	Int	1965-74	00963 1.781 Head Diameter, Except H-Duty
		1965-74	
	Exh	1965-74	01120 1.780 Head Diameter, H-Duty, +15 O/S Stem Available
		1965-74	
Keeper	Both	1965-74	01177S 1.560 Head Diameter, Stellite Face, Optional, +15 O/S Stem Available
		1965-74	
Stem Seal	Both	1965-74	01358 1.560 Head Diameter, +15 O/S Stem Available
		1965-74	
Guide	Int	1965-74	121-1003 1 SQ Bead Type
		1965-74	
Stem Seal	Both	1965-74	122-1035 Umbrella Type, Poly Material, Umbrella Style
		1965-74	
Guide	Int	1965-74	122-1047 Positive Type, Poly Material, 2-Ring Style
		1965-74	
Keeper	Both	1965-74	140-9867 0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
		1965-74	
Stem Seal	Both	1965-74	140-5607 0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1965-74	

(Cont'd) FORD TRUCK / PASSENGER TRUCK**240 C.I., (3.9L), OHV, GAS, CARB, Vin 1, A, B, E, J, V**
1965-74 L6 240 CID**FOT240 40**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 1965-74	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh 1965-74	160-1135	1.875 Length,W/ Rotator
	Both 1965-74	160-1134	1.990 Length,W/O Rotator
Rotator	Exh 1965-74	161-1006	
Lifter	Both 1965-74	VL35	Hydraulic Type
Rocker Components	Both 1965-74	180-1237	Rocker Arm, Cast
	1965-74	181-1040	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut, (1) $\frac{5}{16}$ Nut
	1965-74	183-1020	Grooved Ball, $\frac{3}{8}$
	1965-74	183-1030	Smooth Ball, $\frac{3}{8}$
	1965-74	184-1022	+6 Oversize Stud, $\frac{5}{16}$
	1965-74	184-1038	Nut, $\frac{3}{8}$
1965-74	184-1039	Nut, $\frac{5}{16}$	
Push Rod	Both 1965-74	192-1322	10.136 Length,- 40 U/S (192-1322U40) Available
Head Saver Shim	1965-74	230-2017	

245 C.I., (4.0L), OHV, GAS, FI, 12 Valve, Vin X
1990-01 V6 245 CID**FOT245X 41**
BORE - 100.3mm/3.95"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1990-01	SB1812-4	1 $\frac{13}{16}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1990-01	SB1437-2	1 $\frac{7}{16}$ O.D.,1 $\frac{7}{32}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1990-01	10387	1.712 Head Diameter,+15 O/S Stem Available
	Exh 1990-01	10388	1.358 Head Diameter,+15 O/S Stem Available
Keeper	Int 1990-01	121-1011	1 SQ Bead Type
	Exh 1990-01	121-1024	3 RD Bead Type
Stem Seal	Both 1990-01	122-1067	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1990-01	140-7198	0.3175 I.D.,2.000 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	1990-01	140-9198	0.3174 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both 1990-01	160-1264	2.130 Length
Lifter	Both 1990-01	VL150	Hydraulic Roller Type
Rocker Components	Both 1990-01	180-1008	Rocker Arm
Push Rod	Both 1990-01	190-0471	5.475 Length
Head Bolt Set	1990-01	220-1016	Torque To Yield,Services Engine
Head Saver Shim	1990-01	230-2114L	Left,New Hgt. - 2.890" - 2.895" - Min. Hgt. - 2.880"
	1990-01	230-2114R	Right,New Hgt. - 2.890" - 2.895" - Min. Hgt. - 2.880"

245 C.I., (4.0L), SOHC, FLEX, GAS, FI, 12 Valve, Vin E, K
1997-11 V6 245 CID**FOT245E 42**
BORE - 100.3mm/3.95"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1997-11	SB1875-50	1 $\frac{7}{8}$ O.D.,1.640 I.D.,0.2800 Depth,Note: Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh 1997-11	SB1625-54	1 $\frac{5}{8}$ O.D.,1.329 I.D.,0.2800 Depth
Valve	Int 1997-11	01913	1.811 Head Diameter,Includes Flex-Fuel
	Exh 1997-11	01914	1.535 Head Diameter,Includes Flex-Fuel

FORD TRUCK / PASSENGER TRUCK (Cont'd)

42 245 C.I., (4.0L), SOHC, FLEX, GAS, FI, 12 Valve, Vin E, K FOT245E
 (cont.) 1997-11 V6 245 CID BORE - 100.3mm/3.95"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1997-11 121-1084	3 RD Bead Type
Stem Seal	Both	1997-11 122-1348	Positive Type,Viton Material,Top Hat Style
Guide	Both	1997-11 140-8663	0.2761 I.D.,1.740 Length,0.4724 O.D.,W/ Snap Ring
Spring	Both	1997-11 160-1504	1.696 Length,NOTE: Aftermarket Version Using Non-Ovate Wire, Must Replace All Springs
Lifter	Both	1997-11 VL176	Hydraulic Lash Adjuster Type
Rocker Components	Both	1997-11 180-1325	Roller Cam Follower
Head Bolt Set	1997-11	220-1106	Torque To Yield,Services Engine
Head Saver Shim	1997-11	230-2137L	Left,New Hgt. - 4.864" - Min. Hgt. - N/A
	1997-11	230-2137R	Right,New Hgt. - 4.864" - Min. Hgt. - N/A

43 255 C.I., (4.2L), OHV, GAS, CARB, 16 Valve, Vin D FOT255
 1981-82 V8 255 CID BORE - 93.5mm/3.68"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1981-82 SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1981-82 SB1562-1	1 ¹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1981-82 01135	1.451 Head Diameter,Does Not Require Lash Cap, +3 & +15 O/S Stem Available.
		1981-82 01135S	1.451 Head Diameter,Stellite Face,LPG, Does Not Require Lash Cap
Keeper	Both	1981-82 121-1003	1 SQ Bead Type
Stem Seal	Both	1981-82 122-1041	Umbrella Type,Poly Material,Umbrella Style
		1981-82 122-1063	Positive Type,Viton Material,All Rubber Style
		1981-82 122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1981-82 140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1981-82 140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	1981-82 160-1044	2.040 Length
	Exh	1981-82 160-1024	1.923 Length
Lifter	Both	1981-82 VL35	Hydraulic Type
Rocker Components	Both	1981-82 180-1234	Rocker Arm, Stamped
		1981-82 181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) ⁵ / ₁₆ Bolt
		1981-82 183-1022	Fulcrum
		1981-82 184-1035	Bolt W/Washer, ⁵ / ₁₆
		1981-82 184-1038	Nut, ³ / ₈
Push Rod	Both	1981-82 192-1409	6.876 Length,- 60 U/S (192-1409U60) Available

44 256 C.I., (4.2L), OHV, GAS, FI, 12 Valve, Vin 2 FOT256-2
 1997-08 V6 256 CID BORE - 96.8mm/3.81"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1997-08 SB1562-67	1 ⁹ / ₁₆ O.D.,1.255T I.D.,0.3190 Depth,Note: Seat May Need To Be Machined In Order To Achieve Correct Depth.
Valve	Int	1997-08 01789	1.861 Head Diameter
	Exh	1997-08 01791	1.461 Head Diameter

(Cont'd) FORD TRUCK / PASSENGER TRUCK**256 C.I., (4.2L), OHV, GAS, FI, 12 Valve, Vin 2**
1997-08 V6 256 CID**FOT256-2 44**
BORE - 96.8mm/3.81" (cont.)

PART		YEARS	PART NO.	NOTES
Keeper	Both	1997-08	121-1084	3 RD Bead Type
Stem Seal	Both	1997-98	122-1226	Positive Type,Viton Material,Metal Clad Style
		1999-08	122-1351	Positive Type,Viton Material,Top Hat Style
Guide	Int	1997-08	140-8575	0.2765 I.D.,2.050 Length,0.4955 O.D.
	Exh	1997-08	140-8574	0.2765 I.D.,2.200 Length,0.4955 O.D.
Spring	Both	1997-08	160-1430	2.015 Length,Conical
Lifter	Both	1997-08	VL100	Hydraulic Roller Type
Rocker Components	Both	1997-08	180-1012	Rocker Arm
		1997-08	181-1018	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 8mm Bolt
Push Rod	Both	1997-08	190-1511	7.137 Length
Head Bolt Set		1997-08	220-1076	Torque To Yield,2 Required
Head Saver Shim		1997-08	230-2124	2 Required

256 C.I., (4.2L), OHV, GAS, CARB
1954-55 V8 256 CID**FOT256 45**
BORE - 92mm/3.60"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1954-55	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1954-55	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1954-55	00373	1.780 Head Diameter
	Exh	1954-55	00375	1.510 Head Diameter
Keeper	Both	1954-55	121-1007	1 SQ Bead Type
Guide	Int	1954-55	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1954-55	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1954-55	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
	Exh	1954-55	140-9604	0.3440 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Both	1954-55	140-5604	0.3440 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
Spring	Both	1954-55	160-1120	2.222 Length,W/O Rotator
Lifter	Both	1954-55	VL21	Mechanical Type

262 C.I., (4.3L), OHV, GAS, CARB, 12 Valve, Vin B
1961-64 L6 262 CID**FOT262 46**
BORE - 94.5mm/3.72"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1961-64	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1961-64	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,Replaces OEM # C4TZ-6057A & D1TZ-6057A
Keeper	Both	1961-64	121-1007	1 SQ Bead Type
Guide	Int	1961-64	140-9964	0.3730 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9964H)
	Exh	1961-64	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1961-64	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1961-64	160-1120	2.222 Length,W/O Rotator

FORD TRUCK / PASSENGER TRUCK (Cont'd)

46 262 C.I., (4.3L), OHV, GAS, CARB, 12 Valve, Vin B FOT262
 (cont.) 1961-64 L6 262 CID BORE - 94.5mm/3.72"

PART	YEARS	PART NO.	NOTES
Lifter	Both	1961-64 VL21	Mechanical Type
Push Rod	Both	1961-64 190-1221	8.258 Length

47 272 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin B, M, U FOT272
 1956-57 V8 272 CID BORE - 92.1mm/3.63"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1956-56 1957-57	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth, W/ 1.780 Valve Head Dia.
		SB1812-3	
		SB2000-1	2.000 O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.925 Valve Head Dia.
	Exh	1956-57	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		SB1562-1	
Valve	Int	1956-56 1957-57	1.780 Head Diameter
		00373	
		00494	1.925 Head Diameter
	Exh	1956-57	1.510 Head Diameter
		00375	
Keeper	Both	1956-57	1 SQ Bead Type
Stem Seal	Both	1956-57 1956-57	Umbrella Type, Poly Material, Umbrella Style
		122-1032	
		122-1047	Positive Type, Poly Material, 2-Ring Style
Guide	Int	1956-57	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1956-57	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
	Exh	1956-57	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1956-57	0.4375 I.D., 2.500 Length, 0.6267 O.D., Plain I.D. Conversion Guide, +2 O/S Available
		1956-57	0.4375 I.D., 2.500 Length, 0.6265 O.D., Spiral I.D. Conversion Guide
		1956-57	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
		140-5607	
		140-9105	
		140-6105	
		140-6119	
		140-9119	
		140-9607	
Spring	Both	1956-57	2.222 Length, W/O Rotator
Lifter	Both	1956-57	VL21
Push Rod	Both	1956-57 1957-57	8.258 Length, NOTE: Must Verify Length
		190-1221	
		190-1543	8.122 Length

48 281 C.I., (4.6L), SOHC, FLEX, GAS, FI, 16 Valve, Vin 6, W "TRITON" FOT281-SC16V
 1997-14 V8 281 CID BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1997-14	1 ⁷ / ₈ O.D., 1.600T I.D., 0.2520 Depth
	Exh	1997-99	1 ³ / ₈ O.D., 1.130T I.D., 0.3040 Depth, Exc. CNG & LPG
		2000-14	1 ¹ / ₂ O.D., 1.203T I.D., 0.2800 Depth, Also Available In Non-Magnetic (N) Material, Exc. CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth
		2000-14	1 ¹ / ₂ O.D., 1.203T I.D., 0.2800 Depth, CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth
		SB1875-56	
		SB1375-61	
		SB1500-50	
		SB1500-50N	
Valve	Int	1997-99	1.752 Head Diameter, 4.607 Length, Exc. CNG & LPG
		1997-99	1.752 Head Diameter, Stellite Face, 4.622 Length, CNG & LPG
		2000-14	1.752 Head Diameter, 4.752 Length, Exc. CNG & LPG
		2000-14	1.752 Head Diameter, Stellite Face, 4.752 Length, CNG & LPG
	Exh	1997-99	1.339 Head Diameter, 4.607 Length, Exc. CNG & LPG
		1997-99	1.339 Head Diameter, Stellite Face, 4.622 Length, CNG & LPG
		2000-14	1.418 Head Diameter, 4.681 Length, Exc. CNG & LPG
		01699	
		01699S	
		01924	
		01924S	
		01698	
		01698S	
		01925	

(Cont'd) FORD TRUCK / PASSENGER TRUCK

281 C.I., (4.6L), SOHC, FLEX, GAS, FI, 16 Valve, Vin 6, W "TRITON" FOT281-SC16V 48
 1997-14 V8 281 CID BORE - 90.2mm/3.55" (cont.)

PART	YEARS	PART NO.	NOTES
Valve	Exh 2000-14	01925S	1.418 Head Diameter,Stellite Face,4.681 Length, CNG & LPG
Keeper	Both 1997-14	121-1084	3 RD Bead Type
Stem Seal	Both 1997-14	122-1449	Positive Type,Viton Material,Top Hat Style
Guide	Both 1997-14	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,+2, +3 O/S Available
Spring	Both 1997-99 2000-14	160-1408 160-1411	2.115 Length,Conical, Large End O.D. 1.040" 2.101 Length,Conical, Large End O.D. 1.069",NOTE:These springs are for castings that have slotted spring seats in order to accept the larger O.D. spring
Lifter	Both 1997-14	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both 1997-14	180-1284	Roller Cam Follower
Head Bolt Set	1997-14 1997-14	220-1023 220-1125	Torque To Yield,2 Required Torque To Yield,2 Required; Improved Design
Head Saver Shim	1997-14 1997-14	230-2052L 230-2052R	Left,New Hgt.- 5.3100 - 5.3120; Min. Hgt.- 5.2980 Right,New Hgt.- 5.3100 - 5.3120; Min. Hgt.- 5.2980

281 C.I., (4.6L), SOHC, GAS, FI, 24 Valve, Vin 8 FOT281-SC24V 49
 2006-10 V8 281 CID BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2006-10 Exh 2006-10 2006-10	SB1375-50 SB1500-73 SB1500-73N	1 $\frac{3}{8}$ O.D.,1.109T I.D.,0.2550 Depth,Except CNG 1 $\frac{1}{2}$ O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material,Except CNG 1 $\frac{1}{2}$ O.D.,1.230 I.D.,0.2780 Depth,CNG
Valve	Int 2006-10 2006-10 Exh 2006-07 2006-10 2006-10	02118 02118S 02265 02119 02119S	1.331 Head Diameter,Includes " Flex-Fuel ", (Uses Two Intake Valves Per Cylinder) 1.331 Head Diameter,Stellite Face,CNG, (Uses Two Intake Valves Per Cylinder) 1.476 Head Diameter,Unleaded Fuel ONLY 1.479 Head Diameter,Inconel , " Flex-Fuel " 1.479 Head Diameter,Inconel, Stellite Face,CNG
Keeper	Both 2006-10	121-1082	3 RD Bead Type
Stem Seal	Both 2006-10	122-1356	Positive Type,Viton Material,Top Hat Style
Guide	Both 2006-10	140-3047	0.2371 I.D.,1.725 Length,0.4360 O.D.
Spring	Both 2006-10	160-1485	2.169 Length,Conical
Lifter	Both 2006-10	VL180	Hydraulic Lash Adjuster Type,W/ Undercut Groove On Boss
Rocker Components	Both 2006-10	180-1330	Cam Follower
Head Bolt Set	2006-10 2006-10	220-1023 220-1125	Torque To Yield,2 Required Torque To Yield,2 Required; Improved Design

281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin H FOT4.6-DC 50
 2003-05 V8 281 CID BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2003-05 Exh 2003-05	SB1500-79 SB1250-61	1 $\frac{1}{2}$ O.D.,1.295 I.D.,0.2620 Depth 1 $\frac{1}{4}$ O.D.,0.976 I.D.,0.1800 Depth
Valve	Int 2003-05 Exh 2003-05	01709 01708	1.456 Head Diameter 1.181 Head Diameter
Keeper	Both 2003-05	121-1084	3 RD Bead Type
Stem Seal	Both 2003-05	122-1419	Positive Type,Viton Material,Top Hat Style
Guide	Both 2003-05	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,W/ Non Stepped O.D., +2, +3 O/S Available

FORD TRUCK / PASSENGER TRUCK (Cont'd)

50 281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin H FOT4.6-DC
 (cont.) 2003-05 V8 281 CID BORE - 90.2mm/3.55"

PART		YEARS	PART NO.	NOTES
Spring	Both	2003-05	160-1425	1.736 Length,Conical
Lifter	Both	2003-05	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	2003-05	180-1284	Roller Cam Follower
Head Bolt Set		2003-05	220-1023	Torque To Yield,2 Required
		2003-05	220-1125	Torque To Yield
Head Saver Shim		2003-05	230-2052L	Left,New Hgt.- 5.3100 - 5.3120; Min. Hgt.- 5.2980
		2003-05	230-2052R	Right,New Hgt.- 5.3100 - 5.3120; Min. Hgt.- 5.2980

51 289 C.I., (4.7L), OHV, GAS, CARB, 16 Valve, Vin A, C, N FOT289
 1965-68 V8 289 CID BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-68	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1965-68	SB1562-1	1 ¹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1965-65	00947	1.781 Head Diameter,0.240 Tip To Groove
		1966-68	01001	1.780 Head Diameter,0.360 Tip To Groove, +15 O/S Stem Available
	Exh	1965-65	00742	1.450 Head Diameter,0.240 Tip To Groove
		1966-68	01000	1.451 Head Diameter,0.360 Tip To Groove, +15 O/S Stem Available
Keeper	Both	1965-68	121-1003	1 SQ Bead Type
Stem Seal	Both	1966-68	122-1038	Umbrella Type,Poly Material,Umbrella Style,To Change Level 10
Guide	Both	1965-68	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1965-68	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1966-68	160-1151	1.970 Length
Lifter	Both	1965-68	VL35	Hydraulic Type
Rocker Components	Both	1965-68	183-1030	Smooth Ball, ³ / ₈
		1966-68	180-1238	Rocker Arm, Cast, Rail Type
		1966-68	181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, (1) ⁵ / ₁₆ Nut
		1966-68	183-1020	Grooved Ball, ³ / ₈
		1966-68	184-1038	Nut, ³ / ₈
Push Rod	Both	1965-68	192-1321	6.804 Length

52 292 C.I., (4.8L), OHV, GAS, CARB, 16 Valve, Vin C, D FOT292
 1958-64 V8 292 CID BORE - 95.3mm/3.75"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1958-60	SB2000-1	2.000 O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.925 Valve Head Dia.
		1961-64	SB1750-3	1 ³ / ₄ O.D.,1 ¹⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.647 Valve Head Dia.
	Exh	1958-64	SB1562-2	1 ¹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1958-60	00494	1.925 Head Diameter
		1961-64	00376	1.647 Head Diameter
	Exh	1958-64	00375	1.510 Head Diameter
Keeper	Both	1958-64	121-1003	1 SQ Bead Type

(Cont'd) FORD TRUCK / PASSENGER TRUCK292 C.I., (4.8L), OHV, GAS, CARB, 16 Valve, Vin C, D
1958-64 V8 292 CIDFOT292 **52**
BORE - 95.3mm/3.75" (cont.)

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1958-64	122-1074	Positive Type, Viton Material, Ring & Band Style
Guide	Int	1958-64	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1958-64	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1958-64	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
		1958-64	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1958-64	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1958-64	140-6119	0.4375 I.D., 2.500 Length, 0.6267 O.D., Plain I.D. Conversion Guide, +2 O/S Available
		1958-64	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Exc. H.D. Eng., - 5 U/S I.D. Available (140-9105U)
		1958-64	140-9119	0.4375 I.D., 2.500 Length, 0.6265 O.D., Spiral I.D. Conversion Guide
Spring	Both	1958-64	160-1120	2.222 Length, W/O Rotator
Lifter	Both	1958-64	VL21	Mechanical Type
Push Rod	Both	1958-64	190-1221	8.258 Length

300 C.I., (4.9L), OHV, GAS, CARB, 12 Valve, Vin B "Heavy Duty"
1965-79 L6 300 CID300HD **53**
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-79	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1965-79	SB1687-1N	1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth
Valve	Int	1965-79	01120	1.780 Head Diameter, +15 O/S Stem Available
	Exh	1965-79	01177S	1.560 Head Diameter, Stellite Face, 1971-74 All, 1975-79 E-F150/350, P350/500, B-F500, +15 O/S Stem Available
Keeper	Both	1965-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1965-76	122-1035	Umbrella Type, Poly Material, Umbrella Style, From Change L18 Positive Type, Viton Material, All Rubber Style
		1965-79	122-1063	
Guide	Int	1965-79	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1965-79	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1965-79	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1965-79	160-1135	1.875 Length, W/ Rotator
	Both	1965-79	160-1134	1.990 Length, W/O Rotator
Rotator	Exh	1977-79	161-1006	
Lifter	Both	1965-79	VL35	Hydraulic Type
Rocker Components	Both	1965-79	180-1237	Rocker Arm, Cast
		1965-79	181-1040	Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Smooth Ball, (1) ³ / ₈ Nut, (1) ⁵ / ₁₆ Nut
		1965-79	183-1020	Grooved Ball, ³ / ₈
		1965-79	183-1030	Smooth Ball, ³ / ₈
		1965-79	184-1038	Nut, ³ / ₈
		1965-79	184-1039	Nut, ⁵ / ₁₆
		1978-79	184-1021	Stud, ⁵ / ₁₆
1978-79	184-1022	+6 Oversize Stud, ⁵ / ₁₆		

FORD TRUCK / PASSENGER TRUCK (Cont'd)

53 300 C.I., (4.9L), OHV, GAS, CARB, 12 Valve, Vin B "Heavy Duty" 300HD
 (cont.) 1965-79 L6 300 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Push Rod	Both	192-1322	10.136 Length,- 40 U/S (192-1322U40) Available

54 300 C.I., (4.9L), OHV, GAS, CARB, 12 Valve, Vin B, E, Y 300LD-CA
 1965-86 L6 300 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1965-86 1965-86	SB1812-3 SB1687-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ¹¹ / ₁₆ O.D.,1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int Exh	1965-70 1971-86 1985-86 1965-86 1971-82 1985-86	00963 01120 01505 01358 01177S 01504	1.781 Head Diameter 1.780 Head Diameter,4.810 Overall Length, 1971-74 All, 1985-86 E-F250/350 Over 8500 Lbs. GVW., +15 O/S Stem Available 1.781 Head Diameter,4.750 Overall Length, U150, E-F150/350 Under 8500 Lbs. GVW, +15 O/S Stem Available 1.560 Head Diameter,4.810 Overall Length, Exc. 1969-76, For 1977-86 Fits E-F100., +15 O/S Stem Available 1.560 Head Diameter,Stellite Face,+15 O/S Stem Available 1.560 Head Diameter,4.750 Overall Length, W/ Flat Valve Head, U-150, E-F150/350 Under 8500 Lbs. GVW, +15 O/S Stem Available
Keeper	Both	1965-86	121-1003	1 SQ Bead Type
Stem Seal	Both	1965-86 1965-86	122-1035 122-1063	Umbrella Type,Poly Material,Umbrella Style Positive Type,Viton Material,All Rubber Style
Guide	Int Exh	1965-86 1965-86 1965-86	140-9867 140-5607 140-9607	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh Both	1965-83 1985-86 1965-83 1985-86	160-1135 160-1203 160-1134 160-1202	1.875 Length,W/ Rotator 1.785 Length,W/ Rotator 1.990 Length,W/O Rotator 1.960 Length,W/O Rotator
Rotator	Exh	1977-83	161-1006	
Lifter	Both	1965-86	VL35	Hydraulic Type
Rocker Components	Both	1965-84 1965-84 1965-84 1965-84 1965-84 1965-84 1965-84 1965-84 1985-86 1985-86 1985-86	180-1237 181-1040 183-1020 183-1030 184-1021 184-1022 184-1038 184-1039 180-1029 183-1022 184-1035	Rocker Arm, Cast Rocker Arm Kit, Includes (1) Cast R. Arm, (1) Smooth Ball, (1) ³ / ₈ Nut, (1) ⁵ / ₁₆ Nut Grooved Ball, ³ / ₈ Smooth Ball, ³ / ₈ Stud, ⁵ / ₁₆ +6 Oversize Stud, ⁵ / ₁₆ Nut, ³ / ₈ Nut, ⁵ / ₁₆ Rocker Arm Fulcrum Bolt W/Washer, ⁵ / ₁₆
Push Rod	Both	1965-86	192-1322	10.136 Length,- 40 U/S (192-1322U40) Available
Head Saver Shim		1965-86	230-2017	New Hgt. - 3.700; Min. Hgt. N/A

(Cont'd) FORD TRUCK / PASSENGER TRUCK**300 C.I., (4.9L), OHV, GAS, FI, 12 Valve, Vin Y "Light Duty"**
1987-96 L6 300 CID**300LD-FI 55**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-96	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1987-96	SB1687-5	1 ¹¹ / ₁₆ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1987-96	01505	1.781 Head Diameter, E-F150/350 & Bronco, +15 O/S Stem Available
	Exh	1987-96	01504	1.560 Head Diameter, W/ Flat Valve Head, E-F150/350, U150 & Bronco, +15 O/S Stem Available
Keeper	Both	1987-96	121-1003	1 SQ Bead Type
Stem Seal	Int	02/91-96	122-1047	Positive Type, Poly Material, 2-Ring Style
	Exh	02/91-91	122-1196	Positive Type, Nitrile Material, 2-Ring Style
		02/91-96	122-1075	Positive Type, Viton Material, Ring & Band Style
	Both	1987-01/91	122-1063	Positive Type, Viton Material, All Rubber Style
Guide	Int	1987-96	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1987-96	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1987-96	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1987-96	160-1202	1.960 Length, W/O Rotator
		1987-96	160-1203	1.785 Length, W/ Rotator
Rotator	Exh	1987-96	161-1006	
Lifter	Both	1987-96	VL35	Hydraulic Type
Rocker Components	Both	1987-96	180-1029	Rocker Arm
		1987-96	183-1022	Fulcrum
		1987-96	184-1035	Bolt W/Washer, ⁵ / ₁₆
Push Rod	Both	1987-96	192-1322	10.136 Length, - 40 U/S (192-1322U40) Available
Head Saver Shim		1987-96	230-2017	New Hgt. - 3.700; Min. Hgt. N/A

300 C.I., (4.9L), OHV, BI-FUEL, FI, 12 Valve, Vin Z "LPG"
1994-96 L6 300 CID**300LP 56**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-96	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1994-96	SB1687-5N	1 ¹¹ / ₁₆ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	1994-96	01792	1.781 Head Diameter
	Exh	1994-96	01504S	1.560 Head Diameter, Stellite Face, W/ Flat Valve Head
Keeper	Both	1994-96	121-1003	1 SQ Bead Type
Stem Seal	Int	1994-96	122-1047	Positive Type, Poly Material, 2-Ring Style
	Exh	1994-94	122-1196	Positive Type, Nitrile Material, 2-Ring Style
		1994-96	122-1075	Positive Type, Viton Material, Ring & Band Style
Guide	Int	1994-96	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1994-96	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1994-96	160-1203	1.785 Length, W/ Rotator
	Both	1994-96	160-1202	1.960 Length, W/O Rotator
Rotator	Exh	1994-96	161-1006	
Lifter	Both	1994-96	VL35	Hydraulic Type
Rocker Components	Both	1994-96	180-1029	Rocker Arm

FORD TRUCK / PASSENGER TRUCK (Cont'd)

56 300 C.I., (4.9L), OHV, BI-FUEL, FI, 12 Valve, Vin Z "LPG" 300LP
 (cont.) 1994-96 L6 300 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1994-96	183-1022	Fulcrum
		1994-96	184-1035	Bolt W/Washer, 5/16
Push Rod	Both	1994-96	192-1322	10.136 Length,- 40 U/S (192-1322U40) Available

57 302 C.I., (5.0L), OHV, GAS, CARB FOT302
 1956-63 V8 302 CID BORE - 92mm/3.60"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1956-63	SB2125-1	2 1/8 O.D., 1 1/16 I.D., 1/4 Depth
	Exh	1956-63	SB1630E-1	1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material
Keeper	Int	1958-63	121-1007	1 SQ Bead Type
Guide	Int	1956-57	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1956-63	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	Exh	1956-63	140-6119	0.4375 I.D., 2.500 Length, 0.6267 O.D., Plain I.D. Conversion Guide, +2 O/S Available
		1956-63	140-9119	0.4375 I.D., 2.500 Length, 0.6265 O.D., Spiral I.D. Conversion Guide
Spring	Both	1956-63	160-1120	2.222 Length, W/O Rotator
Push Rod	Both	1956-63	190-1222	9.602 Length

58 302 C.I., (5.0L), OHV, GAS, CARB, Vin B, F, G FOT5.0-BFG
 1969-85 V8 302 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1969-85	SB1875-1	1 7/8 O.D., 1 5/16 I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
		1969-85	SB1562-1	1 1/16 O.D., 1 5/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1969-85	SB1562-1N	1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, LPG
Valve	Int	1969-69	01001	1.780 Head Diameter, 0.360 Tip To Groove, To Chg. L-4; 4.873 Overall Length., +15 O/S Stem Available
		1969-78	01137	1.781 Head Diameter, 0.461 Tip To Groove, 5.050 Overall Length, From Chg. L-4 To S/N BEO,001; +15 O/S Stem Available
		1978-85	01328	1.782 Head Diameter, 5.070 Overall Length .393 Tip To Groove, From S/N BEO,001; +3 & +15 O/S Stem Available
	Exh	1969-69	01000	1.451 Head Diameter, To Chg L-4; 4.873 Overall Length., +15 O/S Stem Available
		1969-85	01135	1.451 Head Diameter, From Chg. L-4; 5.070 Overall Length, Does Not Require A Lash Cap., +3 & +15 O/S Stem Available
		1969-85	01135S	1.451 Head Diameter, Stellite Face, LPG, Does Not Require Lash Cap; 5.070" Overall Length
Keeper	Exh	1969-85	121-1003	1 SQ Bead Type
Stem Seal	Both	1969-85	122-1038	Umbrella Type, Poly Material, Umbrella Style
		1969-85	122-1075	Positive Type, Viton Material, Ring & Band Style
		1969-85	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 1/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1969-85	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
	Both	1969-85	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)

(Cont'd) FORD TRUCK / PASSENGER TRUCK**302 C.I., (5.0L), OHV, GAS, CARB, Vin B, F, G**
1969-85 V8 302 CID**FOT5.0-BFG 58**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both	1969-85	140-9607 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	1980-85	160-1004 2.060 Length
	Exh	1980-85	160-1024 1.923 Length,W/ Rotator, W/ .185 Wire Dia.
	Both	1968-69	160-1151 1.970 Length
		1970-79	160-1041 1.965 Length
Lifter	Both	1969-85	VL35 Hydraulic Type
Rocker Components	Both	1969-69	184-1038 Nut, 3/8
		1969-78	180-1238 Rocker Arm, Cast, Rail Type
		1969-78	181-1041 Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) 3/8 Nut, (1) 5/16 Nut, To S/N BEO,001
	Both	1969-78	183-1020 Grooved Ball, 3/8
		1969-78	183-1030 Smooth Ball, 3/8
		1969-78	184-1021 Stud, 5/16
		1969-78	184-1022 +6 Oversize Stud, 5/16
		1969-78	184-1039 Nut, 5/16
		1978-85	180-1234 Rocker Arm, Stamped
		1978-85	181-1035 Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt, From S/N BEO,001
		1978-85	183-1022 Fulcrum, From S/N BEO,001
1978-85	184-1035 Bolt W/Washer, 5/16, From S/N BEO,001		
Push Rod	Both	1969-85	192-1409 6.876 Length, - 60 U/S (192-1409U60) Available

302 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin N, P
1986-01 V8 302 CID**FOT302-FI 59**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-01	SB1875-1 1 7/8 O.D., 1 5/8 I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material, Exc. 1996 Explorer
		1996-96	SB1937-23 1 15/16 O.D., 1 11/16 I.D., 3/16 Depth, Fits Explorer Only W/ 1.842 Valve Head Dia.
	Exh	1986-01	SB1562-1 1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1986-01	SB1562-1N 1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, LPG
Valve	Int	1986-01	01328 1.782 Head Diameter, From S/N BEO,001, +3 & +15 O/S Stem Available
		1996-96	01701 1.842 Head Diameter, Explorer Only
	Exh	1986-01	01135 1.451 Head Diameter, From Chg. L-4, Does Not Require Lash Cap., +3 & +15 O/S Stem Available
		1986-01	01135S 1.451 Head Diameter, Stellite Face, LPG, Does Not Require Lash Cap; 5.070" Overall Length
		1996-96	01877 1.541 Head Diameter, Explorer Only
Keeper	Both	1986-01	121-1003 1 SQ Bead Type
Stem Seal	Int	1990-92	122-1200 Positive Type, Viton Material, Metal Clad Style, OEM Style
	Exh	1990-92	122-1199 Positive Type, Viton Material, Metal Clad Style, OEM Style
	Both	1986-01	122-1238 Umbrella Type, Nylon/Viton Material, Viton Insert Style, Optional, Use W/ 1 1/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
		1986-90	122-1075 Positive Type, Viton Material, Ring & Band Style, W/ .550 O.D. Valve Guide
	1993-01	122-1249 Positive Type, Viton Material, Metal Clad Style	
Guide	Int	1986-01	140-6108 0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)

FORD TRUCK / PASSENGER TRUCK (Cont'd)

59 302 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin N, P FOT302-FI
 (cont.) 1986-01 V8 302 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Guide	Both	1986-01	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1986-01	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	1986-01	160-1004	2.060 Length
	Exh	1986-01	160-1024	1.923 Length,W/ Rotator
Lifter	Both	1986-91	VL35	Hydraulic Type
		1992-01	VL100	Hydraulic Roller Type
Rocker Components	Both	1986-01	180-1234	Rocker Arm, Stamped
		1986-01	181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt
		1986-01	183-1022	Fulcrum
		1986-01	184-1035	Bolt W/Washer, 5/16
Push Rod	Both	1986-91	192-1409	6.876 Length,- 60 U/S (192-1409U60) Available,W/ Hyd. Lifters
		1992-01	190-1473	6.248 Length,- 57 U/S (190-1473U57) Available,W/ Roller Lifters
Head Bolt Set		1992-01	220-1033	Torque To Yield,2 Required

60 302 C.I., (5.0L), DOHC, FLEX, FI, 32 Valve, Vin F FOT5.0DC-32V
 2011-17 V8 302 CID BORE - 92.2mm/3.63"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-17	13294	1.457 Head Diameter
	Exh	2011-17	13295	1.220 Head Diameter
Keeper	Both	2011-17	121-1082	3 RD Bead Type
Stem Seal	Both	2011-17	122-1447	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-17	140-3166	0.2373 I.D.,1.715 Length,0.4395 O.D.
Spring	Both	2011-14	160-1617	2.075 Length,Conical
Lifter	Both	2011-17	VL575	Hydraulic Lash Adjuster Type

61 330 C.I., (5.4L), OHV, GAS, CARB "Heavy Duty" FOT330HD
 1964-79 V8 330 CID BORE - 98.425mm/3.80"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-79	SB1815E-1	1.815 O.D.,1.595 I.D.,1/4 Depth,W/ 1.753 Valve Head Dia.
		1964-79	SB1875-2	1 7/8 O.D.,1 1/16 I.D.,1/4 Depth,Optional, Use W/ 1 7/8 Cutter
	Exh	1964-79	SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,W/ 1.506 Valve Head Dia.
		1964-79	SB1687-4N	1 11/16 O.D.,1 11/32 I.D.,5/16 Depth,Optional, Use W/ 1 11/16 Cutter
Valve	Int	1964-77	01057S	1.753 Head Diameter,Stellite Face,To S/N 025,001, +15 O/S Stem Available
		1977-79	01348	1.753 Head Diameter,From S/N 025,001
	Exh	1964-79	00917SN	1.506 Head Diameter,Stellite Face, Sodium Filled,+15 O/S Stem Available
Keeper	Both	1964-79	121-1007	1 SQ Bead Type
Stem Seal	Both	1964-79	122-1036	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	1964-79	140-6109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1964-79	140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1964-79	140-6119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available

(Cont'd) FORD TRUCK / PASSENGER TRUCK**330 C.I., (5.4L), OHV, GAS, CARB "Heavy Duty"**
1964-79 V8 330 CID**FOT330HD 61**
BORE - 98.425mm/3.80" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 1964-79	140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Both 1964-79	160-1006	1.960 Length
Lifter	Both 1964-79	VL9	Hydraulic Type
Rocker Components	Both 1964-79 1964-79	180-1059 186-1090	Rocker Arm, Cast Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both 1964-72 1972-79	190-1351 190-1426	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available 9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

330 C.I., (5.4L), OHV, GAS, CARB, 16 Valve "Medium Duty"
1964-77 V8 330 CID**FOT330MD 62**
BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1964-77 1964-77 Exh 1964-77 1964-77	SB1815E-1 SB1875-2 SB1630E-1 SB1687-4	1.815 O.D.,1.595 I.D.,¼ Depth,OEM # C8TZ-6057A 17⁄8 O.D.,1¼ I.D.,¼ Depth,Optional, Use W/ 17⁄8 Cutter 1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # C4TZ-6057A & D1TZ-6057A 11¼ O.D.,11½ I.D.,5⁄16 Depth,Also Available In Non-Magnetic (N) Material,Optional, Use W/ 11¼ Cutter
Valve	Int 1964-77 Exh 1964-77	00949 01332	1.753 Head Diameter 1.508 Head Diameter,+15 O/S Stem Available
Keeper	Both 1964-77	121-1007	1 SQ Bead Type
Stem Seal	Both 1964-77 1964-77	122-1031 122-1033	Positive Type,Poly Material,2-Ring Style Umbrella Type,Poly Material,Umbrella Style
Guide	Int 1964-77 1964-77 Exh 1964-77 1964-77	140-6109 140-9109 140-7298 140-9298	0.3740 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide 0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Int 1977-77 Both 1964-77	160-1175 160-1006	2.120 Length,W/ Damper 1.960 Length,Exc. 1977 Int
Lifter	Both 1964-77	VL9	Hydraulic Type
Rocker Components	Both 1964-77 1964-77	180-1059 186-1090	Rocker Arm, Cast Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both 1964-72 1972-77	190-1351 190-1426	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available 9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters

330 C.I., (5.4L), SOHC, GAS, FI, 16 Valve, Vin 3 "Triton Supercharged"
1999-04 V8 330 CID**FOT5.4-LIT 63**
BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1999-04 Exh 1999-01 2002-04	SB1875-56 SB1375-61 SB1500-50	17⁄8 O.D.,1.600T I.D.,0.2520 Depth 13⁄8 O.D.,1.130T I.D.,0.3040 Depth 1½ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Non-Magnetic (N) Material,Seat May Need To Be Machined To Achieve Correct Depth

FORD TRUCK / PASSENGER TRUCK (Cont'd)

63 330 C.I., (5.4L), SOHC, GAS, FI, 16 Valve, Vin 3 "Triton Supercharged" FOT5.4-LIT
 (cont.) 1999-04 V8 330 CID BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1999-01	01699	1.752 Head Diameter,4.607 Overall Length
		2002-04	01924	1.752 Head Diameter,4.752 Overall Length
	Exh	1999-01	01698	1.339 Head Diameter,4.607 Overall Length
		2002-04	01925	1.418 Head Diameter,4.681 Overall Length
Keeper	Both	1999-04	121-1084	3 RD Bead Type
Stem Seal	Both	1999-04	122-1449	Positive Type,Viton Material,Top Hat Style
Guide	Both	1999-04	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,+2, +3 O/S Available
Spring	Both	1999-04	160-1411	2.101 Length,Conical, Large End O.D. 1.069"
Lifter	Both	1999-04	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1999-04	180-1284	Roller Cam Follower
Head Bolt Set	1999-04	220-1023	Torque To Yield,2 Required	
	1999-04	220-1125	Torque To Yield,2 Required; Improved Design	
Head Saver Shim	1999-04	230-2052L	Left,New Hgt.- 5.3100 - 5.3120; Min. Hgt.- 5.2980	
	1999-04	230-2052R	Right,New Hgt.- 5.3100 - 5.3120; Min. Hgt.- 5.2980	

64 330 C.I., (5.4L), SOHC, BI-FUEL, CNG, FLEX, GAS, LPG, FI, 16 Valve, Vin 3, L, M, Z "TRITON" FOT5.4-SC16V
 1997-16 V8 330 CID BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1997-15	SB1875-56	1 $\frac{7}{8}$ O.D.,1.600T I.D.,0.2520 Depth
		1997-99	SB1375-61	1 $\frac{7}{8}$ O.D.,1.130T I.D.,0.3040 Depth,Exc. CNG & LPG
	Exh	2000-15	SB1500-50	1 $\frac{1}{2}$ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Non-Magnetic (N) Material,Exc. CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth
		2000-15	SB1500-50N	1 $\frac{1}{2}$ O.D.,1.203T I.D.,0.2800 Depth,CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1997-99	01699	1.752 Head Diameter,4.607 Length, Exc. CNG & LPG
		1997-99	01699S	1.752 Head Diameter,Stellite Face,4.622 Length, CNG & LPG
		2000-15	01924	1.752 Head Diameter,4.752 Length, Exc. CNG & LPG
		2000-15	01924S	1.752 Head Diameter,Stellite Face,4.752 Length, CNG & LPG
	Exh	1997-99	01698	1.339 Head Diameter,4.607 Length, Exc. CNG & LPG
		1997-99	01698S	1.339 Head Diameter,Stellite Face,4.622 Length, CNG & LPG
		2000-15	01925	1.418 Head Diameter,4.681 Length, Exc. CNG & LPG
		2000-15	01925S	1.418 Head Diameter,Stellite Face,4.681 Length, CNG & LPG
Keeper	Both	1997-15	121-1084	3 RD Bead Type
Stem Seal	Both	1997-15	122-1449	Positive Type,Viton Material,Top Hat Style
Guide	Both	1997-15	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,+2, +3 O/S Available
Spring	1997-99	160-1408	2.115 Length,Conical, Large End O.D. 1.040"	
	2000-15	160-1411	2.101 Length,Conical, Large End O.D. 1.069",NOTE:These springs are for castings that have slotted spring seats in order to accept the larger O.D. spring	
Lifter	Both	1997-15	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1997-15	180-1284	Roller Cam Follower
Head Bolt Set	1997-15	220-1023	Torque To Yield,2 Required	
	1997-15	220-1125	Torque To Yield,2 Required; Improved Design	
Head Saver Shim	1997-15	230-2052L	Left,New Hgt.- 5.3100 - 5.3120; Min. Hgt.- 5.2980	
	1997-15	230-2052R	Right,New Hgt.- 5.3100 - 5.3120; Min. Hgt.- 5.2980	

(Cont'd) FORD TRUCK / PASSENGER TRUCK**330 C.I., (5.4L), SOHC, FLEX, GAS, FI, 24 Valve, Vin 5, V**
2004-14 V8 330 CID**FOT5.4SC-24V 65**
BORE - 90.2mm/3.55"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2004-14	SB1375-50	1 $\frac{3}{8}$ O.D., 1.109T I.D., 0.2550 Depth, Except CNG
	Exh	2004-14	SB1500-73	1 $\frac{1}{2}$ O.D., 1.230 I.D., 0.2780 Depth, Also Available In Non-Magnetic (N) Material, Except CNG
		2004-14	SB1500-73N	1 $\frac{1}{2}$ O.D., 1.230 I.D., 0.2780 Depth, CNG
Valve	Int	2004-14	02118	1.331 Head Diameter, All Models, Includes " Flex-Fuel "(Uses Two Intake Valves per Cylinder)
		2004-14	02118S	1.331 Head Diameter, Stellite Face, CNG, (Uses Two Intake Valves Per Cylinder)
	Exh	2004-14	02119	1.479 Head Diameter, Inconel ,All Models Including "Flex Fuel", Except F150 Unleaded Fuel
		2004-14	02119S	1.479 Head Diameter, Inconel, Stellite Face, CNG
		2004-14	02265	1.476 Head Diameter, F150, Unleaded Fuel ONLY
Keeper	Both	2004-14	121-1082	3 RD Bead Type
Stem Seal	Both	2004-14	122-1356	Positive Type, Viton Material, Top Hat Style
Guide	Both	2004-14	140-3047	0.2371 I.D., 1.725 Length, 0.4360 O.D.
Spring	Both	2004-14	160-1485	2.169 Length, Conical
Lifter	Both	2004-04	VL178	Hydraulic Lash Adjuster Type
		2005-14	VL180	Hydraulic Lash Adjuster Type, W/ Undercut Groove On Boss, NOTE: Early Style Lash Adjuster VL178 Cannot Be Used In 2005 and Later Applications. If Used, Serious Engine Failure Will Occur.
Rocker Components	Both	2004-14	180-1330	Cam Follower
Head Bolt Set		2004-14	220-1023	Torque To Yield, 2 Required
		2004-14	220-1125	Torque To Yield, 2 Required; Improved Design

330 C.I., (5.4L), DOHC, GAS, FI, 32 Valve, Vin A, R "In-Tech"
1999-04 V8 330 CID**FOT5.4-DC32V 66**
BORE - 90.2mm/3.55"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1999-04	SB1500-79	1 $\frac{1}{2}$ O.D., 1.295 I.D., 0.2620 Depth
	Exh	1999-04	SB1250-61	1 $\frac{1}{4}$ O.D., 0.976 I.D., 0.1800 Depth
Valve	Int	1999-04	01709	1.456 Head Diameter
	Exh	1999-04	01708	1.181 Head Diameter
Keeper	Both	1999-04	121-1084	3 RD Bead Type
Stem Seal	Both	1999-04	122-1419	Positive Type, Viton Material, Top Hat Style
Guide	Both	1999-04	140-8274	0.2765 I.D., 1.930 Length, 0.4953 O.D., W/ Non Stepped O.D., +2, +3 O/S Available
Spring	Both	1999-04	160-1425	1.736 Length, Conical
Lifter	Both	1999-04	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1999-04	180-1284	Roller Cam Follower
Head Bolt Set		1999-04	220-1023	Torque To Yield, 2 Required
		1999-04	220-1125	Torque To Yield, 2 Required; Improved Design
Head Saver Shim		1999-04	230-2052L	Left, New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980
		1999-04	230-2052R	Right, New Hgt. - 5.3100 - 5.3120; Min. Hgt. - 5.2980

332 C.I., (5.4L), OHV, GAS, CARB, 16 Valve
1956-63 V8 332 CID**FOT332 67**
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1956-63	SB2125-1	2 $\frac{1}{8}$ O.D., 1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	1956-63	SB1630E-1	1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material

FORD TRUCK / PASSENGER TRUCK (Cont'd)

67 332 C.I., (5.4L), OHV, GAS, CARB, 16 Valve
(cont.) 1956-63 V8 332 CID

FOT332
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Guide	Int	1956-57	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1956-63	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1956-63	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	1956-63	140-6119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
		1956-63	140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1956-63	160-1120	2.222 Length,W/O Rotator
Push Rod	Both	1956-63	190-1222	9.602 Length

68 351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin G, H "WINDSOR"
1975-87 V8 351 CID

FOT351W-CA
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-87	SB1875-6	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ⁷ / ₃₂ Depth
	Exh	1975-87	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1975-87	SB1562-1N	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,LPG
Valve	Int	1975-87	01328	1.782 Head Diameter,+3 & +15 O/S Stem Available
	Exh	1975-78	01327	1.461 Head Diameter,W/ Cast Iron Rocker Arms, To S/N BAO,001, W/O Rotators.
		1975-87	01135S	1.451 Head Diameter,Stellite Face,LPG, Does Not Require Lash Cap
		1978-87	01135	1.451 Head Diameter,1978-79 W/ Steel Rocker Arms, From S/N BAO,001, 1980-87 All, Does Not Require Lash Cap., +3 & +15 O/S Stem Available
Keeper	Both	1975-87	121-1003	1 SQ Bead Type
Stem Seal	Both	1975-87	122-1038	Umbrella Type,Poly Material,Umbrella Style
		1975-87	122-1047	Positive Type,Poly Material,2-Ring Style
		1978-87	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1975-87	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1975-87	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	1975-87	160-1044	2.040 Length
	Exh	1975-87	160-1024	1.923 Length
Lifter	Both	1975-87	VL35	Hydraulic Type
Rocker Components	Both	1975-78	180-1238	Rocker Arm, Cast, Rail Type
		1975-78	181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, (1) ⁵ / ₁₆ Nut
		1975-78	183-1020	Grooved Ball, ³ / ₈ ,W/ Cast Rocker Arms, ³ / ₈ & ⁵ / ₁₆ Nuts
		1975-87	183-1030	Smooth Ball, ³ / ₈ ,W/ Cast Rocker Arms, ³ / ₈ & ⁵ / ₁₆ Nuts
		1975-87	184-1021	Stud, ⁵ / ₁₆
		1975-87	184-1022	+6 Oversize Stud, ⁵ / ₁₆
		1975-87	184-1035	Bolt W/Washer, ⁵ / ₁₆
		1975-87	184-1039	Nut, ⁵ / ₁₆
		1978-87	180-1234	Rocker Arm, Stamped

(Cont'd) FORD TRUCK / PASSENGER TRUCK**351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin G, H "WINDSOR"**
1975-87 V8 351 CID**FOT351W-CA 68**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1978-87	181-1035 Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) ⁵ / ₁₆ Bolt Fulcrum	
		1978-87		183-1022
Push Rod	Both	1975-78	192-1399	8.152 Length,W/ Cast Iron Rocker Arms
		1978-87	190-1443	8.182 Length,W/ Stamped Rocker Arms

351 C.I., (5.8L), OHV, GAS, CARB, 16 Valve, Vin G, H "MODIFIED"
1977-81 V8 351 CID**FOT351M 69**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1977-81	SB2125-2 2 ¹ / ₈ O.D., 1 ⁷ / ₈ I.D., ¹ / ₄ Depth SB1750-2 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material	
	Exh	1977-81		
Valve	Int	1977-77	01170	2.041 Head Diameter, 4 Groove, +15 O/S Stem Available, To S/N CGO,001
		1978-81	01380	2.041 Head Diameter, 1 Groove, From S/N CGO,001, +15 O/S Stem Available
	Exh	1977-77	01169	1.655 Head Diameter, 4 Groove, 0.3415 Stem Dia., +15 O/S Stem Available
		1978-81	01367	1.655 Head Diameter, 1 Groove, 0.3414 Stem Dia., +15 O/S Stem Available
Keeper	Both	1977-77	121-1019	4 RD Bead Type
		1978-81	121-1003	1 SQ Bead Type
Stem Seal	Both	1977-81	122-1038	Umbrella Type, Poly Material, Umbrella Style
		1977-81	122-1047	Positive Type, Poly Material, 2-Ring Style
Guide	Both	1977-81	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1977-81	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Exh	1978-81	160-1041	1.965 Length
	Both	1977-81	160-1161	2.068 Length, Exc. 1978-81 Exh
Lifter	Both	1977-81	VL35	Hydraulic Type
Rocker Components	Both	1977-81	180-1233	Rocker Arm, Stamped
		1977-81	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) ⁵ / ₁₆ Bolt
		1977-81	183-1022	Fulcrum
		1977-81	184-1034	Bolt, ⁵ / ₁₆
Push Rod	Both	1977-81	190-1417	9.500 Length, +60 O/S (190-1417+60) & - 60 U/S (190-1417U60) Available, Exc. Boss Special

351 C.I., (5.8L), OHV, GAS, FI, 16 Valve, Vin H, R "WINDSOR"
1988-97 V8 351 CID**FOT351W-FI 70**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-97	SB1875-6 1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ⁷ / ₃₂ Depth SB1562-1 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material	
	Exh	1988-97		
Valve	Int	1988-97	01328	1.782 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1988-97	01135	1.451 Head Diameter, Does Not Require Lash Cap, +3 & +15 O/S Stem Available.
Keeper	Both	1988-97	121-1003	1 SQ Bead Type
Stem Seal	Both	1988-89	122-1038	Umbrella Type, Poly Material, Umbrella Style
		1988-89	122-1047	Positive Type, Poly Material, 2-Ring Style

FORD TRUCK / PASSENGER TRUCK (Cont'd)

70 351 C.I., (5.8L), OHV, GAS, FI, 16 Valve, Vin H, R "WINDSOR" FOT351W-FI
 (cont.) 1988-97 V8 351 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1988-97 122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	1988-97 140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1988-97 140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int Exh	1988-97 160-1071	2.028 Length
		1988-97 160-1054	1.900 Length
Lifter	Both	1988-96 VL35	Hydraulic Type,Incl. 1993-96 Lightning
		1994-97 VL100	Hydraulic Roller Type,Exc. 1993-96 Lightning
Rocker Components	Both	1988-91 183-1030	Smooth Ball, 3/8
		1988-94 180-1234	Rocker Arm, Stamped
		1988-94 181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt
		1988-94 183-1022	Fulcrum
		1988-95 184-1035	Bolt W/Washer, 5/16
Push Rod	Both	1988-93 190-1443	8.182 Length,W/ Stamped Rocker Arms
		1994-97 190-1536	7.520 Length

71 351 C.I., (5.8L), OHV, GAS, FI, 16 Valve, Vin R "LIGHTNING" FOT351-HP
 1993-95 V8 351 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1993-95 SB1937-23	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D.,3/16 Depth
		1993-95 SB1625-33	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D.,3/16 Depth
Valve	Int Exh	1993-95 01701	1.842 Head Diameter
		1993-95 01877	1.541 Head Diameter
Keeper	Both	1993-95 121-1003	1 SQ Bead Type
Stem Seal	Int Exh	1993-95 122-1075	Positive Type,Viton Material, Ring & Band Style
		1993-95 122-1196	Positive Type,Nitrile Material,2-Ring Style
Guide	Both	1993-95 140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1993-95 140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Lifter	Both	1993-95 VL35	Hydraulic Type
Push Rod	Both	1993-93 190-1443	8.182 Length,W/ Stamped Rocker Arms
		1994-95 190-1536	7.520 Length

72 352 C.I., (5.8L), OHV, GAS, CARB, Vin D FOT352
 1965-67 V8 352 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1965-67 SB2062-1	2 ¹ / ₁₆ O.D.,1 ¹³ / ₁₆ I.D.,1/4 Depth
		1965-67 SB1687-1	1 ¹¹ / ₁₆ O.D.,1 ¹³ / ₃₂ I.D.,1/4 Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int Exh	1965-67 00637	2.027 Head Diameter,+15 O/S Stem Available
		1965-67 01242	1.559 Head Diameter,+15 O/S Stem Available
Keeper	Both	1965-67 121-1007	1 SQ Bead Type
Stem Seal	Both	1965-67 122-1011	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.500 O.D.
		1965-67 122-1033	Umbrella Type,Poly Material,Umbrella Style

(Cont'd) FORD TRUCK / PASSENGER TRUCK**352 C.I., (5.8L), OHV, GAS, CARB, Vin D**
1965-67 V8 352 CID**FOT352 72**
BORE - 101.6mm/4.00" (cont.)

PART		YEARS	PART NO.	NOTES
Guide	Int	1965-67	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1965-67	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	1965-67	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1965-67	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1965-67	160-1124	2.260 Length,W/ Damper
Lifter	Both	1965-67	VL9	Hydraulic Type
Rocker Components	Both	1965-67	180-1059	Rocker Arm, Cast
		1965-67	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1965-65	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips, To 12/65
		1966-67	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available,W/ Mechanical Lifters, From 1/66

359 C.I., (5.9L), OHV, GAS, CARB, 16 Valve , Vin K
1974-78 V8 359 CID**FOT359 73**
BORE - 102.87mm/4.05"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1974-78	SB1815E-1	1.815 O.D.,1.595 I.D.,¼ Depth,OEM # C8TZ-6057A
		1974-78	SB1875-2	1 ⁷ / ₈ O.D.,1 ¹ / ₁₆ I.D.,¼ Depth,Optional, Use W/ 1 ⁷ / ₈ Cutter
	Exh	1974-78	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # C4TZ-6057A & D1TZ-6057A
		1974-78	SB1687-4	1 ¹¹ / ₁₆ O.D.,1 ¹¹ / ₃₂ I.D., ⁵ / ₁₆ Depth,Also Available In Non-Magnetic (N) Material,Optional, Use W/ 1 ¹¹ / ₁₆ Cutter
Valve	Int	1974-77	01057S	1.753 Head Diameter,Stellite Face,To S/N 025,001 +15 O/S Stem Available
		1977-78	01348	1.753 Head Diameter,F600 Rental, From S/N 025,001
	Exh	1974-78	00917SN	1.506 Head Diameter,Stellite Face, Sodium Filled,+15 O/S Stem Available
Keeper	Both	1974-78	121-1007	1 SQ Bead Type
Stem Seal	Both	1974-78	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	1974-78	140-6109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1974-78	140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1974-78	140-6119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
		1974-78	140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Int	1977-78	160-1175	2.120 Length,W/ Damper,From S/N C10001
Lifter	Both	1974-78	VL9	Hydraulic Type
Rocker Components	Both	1974-78	180-1059	Rocker Arm, Cast
		1974-78	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1974-78	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

FORD TRUCK / PASSENGER TRUCK (Cont'd)

74 360 C.I., (5.9L), OHV, GAS, CARB, Vin Y
1968-76 V8 360 CID

FOT360Y
BORE - 102.9mm/4.05"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-76	SB2062-1 SB1687-1	2 ¹ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., 1/4 Depth
	Exh	1968-76		1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1968-76	00637 01242	2.027 Head Diameter, +15 O/S Stem Available
	Exh	1968-76		1.559 Head Diameter, +15 O/S Stem Available
Keeper	Both	1968-76	121-1007	1 SQ Bead Type
Stem Seal	Both	1968-76	122-1031	Positive Type, Poly Material, 2-Ring Style
		1968-76	122-1033	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	1968-76	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1968-76	140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	1968-76	140-7298	0.3730 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1968-76	140-9298	0.3729 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Exh	1973-76	160-1006	1.960 Length, F100
	Both	1968-76	160-1175	2.120 Length, W/ Damper, Exc. 1973-76 F100 Exh
Lifter	Both	1968-76	VL9	Hydraulic Type
Rocker Components	Both	1968-76	180-1059	Rocker Arm, Cast
		1968-76	186-1090	Rocker Arm Shaft, 2 Required W/ Hydraulic Lifter
Push Rod	Both	1968-76	190-1426	9.590 Length, +60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

75 361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve
1964-78 V8 361 CID

FOT361
BORE - 102.9mm/4.05"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-78	SB1815E-1 SB1875-2	1.815 O.D., 1.595 I.D., 1/4 Depth, OEM # C8TZ-6057A
		1964-78		1 ⁷ / ₈ O.D., 1 ⁹ / ₁₆ I.D., 1/4 Depth, Optional, Use W/ 1 ⁷ / ₈ Cutter
	Exh	1964-78	SB1630E-1	1.630 O.D., 1.335 I.D., 0.3120 Depth, +5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material, OEM # C4TZ-6057A & D1TZ-6057A
		1964-78	SB1630E-1N SB1687-4	1.630 O.D., 1.335 I.D., 0.3120 Depth, LPG 1 ¹¹ / ₁₆ O.D., 1 ¹¹ / ₃₂ I.D., 5/16 Depth, Also Available In Non-Magnetic (N) Material, Optional, Use W/ 1 ¹¹ / ₁₆ Cutter
1964-78	SB1687-4N	1 ¹¹ / ₁₆ O.D., 1 ¹¹ / ₃₂ I.D., 5/16 Depth, LPG, Optional, Use W/ 1 ¹¹ / ₁₆ Cutter		
Valve	Int	1964-77	01057S	1.753 Head Diameter, Stellite Face, To S/N 025,001, 0.473 Tip To Groove Length., +15 O/S Stem Available
		1977-78	01348	1.753 Head Diameter, F600 Rental, From S/N 025,001
	Exh	1964-78	00917SN	1.506 Head Diameter, Stellite Face, Sodium Filled, +15 O/S Stem Available
Keeper	Both	1964-78	121-1007	1 SQ Bead Type
Stem Seal	Both	1964-78	122-1036	Umbrella Type, Poly Material, Umbrella Style
		1964-78	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Int	1964-78	140-6109	0.3740 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1964-78	140-9109	0.3740 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1964-78	140-6119	0.4375 I.D., 2.500 Length, 0.6267 O.D., Plain I.D. Conversion Guide, +2 O/S Available

(Cont'd) FORD TRUCK / PASSENGER TRUCK**361 C.I., (5.9L), OHV, GAS, CARB, 16 Valve**
1964-78 V8 361 CID**FOT361 75**
BORE - 102.9mm/4.05" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 1964-78	140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Int 1977-78	160-1175	2.120 Length,W/ Damper,From S/N 025,001
	Both 1964-76	160-1006	1.960 Length,W/O Damper
Lifter	Both 1964-78	VL9	Hydraulic Type
Rocker Components	Both 1964-78	180-1059	Rocker Arm, Cast
	1964-78	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both 1964-72	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available,W/ Mechanical Lifters
	1972-78	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters (Std. Length) W/ Ball Tips

365 C.I., (6.0L), OHV, DIESEL, FI, 32 Valve, Vin P "Navistar Powerstroke Turbo"

2003-10 V8 365 CID

FOT6.0TD 76
BORE - 95mm/3.74"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2003-10	SB1375-2	1 $\frac{3}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh 2003-10	SB1250-15N	1 $\frac{1}{4}$ O.D.,0.905 I.D., $\frac{1}{4}$ Depth,NOTE: Star Series Material W/ Smaller I.D.; NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	2003-10	SB1250-3	1 $\frac{1}{4}$ O.D.,1.000 I.D., $\frac{1}{4}$ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int 2003-10	02179	1.339 Head Diameter
	2003-10	02179R	1.339 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
	Exh 2003-10	02180	1.102 Head Diameter
	2003-10	02180R	1.102 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
Keeper	Both 2003-10	121-1105A	1 RD Bead Type,OEM # 3C3Z6518AA
Stem Seal	Both 2003-10	122-1378	Positive Type,Viton Material,Top Hat Style
Guide	Both 2003-10	140-3055	0.2765 I.D.,2.331 Length,0.4395 O.D.
Spring	Both 2003-10	160-1458	2.076 Length
Lifter	Both 2003-10	VL114	Hydraulic Roller Type,OEM # 3C3Z6500AA
Push Rod	Both 2003-10	190-1548	9.795 Length,OEM # 8C3Z6565B; Note: Bronze Colored End MUST Install Towards Rocker Arm.
Head Saver Shim	2003-10	230-2148	New Hgt. N/A: Min. Hgt. N/A: 2 Required; NOTE: W/18mm Dowel Pins
	2003-10	230-2196	New Hgt. N/A: Min. Hgt. N/A: 2 Required; NOTE: W/20mm Dowel Pins
Injector Tubes and Components	2003-10	240-1034	Injector Tube,OEM # 3C3Z-9F538-AA, 1828320C1
	2003-10	240-1034GP	OEM # 3C3Z-12A379-AA; NOTE: Glow Plug Sleeve

370 C.I., (6.1L), OHV, GAS, CARB, 16 Valve Vin A, H
1979-91 V8 370 CID**FOT370MD 77**
BORE - 102.87mm/4.05"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1979-91	SB1875-1	1 $\frac{7}{8}$ O.D.,1 $\frac{5}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh 1979-91	SB1671E-1N	1.671 O.D.,1.367 I.D.,0.3110 Depth,OEM # D9HZ-6057C.
	1979-91	SB1687-4N	1 $\frac{11}{16}$ O.D.,1 $\frac{11}{32}$ I.D., $\frac{5}{16}$ Depth,Optional, Use W/ 1 $\frac{11}{16}$ Cutter
Valve	Int 1979-85	01382	1.784 Head Diameter,2 Bbl. Carb.

FORD TRUCK / PASSENGER TRUCK (Cont'd)

77 370 C.I., (6.1L), OHV, GAS, CARB, 16 Valve Vin A, H FOT370MD
 (cont.) 1979-91 V8 370 CID BORE - 102.87mm/4.05"

PART		YEARS	PART NO.	NOTES
Valve	Int	1979-91	01384S	1.784 Head Diameter,Stellite Face,1979-85 W/ 4 Bbl. Carb., 1986-91 All, +15 O/S Stem Available
	Exh	1979-85 1979-91	01381 01383SN	1.562 Head Diameter,2 Bbl. Carb. 1.563 Head Diameter,Stellite Face, Sodium Filled,1979-85 W/ 4 Bbl. Carb., 1986-91 All, +15 O/S Stem Available
Keeper	Both	1979-91	121-1007	1 SQ Bead Type
Stem Seal	Both	1979-91	122-1036	Umbrella Type,Poly Material,Umbrella Style
Guide	Exh	1979-91	140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Exh	1979-85	160-1204	2.100 Length,W/ 2Bbl Carb.
	Both	1979-91	160-1173	1.985 Length,Exc. 1979-85 Exh W/ 2 Bbl. Carb.
Lifter	Both	1979-91	VL35	Hydraulic Type
Rocker Components	Both	1979-91	180-1233	Rocker Arm, Stamped
		1979-91	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt
		1979-91	183-1022	Fulcrum
		1979-91	184-1034	Bolt, 5/16
Push Rod	Both	1979-91	190-1425	8.550 Length,+60 O/S (190-1425+60) Available,Exc. Police & Cobra Jet

78 379 C.I., (6.2L), SOHC, FLEX, GAS, FI, 16 Valve, Vin 6 FOT6.2-SC
 2010-17 V8 379 CID BORE - 102.1mm/4.02"

PART		YEARS	PART NO.	NOTES
Valve	Int	2010-16 2012-16	13288 13290S	2.106 Head Diameter,Except CNG-LPG 2.106 Head Diameter,Stellite Face,W/ CNG-LPG Prep Package
	Exh	2010-16 2012-16	13289 13291S	1.654 Head Diameter,Except CNG-LPG 1.654 Head Diameter,Stellite Face,W/ CNG-LPG Prep Package
Keeper	Both	2010-16	121-1024	3 RD Bead Type
Stem Seal	Both	2010-16	122-1445	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-16	140-3203	0.3142 I.D.,2.210 Length,0.5145 O.D.
Spring	Both	2010-16	160-1611	2.540 Length,Conical

79 389 C.I., (6.4L), OHV, GAS, CARB, 16 Valve Vin F FOT389MD
 1975-78 V8 389 CID BORE - 102.87mm/4.05"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-78	SB1815E-1	1.815 O.D.,1.595 I.D.,1/4 Depth,OEM # C8TZ-6057A
		1975-78	SB1875-2	1 7/8 O.D.,1 9/16 I.D.,1/4 Depth,Optional, Use W/ 1 7/8 Cutter
	Exh	1975-78	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # C4TZ-6057A & D1TZ-6057A
		1975-78	SB1687-4	1 11/16 O.D.,1 11/32 I.D.,5/16 Depth,Also Available In Non-Magnetic (N) Material,Optional, Use W/ 1 11/16 Cutter
Valve	Int	1975-77	01057S	1.753 Head Diameter,Stellite Face,To S/N 025,001, 0.473 Tip To Groove Length., +15 O/S Stem Available
	Exh	1975-78	00917SN	1.506 Head Diameter,Stellite Face, Sodium Filled,+15 O/S Stem Available
Keeper	Both	1975-78	121-1007	1 SQ Bead Type
Stem Seal	Both	1975-78	122-1036	Umbrella Type,Poly Material,Umbrella Style
		1975-78	122-1043	O-Ring Type,Nitrile Material,O-Ring Style

(Cont'd) FORD TRUCK / PASSENGER TRUCK**389 C.I., (6.4L), OHV, GAS, CARB, 16 Valve Vin F**
1975-78 V8 389 CID**FOT389MD 79**
BORE - 102.87mm/4.05" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Int	1975-78	140-6109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1975-78	140-9109	0.3740 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1975-78	140-6119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
		1975-78	140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1975-78	160-1006	1.960 Length
Lifter	Both	1975-78	VL9	Hydraulic Type
Rocker Components	Both	1975-78	180-1059	Rocker Arm, Cast
		1975-78	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1975-78	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters W/ Ball Tips

390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin H, M, S, Y
1968-76 V8 390 CID**FOT390-HM 80**
BORE - 102.9mm/4.05"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-76	SB2062-1	2 ¹ / ₁₆ O.D.,1 ¹³ / ₁₆ T I.D., ¹ / ₄ Depth
	Exh	1968-76	SB1687-1	1 ¹¹ / ₁₆ O.D.,1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
Valve	Int	1968-76	00637	2.027 Head Diameter,+15 O/S Stem Available
	Exh	1968-76	01242	1.559 Head Diameter,+15 O/S Stem Available
Keeper	Both	1968-76	121-1007	1 SQ Bead Type
Stem Seal	Both	1968-76	122-1031	Positive Type,Poly Material,2-Ring Style
		1968-76	122-1033	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	1968-76	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1968-76	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	1968-76	140-7298	0.3730 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1968-76	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Exh	1972-76	160-1006	1.960 Length,F100
	Both	1972-76	160-1175	2.120 Length,W/ Damper,Exc. F100 Exh.
Lifter	Both	1968-76	VL9	Hydraulic Type
Rocker Components	Both	1968-76	180-1059	Rocker Arm, Cast,Non-Adjustable
		1968-76	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1968-68	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available,W/ Hyd. Lifters W/ Ball Tips, To Change L2
		1968-76	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters W/ Ball Tips, From Change L2

391 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin F
1964-78 V8 391 CID**FOT391MD 81**
BORE - 102.87mm/4.05"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-78	SB1815E-1	1.815 O.D.,1.595 I.D., ¹ / ₄ Depth,OEM # C8TZ-6057A
		1964-78	SB1875-2	1 ⁷ / ₈ O.D.,1 ¹ / ₁₆ I.D., ¹ / ₄ Depth,Optional, Use W/ 1 ⁷ / ₈ Cutter

FORD TRUCK / PASSENGER TRUCK (Cont'd)

81 391 C.I., (6.4L), OHV, GAS, CARB, 16 Valve, Vin F FOT391MD
 (cont.) 1964-78 V8 391 CID BORE - 102.87mm/4.05"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1964-78	SB1630E-1	1.630 O.D.,1.335 I.D.,0.3120 Depth,+5, +10, & +20 O/S Available, Also Available In Non-Magnetic (N) Material,OEM # C4TZ-6057A & D1TZ-6057A
		1964-78	SB1630E-1N	1.630 O.D.,1.335 I.D.,0.3120 Depth,LPG
		1964-78	SB1687-4	1 ¹¹ / ₁₆ O.D.,1 ¹¹ / ₃₂ I.D., ⁵ / ₁₆ Depth,Also Available In Non-Magnetic (N) Material,Optional, Use W/ 1 ¹¹ / ₁₆ Cutter
		1964-78	SB1687-4N	1 ¹¹ / ₁₆ O.D.,1 ¹¹ / ₃₂ I.D., ⁵ / ₁₆ Depth,LPG, Optional, Use W/ 1 ¹¹ / ₁₆ Cutter
Valve	Int	1964-77	01057S	1.753 Head Diameter,Stellite Face,To S/N 025,001, 0.473 Tip To Groove Length., +15 O/S Stem Available
	Exh	1964-78	00917SN	1.506 Head Diameter,Stellite Face, Sodium Filled,+15 O/S Stem Available
Keeper	Both	1964-78	121-1007	1 SQ Bead Type
Stem Seal	Exh	1964-78	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	1964-78	140-9964	0.3730 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9964H)
	Exh	1964-78	140-6119	0.4375 I.D.,2.500 Length,0.6267 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
		1964-78	140-9119	0.4375 I.D.,2.500 Length,0.6265 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1964-77	160-1006	1.960 Length
		1977-78	160-1175	2.120 Length,W/ Damper
Lifter	Both	1964-78	VL9	Hydraulic Type
Rocker Components	Both	1964-78	180-1059	Rocker Arm, Cast,Non-Adjustable
		1964-78	186-1090	Rocker Arm Shaft,2 Required W/ Hydraulic Lifter
Push Rod	Both	1964-72	190-1351	9.620 Length,+60 O/S (190-1351+60) & - 60 U/S (190-1351U60) Available,W/ Mechanical Lifters
		1972-78	190-1426	9.590 Length,+60 O/S (190-1426+60) Available ,W/ Hyd. Lifters W/ Ball Tips

82 391 C.I., (6.4L), OHV, DIESEL, FI, 32 Valve, Vin R "Navistar MaxxForce 7" FOT6.4TD
 2008-10 V8 391 CID BORE - 98mm/3.86"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2008-10	SB1375-2	1 ³ / ₈ O.D.,1 ¹ / ₈ I.D., ¹ / ₄ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2008-10	SB1250-15N	1 ¹ / ₄ O.D.,0.905 I.D., ¹ / ₄ Depth,NOTE: Star Series Material W/ Smaller I.D.; NOTE: Seat May Need To Be Machined To Achieve Correct Depth
		2008-10	SB1250-3	1 ¹ / ₄ O.D.,1.000 I.D., ¹ / ₄ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2008-10	13182	1.339 Head Diameter,OEM # 8C3Z6507A
	Exh	2008-10	13183	1.161 Head Diameter,OEM # 8C3Z6505A
Keeper	Both	2008-10	121-1105A	1 RD Bead Type,OEM # 1828289C1
Stem Seal	Both	2008-10	122-1378	Positive Type,Viton Material,Top Hat Style,OEM # 3C3Z6571AA
Guide	Both	2008-10	140-3055	0.2765 I.D.,2.331 Length,0.4395 O.D.
Spring	Both	2008-10	160-1458	2.076 Length,OEM # 3C3Z6513AA
Lifter	Both	2008-10	VL114	Hydraulic Roller Type,OEM # 3C3Z6500AA
Push Rod	Both	2008-10	190-1548	9.795 Length,OEM # 8C3Z6565B; Note: Bronze Colored End MUST Install Towards Rocker Arm.
Head Saver Shim		2008-10	230-2178	New Hgt. - 3.740; Min. Hgt. - N/A

(Cont'd) FORD TRUCK / PASSENGER TRUCK

391 C.I., (6.4L), OHV, DIESEL, FI, 32 Valve, Vin R "Navistar MaxxForce 7" FOT6.4TD 82
 2008-10 V8 391 CID BORE - 98mm/3.86" (cont.)

PART	YEARS	PART NO.	NOTES
Injector Tubes and Components	2008-10	240-1034GP	OEM # 3C3Z-12A379-AA; NOTE: Glow Plug Sleeve
	2008-10	240-1043	Injector Tube,OEM # 8C3Z9N951A

400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin S, Z FOT400SZ 83
 1977-82 V8 400 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1977-82	SB2125-2	2 $\frac{1}{8}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth
	Exh 1977-82	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1977-77	01170	2.041 Head Diameter, 4 Groove, +15 O/S Stem Available, To S/N CGO,001
	1978-82	01380	2.041 Head Diameter, 1 Groove, From S/N CGO,001, +15 O/S Stem Available
	Exh 1977-77	01169	1.655 Head Diameter, 4 Groove, 0.3415 Stem Dia., +15 O/S Stem Available
	1978-82	01367	1.655 Head Diameter, 1 Groove, 0.3414 Stem Dia., +15 O/S Stem Available
Keeper	Both 1977-77	121-1019	4 RD Bead Type
	1978-82	121-1003	1 SQ Bead Type
Stem Seal	Int 1977-82	122-1038	Umbrella Type, Poly Material, Umbrella Style
	Exh 1977-82	122-1032	Umbrella Type, Poly Material, Umbrella Style
	Both 1977-82	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss
Guide	Both 1977-82	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
	1977-82	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh 1978-82	160-1041	1.965 Length, W/ Rotator
	Both 1977-82	160-1162	2.056 Length, W/O Rotator, Exc. 1978-82 Exh.
Lifter	Both 1977-82	VL35	Hydraulic Type
Rocker Components	Both 1977-82	180-1233	Rocker Arm, Stamped
	1977-82	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) $\frac{5}{16}$ Bolt
	1977-82	183-1022	Fulcrum
	1977-82	184-1034	Bolt, $\frac{5}{16}$
Push Rod	Both 1977-82	190-1417	9.500 Length, +60 O/S (190-1417+60) & - 60 U/S (190-1417U60) Available, Exc. Boss Special

401 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin H FOT401MD 84
 1958-76 V8 401 CID BORE - 104.77mm/4.125"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1958-76	SB2220E-1	2.220 O.D., 1.843 I.D., 0.3120 Depth, OEM # B8TZ-6057T
	Exh 1958-76	SB1744E-1N	1.744 O.D., 1.445 I.D., 0.3120 Depth, OEM # B8QH-6057A
Valve	Int 1958-76	00531S	2.020 Head Diameter, Stellite Face
	Exh 1958-76	00530SN	1.634 Head Diameter, Stellite Face, Sodium Filled
	1958-76	01346S	1.635 Head Diameter, Stellite Face, Optional
Keeper	Both 1958-76	121-1009	1 SQ Bead Type
Stem Seal	Both 1958-76	122-1003	Umbrella Type, Nitrile Material, Umbrella Style
Guide	Exh 1970-76	140-7197	0.4375 I.D., 3.000 Length, 0.6270 O.D., Plain I.D. Conversion Guide

FORD TRUCK / PASSENGER TRUCK (Cont'd)

84 401 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin H FOT401MD
 (cont.) 1958-76 V8 401 CID BORE - 104.77mm/4.125"

PART		YEARS	PART NO.	NOTES
Guide	Exh	1970-76	140-9197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide
	Both	1958-76	140-9609	0.4375 I.D.,2.625 Length,0.6270 O.D.,Spiral I.D. Conversion Guide,Both 1958-69, Intake Only 1970-76

85 401 C.I., (6.6L), DIESEL, FI, Vin P "Turbo Brazilian" FOT6.6TD
 1986-94 L6 401 CID BORE - 111.76mm/4.40 Inch

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-94	SB1962E-1N	1.962 O.D.,1.595T I.D.,0.3650 Depth,CF600/800 Series
	Exh	1986-94	SB1733E-2N	1.733 O.D.,1.455T I.D.,0.3650 Depth,CF600/800 Series
Valve	Int	1986-94	01694	1.842 Head Diameter,Indirect Injection
		1986-94	01757	1.870 Head Diameter,Direct Injection
	Exh	1986-94	01758	1.693 Head Diameter,Direct Injection
Keeper	Both	1986-94	121-1007	1 SQ Bead Type
Stem Seal	Both	1986-94	122-1237	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1986-94	140-8409	0.3730 I.D.,2.680 Length,0.6270 O.D.

86 406 C.I., (6.7L), OHV, DIESEL, FI, 32 Valve, Vin T "Powerstroke" FOT6.7TD
 2011-17 V8 406 CID BORE - 99.1mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-16	13265	1.331 Head Diameter
	Exh	2011-16	13266	1.195 Head Diameter,Inconel
Keeper	Both	2011-16	121-1084	3 RD Bead Type
Stem Seal	Both	2011-16	122-1441	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-16	140-3163	0.2764 I.D.,2.150 Length,0.4725 O.D.
Spring	Both	2011-16	160-1616	1.979 Length,Conical
Push Rod	Both	2011-16	190-1553	9.530 Length

87 415 C.I., (6.8L), SOHC, CNG, GAS, LPG, FI, 20 Valve, Vin S "TRITON" FOT415-HD20V
 1997-15 V10 415 CID BORE - 90.2mm/3.55"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1997-15	SB1875-56	1 $\frac{7}{8}$ O.D.,1.600T I.D.,0.2520 Depth
		1997-99	SB1375-61	1 $\frac{3}{8}$ O.D.,1.130T I.D.,0.3040 Depth,Exc. CNG & LPG
	Exh	2000-15	SB1500-50	1 $\frac{1}{2}$ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Non-Magnetic (N) Material,Exc. CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth
		2000-15	SB1500-50N	1 $\frac{1}{2}$ O.D.,1.203T I.D.,0.2800 Depth,CNG & LPG, Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1997-99	01699	1.752 Head Diameter,4.607 Length
		2000-15	01924	1.752 Head Diameter,4.752 Length, Exc. CNG & LPG
		2000-15	01924S	1.752 Head Diameter,Stellite Face,4.752 Length, CNG & LPG
	Exh	1997-99	01698S	1.339 Head Diameter,Stellite Face,4.622 Length
		2000-15	01925	1.418 Head Diameter,4.681 Length, Exc. CNG & LPG
		2000-15	01925S	1.418 Head Diameter,Stellite Face,4.681 Length, CNG & LPG
Keeper	Both	1997-15	121-1084	3 RD Bead Type
Stem Seal	Both	1997-15	122-1449	Positive Type,Viton Material,Top Hat Style
Guide	Both	1997-15	140-8274	0.2765 I.D.,1.930 Length,0.4953 O.D.,+2, +3 O/S Available
Spring	Both	1997-99	160-1408	2.115 Length,Conical, Large End O.D. 1.040"
		2000-15	160-1411	2.101 Length,Conical, Large End O.D. 1.069",NOTE:These springs are for castings that have slotted spring seats in order to accept the larger O.D. spring

(Cont'd) FORD TRUCK / PASSENGER TRUCK

415 C.I., (6.8L), SOHC, CNG, GAS, LPG, FI, 20 Valve, Vin S "TRITON" FOT415-HD20V 87
 1997-15 V10 415 CID BORE - 90.2mm/3.55" (cont.)

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1997-15	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	1997-15	180-1284	Roller Cam Follower
Head Bolt Set		1997-15	220-1071	Torque To Yield,2 Required
Head Saver Shim		1997-14	230-2179L	Left,New Hgt. - 5.310 - 5.312; Min. Hgt. - N/A
		1997-14	230-2179R	Right,New Hgt. - 5.310 - 5.312; Min. Hgt. - N/A

415 C.I., (6.8L), SOHC, CNG, GAS, LPG, FI, 30 Valve, Vin Y "TRITON" FOT415-HD30V 88
 2005-17 V10 415 CID BORE - 90.2mm/3.55"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2005-15	SB1375-50	1 $\frac{3}{8}$ O.D.,1.109T I.D.,0.2550 Depth,Except CNG
	Exh	2005-15	SB1500-73	1 $\frac{1}{2}$ O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material,Except CNG
		2005-15	SB1500-73N	1 $\frac{1}{2}$ O.D.,1.230 I.D.,0.2780 Depth,CNG
Valve	Int	2005-15	02118	1.331 Head Diameter,Includes " Flex-Fuel ", (Uses Two Intake Valves per Cylinder)
		2005-15	02118S	1.331 Head Diameter,Stellite Face,W/ CNG Prep Package, (Uses Two Intake Valves Per Cylinder)
	Exh	2005-15	02119	1.479 Head Diameter,Inconel ,Includes " Flex-Fuel "
		2005-15	02119S	1.479 Head Diameter,Inconel, Stellite Face,W/ CNG Prep Package
Keeper	Both	2005-15	121-1082	3 RD Bead Type
Stem Seal	Both	2005-15	122-1356	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-15	140-3047	0.2371 I.D.,1.725 Length,0.4360 O.D.
Spring	Both	2005-15	160-1485	2.169 Length,Conical
Lifter	Both	2005-15	VL180	Hydraulic Lash Adjuster Type,W/ Undercut Groove On Boss
Rocker Components	Both	2005-15	180-1330	Cam Follower
Head Saver Shim		2005-14	230-2179L	Left,New Hgt. - 5.310 - 5.312; Min. Hgt. - N/A
		2005-14	230-2179R	Right,New Hgt. - 5.310 - 5.312; Min. Hgt. - N/A

420 C.I., (6.9L), OHV, DIESEL, FI, 16 Valve, Vin 1 "Navistar" FOT6.9D 89
 1983-87 V8 420 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-84	SB1875-38	1 $\frac{7}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{3}{16}$ Depth,To Be Used In Most Early A & B Castings Due To Thin Wall Sections
		1983-87	SB1957ST	1.957 O.D.,1.563T I.D.,0.3130 Depth,NOTE: Small Stepped O.D. Dimension Is 1.755,Alternate Stepped O.D., Can Be Used in Thin Wall Casting
		1985-87	SB1937-23	1 $\frac{15}{16}$ O.D.,1 $\frac{11}{16}$ I.D., $\frac{3}{16}$ Depth,Cannot Be Used In Early Year A & B Castings Because Of Thin Casting
	Exh	1983-87	SB1669E-1	1.669 O.D.,1.372T I.D.,0.2720 Depth,OEM # E3TZ-6057B, Non-Magnetic
Valve	Int	1983-87	01543	1.877 Head Diameter,Valve Has .010 Larger Margin To Save Seat Replacement; Early Head That Use C1 Valve W/ Large Margin Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
	Exh	1983-87	01542	1.595 Head Diameter,Valve Has .010 Larger Margin To Save Seat Replacement; Early Heads That Use C1 Valves W/ Large Margins Will Need Seat Replacement To Attain Correct Installed Height

FORD TRUCK / PASSENGER TRUCK (Cont'd)

89 420 C.I., (6.9L), OHV, DIESEL, FI, 16 Valve, Vin 1 "Navistar" FOT6.9D
 (cont.) 1983-87 V8 420 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve	Exh 1983-87	01542S	1.595 Head Diameter,Stellite Face,NOTE: Recommend For Turbo Updated Engine. Valve Has 0.010 Larger Margin To Save Seat Replacement, Early Heads That Use C1 Valves W/ Large Margins Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
Keeper	Both 1983-87	121-1007	1 SQ Bead Type
Stem Seal	Exh 1983-87 Both 1983-87	122-1059 122-1330	Umbrella Type,GF Nylon Material,Umbrella Style Positive Type,Viton Material,Spring & Band Style
Guide	Both 1983-87 1983-87	140-7689 140-7712	0.3745 I.D.,2.600 Length,0.6250 O.D.,OEM Repair Version Check O.D 0.3740 I.D.,2.600 Length,0.6268 O.D.,Plain I.D. Conversion Guide,For Use W/ 5/8 Reamer, +2 O/S Available
Spring	Both 1983-87	160-1206	2.050 Length,W/ Damper
Lifter	Both 1983-87	VL114	Hydraulic Roller Type
Rocker Components	Both 1983-87	181-1060	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Retainer
Push Rod	Both 1983-87	190-1531	9.993 Length,Install Bronze Colored End Toward Rocker Arm.

90 429 C.I., (7.0L), GAS, CARB, Vin C, K "Medium Duty" FOT429-CA
 1979-91 V8 429 CID BORE - 110.74mm/4.30"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1979-91 Exh 1979-91 1979-91	SB2250-1 SB1781E-1N SB1812-21N	2 1/4 O.D.,1 15/16 I.D.,3/16 Depth 1.781 O.D.,1.476 I.D.,0.3110 Depth,OEM # D9HZ-6057A 1 13/16 O.D.,1 15/32 I.D.,5/16 Depth,Optional O/S, Use W/ 1 13/16 Cutter
Valve	Int 1979-91 Exh 1979-91	01386S 01385SN	2.064 Head Diameter,Stellite Face,+15 O/S Stem Available 1.670 Head Diameter,Stellite Face, Sodium Filled,+15 O/S Stem Available
Keeper	Both 1979-91	121-1007	1 SQ Bead Type
Stem Seal	Both 1979-91 1979-91	122-1036 122-1063	Umbrella Type,Poly Material,Umbrella Style Positive Type,Viton Material,All Rubber Style
Guide	Both 1979-91	140-9298	0.3729 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Exh 1986-91 Both 1979-91	160-1204 160-1173	2.100 Length,W/ 2Bbl. 1.985 Length,Exc. 1986-91 Exh W/ 2 Bbl. Carb.
Lifter	Both 1979-91	VL35	Hydraulic Type
Rocker Components	Both 1979-91 1979-91 1979-91 1979-91	180-1233 181-1034 183-1022 184-1034	Rocker Arm, Stamped Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 3/16 Bolt Fulcrum Bolt, 5/16
Push Rod	Both 1979-91	190-1425	8.550 Length,+60 O/S (190-1425+60) Available

91 429 C.I., (7.0L), OHV, LPG, FI, 16 Valve, Vin 8 "Medium Duty" FOT429-LPG
 1991-98 V8 429 CID BORE - 110.74mm/4.30"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1991-98 Exh 1991-98 1991-98	SB2062-30 SB1781E-1N SB1812-21N	2 1/16 O.D.,1 13/16 I.D.,3/16 Depth,Optional 1 13/16 I.D. 1.781 O.D.,1.476 I.D.,0.3110 Depth,OEM # D9HZ-6057A 1 13/16 O.D.,1 15/32 I.D.,5/16 Depth,Optional O/S, Use W/ 1 13/16 Cutter
Valve	Int 1991-98	01548S	1.977 Head Diameter,Stellite Face,To 12/97 Production

(Cont'd) FORD TRUCK / PASSENGER TRUCK**429 C.I., (7.0L), OHV, LPG, FI, 16 Valve, Vin 8 "Medium Duty"**
1991-98 V8 429 CID**FOT429-LPG 91**
BORE - 110.74mm/4.30" (cont.)

PART		YEARS	PART NO.	NOTES
Valve	Exh	1991-98	01832SN	1.654 Head Diameter,Stellite Face, Sodium Filled,To 12/97 Production, +15 O/S Stem Available, NOTE: When Converting Gas Heads, Use OEM Retainer # F1TZ-6514B & +60 Shim.
Keeper	Both	1991-98	121-1003	1 SQ Bead Type
Stem Seal	Int	1991-98	122-1047	Positive Type,Poly Material,2-Ring Style
	Exh	1991-98	122-1075	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1991-98	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1991-94	160-1173	1.985 Length
		1991-98	160-1201	2.090 Length,Use W/ 460 Casting # E7TE-BD
Lifter	Both	1991-98	VL35	Hydraulic Type
Rocker Components	Both	1991-98	180-1233	Rocker Arm, Stamped
		1991-98	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt
		1991-98	183-1022	Fulcrum
		1991-98	184-1034	Bolt, 5/16
Push Rod	Both	1991-98	190-1425	8.550 Length,+60 O/S (190-1425+60) Available

429 C.I., (7.0L), OHV, GAS, FI, 16 Valve, Vin J "Medium Duty"
1991-98 V8 429 CID**FOT429-FI 92**
BORE - 110.74mm/4.30"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-98	SB2062-30	2 1/16 O.D.,1 13/16 I.D.,3/16 Depth,Optional 1 13/16 I.D.
	Exh	1991-98	SB1781E-1N	1.781 O.D.,1.476 I.D.,0.3110 Depth,OEM # D9HZ-6057A
		1991-98	SB1812-21N	1 13/16 O.D.,1 15/32 I.D.,5/16 Depth,Optional O/S, Use W/ 1 13/16 Cutter
Valve	Int	1991-98	01548	1.978 Head Diameter,+15 O/S Stem Available
	Exh	1991-98	01832SN	1.654 Head Diameter,Stellite Face, Sodium Filled,To 12/97 Production, +15 O/S Stem Available
Keeper	Both	1991-98	121-1003	1 SQ Bead Type
Stem Seal	Int	1991-98	122-1047	Positive Type,Poly Material,2-Ring Style
	Exh	1991-98	122-1075	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1991-98	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1991-94	160-1173	1.985 Length
		1991-98	160-1201	2.090 Length,Use W/ 460 Casting E7TE-BD
Lifter	Both	1991-98	VL35	Hydraulic Type
Rocker Components	Both	1991-98	180-1233	Rocker Arm, Stamped
		1991-98	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt
		1991-98	183-1022	Fulcrum
		1991-98	184-1034	Bolt, 5/16
Push Rod	Both	1991-98	190-1425	8.550 Length,+60 O/S (190-1425+60) Available

445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin M "Navistar"
1988-95 V8 445 CID**FOT7.3D 93**
BORE - 104.4mm/4.11"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-89	SB1875-38	1 7/8 O.D.,1 5/8 I.D.,3/16 Depth,To Be Used In 1988-89 Castings Due To Thin Wall Sections

FORD TRUCK / PASSENGER TRUCK (Cont'd)

93 445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin M "Navistar"
 (cont.) 1988-95 V8 445 CID

FOT7.3D
 BORE - 104.4mm/4.11"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-95	SB1957ST 1.957 O.D., 1.563T I.D., 0.3130 Depth, NOTE: Small Stepped O.D. Dimension Is 1.755, Alternate Stepped O.D., Can Be Used in Thin Wall Casting
	Exh	1990-95 1990-95		SB1937-23 SB1669E-1 1^{15}/_{16} O.D., 1^{11}/_{16} I.D., ^{3}/_{16} Depth 1.669 O.D., 1.372T I.D., 0.2720 Depth, OEM # E3TZ-6057B, Cannot Be Used In 1988-89 Heads Due To Thin Castings, Non-Magnetic
Valve	Int	1988-95	01543 1.877 Head Diameter, Valve Has .010 Larger Margin To Save Seat Replacement; Early Head That Use C1 Valve W/ Large Margin Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
	Exh	1988-95	01542 1.595 Head Diameter, Valve Has .010 Larger Margin To Save Seat Replacement
		1988-95	01542S 1.595 Head Diameter, Stellite Face, NOTE: Recommend For Turbo Updated Engine. Valve Has 0.010 Larger Margin To Save Seat Replacement, +15 O/S Stem Available
Keeper	Both	1988-95	121-1007 1 SQ Bead Type
Stem Seal	Exh	1988-95	122-1059 122-1330 Umbrella Type, GF Nylon Material, Umbrella Style Positive Type, Viton Material, Spring & Band Style
	Both	1988-95	
Guide	Both	1988-95	140-7689 0.3745 I.D., 2.600 Length, 0.6250 O.D., OEM Repair Version Check O.D
		1988-95	140-7712 0.3740 I.D., 2.600 Length, 0.6268 O.D., Plain I.D. Conversion Guide, For Use W/ ⁵ / ₈ Reamer, +2 O/S Available
Spring	Both	1988-95	160-1206 2.050 Length, W/ Damper, OEM # E4TZ-6513C
Lifter	Both	1988-95	VL114 Hydraulic Roller Type
Rocker Components	Both	1988-95	181-1060 Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Retainer
Push Rod	Both	1988-95	190-1531 9.993 Length, Install Bronze Colored End Toward Rocker Arm.
Head Saver Shim		1988-95	230-2140 2 Required; New Hgt. - 4.795" - 4.805 - Min. Hgt. - 4.795"

94 445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin C, K "Navistar Turbo Indirect Inj."

1993-94 V8 445 CID

FOT7.3TD
 BORE - 104.4mm/4.11"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-94	SB1875-38 1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ³ / ₁₆ Depth, Optional, To Be Used in Thin Wall Casting
		1993-94	
		1993-94	
	Exh	1993-94	SB1937-23 SB1957ST 1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ³ / ₁₆ Depth, Indirect Injection 1.957 O.D., 1.563T I.D., 0.3130 Depth, NOTE: Small Stepped O.D. Dimension Is 1.755, Alternate Stepped O.D., Can Be Used in Thin Wall Casting
		1993-94	SB1669E-1 1.669 O.D., 1.372T I.D., 0.2720 Depth, OEM # E3TZ-6057B, Indirect Injection, Non-Magnetic
Valve	Int	1993-94	01543 1.877 Head Diameter, Valve Has .010 Larger Margin To Save Seat Replacement; Early Head That Use C1 Valve W/ Large Margin Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
	Exh	1993-94	01754 1.595 Head Diameter, Inconel, Valve Has .010 Larger Margin To Save Seat Replacement
Keeper	Both	1993-94	121-1007 1 SQ Bead Type
Stem Seal	Exh	1993-94	122-1059 122-1330 Umbrella Type, GF Nylon Material, Umbrella Style Positive Type, Viton Material, Spring & Band Style
	Both	1993-94	
Guide	Both	1993-94	140-7689 0.3745 I.D., 2.600 Length, 0.6250 O.D., OEM Repair Version Check O.D

(Cont'd) FORD TRUCK / PASSENGER TRUCK

445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin C, K "Navistar Turbo Indirect Inj." 94
FOT7.3TD (cont.)
 1993-94 V8 445 CID BORE - 104.4mm/4.11"

PART	YEARS	PART NO.	NOTES
Guide	Both 1993-94	140-7712	0.3740 I.D.,2.600 Length,0.6268 O.D.,Plain I.D. Conversion Guide,For Use W/ $\frac{3}{8}$ Reamer, +2 O/S Available
Spring	Both 1993-94	160-1206	2.050 Length,W/ Damper,OEM # E4TZ-6513C
Lifter	Both 1993-94	VL114	Hydraulic Roller Type
Rocker Components	Both 1993-94	181-1060	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Retainer
Push Rod	Both 1993-94	190-1531	9.993 Length,Install Bronze Colored End Toward Rocker Arm.
Head Saver Shim	1993-94	230-2140	2 Required; New Hgt. - 4.795" - 4.805 - Min. Hgt. - 4.795"

445 C.I., (7.3L), OHV, DIESEL, FI, 16 Valve, Vin F "Navistar Turbo Direct Inj. Power Stroke" 95
FOT7.3TED
 1994-03 V8 445 CID BORE - 104.4mm/4.11"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1994-03	SB1750-4	1 $\frac{3}{4}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material,Must Cut Seat Angle to 30 Degree
	Exh 1994-03	SB1750-4N	1 $\frac{3}{4}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth,Must Cut Seat Angle To 37.5 Degrees
Valve	Int 1994-03	01785	1.680 Head Diameter,W/ .3122 Stem Dia., 30 Degree Seat Angle
	Exh 1994-03	01786	1.680 Head Diameter,W/ .3122 Stem Dia., 37.5 Degree Seat Angle
Keeper	Both 1994-03	121-1011	1 SQ Bead Type
Stem Seal	Both 1994-03	122-1333	Positive Type,Viton Material,Top Hat Style
Guide	Both 1994-03	140-8476	0.3146 I.D.,2.440 Length,0.5651 O.D.,For $\frac{5}{16}$ Stem, OEM Replacement, Check Press Fit
	1994-03	140-8562	0.3145 I.D.,2.440 Length,0.5640 O.D.,Use W/ Std. $\frac{9}{16}$ Tooling
Spring	Both 1994-03	160-1206	2.050 Length,W/ Damper
Lifter	Both 1994-03	VL114	Hydraulic Roller Type
Push Rod	Both 1994-03	190-1538	10.240 Length,OEM # F4TZ6565A, NOTE: Bronze Colored End MUST Install Towards Rocker Arm.
Head Bolt Set	1994-03	220-1109	Torque To Yield,2 Required
Head Saver Shim	1994-03	230-2141	2 Required; New Hgt. - 5.095" - 5.105" - Min. Hgt. - 5.095"
Injector Tubes and Components	1994-03	240-1026	Injector Tube,Navistar OEM # 1814376C1

460 C.I., (7.5L), OHV, GAS, CARB, Vin A, J, L 96
FOT460-CA
 1973-87 V8 460 CID BORE - 110.7mm/4.36"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1973-87	SB2250-1	2 $\frac{1}{4}$ O.D.,1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth
	Exh 1973-87	SB1750-2N	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth
Valve	Int 1973-87	01272	2.083 Head Diameter,+15 O/S Stem Available
	Exh 1973-87	01271	1.654 Head Diameter,+15 O/S Stem Available
	1973-87	01547	1.654 Head Diameter,Recommended OEM Nickel Base Inconel Material,Optional, +15 O/S Stem Available
	1973-87	21547	1.654 Head Diameter,Alternative Austenitic Material,Optional
Keeper	Both 1973-87	121-1003	1 SQ Bead Type
Stem Seal	Int 1983-08/87	122-1325	Positive Type,Viton Material, Ring & Band Style,For Guide With 0.660 Seal Boss

FORD TRUCK / PASSENGER TRUCK (Cont'd)

96 460 C.I., (7.5L), OHV, GAS, CARB, Vin A, J, L
(cont.) 1973-87 V8 460 CID

FOT460-CA
BORE - 110.7mm/4.36"

PART		YEARS	PART NO.	NOTES
Stem Seal	Exh	1983-08/87	122-1326	Positive Type,Viton Material,Ring & Band Style,For Guide With 0.660 Seal Boss
	Both	1973-87	122-1074	Positive Type,Viton Material,Ring & Band Style,Use W/ 0.502 Valve Guide O.D.
Guide	Both	1973-87	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1973-87	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1973-87	160-1161	2.068 Length
		1973-87	160-1409	2.300 Length,W/ Damper,Opt. H.D. Spring
Lifter	Both	1973-87	VL35	Hydraulic Type
Rocker Components	Both	1973-87	180-1233	Rocker Arm, Stamped
		1973-87	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) $\frac{5}{16}$ Bolt
		1973-87	183-1022	Fulcrum
		1973-87	184-1034	Bolt, $\frac{5}{16}$
Push Rod	Both	1973-87	190-1425	8.550 Length,+60 O/S (190-1425+60) Available,Exc. Police & Cobra Jet

97 460 C.I., (7.5L), OHV, GAS, FI, 16 Valve, Vin G
1988-97 V8 460 CID

FOT460-FI
BORE - 110.7mm/4.36"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-97	SB2062-30	$2\frac{1}{16}$ O.D., $1\frac{13}{16}$ I.D., $\frac{3}{16}$ Depth,W/ 1.977 Valve Head Dia.
		1993-97	SB2250-1	$2\frac{1}{4}$ O.D., $1\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth,W/ 2.083 Valve Head Dia.
	Exh	1988-97	SB1781E-1N	1.781 O.D.,1.476 I.D.,0.3110 Depth
		1988-97	SB1812-21N	$1\frac{13}{16}$ O.D., $1\frac{15}{32}$ I.D., $\frac{5}{16}$ Depth,Optional O/S, Use W/ $1\frac{13}{16}$ Cutter
Valve	Int	1988-97	01548	1.978 Head Diameter,+15 O/S Stem Available
		1988-97	01548S	1.977 Head Diameter,Stellite Face,LPG
		1993-97	01723	2.083 Head Diameter
	Exh	1988-97	01547	1.654 Head Diameter,Recommended OEM Nickel Base Inconel Material,Includes LPG, +15 O/S Stem Available
		1988-97	21547	1.654 Head Diameter,Alternative Austenitic Material,Includes LPG
Keeper	Both	1988-97	121-1003	1 SQ Bead Type
Stem Seal	Int	1988-02/92	122-1325	Positive Type,Viton Material,Ring & Band Style
		03/92-94	122-1006	Positive Type,Rubber Material,Ring & Band Style
	Both	1988-02/92	122-1326	Positive Type,Viton Material,Ring & Band Style
		03/92-97	122-1075	Positive Type,Viton Material,Ring & Band Style
		1988-02/92	122-1074	Positive Type,Viton Material,Ring & Band Style,To 2/15/92
Guide	Both	1988-97	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1988-97	160-1201	2.090 Length
		1988-97	160-1409	2.300 Length,W/ Damper,Opt. H.D. Spring
Lifter	Both	1988-97	VL35	Hydraulic Type
Rocker Components	Both	1988-97	180-1233	Rocker Arm, Stamped
		1988-97	181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) $\frac{5}{16}$ Bolt
		1988-97	183-1022	Fulcrum
		1988-97	184-1034	Bolt, $\frac{5}{16}$
Push Rod	Both	1988-97	190-1425	8.550 Length,+60 O/S (190-1425+60) Available

(Cont'd) FORD TRUCK / PASSENGER TRUCK**473 C.I., (7.8L), DIESEL, FI, Vin A "Turbo Brazilian"**
1987-94 L6 473 CID**FOT7.8TD 98**
BORE - 111.76mm/4.40"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-94	SB1962E-1N	1.962 O.D.,1.595T I.D.,0.3650 Depth,CF600/800 Series
	Exh	1987-94	SB1733E-2N	1.733 O.D.,1.455T I.D.,0.3650 Depth,CF600/800 Series
Valve	Int	1987-94	01757	1.870 Head Diameter
	Exh	1987-94	01758	1.693 Head Diameter
Keeper	Both	1987-94	121-1007	1 SQ Bead Type
Stem Seal	Both	1987-94	122-1237	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1987-94	140-8409	0.3730 I.D.,2.680 Length,0.6270 O.D.

475 C.I., (7.8L), OHV, GAS, CARB, 16 Valve, Vin J "Medium Duty"
1973-79 V8 475 CID**FOT475 99**
BORE - 114.3mm/4.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1973-79	SB2220E-1	2.220 O.D.,1.843 I.D.,0.3120 Depth,OEM # B8TZ-6057T
	Exh	1973-79	SB1744E-1N	1.744 O.D.,1.445 I.D.,0.3120 Depth,OEM # B8QH-6057A
Valve	Int	1973-79	00531S	2.020 Head Diameter,Stellite Face
	Exh	1973-79	00530SN	1.634 Head Diameter,Stellite Face, Sodium Filled
		1973-79	01346S	1.635 Head Diameter,Stellite Face,Optional
Keeper	Both	1973-79	121-1009	1 SQ Bead Type
Stem Seal	Both	1973-79	122-1003	Umbrella Type,Nitrile Material,Umbrella Style
Guide	Int	1973-79	140-9609	0.4375 I.D.,2.625 Length,0.6270 O.D.,Spiral I.D. Conversion Guide
	Exh	1973-79	140-7197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		1973-79	140-9197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

477 C.I., (7.8L), OHV, GAS, CARB, 16 Valve, Vin K "Medium Duty"
1958-81 V8 477 CID**FOT477 100**
BORE - 114.3mm/4.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1958-81	SB2220E-1	2.220 O.D.,1.843 I.D.,0.3120 Depth,OEM # B8TZ-6057T
	Exh	1958-81	SB1744E-1N	1.744 O.D.,1.445 I.D.,0.3120 Depth,OEM # B8QH-6057A
Valve	Int	1958-81	00531S	2.020 Head Diameter,Stellite Face
	Exh	1958-81	00530SN	1.634 Head Diameter,Stellite Face, Sodium Filled
		1958-81	01346S	1.635 Head Diameter,Stellite Face,Optional
Keeper	Both	1958-81	121-1009	1 SQ Bead Type
Stem Seal	Both	1958-81	122-1003	Umbrella Type,Nitrile Material,Umbrella Style
Guide	Exh	1970-81	140-7197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		1970-81	140-9197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide
	Both	1958-81	140-9609	0.4375 I.D.,2.625 Length,0.6270 O.D.,Spiral I.D. Conversion Guide,Both 1958-69, Intake Only 1970-81

534 C.I., (8.8L), OHV, GAS, CARB, 16 Valve, Vin L "Medium Duty"
1958-81 V8 534 CID**FOT534 101**
BORE - 114.3mm/4.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1958-81	SB2220E-1	2.220 O.D.,1.843 I.D.,0.3120 Depth,OEM # B8TZ-6057T
	Exh	1958-81	SB1744E-1N	1.744 O.D.,1.445 I.D.,0.3120 Depth,OEM # B8QH-6057A
Valve	Int	1958-81	00531S	2.020 Head Diameter,Stellite Face
	Exh	1958-81	00530SN	1.634 Head Diameter,Stellite Face, Sodium Filled
		1958-81	01346S	1.635 Head Diameter,Stellite Face,Optional
Keeper	Both	1958-81	121-1009	1 SQ Bead Type

FORD TRUCK / PASSENGER TRUCK (Cont'd)

101 534 C.I., (8.8L), OHV, GAS, CARB, 16 Valve, Vin L "Medium Duty" FOT534
 (cont.) 1958-81 V8 534 CID BORE - 114.3mm/4.50"

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	122-1003	Umbrella Type,Nitrile Material,Umbrella Style
Guide	Exh	140-7197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		140-9197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide
	Both	140-9609	0.4375 I.D.,2.625 Length,0.6270 O.D.,Spiral I.D. Conversion Guide,Both 1958-69, Intake Only 1970-81

GM / INDUSTRIAL

Engine	Models	Line No.
4 Cylinder		
147 C.I., (2.4L), SOHC, 8 Valve, LG1, "Vortec Industrial"	Forklift	1
181 C.I., (3.0L), OHV, 8 Valve, Industrial	Forklift	2
1 147 C.I., (2.4L), SOHC, 8 Valve, LG1, "Vortec Industrial"		GMI-2.4
L4 147 CID		BORE-87.5mm/3.44"

PART	PART NO.	NOTES
Valve Seat Insert	Int	SB1812-54
	Exh	SB1500-62
Valve	Int	13168
	Exh	13169S
Stem Seal	Both	122-1073
Guide	Both	140-8039
Spring	Both	160-1576
Lifter	Both	VL109
Rocker Components	Both	180-1028

2 181 C.I., (3.0L), OHV, 8 Valve, Industrial **GMI-3.0**
 L4 181 CID **BORE - 101.6mm/4.00"**

PART	PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3
	Exh	SB1562-1N
Valve	Int	01193
	Exh	01294S
Keeper	Both	121-1003
Stem Seal	Both	122-1043
Spring	Both	160-1125
Push Rod	Both	192-1330

GM / PASSENGER CAR

Engine	Models	Line No.
3 Cylinder		
993cc, (1.0L), SOHC, GAS, CARB, 6 Valve, Vin 5, M "G10 Suzuki" (1985-88)	Sprint	1
993cc, (1.0L), SOHC, GAS, FI, 6 Valve, Vin 2 "Turbo G10 Suzuki" (1987-88)	Sprint Turbo	2
993cc, (1.0L), SOHC, GAS, FI, Vin 6 "G10 Suzuki" (1989-00)	Metro, Sprint	3

(Cont'd) GM / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1295cc, (1.3L), SOHC, GAS, FI, 8 Valve, Vin 9 "G13BA Suzuki" (1995-97)	Metro	4
1295cc, (1.3L), SOHC, GAS, FI, 16 Valve, Vin 2 "G13BB Suzuki" (1998-01)	Metro	5
83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin 9, C, LUJ "Turbocharged Ecotec" (2011-12)	Cruze	6
83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin B, LUV "Turbocharged Ecotec" (2012-17)	Cruze, Cruze Limited, Sonic	7
85 C.I., (1.4L), SOHC, GAS, CARB, 8 Valve, Vin I (1976-77) .	Chevette	8
85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin M, "LE2 Ecotec" (2016-17)	Cruze	9
85 C.I., (1.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 4, "LUU Ecotec" (2011-16)	ELR, Volt	10
85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin A, "LV7 Ecotec" (2016-17)	Spark	11
91 C.I., (1.5L), DOHC, GAS, FI, 16 Valve, Vin T, "LFV Ecotec" (2016-17)	Malibu	12
91 C.I., (1.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 5, "L3A Ecotec Hybrid" (2016-17)	Volt	13
1471cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin 7, K "4XC1 Isuzu" (1985-89)	Spectrum	14
1471cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin 9 "Turbo 4XC1 Isuzu" (1986-89)	Spectrum	15
1588cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 4 "4ALC Toyota" (1985-88)	Nova	16
1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5, "4AGE Toyota" (1988-92)	Nova, Prizm	17
1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin 6 "Korean" (1988-93)	LeMans	18
1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6, "4AFE Toyota" (1989-97)	Prizm	19
1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5 "4XE1W Isuzu" (1990-91)	Storm	20
1588cc, (1.6L), SOHC, GAS, FI, 12 Valve, Vin 6 "4XE1 Isuzu" (1990-93)	Storm	21
98 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6, L91 "E-TEC II" (2004-08)	Aveo, Aveo5	22
98 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin E, LXV "E-TEC II" (2009-11)	Aveo, Aveo5, G3, G3 Wave	23
98 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5, "LWC Ecotec" (2016-17)	Cascade	24
98 C.I., (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 9, C, E (1976-87)	Chevette	25
1788cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8 "7AFE Toyota" (1993-97)	Prizm	26
1794cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, "1ZZFE Toyota" (1998-08)	Prizm, Vibe	27
1795cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin L, "2ZZGE Toyota High Output" (2003-06)	Vibe GT	28
110 C.I., (1.8L), DOHC, GAS, FI, 16 Valve, Vin 1, 2H0 "Ecotec" (2008-09)	Astra	29

GM / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
4 Cylinder		
110 C.I., (1.8L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin U, "LKN Ecotec Hybrid" (2016-17)	Malibu	30
110 C.I., (1.8L), DOHC, FLEX, FI, 16 Valve, Vin H, "LUW Ecotec" (2011-17)	Cruze, Cruze Limited, Sonic	31
110 C.I., (1.8L), DOHC, GAS, FI, 16 Valve, Vin G, "LWE Ecotec" (2013-17)	Cruze, Cruze Limited, Sonic	32
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, LAY "ZRF Toyota" (2009-10)	Vibe	33
1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, "4XF1 Isuzu" (1992-93)	Storm	34
1816cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin B "G180Z Isuzu" (1976-79)	Opel	35
1819cc, (1.8L), OHV, DIESEL, FI, 8 Valve, Vin D "4FB1 Isuzu" (1981-86)	Chevette	36
112 C.I., (1.8L), OHV, GAS, CARB, 8 Valve, Vin G (1982-82)	Cavalier	37
112 C.I., (1.8L), SOHC, GAS, FI, 8 Valve, Vin 0 "Brazil" (1982-86)	J2000, J2000 Sunbird, Sunbird	38
112 C.I., (1.8L), SOHC, GAS, FI, 8 Valve, Vin J (1984-86)	J2000 Sunbird, Sunbird	39
116 C.I., (1.9L), SOHC, GAS, FI, 8 Valve, Vin 8, 9 "Saturn" (1991-02)	SC1, SL, SL1, SW1	40
116 C.I., (1.9L), DOHC, GAS, FI, 16 Valve, Vin 7 "Saturn" (1991-02)	SC, SC2, SL2, SW2	41
122 C.I., (2.0L), OHV, GAS, CARB, FI, 8 Valve, Vin B, P (1983-86)	Cavalier	42
122 C.I., (2.0L), OHV, GAS, FI, 8 Valve, Vin 1 (1987-89)	Beretta, Cavalier, Corsica	43
122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin M, Turbo "Brazil" (1987-90)	Grand Am, Sunbird	44
122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin K "Brazil" (1987-91)	LeMans, Sunbird	45
122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin H "Brazil" (1992-94)	Sunbird	46
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin Z "E-TEC II" (2004-07)	Opra	47
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin P, LSJ "Supercharged Ecotec" (2004-07)	Cobalt SS, Ion Redline	48
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin M, X, LNF "Direct Injected Turbocharged Ecotec" (2007-10)	Cobalt, HHR, Sky, Solstice	49
122 C.I., (2.0L), DOHC, FLEX, FI, 16 Valve, TURBO, Vin V, "LHU Ecotec" (2011-16)	Regal, Verano	50
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin X, "LTG Direct Injected Turbo Ecotec" (2013-17)	ATS, Camaro, CT6, CTS, Malibu, Regal	51
134 C.I., (2.2L), OHV, GAS, FI, 8 Valve, Vin 4, G, LN2 (1990-02)	Beretta, Cavalier, Century, Corsica, Cutlass Ciera, Lumina, Sunfire	52
134 C.I., (2.2L), DOHC, GAS, FI, 16 Valve, Vin D, F, "L61 Ecotec" (2000-08)	Alero, Cavalier, Classic, Cobalt, G5, Grand Am, HHR, Ion, L100, L200, L300, LS, LS1, LW1, LW200, Malibu, Pursuit, Sunfire	53
134 C.I., (2.2L), DOHC, GAS, FI, 16 Valve, Vin 5, H, LAP "Ecotec" (2009-10)	Cobalt, G5	54
134 C.I., (2.2L), DOHC, FLEX, FI, 16 Valve, Vin B, W, LE8 "Ecotec" (2009-11)	HHR	55

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Engine	Models	Line No.
4 Cylinder		
138 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin D "Quad 4" (1988-95)	Achieva, Cavalier, Cutlass Calais, Cutlass Supreme, Grand Am, Grand Prix, Sunfire	56
138 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin 3 (1992-94) . . .	Achieva, Grand Am, Skylark	57
140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin A "Quad 4" (1989-94)	Achieva, Beretta, Cutlass Calais, Cutlass Supreme, Grand Am . .	58
140 C.I., (2.3L), SOHC, GAS, CARB, Vin A, B (1971-77)	Monza, Vega	59
146 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin T (1996-02) .	Achieva, Alero, Cavalier, Grand Am, Malibu, Skylark, Sunfire . .	60
145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 0, 1, B, P, "LE5 Ecotec" (2006-12)	Aura, Cobalt, G5, G6, HHR, Ion, Malibu, Pursuit, Sky, Solstice . .	61
145 C.I., (2.4L), DOHC, FLEX, FI, 16 Valve, Vin 0, U, V, "LE9 Ecotec" (2009-12)	G6, HHR, Malibu	62
145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin C, LAF "Direct Injected Ecotec" (2010-11)	Allure, LaCrosse, Regal	63
145 C.I., (2.4L), DOHC, FLEX, FI, 16 Valve, Vin K, LEA "Direct Injected Ecotec" (2012-17)	Orlando, Regal, Verano	64
145 C.I., (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 5, "LAT Hybrid Ecotec" (2007-09)	Aura Hybrid, Malibu Hybrid"	65
145 C.I., (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin R, "LUK Ecotec" (2012-16)	Impala, LaCrosse, Malibu, Regal	66
2362cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 0, "TOYOTA 2AZFE/ GM LAX" (2009-10)	Vibe	67
150 C.I., (2.5L), DOHC, FLEX, GAS, FI, 16 Valve, Vin A, "LCV Direct Injected Ecotec" (2013-17)	ATS, Impala, Malibu, Malibu Limited	68
151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin V (1977-80)	Astre, Phoenix, Sunbird, Ventura	69
151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin 1 "California" (1978-79)	Sunbird	70
151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin 9 (1979-79)	Sunbird	71
151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin 5, F, V (1980-83)	6000, Firebird, Phoenix, Sunbird	72
151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin R "Pontiac" (1982-91)	6000, Celebrity, Century, Citation, Citation II, Cutlass Ciera, Cutlass Cruiser, Fiero, Lumina, Omega, Phoenix, Skylark	73
151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin 2 (1982-86)	Camaro, Firebird	74
151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin U (1985-91)	Calais, Cutlass Calais, Grand Am, Skylark, Somerset, Somerset Regal	75
153 C.I., (2.5L), OHV, GAS, CARB, 8 Valve (1962-70)	Chevy II, Nova	76
153 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin L, "LKW Direct Injected Ecotec W/IVLC" (2014-15)	Impala, Malibu	77
6 Cylinder		
173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin 1, 7, X, Z (1980-84)	Camaro, Celebrity, Century, Citation, Citation II, Skylark	78
173 C.I., (2.8L), OHV, GAS, FI, 12 Valve, Vin S, W (1985-89)	Beretta, Camaro, Cavalier, Celebrity, Citation II, Corsica	79
170 C.I., (2.8L), DOHC, GAS, FI, 24 Valve, Vin T "LP1" (2005-07)	CTS	80
181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin R (1997-05) .	Catera, L300, LS2, LW2, LW300	81
181 C.I., (3.0L), OHV, GAS, CARB, 12 Valve, Vin E (1982-84)	Century	82
181 C.I., (3.0L), OHV, GAS, FI, 12 Valve, Vin L (1985-88) . . .	LeSabre, Skylark, Somerset, Somerset Regal	83

GM / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
6 Cylinder		
182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin G, Y, LF1 (2010-11)	Allure, CTS, LaCrosse	84
182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin 5, LFW (2012-14)	CTS	85
182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin 6, LGW "Turbo" (2016-17)	CT6	86
189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin V "Turbo" (1989-90)	Grand Prix	87
189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin T (1988-94)	6000, Beretta, Camaro, Cavalier, Celebrity, Corsica, Cutlass Supreme, Firebird, Grand Prix, Lumina, Regal, Sunbird, Tempest	88
189 C.I., (3.1L), OHV, FLEX, FI, 12 Valve, Vin W (1993-93)	Lumina	89
189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin M "Aluminum Castings" (1993-99)	Achieva, Beretta, Century, Corsica, Cutlass, Cutlass Ciera, Cutlass Cruiser, Cutlass Supreme, Grand Am, Grand Prix, Lumina, Malibu, Monte Carlo, Regal, Skylark	90
189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin J (2000-05)	Century, Grand Prix, Lumina, Malibu	91
194 C.I., (3.2L), OHV, GAS, CARB, 12 Valve (1962-67)	Chevelle, Chevy II, Malibu	92
196 C.I., (3.2L), OHV, GAS, CARB, 12 Valve, Vin C "Buick" (1978-79)	Century, Regal	93
197 C.I., (3.2L), DOHC, GAS, FI, 24 Valve, Vin N, LA3 (2003-04)	Cadillac CTS	94
200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin M (1978-79)	Malibu, Monte Carlo	95
204 C.I., (3.3L), OHV, GAS, FI, 12 Valve, Vin N (1989-93)	Century, Skylark	96
207 C.I., (3.4L), DOHC, GAS, FI, 24 Valve, Vin X (1991-97)	Cutlass Supreme, Grand Prix, Lumina, Monte Carlo	97
207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin S (1993-95)	Camaro, Firebird	98
207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin E (1999-05)	Grand Am, Impala, Monte Carlo	99
213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin 8 "LX9" (2004-06)	G6, Malibu	100
213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin N "LZ4" (2006-10)	Aura, G6, Impala, Malibu, Monte Carlo	101
213 C.I., (3.5L), OHV, FLEX, FI, 12 Valve, Vin K "LZE" (2006-11)	G6, Impala, Malibu, Monte Carlo	102
214 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, Vin H "LX5 Northstar Oldsmobile" (1999-02)	Aurora, Intrigue	103
215 C.I., (3.5L), OHV, GAS, CARB, 12 Valve "Pontiac" (1964-65)	LeMans, Tempest	105
216 C.I., (3.5L), GAS, CARB "Chevrolet" (1937-53)		106
217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin 7 "LY7" (2004-12)	Allure, Aura, CTS, G6, G8, LaCrosse, Malibu, STS	107
217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin D, V, "LLT Direct Injected" (2008-11)	Allure, Camaro, CTS, LaCrosse, STS	108
217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin 8, LF3 "Turbo" (2014-17)	CTS V Sport, XTS V Sport	109
217 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 3, "LFX Direct Injected" (2012-17)	ATS, Camaro, CTS, Impala, Impala Limited, LaCrosse, XTS	110
217 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 3, "LFX Direct Injected POLICE" (2012-16)	Caprice POLICE, Impala POLICE, Impala Limited POLICE	111

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Engine	Models	Line No.
6 Cylinder		
217 C.I., (3.6L), DOHC, BI-FUEL, FI, 24 Valve, Vin N, LFR (2015-17)	Impala	112
217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin S, LGX (2016-17)	ATS, Camaro, CT6, CTS	113
225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve (1964-67)	Skylark, Special, Sportwagon	114
229 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 9, K (1980-84)	Camaro, Caprice, Grand LeMans, Impala, LeMans, Malibu, Monte Carlo	115
230 C.I., (3.8L), OHV, GAS, CARB, 12 Valve "Chevrolet" (1963-70)	Bel Air, Biscayne, Camaro, Chevelle, Chevy II, Impala, Malibu, Nova	116
231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin A, C (1975-87)	Bonneville, Camaro, Caprice, Catalina, Century, Cutlass, Cutlass Calais, Cutlass Cruiser, Cutlass Salon, Cutlass Supreme, Delta 88, Firebird, Grand Am, Grand LeMans, Grand Prix, Impala, Laurentian, LeMans, LeSabre, Malibu, Monte Carlo, Monza, Omega, Parisienne, Phoenix, Regal, Skyhawk, Skylark, Starfire, Sunbird, Ventura	117
231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 2 "California, Buick" (1978-79)	Century, Regal, Skyhawk	118
231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin G "Turbo Buick" (1978-78)	Regal	119
231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 3, 8 "Turbo Buick" (1978-83)	Century, LeSabre, Monte Carlo, Regal, Riviera	120
231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 7, 9 "Turbo Buick" (1984-87)	Regal, Riviera	121
231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 2, 3, B, C, K, L (1986-09)	Allure, Bonneville, Camaro, Century, Electra, Firebird, Grand Prix, Impala, LaCrosse, LeSabre, Lucerne, Lumina, Monte Carlo, Park Avenue, Reatta, Regal, Riviera	122
231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 1, 4, "Supercharged" (1991-07)	88, 98, Bonneville, Grand Prix, Impala, LSS, Monte Carlo, Park Avenue, Regal, Riviera	123
235 C.I., (3.8L), OHV, GAS, CARB, 12 Valve (1950-62)	Bel Air, Biscayne, Brookwood, Corvette, Del Ray, Fleetline, Impala, Kingswood, Nomad, One-Fifty Series, Parkwood, Styleline Deluxe, Styleline Special, Two-Ten Series, Yeoman	124
237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin 1 "LZ9" (2006-10)	G6, Impala, Lucerne, Malibu, Monte Carlo	125
237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Active Fuel Mgmt., Vin R "LZ8" (2007-07)	Impala	126
237 C.I., (3.9L), OHV, FLEX, FI, 12 Valve, Active Fuel Mgmt., Vin 3, "LZG" (2008-08)	Impala	127
237 C.I., (3.9L), OHV, FLEX, FI, 12 Valve, Vin M, "LGD" (2009-11)	Impala, Lucerne	128
250 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin D (1966-79)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Estate, Impala, Kingswood, Malibu, Nova	130
252 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin 4 (1980-84)	DeVille, Eldorado, Electra, Fleetwood, LeSabre, Regal, Riviera, Seville	132
260 C.I., (4.3L), OHV, DIESEL, FI, 12 Valve, Vin T, V (1982-85)	98, Cutlass Calais, Cutlass Ciera, Cutlass Supreme	134
262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z (1985-93)	Bonneville, Caprice, Commercial Chassis, Grand Prix, Impala, Monte Carlo, Parisienne	136

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Engine	Models	Line No.
8 Cylinder		
215 C.I., (3.5L), OHV, GAS, CARB, 16 Valve, "Buick" (1961-63)	Cutlass, F85, Jetfire, Skylark, Special	104
244 C.I., (4.0L), DOHC, GAS, FI, 32 Valve, Vin C "L47 Northstar Oldsmobile" (1995-03)	Aurora	129
250 C.I., (4.1L), OHV, GAS, FI, 16 Valve, Vin 7, 8 "Cadillac" (1982-88)	Allante, Commercial Chassis, DeVille, Eldorado, Fleetwood, Seville	131
260 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin 8, F (1975-82)	Cutlass, Cutlass Calais, Cutlass Cruiser, Cutlass Salon, Cutlass Supreme, Cutlass Tiara, Delta 88, Omega	133
262 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin G (1975-76)	Monza, Nova	135
265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve (1955-57)	Bel Air, Corvette, Del Ray, Nomad, One-Fifty Series, Two-Ten Series	137
265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin S "Pontiac" (1981-81)	Bonneville, Catalina, Firebird, Grand LeMans, Grand Prix, Laurentian, LeMans, Parisienne	138
265 C.I., (4.3L), OHV, GAS, FI, 16 Valve, Vin W "Chevrolet High Performance" (1994-96)	Caprice	139
267 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin J "Chevrolet" (1979-82)	Camaro, Caprice, Impala, Malibu, Monte Carlo	140
267 C.I., (4.4L), DOHC, GAS, FI, 32 Valve, Vin D " LC3 Northstar S/C" (2006-09)	STS-V, XLR-V	141
273 C.I., (4.5L), OHV, GAS, FI, 16 Valve, Vin 3, 5, 8 "Cadillac" (1988-92)	Allante, Commercial Chassis, DeVille, Eldorado, Fleetwood, Seville	142
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin 9, S, "L37 Northstar" (1993-11)	Allante, DeVille, DTS, Eldorado, Lucerne, Seville	143
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin 6, Y, "LD8 Northstar" (1993-11)	Bonneville, DeVille, DTS, Eldorado, Lucerne, Seville	144
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin A "LH2 Northstar" (2004-10)	STS, XLR	145
283 C.I., (4.6L), OHV, GAS, CARB, 16 Valve (1957-67)	Bel Air, Biscayne, Brookwood, Caprice, Chevelle, Chevy II, Corvette, Del Ray, Impala, Kingswood, Malibu, Nomad, One-Fifty Series, Parkwood, Two-Ten Series, Yeoman	146
300 C.I., (4.9L), OHV, GAS, CARB, 16 Valve "Buick" (1964-67)	Estate Wagon, LeSabre, Skylark, Special, Sportwagon	147
300 C.I., (4.9L), OHV, GAS, FI, 16 Valve, Vin B "Cadillac" (1991-95)	60 Special, Commercial Chassis, DeVille, Eldorado, Fleetwood, Seville	148
301 C.I., (4.9L), OHV, GAS, CARB, 16 Valve, Vin W, Y (1977-81)	Bonneville, Catalina, Firebird, Grand Am, Grand LeMans, Grand Prix, Grand Safari, LeMans, Ventura	149
302 C.I., (4.9L), OHV, GAS, CARB, 16 Valve "Chevrolet" (1967-69)	Camaro	150
305 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin G, H, Q (1976-88)	Camaro, Caprice, Corvette, Impala, Laguna, Malibu, Monte Carlo, Monza, Nova	151
305 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin E, F (1985-93)	Camaro, Caprice, Commercial Chassis	152
307 C.I., (5.0L), OHV, GAS, CARB, Vin F (1968-73)	Acadian, Beaumont, Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Estate, Impala, Kingswood, Laguna, Laurentian, Malibu, Nova, Parisienne, Strato-Chief, Townsman, Ventura	153

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Engine	Models	Line No.
8 Cylinder		
307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin 9 "Oldsmobile" (1984-87)	Brougham, Cutlass Calais, Cutlass Salon, Cutlass Supreme . . .	154
307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin Y "Oldsmobile" (1980-90)	98, Bonneville, Brougham, Caprice, Catalina, Custom Cruiser, Cutlass Calais, Cutlass Cruiser, Cutlass Salon, Cutlass Supreme, Delta 88, Electra, Estate Wagon, Fleetwood, Laurentian, LeSabre, Parisienne, Regal, Riviera, Safari, Toronado	155
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin C, Active Fuel Mgmt., "LS4 Vortec Gen IV Aluminum Block" (2005-09)	Allure, Grand Prix, Impala, LaCrosse, Monte Carlo	156
324 C.I., (5.3L), OHV, GAS, CARB, 16 Valve "Oldsmobile" (1954-56)	88, 98, Deluxe 88, Starfire, Super 88	157
326 C.I., (5.3L), OHV, GAS, CARB, 16 Valve "Pontiac" (1963-67)	Firebird, LeMans, Tempest	158
327 C.I., (5.3L), OHV, GAS, CARB, FI, 16 Valve "Chevrolet HP, SHP" (1962-69)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Corvette, Estate, Impala, Kingswood, Malibu, Townsman . . .	159
327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve "Chevrolet Standard" (1962-69)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Corvette, Estate, Impala, Kingswood, Malibu, Townsman . . .	160
330 C.I., (5.4L), OHV, GAS, CARB, 16 Valve "Oldsmobile" (1964-67)	442, Cutlass, Cutlass Supreme, Delmont 88, F85, Jetstar 88, Vista Cruiser	161
340 C.I., (5.6L), OHV, GAS, CARB, 16 Valve " Buick " (1966-67)	Gran Sport, LeSabre, Skylark, Special, Sportwagon	162
346 C.I., (5.7L), GAS, CARB, 16 Valve "Cadillac" (1946-48)	Cadillac	163
350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin H, J, X, "Buick" (1968-80)	Apollo, Bonneville, Catalina, Centurion, Century, Electra, Estate Wagon, Firebird, Grand Am, Grand LeMans, Grand Safari, GS, GS 350, LeSabre, Regal, Riviera, Skylark, Special, Sportwagon, Tempest, Ventura	164
350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve "Pontiac" (1968-77)	Acadian, Beaumont, Bonneville, Catalina, Firebird, Grand Am, Grand LeMans, Grand Prix, Grand Safari, Laurentian, LeMans, Parisienne, Strato-Chief, Tempest, Ventura	165
350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin L "Chevrolet" (1967-82)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Corvette, Estate, Impala, Kingswood, Laguna, Malibu, Monte Carlo, Nova, Townsman	166
350 C.I., (5.7L), OHV, DIESEL, FI, 16 Valve, Vin N "Oldsmobile" (1978-85)	98, Custom Cruiser, Cutlass, Cutlass Calais, Cutlass Cruiser, Cutlass Salon, Cutlass Supreme, Delta 88, Toronado	167
350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin G, H, J, K, R " Rocket " (1968-80)	98, Custom Cruiser, Cutlass, Cutlass Calais, Cutlass Cruiser, Cutlass Salon, Cutlass Supreme, Cutlass Tiara, Delmont 88, Delta 88, F85, Omega, Toronado, Vista Cruiser	168
350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin 7, 8 (1982-93)	Camaro, Caprice, Commercial Chassis, Corvette	169
350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin G "LS1" (1997-04)	Camaro, Corvette, Firebird	170
350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin S "LS6" (2001-05)	Corvette Z06, CTS-V	171
350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin P "LT1 Aluminum Heads" (1992-97)	Camaro, Caprice, Corvette, Firebird, Impala	172
350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin P "LT1 Cast Iron Heads" (1994-96)	Caprice, Fleetwood, Impala, Roadmaster	173

GM / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
8 Cylinder		
350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin 5 " LT4 W/ Manual Trans. " (1996-96)	Corvette W/ Manual Trans.	174
350 C.I., (5.7L), DOHC, GAS, FI, 32 Valve, Vin J " LT5 " (1990-95)	Corvette ZR-1	175
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Active Fuel Mgmt., Vin Y, "L76 Aluminum Block" (2008-09)	G8	176
364 C.I., (6.0L), OHV, FLEX, FI, 16 Valve, Vin 2, Active Fuel Mgmt., L77 (2011-17)	Caprice	177
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin U "LS2 Vortec " (2005-07)	Corvette, CTS V, GTO	178
365 C.I., (6.0L), OHV, GAS, CARB, 16 Valve "Cadillac" (1956-58)	Commercial Chassis, DeVille, Eldorado, Series 60 Fleetwood, Series 62, Series 70 Fleetwood Eldorado, Series 75 Fleetwood	179
368 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin 6 "Cadillac" (1980-84)	Commercial Chassis, DeVille, Fleetwood	180
368 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin 9 "Cadillac" (1980-84)	DeVille, Eldorado, Fleetwood, Seville	181
371 C.I., (6.1L), OHV, GAS, CARB, 16 Valve "Oldsmobile" (1957-60)	88, 98, Dynamic, Fiesta, Golden Rocket 88, Starfire, Super 88	182
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Super Charged, Vin P, "LSA Aluminum Block" (2009-15)	CTS-V	183
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Super Charged, Vin P, "LSA Aluminum Block" (2012-15)	Camaro ZL1	184
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin W, Active Fuel Mgmt., " LS3 W/Auto Trans. " (2008-17)	Corvette W/Auto Trans., G8 W/Auto Trans., SS W/Auto Trans.	185
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin W, Active Fuel Mgmt., " LS3 W/ Manual Trans. " (2008-17)	Camaro SS W/ Manual Trans., Corvette W/ Manual Trans., G8 W/ Manual Trans., SS W/ Manual Trans.	186
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin R, T, "Supercharged LS9 Aluminum Block" (2009-13)	Corvette	187
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Active Fuel Mgmt., Vin J, "L99 W/ Auto Trans." (2010-15)	Camaro SS W/ Auto Trans.	188
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 7, Active Fuel Mgmt., LT1 (2014-17)	Camaro, Corvette	189
376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 6, LT4, Active Fuel Mgmt., "Supercharged Direct Injected" (2015-17)	Camaro, Corvette, CTS	190
389 C.I., (6.4L), OHV, GAS, CARB, 16 Valve "Pontiac" (1959-66)	Bonneville, Catalina, Grand Prix, GTO, Star Chief, Tempest, Ventura	191
390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve "Cadillac" (1959-63)	Commercial Chassis, DeVille, Eldorado, Series 60 Fleetwood, Series 62, Series 75 Fleetwood	192
394 C.I., (6.5L), OHV, GAS, CARB, 16 Valve "Oldsmobile" (1959-64)	98, Classic 98, Dynamic, Fiesta, Jetstar I, Starfire, Super 88	193
396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve (1965-69)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Corvette, Estate, Impala, Kingswood, Malibu, Nova, Townsman	194
396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve "Special High Performance" (1965-69)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Chevy II, Corvette, Estate, Impala, Kingswood, Malibu, Nova, Townsman	195
396 C.I., (6.5L), GAS, CARB "Big Block" (1970-72)	Chevelle, Nova	196

(Cont'd) GM / PASSENGER CAR

Engine	Models	Line No.
8 Cylinder		
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve (1965-69)	Gran Sport, GS 400, Skylark, Sportwagon	197
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, "Olds High Performance" (1965-69)	442, Cutlass, F85, Vista Cruiser	198
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin N, P, R, S, T, X, Y, Z "Pontiac" (1967-79)	Bonneville, Catalina, Executive, Firebird, Grand Am, Grand LeMans, Grand Prix, Grand Safari, Grandville, GTO, Laurentian, LeMans, Parisienne, Strato-Chief, Tempest	199
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve " Olds Standard " (1968-69)	442, Cutlass, Vista Cruiser	200
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin R, U (1970-76)	Bel Air, Biscayne, Brookwood, Caprice, Chevelle, Estate, Impala, Kingswood, Laguna, Malibu, Monte Carlo, Townsman	201
401 C.I., (6.6L), OHV, GAS, CARB, 16 Valve " Buick " (1959-66)	Electra, Estate Wagon, Gran Sport, Invicta, LeSabre, Riviera, Skylark, Wildcat	202
402 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin S, U (1970-72)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Chevelle, Estate, Impala, Kingswood, Monte Carlo, Nova, Townsman	203
403 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin K "Oldsmobile" (1977-79)	98, Custom Cruiser, Cutlass, Cutlass Salon, Cutlass Supreme, Delta 88, Toronado	204
409 C.I., (6.7L), OHV, GAS, CARB, 16 Valve (1961-65)	Bel Air, Biscayne, Brookwood, Impala, Kingswood, Nomad, Parkwood	205
421 C.I., (6.9L), OHV, GAS, CARB, 16 Valve (1963-64)	Bonneville, Catalina, Grand Prix, Star Chief	206
425 C.I., (7.0L), OHV, GAS, CARB, 16 Valve "Oldsmobile" (1965-67)	98, Delmont 88, Delta 88, Dynamic, Jetstar I, Starfire, Toronado	207
425 C.I., (7.0L), OHV, GAS, CARB, FI, 16 Valve, Vin S, T (1977-79)	Commercial Chassis, DeVille, Eldorado, Fleetwood	208
427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve "Chevrolet Special High Performance" (1966-69)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Corvette, Estate, Impala, Kingswood, Townsman	209
427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve (1966-69)	Bel Air, Biscayne, Brookwood, Camaro, Caprice, Corvette, Estate, Impala, Kingswood, Townsman	210
427 C.I., (7.0L), OHV, GAS, FI, 16 Valve, Vin E, "LS7 Z06" (2006-15)	Camaro, Corvette	211
428 C.I., (7.0L), OHV, GAS, CARB, 16 Valve (1967-69)	Bonneville, Catalina, Executive, Grand Prix	212
429 C.I., (7.0L), OHV, GAS, CARB, 16 Valve (1964-67)	Calais, Commercial Chassis, DeVille, Eldorado, Fleetwood, Series 60 Fleetwood, Series 62, Series 75 Fleetwood	213
430 C.I., (7.0L), OHV, GAS, CARB, 16 Valve " Buick " (1967-69)	Electra, Riviera, Wildcat	214
454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin S, V, W, X, Y, Z (1970-76)	Bel Air, Biscayne, Brookwood, Caprice, Chevelle, Corvette, Estate, Impala, Kingswood, Laguna, Malibu, Monte Carlo, Nova, Townsman	215
454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, "Special High Performance" (1970-76)	Bel Air, Biscayne, Brookwood, Caprice, Chevelle, Corvette, Estate, Impala, Kingswood, Laguna, Malibu, Monte Carlo, Nova, Townsman	216
455 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, Vin R, S, T (1968-76)	442, 98, Custom Cruiser, Cutlass, Cutlass Salon, Cutlass Supreme, Cutlass Tiara, Delmont 88, Delta 88, F85, Toronado, Vista Cruiser	217

GM / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
8 Cylinder		
455 C.I., (7.5L), OHV, GAS, CARB, Vin P, R, T, U, V, W "Buick" (1970-76)	Centurion, Century, Electra, Estate Wagon, GS 455, LeSabre, Regal, Riviera, Skylark, Sportwagon, Wildcat	218
455 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, " Pontiac " (1970-76)	Bonneville, Catalina, Firebird, Grand Am, Grand LeMans, Grand Prix, Grand Safari, Grandville, GTO, LeMans	219
472 C.I., (7.7L), OHV, GAS, CARB, 16 Valve, Vin 0, 1, 8, 9, R (1968-74)	Calais, Commercial Chassis, DeVille, Eldorado, Fleetwood ...	220
500 C.I., (8.2L), OHV, GAS, CARB, FI, Vin 0, 1, S (1970-76) .	Calais, Commercial Chassis, DeVille, Eldorado, Fleetwood ...	221

1 993cc, (1.0L), SOHC, GAS, CARB, 6 Valve, Vin 5, M "G10 Suzuki" GMC1.0-M5
1985-88 L3 61 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-88	SB1562-77	1 $\frac{1}{16}$ O.D., 1.170 I.D., 0.2670 Depth
	Exh	1985-88	SB1375-64	1 $\frac{3}{8}$ O.D., 1.000 I.D., 0.2800 Depth
Valve	Int	1985-88	10103	1.417 Head Diameter
	Exh	1985-88	10102S	1.181 Head Diameter, Stellite Face
Keeper	Both	1985-88	121-1061	1 RD Bead Type
Stem Seal	Both	1985-88	122-1142	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1985-88	140-8016	0.2757 I.D., 1.895 Length, 0.4758 O.D.

2 993cc, (1.0L), SOHC, GAS, FI, 6 Valve, Vin 2 "Turbo G10 Suzuki" GMC1.0-2T
1987-88 L3 61 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-88	SB1562-77	1 $\frac{1}{16}$ O.D., 1.170 I.D., 0.2670 Depth
	Exh	1987-88	SB1375-64	1 $\frac{3}{8}$ O.D., 1.000 I.D., 0.2800 Depth
Valve	Int	1987-88	10103	1.417 Head Diameter
	Exh	1987-88	10102S	1.181 Head Diameter, Stellite Face
Keeper	Both	1987-88	121-1061	1 RD Bead Type
Stem Seal	Both	1987-88	122-1142	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1987-88	140-8016	0.2757 I.D., 1.895 Length, 0.4758 O.D.

3 993cc, (1.0L), SOHC, GAS, FI, Vin 6 "G10 Suzuki" GMC1.0-6
1989-00 L3 61 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-00	SB1500-77	1 $\frac{1}{2}$ O.D., 1.175T I.D., 0.2360 Depth
	Exh	1989-00	SB1187-52	1 $\frac{1}{16}$ O.D., 0.934T I.D., 0.2570 Depth
Valve	Int	1989-00	10169	1.378 Head Diameter
	Exh	1989-00	10170	1.102 Head Diameter
Keeper	Both	1989-00	121-1060	1 RD Bead Type
Stem Seal	Both	1989-00	122-1155	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1989-00	140-8324	0.2163 I.D., 1.260 Length, 0.4365 O.D.
Lifter	Both	1989-00	VL120	Hydraulic Bucket Type
Head Bolt Set		1989-97	220-1026	Torque To Yield, Services Engine
Head Saver Shim		1989-00	230-2030	New Hgt. - 3.7500 - 3.7550

4 1295cc, (1.3L), SOHC, GAS, FI, 8 Valve, Vin 9 "G13BA Suzuki" GMC-G13BA
1995-97 L4 79 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-97	SB1562-77	1 $\frac{1}{16}$ O.D., 1.170 I.D., 0.2670 Depth

(Cont'd) GM / PASSENGER CAR**1295cc, (1.3L), SOHC, GAS, FI, 8 Valve, Vin 9 "G13BA Suzuki"**
1995-97 L4 79 CID**GMC-G13BA 4**
BORE - 74mm/2.91" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1995-97	SB1375-64	1% O.D., 1.000 I.D., 0.2800 Depth
Valve	Int	1995-97	10103	1.417 Head Diameter
	Exh	1995-97	10102S	1.181 Head Diameter, Stellite Face
Keeper	Both	1995-97	121-1061	1 RD Bead Type, W/ .273 Stem Dia.
Stem Seal	Both	1995-97	122-1142	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1995-97	140-8016	0.2757 I.D., 1.895 Length, 0.4758 O.D.
Head Saver Shim		1995-97	230-2031	New Hgt. - 3.7500 - 3.7550; Min. Hgt. - 3.7400

1295cc, (1.3L), SOHC, GAS, FI, 16 Valve, Vin 2 "G13BB Suzuki"
1998-01 L4 79 CID**GMC-G13BB 5**
BORE - 74mm/2.91"

PART		YEARS	PART NO.	NOTES
Valve	Int	1998-01	10516	1.149 Head Diameter
	Exh	1998-01	10517	0.986 Head Diameter
Keeper	Both	1998-01	121-1060	1 RD Bead Type
Stem Seal	Both	1998-01	122-1155	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1998-01	140-8324	0.2163 I.D., 1.260 Length, 0.4365 O.D.

83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin 9, C, LUJ "Turbocharged Ecotec"

2011-12 L4 83 CID

GMC1.4-LUJ 6
BORE - 72.5mm/2.85"

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-12	13367	1.102 Head Diameter
	Exh	2011-12	13368S	0.984 Head Diameter, Stellite Face
Keeper	Both	2011-12	121-1131	3 RD Bead Type
Stem Seal	Both	2011-12	122-1468	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2011-12	140-3179	0.1966 I.D., 1.460 Length, 0.3952 O.D.
Spring	Both	2011-12	160-1646	1.665 Length
Lifter	Both	2011-12	VL570	Hydraulic Lash Adjuster Type
Rocker Components	Both	2011-12	180-1339	Roller Cam Follower
Head Saver Shim		2011-12	230-2169	New Hgt. - 4.961" - Min. Hgt. N/A

83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin B, LUV "Turbocharged Ecotec"

2012-17 L4 83 CID

GMC1.4-LUV 7
BORE - 72.5mm/2.85"

PART		YEARS	PART NO.	NOTES
Valve	Int	2012-17	13367	1.102 Head Diameter
	Exh	2012-17	13368S	0.984 Head Diameter, Stellite Face
Keeper	Both	2012-17	121-1131	3 RD Bead Type
Stem Seal	Both	2012-17	122-1468	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2012-17	140-3179	0.1966 I.D., 1.460 Length, 0.3952 O.D.
Spring	Both	2012-17	160-1646	1.665 Length
Lifter	Both	2012-17	VL570	Hydraulic Lash Adjuster Type
Rocker Components	Both	2012-17	180-1339	Roller Cam Follower
Head Saver Shim		2012-17	230-2169	New Hgt. - 4.961" - Min. Hgt. N/A

GM / PASSENGER CAR (Cont'd)

8 85 C.I., (1.4L), SOHC, GAS, CARB, 8 Valve, Vin I
1976-77 L4 85 CID

GMC1.4
BORE - 52.9mm/3.23"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1976-77	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1976-77	SB1375-1	1 ¹ / ₈ O.D., 1 ¹ / ₈ I.D., 7/32 Depth, Also Available Non-Magnetic (N) Material
Keeper	Both	1976-77	121-1021	1 RD Bead Type
Stem Seal	Both	1976-77	122-1052	Positive Type, Viton Material, Ring & Band Style
Guide	Int	1976-77	140-9584	0.3155 I.D., 1.563 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Lifter	Both	1976-77	VL109	Hydraulic Lash Adjuster Type

9 85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin M, "LE2 Ecotec"
2016-17 L4 85 CID

GMC1.4-LE2
BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-16	121-1131	3 RD Bead Type
Lifter	Both	2016-16	VL175	Hydraulic Lash Adjuster Type

10 85 C.I., (1.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 4, "LUU Ecotec"
2011-16 L4 85 CID

GMC1.4-LUU
BORE - 73.4mm/2.89"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-16	13367	1.102 Head Diameter
	Exh	2011-16	13369	0.984 Head Diameter
Keeper	Both	2011-16	121-1131	3 RD Bead Type
Stem Seal	Both	2011-16	122-1468	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2011-16	140-3179	0.1966 I.D., 1.460 Length, 0.3952 O.D.
Spring	Both	2011-16	160-1646	1.665 Length
Lifter	Both	2011-16	VL570	Hydraulic Lash Adjuster Type
Rocker Components	Both	2011-16	180-1339	Roller Cam Follower
Head Saver Shim		2011-16	230-2169	New Hgt. - 4.961" - Min. Hgt. N/A

11 85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin A, "LV7 Ecotec"
2016-17 L4 85 CID

GMC1.4-LV7
BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-16	121-1131	3 RD Bead Type
Lifter	Both	2016-16	VL175	Hydraulic Lash Adjuster Type

12 91 C.I., (1.5L), DOHC, GAS, FI, 16 Valve, Vin T, "LFV Ecotec"
2016-17 L4 91 CID

GMC1.5-LFV
BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-16	121-1131	3 RD Bead Type
Lifter	Both	2016-16	VL175	Hydraulic Lash Adjuster Type

13 91 C.I., (1.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 5, "L3A Ecotec Hybrid"
2016-17 L4 91 CID

GMC1.5-L3A
BORE - 74mm/2.90"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-16	121-1131	3 RD Bead Type
Lifter	Both	2016-16	VL175	Hydraulic Lash Adjuster Type

(Cont'd) GM / PASSENGER CAR

1471cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin 7, K "4XC1 Isuzu" GMC-4XC1 **14**
 1985-89 L4 92 CID BORE - 77mm/3.03"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1985-89	10105	1.415 Head Diameter
	Exh	1985-89	10104	1.220 Head Diameter
Keeper	Both	1985-89	121-1048	1 RD Bead Type
Stem Seal	Both	1985-89	122-1130	Positive Type,Viton Material,Metal Clad Style

1471cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin 9 "Turbo 4XC1 Isuzu" GMC-4XC1T **15**
 1986-89 L4 92 CID BORE - 77mm/3.03"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1986-89	10105	1.415 Head Diameter
Keeper	Both	1986-89	121-1048	1 RD Bead Type
Stem Seal	Both	1986-89	122-1130	Positive Type,Viton Material,Metal Clad Style

1588cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 4 "4ALC Toyota" GMC-4ALC **16**
 1985-88 L4 98 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-88	SB1500-71	1½ O.D.,1.240 I.D.,0.3170 Depth
	Exh	1985-88	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth
Valve	Int	1985-88	10107	1.417 Head Diameter
	Exh	1985-88	10106	1.220 Head Diameter
Stem Seal	Both	1985-88	122-1130	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1985-88	140-8020	0.2757 I.D.,1.690 Length,0.4550 O.D.,W/ Snap Ring
	Exh	1985-88	140-8021	0.2757 I.D.,1.930 Length,0.4550 O.D.,W/ Snap Ring
Spring	Both	1985-88	160-1055	1.760 Length
Head Saver Shim		1985-88	230-2018	New Hgt.- 3.3950 - 3.4000; Min. Hgt.- 3.3850

1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5, "4AGE Toyota" GMC-4AGE **17**
 1988-92 L4 98 CID BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-92	SB1250-54	1¼ O.D.,1.010T I.D.,0.2570 Depth
	Exh	1988-92	SB1125-51	1⅝ O.D.,0.854 I.D.,0.2370 Depth
Valve	Int	1988-92	10176	1.201 Head Diameter
	Exh	1988-92	10177	1.004 Head Diameter
Keeper	Both	1988-92	121-1058	1 RD Bead Type
Stem Seal	Both	1988-92	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1988-92	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1988-92	160-1055	1.760 Length
Lifter	Both	1988-92	VL119	Mechanical Bucket Type

1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin 6 "Korean" GMC1.6-6 **18**
 1988-93 L4 98 CID BORE - 79mm/3.11"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-93	SB1562-67	1⅞ O.D.,1.255T I.D.,0.3190 Depth
	Exh	1988-93	SB1312-56	1⅝ O.D.,1.086 I.D.,0.3050 Depth
Stem Seal	Both	1988-93	122-1073	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1988-93	140-8039	0.2771 I.D.,1.790 Length,0.4342 O.D.,+2 O/S Available
Lifter	Both	1988-93	VL109	Hydraulic Lash Adjuster Type

GM / PASSENGER CAR (Cont'd)

19 1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6, "4AFE Toyota"
1989-97 L4 98 CID

GMC-4AFE
BORE - 81mm/3.18"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-97	SB1250-54	1¼ O.D.,1.010T I.D.,0.2570 Depth
	Exh	1989-97	SB1062-50	1½ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1989-92	10314	1.181 Head Diameter,3.597 Overall Length
		1993-97	10506	1.221 Head Diameter,3.445 Overall Length
	Exh	1989-92	10315	0.967 Head Diameter,3.618 Overall Length
		1993-97	10507	0.965 Head Diameter,3.466 Overall Length
Keeper	Both	1989-97	121-1058	1 RD Bead Type
Stem Seal	Both	1989-97	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1989-97	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
Spring	Both	1989-92	160-1252	1.796 Length
		1995-97	160-1358	1.745 Length
Lifter	Both	1989-92	VL119	Mechanical Bucket Type
Head Bolt Set		1989-97	220-1035	Torque To Yield,Services Engine
Head Saver Shim		1989-92	230-2033	New Hgt.- 4.5700; Min. Hgt.- 4.5600
		1993-97	230-2097	New Hgt. - N/A; Min Hgt. - N/A

20 1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5 "4XE1W Isuzu"
1990-91 L4 98 CID

GMC-4XE1W
BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-91	SB1312-52	1⅝ O.D.,1.060T I.D.,0.2400 Depth
	Exh	1990-91	SB1187-52	1⅝ O.D.,0.934T I.D.,0.2570 Depth
Keeper	Both	1990-91	121-1074	1 RD Bead Type
Stem Seal	Both	1990-91	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-91	140-8189	0.2340 I.D.,1.651 Length,0.4353 O.D.,I.D. Must Be Reamed To Size
	Exh	1990-91	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

21 1588cc, (1.6L), SOHC, GAS, FI, 12 Valve, Vin 6 "4XE1 Isuzu"
1990-93 L4 98 CID

GMC-4XE1
BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-93	SB1187-52	1⅝ O.D.,0.934T I.D.,0.2570 Depth
	Exh	1990-93	SB1375-51	1⅝ O.D.,1.060T I.D.,0.2800 Depth
Keeper	Both	1990-93	121-1074	1 RD Bead Type
Stem Seal	Both	1990-93	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-93	140-8189	0.2340 I.D.,1.651 Length,0.4353 O.D.,I.D. Must Be Reamed To Size
	Exh	1990-93	140-8291	0.2350 I.D.,1.850 Length,0.4355 O.D.

22 98 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6, L91 "E-TEC II"
2004-08 L4 98 CID

GMC1.6-L91
BORE - 79mm/3.11"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-08	02247	1.124 Head Diameter
	Exh	2004-08	02248S	1.073 Head Diameter,Stellite Face
Keeper	Both	2004-08	121-1107	1 RD Bead Type
Stem Seal	Both	2004-08	122-1409	Positive Type,Viton Material,Top Hat Style
Guide	Both	2004-08	140-3046	0.2365 I.D.,1.575 Length,0.4355 O.D.
Spring	Both	2004-08	160-1487	1.610 Length
Lifter	Both	2004-08	VL567	Hydraulic Bucket Type

(Cont'd) **GM / PASSENGER CAR**

98 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin 6, L91 "E-TEC II" GMC1.6-L91 **22**
2004-08 L4 98 CID BORE - 79mm/3.11" (cont.)

PART	YEARS	PART NO.	NOTES
Head Saver Shim	2004-05	230-2146	New Hgt. - 5.2800 - 5.2890; Min. Hgt. - 5.2800
	2006-08	230-2161	New Hgt. - 5.2800 - 5.2890; Min. Hgt. - 5.2800

98 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin E, LXV "E-TEC II" GMC1.6-LXV **23**
2009-11 L4 98 CID BORE - 79mm/3.11"

PART	YEARS	PART NO.	NOTES
Valve	Int 2009-11	13340	1.228 Head Diameter
	Exh 2009-11	13341S	1.083 Head Diameter,Stellite Face
Keeper	Both 2009-11	121-1131	3 RD Bead Type
Stem Seal	Both 2009-11	122-1458	Positive Type,Viton Material,Top Hat Style
Spring	Both 2009-11	160-1632	1.637 Length

98 C.I., (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5, "LWC Ecotec" GMC1.6-LWC **24**
2016-17 L4 98 CID BORE - 79mm/3.11"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2016-16	121-1131	3 RD Bead Type
Lifter	Both 2016-16	VL175	Hydraulic Lash Adjuster Type

98 C.I., (1.6L), SOHC, GAS, CARB, 8 Valve, Vin 9, C, E 1.6-C9E **25**
1976-87 L4 98 CID BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1976-87	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1976-87	SB1375-1	1 $\frac{3}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,Also Available Non-Magnetic (N) Material
Keeper	Both 1976-87	121-1021	1 RD Bead Type
Stem Seal	Int 1976-87	122-1052	Positive Type,Viton Material,Ring & Band Style
	Exh 1976-87	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal
Guide	Int 1976-87	140-9584	0.3155 I.D.,1.563 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Lifter	Both 1976-87	VL109	Hydraulic Lash Adjuster Type

1788cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8 "7AFE Toyota" GMC-7AFE **26**
1993-97 L4 110 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1993-97	SB1250-54	1 $\frac{1}{4}$ O.D.,1.010T I.D.,0.2570 Depth
	Exh 1993-97	SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int 1993-97	10506	1.221 Head Diameter
	Exh 1993-97	10507	0.965 Head Diameter
Keeper	Both 1993-97	121-1058	1 RD Bead Type
Stem Seal	Both 1993-97	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1993-97	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
Spring	Both 1993-97	160-1358	1.745 Length
Head Bolt Set	1993-97	220-1035	Torque To Yield,Services Engine
Head Saver Shim	1993-97	230-2100	New Hgt.- 4.567

GM / PASSENGER CAR (Cont'd)

27 1794cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, "1ZZFE Toyota" 1.8-1ZZFE
 1998-08 L4 110 CID BORE - 79mm/3.11"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-99	10735	1.260 Head Diameter
		2000-08	10780	1.220 Head Diameter
	Exh	1998-99	10736	1.081 Head Diameter
		2000-08	10781	1.024 Head Diameter
Keeper	Both	1998-08	121-1100	1 RD Bead Type
Stem Seal	Int	1998-08	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	1998-08	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1998-08	140-8584	0.2175 I.D.,1.360 Length,0.4073 O.D.
Spring	Both	2000-08	160-1444	1.709 Length
Head Saver Shim		1998-08	230-2147	New Hgt. 4.520 - 4.527; Min. Hgt. N/A

28 1795cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin L, "2ZZGE Toyota High Output" 1.8-2ZZGE
 2003-06 L4 110 CID BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2003-06	02177	1.339 Head Diameter
	Exh	2003-06	02178S	1.142 Head Diameter,Stellite Face
Stem Seal	Both	2003-06	122-1347	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2003-06	340-1011BR	0.2165 I.D.,1.695 Length,0.4155 O.D.,Optional Bronze Guide

29 110 C.I., (1.8L), DOHC, GAS, FI, 16 Valve, Vin 1, 2H0 "Ecotec" GMC1.8-2H0
 2008-09 L4 110 CID BORE - 80.5mm/3.17"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2008-09	121-1131	3 RD Bead Type
Stem Seal	Both	2008-09	122-1458	Positive Type,Viton Material,Top Hat Style

30 110 C.I., (1.8L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin U, "LKN Ecotec Hybrid" GMC1.8-LKN
 2016-17 L4 110 CID BORE - 80.5mm/3.17"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-17	121-1131	3 RD Bead Type
Lifter	Both	2016-17	VL175	Hydraulic Lash Adjuster Type

31 110 C.I., (1.8L), DOHC, FLEX, FI, 16 Valve, Vin H, "LUW Ecotec" GMC1.8-LUW
 2011-17 L4 110 CID BORE - 80.5mm/3.17"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-17	13342	1.232 Head Diameter
	Exh	2011-17	13343	1.083 Head Diameter
Keeper	Both	2011-17	121-1131	3 RD Bead Type
Stem Seal	Both	2011-17	122-1458	Positive Type,Viton Material,Top Hat Style
Spring	Both	2011-17	160-1633	1.674 Length

32 110 C.I., (1.8L), DOHC, GAS, FI, 16 Valve, Vin G, "LWE Ecotec" GMC1.8-LWE
 2013-17 L4 110 CID BORE - 80.5mm/3.17"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-17	13342	1.232 Head Diameter
	Exh	2013-17	13343	1.083 Head Diameter
Keeper	Both	2013-17	121-1131	3 RD Bead Type
Stem Seal	Both	2013-17	122-1458	Positive Type,Viton Material,Top Hat Style
Spring	Both	2013-17	160-1633	1.674 Length

(Cont'd) GM / PASSENGER CAR

1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, LAY "2ZRF Toyota" GMC1.8-2ZRF 33
 2009-10 L4 110 CID BORE - 80.5mm/3.17"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2009-10	121-1100	1 RD Bead Type
Stem Seal	Both	2009-10	122-1266	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2009-10	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2009-10	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, "4XF1 Isuzu" GMC-4XF1 34
 1992-93 L4 110 CID BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-93	SB1312-52	1 ⁵ / ₁₆ O.D.,1.060T I.D.,0.2400 Depth
	Exh	1992-93	SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth
Keeper	Both	1992-93	121-1074	1 RD Bead Type
Stem Seal	Both	1992-93	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-93	140-8189	0.2340 I.D.,1.651 Length,0.4353 O.D.,I.D. Must Be Reamed To Size
	Exh	1992-93	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

1816cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin B "G180Z Isuzu" GMC1.8B 35
 1976-79 L4 110 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1976-79	SB1437-56	1 ⁷ / ₁₆ O.D.,1.110T I.D.,0.3150 Depth
Valve	Int	1976-79	10087	1.673 Head Diameter,Square Groove
	Exh	1976-79	10086	1.339 Head Diameter,Square Groove
Keeper	Both	1976-79	121-1047	1 SQ Bead Type
Stem Seal	Both	1976-79	122-1263	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1976-79	140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
	Exh	1976-79	140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available

1819cc, (1.8L), OHV, DIESEL, FI, 8 Valve, Vin D "4FB1 Isuzu " GMC1.8D 36
 1981-86 L4 110 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1981-86	122-1263	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1981-86	140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
	Exh	1981-86	140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available

112 C.I., (1.8L), OHV, GAS, CARB, 8 Valve, Vin G 112G 37
 1982-82 L4 112 CID BORE - 83mm/3.29"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-82	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1982-82	SB1437-2	1 ⁷ / ₁₆ O.D.,1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1982-82	121-1021	1 RD Bead Type
Stem Seal	Int	1982-82	122-1052	Positive Type,Viton Material,Ring & Band Style
	Exh	1982-82	122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal
Guide	Both	1982-82	140-9705	0.3155 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9705U)
Spring	Both	1982-82	160-1009	1.910 Length,W/ Damper
Lifter	Both	1982-82	VL37	Hydraulic Type

GM / PASSENGER CAR (Cont'd)

37 112 C.I., (1.8L), OHV, GAS, CARB, 8 Valve, Vin G 112G
 (cont.) 1982-82 L4 112 CID BORE - 83mm/3.29"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1982-82	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1982-82	183-1015	Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud
		1982-82	184-1025	Stud, 10mm, Adjustable
		1982-82	184-1032	Nut, 10mm, Adjustable

38 112 C.I., (1.8L), SOHC, GAS, FI, 8 Valve, Vin 0 "Brazil" 112-0
 1982-86 L4 112 CID BORE - 84.8mm/3.34"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-86	SB1687-54	1 ¹¹ / ₁₆ O.D., 1.450 I.D., 0.2970 Depth
		1982-86	SB1750-68	1 ³ / ₄ O.D., 1.415 I.D., 0.3160 Depth, Optional O/S O.D.
	Exh	1982-86	SB1437-62	1 ⁷ / ₁₆ O.D., 1.200 I.D., 0.2970 Depth
		1982-86	SB1500-58	1 ¹ / ₂ O.D., 1.200T I.D., 0.3150 Depth, Optional O/S O.D.
Keeper	Both	1982-86	121-1021	1 RD Bead Type
Spring	Both	1982-86	160-1064	1.935 Length
Lifter	Both	1982-86	VL109	Hydraulic Lash Adjuster Type
Rocker Components	Both	1982-86	180-1028	Cam Follower
Head Bolt Set		1982-86	220-1014	Torque To Yield, Services Engine
Head Saver Shim		1982-86	230-2020	New Hgt. - 3.7800 - 3.7900, Min. Hgt. - 3.7650

39 112 C.I., (1.8L), SOHC, GAS, FI, 8 Valve, Vin J 112J
 1984-86 L4 112 CID BORE - 84.8mm/3.34"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-86	SB1687-54	1 ¹¹ / ₁₆ O.D., 1.450 I.D., 0.2970 Depth
		1984-86	SB1750-68	1 ³ / ₄ O.D., 1.415 I.D., 0.3160 Depth, Optional O/S O.D.
	Exh	1984-86	SB1437-62	1 ⁷ / ₁₆ O.D., 1.200 I.D., 0.2970 Depth
		1984-86	SB1500-58	1 ¹ / ₂ O.D., 1.200T I.D., 0.3150 Depth, Optional I.D. & O/S O.D.
Keeper	Both	1984-86	121-1021	1 RD Bead Type
Spring	Both	1984-86	160-1064	1.935 Length
Lifter	Both	1984-86	VL109	Hydraulic Lash Adjuster Type
Rocker Components	Both	1984-86	180-1028	Cam Follower
Head Bolt Set		1984-86	220-1014	Torque To Yield, Services Engine

40 116 C.I., (1.9L), SOHC, GAS, FI, 8 Valve, Vin 8, 9 " Saturn" 1.9-8
 1991-02 L4 116 CID BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-02	SB1687-58	1 ¹¹ / ₁₆ O.D., 1.397T I.D., 0.2750 Depth
	Exh	1991-02	SB1437-69	1 ⁷ / ₁₆ O.D., 1.140T I.D., 0.2370 Depth
Valve	Int	1991-02	10522	1.575 Head Diameter
	Exh	1991-02	10523	1.339 Head Diameter
Keeper	Both	1991-02	121-1090	1 RD Bead Type
Stem Seal	Both	1991-02	122-1230	Positive Type, Viton Material, Top Hat Style
Guide	Exh	1997-98	140-8021	0.2757 I.D., 1.930 Length, 0.4550 O.D., W/ Snap Ring
	Both	1991-02	140-8292	0.2755 I.D., 2.125 Length, 0.4495 O.D., Replaces 2.520 Long Guide To Prevent Carbon Buildup. For 1997-98 Fits Int Only.
Spring	Both	1991-02	160-1382	1.900 Length, Conical
Lifter	Both	1991-02	VL123	Hydraulic Roller Type
Head Bolt Set		1991-02	220-1118	Torque To Yield, Services Engine
Head Saver Shim		1991-02	230-2116	New Hgt. - 4.444 - 4.454, Min. Hgt. 4.444

(Cont'd) GM / PASSENGER CAR**116 C.I., (1.9L), DOHC, GAS, FI, 16 Valve, Vin 7 "Saturn"**
1991-02 L4 116 CID1.9-7 **41**

BORE - 82mm/3.23"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-02	SB1375-60	1 $\frac{3}{8}$ O.D., 1.107T I.D., 0.2370 Depth
	Exh	1991-02	SB1125-53	1 $\frac{1}{8}$ O.D., 0.890T I.D., 0.2370 Depth
Valve	Int	1991-98	10520	1.272 Head Diameter, 0.2738 Stem Dia.
		1999-02	01949	1.272 Head Diameter, 0.2349 Stem Dia.
	Exh	1991-98	10521	1.081 Head Diameter, 0.2732 Stem Dia.
		1999-02	01950	1.080 Head Diameter, 0.2344 Stem Dia.
Keeper	Both	1991-98	121-1090	1 RD Bead Type, W/ 7mm Stem Dia.
		1999-02	121-1081	1 RD Bead Type, W/ 6mm Stem Dia.
Stem Seal	Both	1991-98	122-1230	Positive Type, Viton Material, Top Hat Style, W/ 7mm Stem Dia.
		1999-02	122-1331	Positive Type, Viton Material, Top Hat Style, W/ 6mm Stem Dia.
Guide	Both	1991-98	140-8293	0.2755 I.D., 1.510 Length, 0.4493 O.D., 0.2755 I.D.
		1999-02	140-3020	0.2366 I.D., 1.510 Length, 0.4493 O.D., 0.2366 I.D.
Spring	Both	1991-94	160-1360	1.630 Length, Conical
		1995-98	160-1361	1.670 Length, Conical
Lifter	Both	1991-98	VL124	Hydraulic Bucket Type
		1999-02	VL175	Hydraulic Lash Adjuster Type
Head Bolt Set		1991-02	220-1116	Torque To Yield, Services Engine
Head Saver Shim		1991-02	230-2117	New Hgt. - 4.445 - 4.453, Min. Hgt: 4.444

122 C.I., (2.0L), OHV, GAS, CARB, FI, 8 Valve, Vin B, P
1983-86 L4 122 CIDGMC122BP **42**

BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-86	SB1687-2	1 $\frac{11}{16}$ O.D., 1 $\frac{17}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1983-86	SB1437-2	1 $\frac{7}{16}$ O.D., 1 $\frac{17}{32}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1983-86	121-1021	1 RD Bead Type
Stem Seal	Int	1983-86	122-1052	Positive Type, Viton Material, Ring & Band Style
	Exh	1983-86	122-1053	Positive Type, Viton Material, Ring & Band Style, Black Color Seal
Guide	Int	1983-86	140-8114	0.3155 I.D., 2.770 Length, 0.5830 O.D., W/ .313 Stem Dia., Aluminum Heads
	Exh	1983-86	140-8115	0.3155 I.D., 2.320 Length, 0.5830 O.D., W/ .313 Stem Dia., Aluminum Heads, +2 O/S Available
	Both	1983-86	140-9705	0.3155 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Cast Iron Heads, -5 U/S I.D. Available
Spring	Both	1983-86	160-1009	1.910 Length, W/ Damper
Lifter	Both	1983-86	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1983-86	VL73	Hydraulic Type
Rocker Components	Both	1983-86	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1983-86	183-1015	Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud
		1983-86	184-1025	Stud, 10mm, Adjustable
		1983-86	184-1032	Nut, 10mm, Adjustable

122 C.I., (2.0L), OHV, GAS, FI, 8 Valve, Vin 1
1987-89 L4 122 CIDGMC122-1 **43**

BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-89	SB1812-55	1 $\frac{13}{16}$ O.D., 1 $\frac{1}{2}$ T I.D., 0.2780 Depth
	Exh	1987-89	SB1562-66	1 $\frac{9}{16}$ O.D., 1.265T I.D., 0.2800 Depth

GM / PASSENGER CAR (Cont'd)

43 122 C.I., (2.0L), OHV, GAS, FI, 8 Valve, Vin 1
(cont.) 1987-89 L4 122 CID

GMC122-1
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1987-89	01569	1.693 Head Diameter
	Exh	1987-89	01568	1.457 Head Diameter
Keeper	Both	1987-89	121-1021	1 RD Bead Type
Stem Seal	Int	1987-89	122-1052	Positive Type,Viton Material, Ring & Band Style
	Exh	1987-89	122-1053	Positive Type,Viton Material, Ring & Band Style, Black Color Seal
Guide	Int	1987-89	140-8114	0.3155 I.D., 2.770 Length, 0.5830 O.D., W/ .313 Stem Dia., Aluminum Heads
	Exh	1987-89	140-8115	0.3155 I.D., 2.320 Length, 0.5830 O.D., W/ .313 Stem Dia., Aluminum Heads, +2 O/S Available
	Both	1987-89	140-9705	0.3155 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Cast Iron Heads, -5 U/S I.D. Available
Spring	Both	1987-89	160-1086	2.059 Length
Lifter	Both	1987-89	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1987-89	VL73	Hydraulic Type
Rocker Components	Both	1987-89	181-1063	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) Nut
Push Rod	Both	1987-89	192-1484	7.700 Length
Head Saver Shim		1987-89	230-2021	New Hgt.- 5.3150 - 5.3200; Min. Hgt.- 5.3050

44 122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin M, Turbo "Brazil"
1987-90 L4 122 CID

GMC122M
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-90	SB1812-54	1 ¹³ / ₁₆ O.D., 1.405T I.D., 0.3150 Depth
	Exh	1987-90	SB1500-62	1 ¹ / ₂ O.D., 1.220T I.D., 0.3100 Depth
Valve	Int	1987-90	10117	1.692 Head Diameter, 0.030 Shorter Than OEM
	Exh	1987-90	10116	1.437 Head Diameter, 0.030 Shorter Than OEM
Stem Seal	Both	1987-90	122-1073	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1987-90	140-8039	0.2771 I.D., 1.790 Length, 0.4342 O.D., +2 O/S Available
Lifter	Both	1987-90	VL109	Hydraulic Lash Adjuster Type
Rocker Components	Both	1987-90	180-1028	Cam Follower
Head Bolt Set		1987-90	220-1014	Torque To Yield, Services Engine
Head Saver Shim		1987-90	230-2020	New Hgt.- 3.7800 - 3.7850, Min. Hgt.- 3.7650

45 122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin K "Brazil"
1987-91 L4 122 CID

GMC122K
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-91	SB1812-54	1 ¹³ / ₁₆ O.D., 1.405T I.D., 0.3150 Depth
	Exh	1987-91	SB1500-62	1 ¹ / ₂ O.D., 1.220T I.D., 0.3100 Depth
Valve	Int	1987-91	10117	1.692 Head Diameter, 0.030 Shorter Than OEM
	Exh	1987-91	10116	1.437 Head Diameter, 0.030 Shorter Than OEM
Stem Seal	Both	1987-91	122-1073	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1987-91	140-8039	0.2771 I.D., 1.790 Length, 0.4342 O.D., +2 O/S Available
Lifter	Both	1987-91	VL109	Hydraulic Lash Adjuster Type
Rocker Components	Both	1987-91	180-1028	Cam Follower
Head Bolt Set		1987-91	220-1014	Torque To Yield, Services Engine
Head Saver Shim		1987-91	230-2020	New Hgt.- 3.7800 - 3.7900; Min. Hgt.- 3.7650

(Cont'd) GM / PASSENGER CAR**122 C.I., (2.0L), SOHC, GAS, FI, 8 Valve, Vin H "Brazil"**
1992-94 L4 122 CID**GMC122H 46**
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-94	SB1812-52	1 ³ / ₁₆ O.D., 1.440T I.D., 0.3150 Depth
	Exh	1992-94	SB1500-62	1 ¹ / ₂ O.D., 1.220T I.D., 0.3100 Depth
Valve	Int	1992-94	10213	1.646 Head Diameter, 0.030 Shorter Than OEM
	Exh	1992-94	10116	1.437 Head Diameter, 0.030 Shorter Than OEM
Stem Seal	Both	1992-94	122-1073	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1992-94	140-8039	0.2771 I.D., 1.790 Length, 0.4342 O.D., +2 O/S Available
Lifter	Both	1992-94	VL109	Hydraulic Lash Adjuster Type
Rocker Components	Both	1992-94	180-1028	Cam Follower
Head Bolt Set		1992-94	220-1014	Torque To Yield, Services Engine
Head Saver Shim		1992-94	230-2020	New Hgt. - 3.7800 - 3.7850, Min. Hgt. - 3.7650

122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin Z "E-TEC II"
2004-07 L4 122 CID**GMC2.0-ETEC 47**
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-07	10784	1.260 Head Diameter
	Exh	2004-07	02040S	1.142 Head Diameter, Recommended OEM Nickel Base Inconel Material, Stellite Face
		2004-07	22040S	1.142 Head Diameter, Alternative Austenitic Material, Stellite Face
Keeper	Both	2004-07	121-1098	3 RD Bead Type
Stem Seal	Both	2004-07	122-1329	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2004-07	140-3010	0.2362 I.D., 1.773 Length, 0.3950 O.D.
	Exh	2004-07	140-3011	0.2362 I.D., 1.378 Length, 0.3950 O.D.
Spring	Both	2004-07	160-1578	1.666 Length
Head Bolt Set		2004-07	220-1124	Torque To Yield, Services Engine
Head Saver Shim		2004-07	230-2151	New Hgt. N/A; Min. Hgt. N/A

122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin P, LSJ "Supercharged Ecotec"

2004-07 L4 122 CID

GMC2.0-LSJ 48
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-07	13331	1.380 Head Diameter
	Exh	2004-07	13332SN	1.185 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2004-07	121-1098	3 RD Bead Type
Stem Seal	Both	2004-07	122-1355	Positive Type, Viton Material, Top Hat Style
Guide	Both	2004-07	140-3029	0.2365 I.D., 1.420 Length, 0.3950 O.D., NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2004-07	160-1508	1.678 Length
Lifter	Both	2004-07	VL175	Hydraulic Lash Adjuster Type

122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin M, X, LNF "Direct Injected Turbocharged Ecotec"

2007-10 L4 122 CID

GMC2.0-LNF 49
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-10	13293	1.382 Head Diameter
Keeper	Both	2007-10	121-1098	3 RD Bead Type
Stem Seal	Both	2007-10	122-1355	Positive Type, Viton Material, Top Hat Style

GM / PASSENGER CAR (Cont'd)

49 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin M, X, LNF "Direct Injected Turbocharged Ecotec" **GMC2.0-LNF**
 (cont.) 2007-10 L4 122 CID **BORE - 86mm/3.39"**

PART	YEARS	PART NO.	NOTES
Guide	Both	2007-10 140-3029	0.2365 I.D., 1.420 Length, 0.3950 O.D., NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2007-10 160-1508	1.678 Length
Lifter	Both	2007-10 VL175	Hydraulic Lash Adjuster Type

50 122 C.I., (2.0L), DOHC, FLEX, FI, 16 Valve, TURBO, Vin V, "LHU Ecotec" **GMC2.0-LHU**
 2011-16 L4 122 CID **BORE - 86mm/3.38"**

PART	YEARS	PART NO.	NOTES
Valve	Int	2011-16 13293	1.382 Head Diameter
Keeper	Both	2011-16 121-1098	3 RD Bead Type
Stem Seal	Both	2011-16 122-1355	Positive Type, Viton Material, Top Hat Style
Spring	Both	2011-16 160-1508	1.678 Length
Lifter	Both	2011-16 VL175	Hydraulic Lash Adjuster Type

51 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin X, "LTG Direct Injected Turbo Ecotec" **GMC2.0-LTG**
 2013-17 L4 122 CID **BORE - 86mm/3.38"**

PART	YEARS	PART NO.	NOTES
Keeper	Both	2013-16 121-1127	1 RD Bead Type
Stem Seal	Both	2013-16 122-1418	Positive Type, Viton Material, Top Hat Style, NOTE: Regal Only
Spring	Both	2013-16 160-1588	1.729 Length, Conical
Lifter	Both	2013-16 VL175	Hydraulic Lash Adjuster Type

52 134 C.I., (2.2L), OHV, GAS, FI, 8 Valve, Vin 4, G, LN2 **GMC134**
 1990-02 L4 133, 134 CID **BORE - 89mm/3.50"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-02 SB1812-55	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 0.2780 Depth
	Exh	1990-02 SB1562-66	1 ⁹ / ₁₆ O.D., 1.265T I.D., 0.2800 Depth
Valve	Int	1990-91 01569	1.693 Head Diameter, W/ .3136 Stem Dia., .2580 Tip To Groove
		1992-93 01705	1.732 Head Diameter, W/ .3136 Stem Dia., .189 Tip To Groove
		1994-97 01736	1.732 Head Diameter, W/ .2742 Stem Dia., 5.465 Overall Length
	Exh	1998-02 01902	1.732 Head Diameter, 0.020 Shorter than OEM., W/ .2746 Stem Dia., 5.265 Overall Length.
		1990-91 01568	1.457 Head Diameter, W/ .3132 Stem Dia., .2799 Tip To Groove
		1992-93 01704	1.457 Head Diameter, W/ .3132 Stem Dia., .210 Tip To Groove
		1994-97 01737	1.457 Head Diameter, W/ .2738 Stem Dia., 5.142 Overall Length
1998-02 01903	1.457 Head Diameter, 0.020 Shorter than OEM., W/ .2738 Stem Dia., 4.980 Overall Length.		
Keeper	Both	1990-93 121-1021	1 RD Bead Type, W/ .313 Stem Dia.
	1994-02 121-1090	1 RD Bead Type, W/ .274 Stem Dia.	
Stem Seal	Int	1990-93 122-1052	Positive Type, Viton Material, Ring & Band Style, W/ .3135 Stem Dia.
	Exh	1990-93 122-1053	Positive Type, Viton Material, Ring & Band Style, Black Color Seal, W/ .3135 Stem Dia.
	Both	1994-97 122-1236 1998-02 122-1324	Positive Type, Viton Material, Ring & Band Style Positive Type, Viton Material, Top Hat Style, W/ .274 Stem Dia.
Guide	Int	1990-93 140-8114	0.3155 I.D., 2.770 Length, 0.5830 O.D., W/ .313 Stem Dia.

(Cont'd) GM / PASSENGER CAR**134 C.I., (2.2L), OHV, GAS, FI, 8 Valve, Vin 4, G, LN2**
1990-02 L4 133, 134 CID**GMC134 52**
BORE - 89mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Int	1994-97	0.2757 I.D.,2.770 Length,0.5828 O.D.,W/ .2757 Stem Dia. 0.3155 I.D.,2.320 Length,0.5830 O.D.,W/ .313 Stem Dia., +2 O/S Available 0.2757 I.D.,2.320 Length,0.5828 O.D.,W/ .2757 Stem Dia. 0.2763 I.D.,2.289 Length,0.5110 O.D.,NOTE: Some Castings May Require The Use of a +2 O/S (140-3009+2) W/ .513 O.D. As The Standard Replacement.
	Exh	1990-93	
	Both	1994-97	
		1998-02	
Spring	Both	1990-93	2.059 Length,W/ .313 Valve Stems
		1994-97	1.960 Length,Conical
		1998-02	1.900 Length,Conical
Lifter	Both	1990-93	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1990-93	Hydraulic Type
		1994-02	Hydraulic Roller Type
Rocker Components	Both	1990-97	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) Nut
Push Rod	Both	1990-93	7.700 Length,W/ .313 Valve Stems
		1994-97	7.458 Length
		1998-02	7.515 Length
Head Bolt Set		1993-97	Torque To Yield,VIN 4, Services Engine
		1998-02	Torque To Yeild,Services Engine
Head Saver Shim		1990-97	New Hgt.- 5.3150 - 5.3200; Min. Hgt.- 5.3050
		1998-02	New Hgt.- 5.3150 - 5.3200; Min. Hgt.- 5.3050

134 C.I., (2.2L), DOHC, GAS, FI, 16 Valve, Vin D, F, "L61 Ecotec"
2000-08 L4 134 CID**GMC2.2-L61 53**
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2000-08	17/16 O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth 1 1/4 O.D.,0.965T I.D.,1/4 Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
	Exh	2000-08	
Valve	Int	2000-08	1.382 Head Diameter,Includes Flex-Fuel Applications
	Exh	2000-06	1.185 Head Diameter,Stellite Face
		2007-08	1.185 Head Diameter
Keeper	Both	2000-08	3 RD Bead Type
Stem Seal	Both	2000-08	Positive Type,Viton Material,Top Hat Style
Guide	Both	2000-08	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2000-08	1.678 Length
Lifter	Both	2000-08	Hydraulic Lash Adjuster Type
Head Bolt Set		2000-08	Torque To Yield,Services Engine
Head Saver Shim		2000-08	New Hgt. - 5.080 - 5.085,New Hgt.- 5.0800-5.0850; Min Hgt.- 5.0750

134 C.I., (2.2L), DOHC, GAS, FI, 16 Valve, Vin 5, H, LAP "Ecotec"
2009-10 L4 134 CID**GMC2.2-LAP 54**
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2009-10	17/16 O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth 1 1/4 O.D.,0.965T I.D.,1/4 Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
	Exh	2009-10	

GM / PASSENGER CAR (Cont'd)

54 134 C.I., (2.2L), DOHC, GAS, FI, 16 Valve, Vin 5, H, LAP "Ecotec" GMC2.2-LAP
 (cont.) 2009-10 L4 134 CID BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve	Int	2009-10	01997	1.382 Head Diameter
	Exh	2009-10	02010	1.185 Head Diameter
Keeper	Both	2009-10	121-1098	3 RD Bead Type
Stem Seal	Both	2009-10	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-10	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2009-10	160-1508	1.678 Length
Lifter	Both	2009-10	VL175	Hydraulic Lash Adjuster Type
Head Bolt Set		2009-10	220-1100	Torque To Yield,Services Engine

55 134 C.I., (2.2L), DOHC, FLEX, FI, 16 Valve, Vin B, W, LE8 "Ecotec" GMC2.2-LE8
 2009-11 L4 134 CID BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2009-11	SB1437-69	1 $\frac{7}{16}$ O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
	Exh	2009-11	SB1250-50	1 $\frac{1}{4}$ O.D.,0.965T I.D., $\frac{1}{4}$ Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
Valve	Int	2009-11	01997	1.382 Head Diameter
	Exh	2009-11	02010	1.185 Head Diameter
Keeper	Both	2009-11	121-1098	3 RD Bead Type
Stem Seal	Both	2009-11	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-11	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.; ID: 0.2365; OD: 0.3950; Length: 1.420; Type: 1-P
Spring	Both	2009-11	160-1508	1.678 Length
Lifter	Both	2009-11	VL175	Hydraulic Lash Adjuster Type
Head Bolt Set		2009-11	220-1100	Torque To Yield,Services Engine

56 138 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin D "Quad 4" GMC2.3D
 1988-95 L4 138 CID BORE - 92mm/3.62"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-89	SB1500-74	1 $\frac{1}{2}$ O.D.,1.180T I.D.,0.2140 Depth,W/ 1.398 Valve Head Dia.
		1990-95	SB1500-77	1 $\frac{1}{2}$ O.D.,1.175T I.D.,0.2360 Depth,W/ 1.437 Valve Head Dia.
	Exh	1988-89	SB1250-56	1 $\frac{1}{4}$ O.D.,0.905T I.D.,0.2300 Depth,W/ 1.182 Valve Head Dia.
		1990-95	SB1312-67	1 $\frac{5}{16}$ O.D.,1.042 I.D.,0.2380 Depth,W/ 1.238 Valve Head Dia.
Valve	Int	1988-89	01673	1.398 Head Diameter
		1990-95	01726	1.437 Head Diameter
	Exh	1988-89	01674	1.182 Head Diameter
		1990-95	01727	1.238 Head Diameter
Keeper	Both	1988-95	121-1072	1 RD Bead Type,Hardened
Stem Seal	Both	1988-95	122-1198	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1988-95	140-8124	0.2767 I.D.,1.740 Length,0.5140 O.D.,W/ Snap Ring
Spring	Both	1990-95	160-1112	1.710 Length,Conical
Lifter	Both	1988-94	VL116	Hydraulic Bucket Type
		1995-95	VL124	Hydraulic Bucket Type
Head Bolt Set		1988-95	220-1013	Torque To Yield,Services Engine
Head Saver Shim		1988-95	230-2022	New Hgt.- 2.9150; Min. Hgt.- 2.9050

(Cont'd) GM / PASSENGER CAR**138 C.I., (2.3L), SOHC, GAS, FI, 8 Valve, Vin 3**
1992-94 L4 138 CID138-3 **57**
BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-94	SB1500-77	1½ O.D., 1.175T I.D., 0.2360 Depth
	Exh	1992-94	SB1312-67	1⅝ O.D., 1.042 I.D., 0.2380 Depth
Valve	Int	1992-94	01726	1.437 Head Diameter
	Exh	1992-94	01727	1.238 Head Diameter
Keeper	Both	1992-94	121-1072	1 RD Bead Type, Hardened
Stem Seal	Both	1992-94	122-1198	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1992-94	140-8124	0.2767 I.D., 1.740 Length, 0.5140 O.D., W/ Snap Ring
Spring	Both	1992-94	160-1112	1.710 Length, Conical
Lifter	Both	1992-94	VL116	Hydraulic Bucket Type
Head Bolt Set		1992-94	220-1013	Torque To Yield, Services Engine
Head Saver Shim		1992-94	230-2022	New Hgt. - 2.9150; Min. Hgt. - 2.9050

140 C.I., (2.3L), DOHC, GAS, FI, 16 Valve, Vin A "Quad 4"
1989-94 L4 140 CIDGMC2.3A **58**
BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-94	SB1500-77	1½ O.D., 1.175T I.D., 0.2360 Depth
	Exh	1989-94	SB1312-67	1⅝ O.D., 1.042 I.D., 0.2380 Depth
Valve	Int	1989-94	01726	1.437 Head Diameter
	Exh	1989-94	01727	1.238 Head Diameter
Keeper	Both	1989-94	121-1072	1 RD Bead Type, Hardened
Stem Seal	Both	1989-94	122-1198	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1989-94	140-8124	0.2767 I.D., 1.740 Length, 0.5140 O.D., W/ Snap Ring
Spring	Both	1989-94	160-1112	1.710 Length, Conical
Lifter	Both	1989-94	VL116	Hydraulic Bucket Type
Head Bolt Set		1989-94	220-1013	Torque To Yield, Services Engine
Head Saver Shim		1989-94	230-2022	New Hgt. - 2.9150; Min. Hgt. - 2.9050

140 C.I., (2.3L), SOHC, GAS, CARB, Vin A, B
1971-77 L4 140 CID140AB **59**
BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1971-77	SB1750-1	1¾ O.D., 1½ I.D., ¼ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	1971-77	SB1437-1	1⅞ O.D., 1¼ I.D., ⅞ Depth
Keeper	Both	1976-77	121-1003	1 SQ Bead Type
Stem Seal	Both	1971-77	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
Spring	Both	1971-75	160-1144	2.048 Length, W/ Damper
Lifter	Both	1971-71	VL63	Mechanical High Performance Type

146 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin T
1996-02 L4 146 CIDGMC2.4T **60**
BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1996-02	SB1250-50	1¼ O.D., 0.965T I.D., ¼ Depth
Valve	Int	1996-02	01941	1.396 Head Diameter, 0.020 Shorter Than OEM., 4.207 Overall Length
	Exh	1996-02	01937	1.141 Head Diameter, 0.020 Shorter Than OEM., 4.238 Overall Length
Keeper	Both	1996-02	121-1081	1 RD Bead Type

GM / PASSENGER CAR (Cont'd)

60 146 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin T GMC2.4T
 (cont.) 1996-02 L4 146 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1996-02	122-1276	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1996-02	140-8670	0.2354 I.D.,1.654 Length,0.4350 O.D.,W/ Snap Ring
	Exh	1996-02	140-8671	0.2354 I.D.,1.654 Length,0.4350 O.D.,W/ Snap Ring
Spring	Both	1996-02	160-1338	1.800 Length,Conical,Tapered
Lifter	Both	1996-02	VL124	Hydraulic Bucket Type
Head Bolt Set		1996-02	220-1081	Torque To Yield,Services Engine
Head Saver Shim		1996-99	230-2073	ALL With EGR, NOTE: Except 1999 W/O EGR, New Hgt.- 2.275 (Front Head Bolt Boss), Min. Hgt.- 2.265

61 145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin 0, 1, B, P, "LE5 Ecotec" GMC2.4-LE5
 2006-12 L4 145 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2006-12	SB1437-69	1 ⁷ / ₁₆ O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
	Exh	2006-12	SB1250-50	1 ¹ / ₄ O.D.,0.965T I.D., ¹ / ₄ Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
Valve	Int	2006-12	01997	1.382 Head Diameter
	Exh	2006-06	02010S	1.185 Head Diameter,Stellite Face
		2007-12	02010	1.185 Head Diameter
Keeper	Both	2006-12	121-1098	3 RD Bead Type
Stem Seal	Both	2006-12	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-12	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2006-12	160-1508	1.678 Length
Lifter	Both	2006-12	VL175	Hydraulic Lash Adjuster Type
Head Saver Shim		2006-12	230-2180	New Hgt. - 5.085; Min. Hgt. - 5.075

62 145 C.I., (2.4L), DOHC, FLEX, FI, 16 Valve, Vin 0, U, V, " LE9 Ecotec" GMC2.4-LE9
 2009-12 L4 145 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2009-12	SB1437-69	1 ⁷ / ₁₆ O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth; OD: 1 ⁷ / ₁₆ ; ID: 1.140T
	Exh	2009-12	SB1250-50	1 ¹ / ₄ O.D.,0.965T I.D., ¹ / ₄ Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth; OD: 1 ¹ / ₄ ; ID: 0.965T
Valve	Int	2009-12	01997	1.382 Head Diameter,Includes Flex-Fuel Applications
	Exh	2009-12	02010	1.185 Head Diameter
Keeper	Both	2009-12	121-1098	3 RD Bead Type
Stem Seal	Both	2009-12	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-12	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2009-12	160-1508	1.678 Length
Lifter	Both	2009-12	VL175	Hydraulic Lash Adjuster Type

63 145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin C, LAF "Direct Injected Ecotec" GMC2.4-LAF
 2010-11 L4 145 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-11	13293	1.382 Head Diameter

(Cont'd) **GM / PASSENGER CAR**

145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin C, LAF "Direct Injected Ecotec"

63

2010-11 L4 145 CID

GMC2.4-LAF (cont.)
BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Valve	Exh	2010-11 02010	1.185 Head Diameter
Keeper	Both	2010-11 121-1098	3 RD Bead Type
Stem Seal	Both	2010-11 122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-11 140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.; ID: 0.2365; OD: 0.3950; Length: 1.420; Type: 1-P
Spring	Both	2010-11 160-1508	1.678 Length
Lifter	Both	2010-11 VL175	Hydraulic Lash Adjuster Type

145 C.I., (2.4L), DOHC, FLEX, FI, 16 Valve, Vin K, LEA "Direct Injected Ecotec"

64

2012-17 L4 145 CID

GMC2.4-LEA
BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2012-16 13293 2012-16 02010	1.382 Head Diameter 1.185 Head Diameter
Keeper	Both	2012-16 121-1098	3 RD Bead Type
Stem Seal	Both	2012-16 122-1355	Positive Type,Viton Material,Top Hat Style
Spring	Both	2012-16 160-1508	1.678 Length
Lifter	Both	2012-16 VL175	Hydraulic Lash Adjuster Type

145 C.I., (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 5, "LAT Hybrid Ecotec"

65

2007-09 L4 145 CID

GMC2.4-LAT
BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	2007-09 SB1437-69 2007-09 SB1250-50	1 ⁷ / ₁₆ O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth 1 ¹ / ₄ O.D.,0.965T I.D., ¹ / ₄ Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
Valve	Int Exh	2007-09 01997 2007-09 02010	1.382 Head Diameter 1.185 Head Diameter
Keeper	Both	2007-09 121-1098	3 RD Bead Type
Stem Seal	Both	2007-09 122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-09 140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide
Spring	Both	2007-09 160-1508	1.678 Length
Lifter	Both	2007-09 VL175	Hydraulic Lash Adjuster Type

145 C.I., (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin R, "LUK Ecotec"

66

2012-16 L4 145 CID

GMC2.4-LUK
BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2012-16 13293 2012-16 02010	1.382 Head Diameter 1.185 Head Diameter
Keeper	Both	2012-16 121-1098	3 RD Bead Type
Stem Seal	Both	2012-16 122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2012-16 140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.
Spring	Both	2012-16 160-1508	1.678 Length
Lifter	Both	2012-16 VL175	Hydraulic Lash Adjuster Type

GM / PASSENGER CAR (Cont'd)

67 2362cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 0, "TOYOTA 2AZFE/ GM LAX" 2.4-2AZFE
 2009-10 L4 144 CID BORE - 88.5mm/3.48"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-10	10798	1.339 Head Diameter
	Exh	2009-10	10799	1.161 Head Diameter
Keeper	Both	2009-10	121-1100	1 RD Bead Type
Stem Seal	Int	2009-10	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2009-10	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2009-10	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.
Head Saver Shim		2009-10	230-2143	New Hgt. - 5.090; Min. Hgt. - N/A

68 150 C.I., (2.5L), DOHC, FLEX, GAS, FI, 16 Valve, Vin A, "LCV Direct Injected Ecotec"
 2013-17 L4 150 CID BORE - 88mm/3.46" GMC2.5-LCV

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2013-17	121-1127	1 RD Bead Type
Stem Seal	Both	2013-17	122-1418	Positive Type,Viton Material,Top Hat Style,NOTE: ATS 2013-16, Impala 2017
Spring	Both	2013-17	160-1588	1.729 Length,Conical
Lifter	Both	2013-17	VL175	Hydraulic Lash Adjuster Type

69 151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin V 151V
 1977-80 L4 151 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1977-80	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1977-80	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1979-80	01813	1.720 Head Diameter,0.020 Shorter Than OEM, Square Groove,4.665 Overall Length
	Exh	1979-80	01814	1.500 Head Diameter,0.020 Shorter Than OEM, Square Groove,4.600 Overall Length
Keeper	Both	1977-80	121-1003	1 SQ Bead Type
Stem Seal	Both	1977-80	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1977-80	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1977-80	122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia. & Use W/ Factory Guide Boss
		1977-80	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1977-80	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1977-80	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1977-80	160-1125	2.050 Length,W/ Damper
Lifter	Both	1977-80	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1977-80	VL73	Hydraulic Type
Rocker Components	Both	1977-80	184-1038	Nut, ⁵ / ₈
Push Rod	Both	1977-78	192-1330	9.682 Length

(Cont'd) GM / PASSENGER CAR**151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin 1 "California"**
1978-79 L4 151 CID**151-1 70****BORE - 101.6mm/4.00"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1978-79	SB1812-4	1 ³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1978-79	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1978-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1978-79	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1978-79	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1978-79	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1978-79	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Both	1978-79	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1978-79	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1978-79	160-1125	2.050 Length, W/ Damper
Lifter	Both	1978-79	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1978-79	VL73	Hydraulic Type
Rocker Components	Both	1978-79	184-1038	Nut, ³ / ₈
Push Rod	Both	1978-78	192-1330	9.682 Length

151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin 9
1979-79 L4 151 CID**151-9 71****BORE - 101.6mm/4.00"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1979-79	SB1812-4	1 ³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1979-79	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1979-79	01813	1.720 Head Diameter, 0.020 Shorter Than OEM, Square Groove
	Exh	1979-79	01814	1.500 Head Diameter, 0.020 Shorter Than OEM, Square Groove
Keeper	Both	1979-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1979-79	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1979-79	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1979-79	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1979-79	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Both	1979-79	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1979-79	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1979-79	160-1125	2.050 Length, W/ Damper
Lifter	Both	1979-79	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1979-79	VL73	Hydraulic Type
Rocker Components	Both	1979-79	184-1038	Nut, ³ / ₈

GM / PASSENGER CAR (Cont'd)

72 151 C.I., (2.5L), OHV, GAS, CARB, 8 Valve, Vin 5, F, V
1980-83 L4 151 CID

151-5FV
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-83	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1980-83	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1980-83	01813	1.720 Head Diameter, 0.020 Shorter Than OEM, Square Groove
	Exh	1980-83	01814	1.500 Head Diameter, 0.020 Shorter Than OEM, Square Groove
Keeper	Both	1980-83	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-83	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1980-83	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1980-83	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1980-83	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Both	1980-83	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1980-83	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1980-83	160-1125	2.050 Length, W/ Damper
Lifter	Both	1980-83	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1980-83	VL73	Hydraulic Type
Rocker Components	Both	1980-83	181-1017	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball
Push Rod	Both	1982-83	192-1453	8.975 Length

73 151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin R "Pontiac"
1982-91 L4 151 CID

151R
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-91	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1982-91	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1982-86	01813	1.720 Head Diameter, 0.020 Shorter Than OEM, Square Groove, W/ .3421 Stem Dia.
		1987-88	01551	1.720 Head Diameter, W/ .3135 Stem Dia., Round Groove, 4.394 Overall Length, +15 O/S Stem Available
		1989-91	01592	1.720 Head Diameter, W/ .3135 Stem Dia., Round Groove, 4.591 Overall Length, +15 O/S Stem Available
	Exh	1982-86	01814	1.500 Head Diameter, 0.020 Shorter Than OEM, Square Groove, W/ .3415 Stem Dia.
		1987-88	01550	1.500 Head Diameter, W/ .3132T Stem Dia., Round Groove, 4.355 Overall Length, +15 O/S Stem Available
		1989-91	01591	1.500 Head Diameter, W/ .3133T Stem Dia., Round Groove, 4.541 Overall Length, +15 O/S Stem Available
Keeper	Both	1982-86	121-1003	1 SQ Bead Type
		1987-91	121-1021	1 RD Bead Type
Stem Seal	Both	1982-86	122-1037	Umbrella Type, Poly Material, Umbrella Style, W/ .341 Stem Dia.
		1982-86	122-1043	O-Ring Type, Nitrile Material, O-Ring Style, W/ .341 Stem Dia.
		1982-86	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss
		1982-86	122-1270	Umbrella Type, Viton Material, Umbrella Style

(Cont'd) **GM / PASSENGER CAR**

151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin R "Pontiac"
1982-91 L4 151 CID

151R **73**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1987-91	122-1077	Positive Type,Viton Material, Ring & Band Style
Guide	Both	1982-86	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1982-86	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
		1987-91	140-8040	0.3150 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1982-85	160-1125	2.050 Length,W/ Damper
		1987-88	160-1099	1.780 Length,W/ Shroud
		1989-90	160-1083	2.007 Length,W/ External Shroud
		1989-90	160-1475	2.010 Length,W/Damper,Alternative Version To 160-1083, May Require Spring Seat
Lifter	Both	1982-84	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1982-84	VL73	Hydraulic Type
		1985-91	VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1982-91	181-1017	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball
Push Rod	Both	1982-84	192-1453	8.975 Length
		1985-86	192-1462	8.383 Length,W/ Roller Lifters
		1987-91	192-1480	8.272 Length,W/ Roller Lifters
Head Bolt Set		1985-91	220-1015	Torque To Yield,Services Engine
Head Saver Shim		1982-91	230-2024	New Hgt.- 3.2500

151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin 2
1982-86 L4 151 CID

151-2 **74**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-86	SB1812-4	1 ¹ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1982-86	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1982-86	01813	1.720 Head Diameter,0.020 Shorter Than OEM, Square Groove
	Exh	1982-86	01814	1.500 Head Diameter,0.020 Shorter Than OEM, Square Groove
Keeper	Both	1982-86	121-1003	1 SQ Bead Type
Stem Seal	Both	1982-86	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1982-86	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1982-86	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1982-86	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1982-86	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1982-86	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1982-86	160-1125	2.050 Length,W/ Damper
Lifter	Both	1982-84	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.

GM / PASSENGER CAR (Cont'd)

74 151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin 2 151-2
 (cont.) 1982-86 L4 151 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1982-84	VL73	Hydraulic Type Hydraulic Roller Type, Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
		1985-86	VL115	
Rocker Components	Both	1982-86	181-1017	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball
Push Rod	Both	1982-84	192-1453	8.975 Length 8.383 Length, W/ Roller Lifters
		1985-86	192-1462	
Head Bolt Set		1985-86	220-1015	Torque To Yield, Services Engine

75 151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin U 151U
 1985-91 L4 151 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-91	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 ¹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1985-91	SB1562-1	
Valve	Int	1985-86	01813	1.720 Head Diameter, 0.020 Shorter Than OEM, Square Groove, W/ .3421 Stem Dia. 1.720 Head Diameter, W/ .3135 Stem Dia. Round Groove, 4.394 Overall Length, +15 O/S Stem Available 1.720 Head Diameter, W/ .3135 Stem Dia. Round Groove, 4.591 Overall Length, +15 O/S Stem Available
		1987-88	01551	
		1989-91	01592	
	Exh	1985-86	01814	1.500 Head Diameter, 0.020 Shorter Than OEM, Square Groove, W/ .3415 Stem Dia. 1.500 Head Diameter, W/ .3132T Stem Dia., Round Groove, 4.355 Overall Length, +15 O/S Stem Available 1.500 Head Diameter, W/ .3133T Stem Dia. Round Groove, 4.541 Overall Length, +15 O/S Stem Available
		1987-88	01550	
		1989-91	01591	
Keeper	Both	1985-86	121-1003	1 SQ Bead Type 1 RD Bead Type
		1987-91	121-1021	
Stem Seal	Both	1985-86	122-1037	Umbrella Type, Poly Material, Umbrella Style, W/ .341 Stem Dia. O-Ring Type, Nitrile Material, O-Ring Style, W/ .341 Stem Dia. Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss Umbrella Type, Viton Material, Umbrella Style Positive Type, Viton Material, Ring & Band Style
		1985-86	122-1043	
		1985-86	122-1048	
		1985-86	122-1270	
		1987-91	122-1077	
Guide	Both	1985-86	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2), +2 O/S & -5 U/S I.D. Available 0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U) 0.3150 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
		1985-86	140-9607	
		1987-91	140-8040	
Spring	Both	1985-86	160-1125	2.050 Length, W/ Damper 1.780 Length, W/ Shroud 2.007 Length, W/ External Shroud 2.010 Length, W/ Damper, Alternative Version To 160-1083, May Require Spring Seat
		1987-88	160-1099	
		1989-90	160-1083	
		1989-90	160-1475	

(Cont'd) GM / PASSENGER CAR**151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin U**
1985-91 L4 151 CID**151U 75**
BORE - 101.6mm/4.00" (cont.)

PART		YEARS	PART NO.	NOTES
Lifter	Both	1985-91	VL115	Hydraulic Roller Type, Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1985-91	181-1017	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball
Push Rod	Both	1985-86 1987-91	192-1462 192-1480	8.383 Length, W/ Roller Lifters 8.272 Length, W/ Roller Lifters

153 C.I., (2.5L), OHV, GAS, CARB, 8 Valve
1962-70 L4 153 CID**GMC153 76**
BORE - 98.4mm/3.88"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1962-70 1962-70	SB1812-3 SB1562-2	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int Exh	1962-70 1962-70 1962-70 1962-70 1962-70	00399 01193 00400 01192 01206S	1.720 Head Diameter, +15 O/S Stem Available 1.720 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available 1.500 Head Diameter, +3 & +15 O/S Stem Available 1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available 1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1962-70	121-1003	1 SQ Bead Type
Stem Seal	Both	1962-70 1962-70 1962-70 1962-70 1962-70	122-1037 122-1043 122-1048 122-1238 122-1270	Umbrella Type, Poly Material, Umbrella Style O-Ring Type, Nitrile Material, O-Ring Style Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems Umbrella Type, Viton Material, Umbrella Style
Guide	Int Exh	1962-70 1962-70 1962-70 1962-70	140-5607 140-9607 140-5606 140-9606	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U) 0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1962-63 1963-70	160-1117 160-1125	2.030 Length, 1st Design 2.050 Length, W/ Damper, 2nd Design
Rotator	Exh	1962-70	161-1012	
Lifter	Both	1962-70	VL63	Mechanical High Performance Type
Rocker Components	Both	1962-70 1962-70 1962-70	181-1012 183-1024 184-1038	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut Smooth Ball, ³ / ₈ Nut, ³ / ₈
Push Rod	Both	1962-70	192-1330	9.682 Length

GM / PASSENGER CAR (Cont'd)

77 153 C.I., (2.5L), DOHC, GAS, FI, 16 Valve, Vin L, "LKW Direct Injected Ecotec W/IVLC"
2014-15 L4 153 CID

GMC2.5-LKW
BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-15 121-1127	1 RD Bead Type
Stem Seal	Both	2014-15 122-1418	Positive Type,Viton Material,Top Hat Style,NOTE: Impala
Spring	Both	2014-15 160-1588	1.729 Length,Conical

78 173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin 1, 7, X, Z
1980-84 V6 173 CID

173XZ71
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-84 SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia., Cast Iron Cylinder Head
		1980-84 SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.718 Valve Head Dia., Cast Iron Cylinder Head
	Exh	1980-84 SB1437-4	1 ⁷ / ₁₆ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,W/ 1.307 Valve Head Dia., Cast Iron Cylinder Head
		1980-84 SB1500-1	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.425 Valve Head Dia., Cast Iron Cylinder Head
Valve	Int	1980-84 01395	1.600 Head Diameter,Except H.O.
		1980-84 01481	1.718 Head Diameter,H.O., +15 O/S Stem Available
	Exh	1980-84 01394	1.307 Head Diameter,Except H.O.
		1980-84 01480	1.425 Head Diameter,H.O., +15 O/S Stem Available
Keeper	Both	1980-84 121-1003	1 SQ Bead Type
Stem Seal	Both	1980-84 122-1037	Umbrella Type,Poly Material,Umbrella Style
		1980-84 122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1980-84 122-1047	Positive Type,Poly Material,2-Ring Style
		1980-84 122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1980-84 140-9560	0.3440 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1980-80 160-1009	1.910 Length,W/ Damper
Rotator	Exh	1983-84 161-1012	
Lifter	Both	1980-84 VL94	Hydraulic Type
Rocker Components	Both	1980-84 181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1980-84 183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1980-84 184-1025	Stud, 10mm,Adjustable
		1980-84 184-1032	Nut, 10mm,Adjustable
Push Rod	Both	1980-84 192-1444	6.162 Length
Head Bolt Set		1980-84 220-1019	Torque To Yield,Services Engine
Head Saver Shim		1980-84 230-2025	New Hgt.- 3.5805 - 3.5950; Min. Hgt.- 3.5750, 2 Required

79 173 C.I., (2.8L), OHV, GAS, FI, 12 Valve, Vin S, W
1985-89 V6 173 CID

173SW
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1985-86 SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia., Cast Iron Cylinder Head
		1985-89 SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.718 Valve Head Dia., Cast Iron Cylinder Head
	1987-89 SB1750-65	1 ³ / ₄ O.D.,1.468 I.D.,0.2760 Depth,Aluminum Cylinder Head	

(Cont'd) **GM / PASSENGER CAR**

173 C.I., (2.8L), OHV, GAS, FI, 12 Valve, Vin S, W
1985-89 V6 173 CID

173SW 79
BORE - 89mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh 1985-86	SB1437-4	1 ⁷ / ₁₆ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, W/ 1.307 Valve Head Dia., Cast Iron Heads,	
	1985-89	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.425 Valve Head Dia., Cast Iron Heads	
	1987-89	SB1500-73	1 ¹ / ₂ O.D., 1.230 I.D., 0.2780 Depth, Also Available In Non-Magnetic (N) Material, Aluminum Cylinder Head	
Valve	Int	1985-86	01395	1.600 Head Diameter, Except H.O., 0.341 Stem Dia.
		1985-89	01481	1.718 Head Diameter, H.O., 0.3412 Stem Dia., +15 O/S Stem Available
		1987-89	02057	1.718 Head Diameter, 0.020 Shorter Than OEM, W/ .3140 Stem Dia., Aluminum Head, Exc. H.O.
	Exh	1985-86	01394	1.307 Head Diameter, Except H.O., 0.341 Stem Dia.
		1985-89	01480	1.425 Head Diameter, H.O., W/ .3413 Stem Dia., +15 O/S Stem Available
		1987-89	02058	1.425 Head Diameter, 0.020 Shorter Than OEM, W/ .3136 Stem Dia., Aluminum Head, Exc. H.O.
Keeper	Both	1985-89	121-1003	1 SQ Bead Type, W/ .341 Stem Dia.
		1987-89	121-1021	1 RD Bead Type
Stem Seal	Both	1985-87	122-1037	Umbrella Type, Poly Material, Umbrella Style, W/ .341 Stem Dia.
		1985-87	122-1043	O-Ring Type, Nitrile Material, O-Ring Style, W/ .341 Stem Dia.
		1985-87	122-1047	Positive Type, Poly Material, 2-Ring Style, 0.341 Stem Dia.
		1985-87	122-1270	Umbrella Type, Viton Material, Umbrella Style
		1985-89	122-1069	Positive Type, Viton Material, Ring & Band Style, W/ .314 Stem Dia.
Guide	Both	1985-89	140-9560	0.3440 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Cast Iron Head
		1987-89	140-8112	0.3155 I.D., 2.085 Length, 0.5530 O.D., W/ Snap Ring, Aluminum Head, +2 O/S Available
Spring	Both	1987-89	160-1076	2.110 Length
Rotator	Exh	1985-89	161-1012	
Lifter	Both	1985-89	VL94	Hydraulic Type
Rocker Components	Both	1985-86	184-1025	Stud, 10mm, Adjustable
		1985-86	184-1032	Nut, 10mm, Adjustable
		1985-89	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1985-89	183-1015	Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud Nut, 8mm, Non-Adjustable
		1987-89	184-1033	
Push Rod	Int	1987-89	192-1481	6.043 Length, Alum. Cyl. Head & MFI
	Exh	1987-89	192-1482	6.390 Length, - 40 U/S (192-1482U40) Available, Alum. Cyl. Head & MFI
	Both	1985-89	192-1444	6.162 Length
Head Bolt Set	1985-89	220-1019	Torque To Yield, VIN S Only, Iron Cyl. Head, Services Engine	
	1987-89	220-1085	Torque To Yield, VIN W Only, Aluminum Cyl. Head, Services Engine	
Head Saver Shim	1985-89	230-2025	New Hgt. - 3.5805 - 3.5950; Min. Hgt. - 3.5750, 2 Required	

170 C.I., (2.8L), DOHC, GAS, FI, 24 Valve, Vin T "LP1"
2005-07 V6 170 CID

GMC2.8-LP1 80
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-07	13211	1.384 Head Diameter
	Exh	2005-07	13082	1.205 Head Diameter
Keeper	Both	2005-07	121-1127	1 RD Bead Type

GM / PASSENGER CAR (Cont'd)

80 170 C.I., (2.8L), DOHC, GAS, FI, 24 Valve, Vin T "LP1" GMC2.8-LP1
 (cont.) 2005-07 V6 170 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	2005-07	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-07	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2005-07	160-1588	1.729 Length,Conical
Lifter	Both	2005-07	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2005-07	180-1323	Cam Follower

81 181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin R GMC181R
 1997-05 V6 181 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1997-05	SB1375E-1	1.375 O.D.,1.100T I.D.,0.2270 Depth,OEM Replacement, + .010 Oversize Available,Note: Seat May Need To Be Machined To Achieve Correct Depth, Must Use Adjustable Cutter
	Exh	1997-05	SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth,Note: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1997-05	10784	1.260 Head Diameter
	Exh	1997-05	02040S	1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face,Replaces Early Style Sodium Valve.
		1997-05	22040S	1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	1997-05	121-1098	3 RD Bead Type
Stem Seal	Both	1997-05	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1997-05	140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	1997-05	140-3011	0.2362 I.D.,1.378 Length,0.3950 O.D.
Spring	Both	1997-05	160-1578	1.666 Length
Lifter	Both	1997-01	VL571	Hydraulic Bucket Type
Head Bolt Set		1997-05	220-1092	Torque To Yield,2 Required
Head Saver Shim		1997-05	230-2173	New Hgt. - 5.272 - 5.280; Min Hgt. - 5.272

82 181 C.I., (3.0L), OHV, GAS, CARB, 12 Valve, Vin E 181E
 1982-84 V6 181 CID BORE - 96.5mm/3.80"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-84	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1982-84	SB1562-2	1 ¹³ / ₁₆ O.D.,1 ¹⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1982-84	01388	1.710 Head Diameter,Square Groove,0.3407 Stem, 4.713 Overall Length
	Exh	1982-84	01387	1.500 Head Diameter,W/ Seal Groove
		1982-84	01389	1.500 Head Diameter,Square Groove,0.3408 Stem, 4.718 Overall Length, W/O Seal Groove
Keeper	Both	1982-84	121-1003	1 SQ Bead Type
Stem Seal	Both	1982-84	122-1075	Positive Type,Viton Material,Ring & Band Style
Guide	Int	1982-84	140-7459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1982-84	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1982-84	140-5604	0.3440 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide,+2 O/S Available
		1982-84	140-9604	0.3440 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

(Cont'd) GM / PASSENGER CAR**181 C.I., (3.0L), OHV, GAS, CARB, 12 Valve, Vin E**
1982-84 V6 181 CID181E **82**
BORE - 96.5mm/3.80" (cont.)

PART	YEARS	PART NO.	NOTES
Spring	Both 1982-84	160-1076	2.110 Length
Lifter	Both 1982-84 1982-84	VL117RH VL73	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train. Hydraulic Type
Rocker Components	Both 1982-84 1982-84 1982-84	180-1040 180-1041 187-1014	Rocker Arm, Stamped Steel,R.H. Rocker Arm, Stamped Steel,L.H. Retainer
Push Rod	Both 1982-84	190-1433	8.686 Length,Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available

181 C.I., (3.0L), OHV, GAS, FI, 12 Valve, Vin L
1985-88 V6 181 CID181L **83**
BORE - 96.5mm/3.80"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1985-88 Exh 1985-88	SB1812-3 SB1562-9	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int 1985-88 Exh 1985-88 1985-88	01388 01387 01389	1.710 Head Diameter,Square Groove,0.3407 Stem, 4.713 Overall Length 1.500 Head Diameter,W/ Seal Groove 1.500 Head Diameter,Square Groove,0.3408 Stem, 4.718 Overall Length, W/O Seal Groove
Keeper	Both 1985-88	121-1003	1 SQ Bead Type
Stem Seal	Int 1988-88 Exh 1988-88 Both 1985-87	122-1217 122-1218 122-1075	Positive Type,Viton Material,Ring & Band Style Positive Type,Viton Material,Ring & Band Style Positive Type,Viton Material,Ring & Band Style
Guide	Int 1985-88 1985-88 Exh 1985-88 1985-88	140-7459 140-9459 140-5604 140-9604	0.3430 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide 0.3440 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide,+2 O/S Available 0.3440 I.D.,2.625 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both 1985-86	160-1076	2.110 Length
Lifter	Both 1985-88 1985-88	VL117RH VL73	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train. Hydraulic Type
Rocker Components	Both 1985-88	183-1014	Fulcrum, Short
Push Rod	Both 1985-88	190-1467	7.260 Length,W/ MFI

182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin G, Y, LF1
2010-11 V6 182 CIDGMC3.0-LF1 **84**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int 2010-11 Exh 2010-11	13211 13212	1.384 Head Diameter 1.205 Head Diameter
Keeper	Both 2010-11	121-1127	1 RD Bead Type
Stem Seal	Both 2010-11	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both 2010-11	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both 2010-11	160-1588	1.729 Length,Conical
Lifter	Both 2010-11	VL175	Hydraulic Lash Adjuster Type

GM / PASSENGER CAR (Cont'd)

84 182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin G, Y, LF1 GMC3.0-LF1
 (cont.) 2010-11 V6 182 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Rocker Components	Both	2010-11 180-1323	Cam Follower

85 182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin 5, LFW GMC3.0-LFW
 2012-14 V6 182 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int	2012-14 13211	1.384 Head Diameter
	Exh	2012-14 13212	1.205 Head Diameter
Keeper	Both	2012-14 121-1127	1 RD Bead Type
Stem Seal	Both	2012-14 122-1418	Positive Type,Viton Material,Top Hat Style
Spring	Both	2012-12 160-1579	1.760 Length,Conical
		2013-14 160-1588	1.729 Length,Conical
Lifter	Both	2012-14 VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2012-14 180-1323	Cam Follower

86 182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin 6, LGW "Turbo" GMC3.0-LGW
 2016-17 V6 182 CID BORE - 86mm/3.38"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2016-16 121-1098	3 RD Bead Type
Lifter	Both	2016-16 VL175	Hydraulic Lash Adjuster Type

87 189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin V "Turbo" 189V
 1989-90 V6 189 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-90 SB1750-65	1¼ O.D.,1.468 I.D.,0.2760 Depth,Aluminum Cylinder Head
		1989-90 SB1812-4	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Cast Iron Cylinder Head
	Exh	1989-90 SB1500-1	1½ O.D.,1¼ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1989-90 SB1500-73	1½ O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material,Aluminum Cylinder Head
Valve	Int	1989-90 02057	1.718 Head Diameter,0.020 Shorter Than OEM,Aluminum Head
	Exh	1989-90 02058	1.425 Head Diameter,0.020 Shorter Than OEM,Aluminum Head
Keeper	Both	1989-90 121-1021	1 RD Bead Type
Stem Seal	Both	1989-90 122-1069	Positive Type,Viton Material, Ring & Band Style
Guide	Both	1989-90 140-8112	0.3155 I.D.,2.085 Length,0.5530 O.D.,W/ Snap Ring,Aluminum Head, +2 O/S Available
Spring	Both	1989-90 160-1076	2.110 Length
Lifter	Both	1989-90 VL94	Hydraulic Type
Rocker Components	Both	1989-90 181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1989-90 183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1989-90 184-1025	Stud, 10mm,Adjustable
		1989-90 184-1032	Nut, 10mm,Adjustable
		1989-90 184-1033	Nut, 8mm,Non-Adjustable
Push Rod	Int	1989-90 192-1481	6.043 Length
	Exh	1989-90 192-1482	6.390 Length,- 40 U/S (192-1482U40) Available

(Cont'd) **GM / PASSENGER CAR**

189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin T
1988-94 V6 189 CID

189T **88**
BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-94	SB1750-65	1¼ O.D., 1.468 I.D., 0.2760 Depth, Aluminum Cylinder Head 1½ O.D., 1.230 I.D., 0.2780 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Cast Iron Cylinder Head
		1988-94	SB1812-4	
	Exh	1988-94	SB1500-1	
		1988-94	SB1500-73	
Valve	Int	1988-94	01481	1.718 Head Diameter, W/ .3412 Stem Dia., Cast Iron Head, +15 O/S Stem Available 1.718 Head Diameter, 0.020 Shorter Than OEM, W/ .3140 Stem Dia., Aluminum Head 1.425 Head Diameter, W/ .3413 Stem Dia., Cast Iron Head, +15 O/S Stem Available 1.425 Head Diameter, 0.020 Shorter Than OEM, W/ .3136 Stem Dia., Aluminum Head
		1988-94	02057	
	Exh	1988-94	01480	
		1988-94	02058	
Keeper	Both	1988-94	121-1003	1 SQ Bead Type, W/ 1½" Stem Dia. 1 RD Bead Type, W/ 5/16" Stem Dia.
		1988-94	121-1021	
Stem Seal	Both	1988-94	122-1037	Umbrella Type, Poly Material, Umbrella Style O-Ring Type, Nitrile Material, O-Ring Style Positive Type, Viton Material, Ring & Band Style, W/ .314 Stem Dia. Umbrella Type, Viton Material, Umbrella Style
		1988-94	122-1043	
		1988-94	122-1069	
		1988-94	122-1270	
Guide	Both	1988-94	140-8112	0.3155 I.D., 2.085 Length, 0.5530 O.D., W/ Snap Ring, Aluminum Head, +2 O/S Available 0.3440 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Cast Iron Head
		1988-94	140-9560	
Spring	Both	1988-94	160-1076	2.110 Length, Exc. 1990-92 Camaro & Firebird
Lifter	Both	1988-94	VL94	Hydraulic Type
Rocker Components	Both	1988-94	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut, Adjustable Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud Stud, 10mm, Adjustable Nut, 10mm, Adjustable Nut, 8mm, Non-Adjustable
		1988-94	183-1015	
		1988-94	184-1025	
		1988-94	184-1032	
		1988-94	184-1033	
Push Rod	Int	1988-94	192-1481	6.043 Length, Alum. Cyl. Head & MFI 6.390 Length, - 40 U/S (192-1482U40) Available, Alum. Cyl. Head & MFI 6.162 Length
	Exh	1988-94	192-1482	
	Both	1988-94	192-1444	
Head Bolt Set		1988-94	220-1085	Torque To Yield, "FWD", Services Engine
		1990-92	220-1019	Torque To Yield, "RWD" Camaro & Firebird, Services Engine
Head Saver Shim		1988-94	230-2025	New Hgt. - 3.5850 - 3.5950; Min. Hgt. - 3.5750, 2 Required

189 C.I., (3.1L), OHV, FLEX, FI, 12 Valve, Vin W
1993-93 V6 189 CID

189W **89**
BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-93	SB1750-65	1¼ O.D., 1.468 I.D., 0.2760 Depth, Aluminum Cylinder Head 1½ O.D., 1.230 I.D., 0.2780 Depth, Also Available In Non-Magnetic (N) Material, Aluminum Cylinder Head
	Exh	1993-93	SB1500-73	
Valve	Int	1993-93	02057	1.718 Head Diameter, 0.020 Shorter Than OEM 1.425 Head Diameter, 0.020 Shorter Than OEM
	Exh	1993-93	02058	
Keeper	Both	1993-93	121-1021	1 RD Bead Type

GM / PASSENGER CAR (Cont'd)

89 189 C.I., (3.1L), OHV, FLEX, FI, 12 Valve, Vin W 189W
 (cont.) 1993-93 V6 189 CID BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1993-93	122-1069	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1993-93	140-8112	0.3155 I.D.,2.085 Length,0.5530 O.D.,W/ Snap Ring,Aluminum Head, +2 O/S Available
Spring	Both	1993-93	160-1076	2.110 Length
Lifter	Both	1993-93	VL94	Hydraulic Type
Rocker Components	Both	1993-93	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1993-93	183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1993-93	184-1025	Stud, 10mm,Adjustable
		1993-93	184-1032	Nut, 10mm,Adjustable
		1993-93	184-1033	Nut, 8mm,Non-Adjustable
Push Rod	Int	1993-93	192-1481	6.043 Length,Alum. Cyl. Head & MFI
	Exh	1993-93	192-1482	6.390 Length,- 40 U/S (192-1482U40) Available,Alum. Cyl. Head & MFI
Head Saver Shim		1993-93	230-2025	New Hgt.- 3.5850 - 3.5950; Min. Hgt.- 3.5750, 2 Required

90 189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin M "Aluminum Castings" 189M
 1993-99 V6 189 CID BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-99	SB1750-65	1¼ O.D.,1.468 I.D.,0.2760 Depth
	Exh	1993-99	SB1500-73	1½ O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1993-99	01810	1.718 Head Diameter
	Exh	1993-99	01811	1.425 Head Diameter,W/ .3132 Stem Dia.
Keeper	Both	1993-99	121-1085	1 RD Bead Type
Stem Seal	Both	1993-99	122-1314	Positive Type,Viton Material,Top Hat Style
Guide	Both	1993-99	140-8112	0.3155 I.D.,2.085 Length,0.5530 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1993-99	160-1363	1.940 Length,Conical
Lifter	Both	1993-99	VL138	Hydraulic Roller Type
Rocker Components	Both	1993-99	183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1993-99	184-1033	Nut, 8mm,Non-Adjustable
Push Rod	Int	1993-99	190-1534	5.750 Length,Hardened
	Exh	1993-99	190-1535	6.074 Length,Hardened
Head Bolt Set		1993-95	220-1031	Torque To Yield,W/ Tapped Bolt, Services Engine
		1993-99	220-1085	Torque To Yield,Services Engine
Head Saver Shim		1993-99	230-2025	New Hgt. - 3.5850 - 3.5950; Min Hgt. - 3.575, 2 Required

91 189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin J 189J
 2000-05 V6 189 CID BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2000-05	SB1812-55	1 ¹³ / ₁₆ O.D.,1½T I.D.,0.2780 Depth,Aluminum Head
	Exh	2000-05	SB1500-73	1½ O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material,Aluminum Head
Valve	Int	2000-05	01929	1.760 Head Diameter
	Exh	2000-05	01811	1.425 Head Diameter
Keeper	Both	2000-05	121-1085	1 RD Bead Type
Stem Seal	Both	2000-05	122-1336	Positive Type,Viton Material,Top Hat Style
Guide	Both	2000-05	140-3067	0.3155 I.D.,2.085 Length,0.5525 O.D.,+2 O/S Also Available

(Cont'd) GM / PASSENGER CAR**189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin J**
2000-05 V6 189 CID189J **91**
BORE - 89mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES	
Spring	Both	2000-05	160-1363	1.940 Length,Conical
Lifter	Both	2000-05	VL138	Hydraulic Roller Type
Rocker Components	Both	2003-05	180-1329	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2000-05	190-1534	5.750 Length,Hardened
	Exh	2000-05	190-1535	6.074 Length,Hardened
Head Bolt Set		2000-05	220-1085	Torque To Yield,Services Engine
Head Saver Shim		2000-05	230-2025	New Hgt. - 3.5850 - 3.5950; Min. Hgt. - 3.5750, 2 Required

194 C.I., (3.2L), OHV, GAS, CARB, 12 Valve
1962-67 L6 194 CIDGMC194 **92**
BORE - 90.5mm/3.56"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1962-67	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1962-67	SB1562-2	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1962-67	00399	1.720 Head Diameter, +15 O/S Stem Available
		1962-67	01193	1.720 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1962-67	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		1962-67	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1962-67	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1962-67	121-1003	1 SQ Bead Type
Stem Seal	Both	1962-67	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1962-67	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1962-67	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1962-67	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1962-67	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1962-67	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1962-67	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1962-67	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1962-64	160-1125	2.050 Length, W/ Damper
		1965-67	160-1148	1.900 Length
Lifter	Both	1962-67	VL37	Hydraulic Type
Rocker Components	Both	1962-67	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1962-67	183-1024	Smooth Ball, ³ / ₈
		1962-67	184-1038	Nut, ³ / ₈
Push Rod	Both	1962-67	192-1330	9.682 Length

GM / PASSENGER CAR (Cont'd)

93 196 C.I., (3.2L), OHV, GAS, CARB, 12 Valve, Vin C "Buick"
1978-79 V6 196 CID

196C
BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-78	SB1750-1	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material, W/ 1.625 Valve Head Dia.
		1979-79	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth, W/ 1.710 Valve Head Dia.
	Exh	1978-78	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.425 Valve Head Dia.
		1979-79	SB1562-2	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ T I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.500 Valve Head Dia.
Valve	Int	1979-79	01388	1.710 Head Diameter, Square Groove
		1979-79	01387	1.500 Head Diameter, W/ Seal Groove
	Exh	1979-79	01389	1.500 Head Diameter, Square Groove, W/O Seal Groove
Keeper	Both	1978-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1978-79	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1978-79	122-1040	Positive Type, Poly Material, 2-Ring Style
		1978-79	122-1048	Positive Type, Poly Material, 2-Ring Style
		1978-79	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1978-79	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1978-79	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1978-79	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1978-79	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
Lifter	Both	1978-79	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1978-79	VL73	Hydraulic Type
Rocker Components	Both	1978-79	180-1040	Rocker Arm, Stamped Steel, R.H.
		1978-79	180-1041	Rocker Arm, Stamped Steel, L.H.
		1978-79	187-1014	Retainer
Push Rod	Both	1978-79	190-1433	8.686 Length, Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available

94 197 C.I., (3.2L), DOHC, GAS, FI, 24 Valve, Vin N, LA3
2003-04 V6 197 CID

GMC3.2-LA3
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2003-04	10784	1.260 Head Diameter
		2003-04	02040S	1.142 Head Diameter, Recommended OEM Nickel Base Inconel Material, Stellite Face
	Exh	2003-04	22040S	1.142 Head Diameter, Alternative Austenitic Material, Stellite Face
Keeper	Both	2003-04	121-1098	3 RD Bead Type
Stem Seal	Both	2003-04	122-1329	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2003-04	140-3010	0.2362 I.D., 1.773 Length, 0.3950 O.D.
	Exh	2003-04	140-3011	0.2362 I.D., 1.378 Length, 0.3950 O.D.
Spring	Both	2003-04	160-1578	1.666 Length
Lifter	Both	2003-04	VL571	Hydraulic Bucket Type

(Cont'd) GM / PASSENGER CAR**200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin M**
1978-79 V6 200 CID**200M 95**
BORE - 88.9mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1978-79	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1978-79	SB1437-2	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1978-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1978-79	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1978-79	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1978-79	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1978-79	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1978-79	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1978-79	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1978-79	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
Spring	Both	1978-79	160-1144	2.048 Length, W/ Damper
		1978-79	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1978-79	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh	1978-79	161-1012	
Lifter	Both	1978-79	VL37	Hydraulic Type
Rocker Components	Both	1978-79	180-1283	Rocker Arm, Rail Type, Optional
		1978-79	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1978-79	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut, Optional
		1978-79	183-1017	Smooth Ball, ³ / ₈
		1978-79	183-1032	Grooved Ball, ³ / ₈
1978-79	184-1038	Nut, ³ / ₈		
Push Rod	Both	1978-79	192-1331	7.798 Length

204 C.I., (3.3L), OHV, GAS, FI, 12 Valve, Vin N
1989-93 V6 204 CID**204N 96**
BORE - 92mm/3.70"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-93	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.710 Valve Head Dia.
	Exh	1989-93 1989-93	SB1562-42 SB1562-9	1 ⁹ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Optional 1 ¹ / ₁₆ x 1 ¹ / ₈ Tapered I.D. 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1989-93	01711	1.710 Head Diameter, Square Groove
	Exh	1989-93	01710	1.490 Head Diameter, Square Groove
Keeper	Both	1989-93	121-1003	1 SQ Bead Type
Stem Seal	Both	1989-93	122-1075	Positive Type, Viton Material, Ring & Band Style
Guide	Both	1989-93	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1989-93	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both	1989-93	160-1085	1.981 Length, W/O Damper

GM / PASSENGER CAR (Cont'd)

96 204 C.I., (3.3L), OHV, GAS, FI, 12 Valve, Vin N 204N
 (cont.) 1989-93 V6 204 CID BORE - 92mm/3.70"

PART	YEARS	PART NO.	NOTES
Lifter	Both	1989-93 VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Push Rod	Both	1989-93 190-1532	6.721 Length
Head Bolt Set	1989-93	220-1024	Torque To Yield,Services Engine

97 207 C.I., (3.4L), DOHC, GAS, FI, 24 Valve, Vin X 207X
 1991-97 V6 207 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-97 SB1500-73	1½ O.D.,1.230 I.D.,0.2780 Depth,Also Available In Non-Magnetic (N) Material
	Exh	1991-97 SB1375-56	1¾ O.D.,1.102 I.D.,0.2600 Depth
Valve	Int	1991-97 01703	1.437 Head Diameter
	Exh	1991-97 01702	1.260 Head Diameter
Stem Seal	Both	1991-97 122-1198	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1991-97 140-8593	0.2755 I.D.,1.640 Length,0.5118 O.D.,+2 O/S Available
Spring	Both	1991-97 160-1365	1.700 Length,Conical
Lifter	Both	1996-97 VL124	Hydraulic Bucket Type,W/ 33mm Dia.
Head Bolt Set	1991-97	220-1080	Torque To Yield,2 Required

98 207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin S 207S
 1993-95 V6 207 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-95 SB1812-4	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1993-95 SB1500-1	1½ O.D.,1¼ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1993-95 01481	1.718 Head Diameter,+15 O/S Stem Available
	Exh	1993-95 01480	1.425 Head Diameter,+15 O/S Stem Available
Keeper	Both	1993-95 121-1003	1 SQ Bead Type
Stem Seal	Both	1993-95 122-1047	Positive Type,Poly Material,2-Ring Style
Guide	Both	1993-95 140-9560	0.3440 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Lifter	Both	1993-94 1995-95 VL94 VL138	Hydraulic Type Hydraulic Roller Type
Rocker Components	Both	1993-95 181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1993-95 183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1993-95 184-1025	Stud, 10mm,Adjustable
		1993-95 184-1032	Nut, 10mm,Adjustable
Push Rod	Both	1993-95 192-1444	6.162 Length

99 207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin E GMC207E
 1999-05 V6 207 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1999-05 SB1812-1	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D.,¼ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1999-05 SB1500-3	1½ O.D.,1¼ I.D.,¼ Depth,+3 O/S Available
Valve	Int	1999-05 01929	1.760 Head Diameter

(Cont'd) GM / PASSENGER CAR**207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin E**
1999-05 V6 207 CID**GMC207E 99**
BORE - 92mm/3.62" (cont.)

PART		YEARS	PART NO.	NOTES
Valve	Exh	1999-05	01811	1.425 Head Diameter
Keeper	Both	1999-05	121-1085	1 RD Bead Type
Stem Seal	Both	1999-99	122-1314	Positive Type,Viton Material,Top Hat Style
		2000-05	122-1336	Positive Type,Viton Material,Top Hat Style
Guide	Both	1999-99	140-8112	0.3155 I.D.,2.085 Length,0.5530 O.D.,W/ Snap Ring,+2 O/S Available
		2000-05	140-3067	0.3155 I.D.,2.085 Length,0.5525 O.D.,+2 O/S Also Available
Spring	Both	1999-05	160-1363	1.940 Length,Conical
Lifter	Both	1999-05	VL138	Hydraulic Roller Type
Rocker Components	Both	2003-05	180-1329	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	1999-05	190-1534	5.750 Length,Hardened
	Exh	1999-05	190-1535	6.074 Length,Hardened
Head Bolt Set		1999-05	220-1085	Torque To Yield,Services Engine
Head Saver Shim		1999-05	230-2132	New Hgt. - 3.585 - 3.595; Min. Hgt. - 3.575,2 Required

213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin 8 "LX9"
2004-06 V6 213 CID**GMC3.5-LX9 100**
BORE - 93.98mm/3.70"

PART		YEARS	PART NO.	NOTES
Valve	Int	2004-06	02172	1.760 Head Diameter
	Exh	2004-06	02173	1.425 Head Diameter
Keeper	Both	2004-06	121-1085	1 RD Bead Type
Stem Seal	Both	2004-06	122-1336	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2004-06	VL138	Hydraulic Roller Type
Rocker Components	Both	2004-06	180-1329	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2004-06	190-1534	5.750 Length,Hardened
	Exh	2004-06	190-1535	6.074 Length,Hardened
Head Bolt Set		2004-06	220-1122	Torque To Yield,Services Engine

213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin N "LZ4"
2006-10 V6 213 CID**GMC3.5-LZ4 101**
BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2006-10	SB1937-55	1 ⁵ / ₁₆ O.D.,1.640T I.D.,0.2900 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2006-10	13043	1.870 Head Diameter
	Exh	2006-10	13044	1.523 Head Diameter
Keeper	Both	2006-10	121-1085	1 RD Bead Type
Stem Seal	Int	2006-10	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2006-10	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-10	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2006-10	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2006-10	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2006-10	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2006-10	160-1607	2.081 Length,Conical, W/ External Shroud
Lifter	Both	2006-10	VL138	Hydraulic Roller Type

GM / PASSENGER CAR (Cont'd)

101 213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin N "LZ4"
(cont.) 2006-10 V6 213 CID

GMC3.5-LZ4
BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Rocker Components	Both	2006-10	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2006-10	190-1546	5.879 Length
	Exh	2006-10	190-1547	6.168 Length
Head Saver Shim		2006-10	230-2182	New Hgt. - N/A; Min. Hgt. - N/A

102 213 C.I., (3.5L), OHV, FLEX, FI, 12 Valve, Vin K "LZE"
2006-11 V6 213 CID

GMC3.5-LZE
BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2006-11	SB1937-55	1 ¹⁵ / ₁₆ O.D., 1.640T I.D., 0.2900 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2006-11	13043	1.870 Head Diameter
	Exh	2006-11	13044	1.523 Head Diameter
Keeper	Both	2006-11	121-1085	1 RD Bead Type
Stem Seal	Int	2006-11	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2006-11	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2006-11	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2006-11	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2006-11	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2006-11	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2006-11	160-1607	2.081 Length, Conical, W/ External Shroud
Lifter	Both	2006-11	VL138	Hydraulic Roller Type
Rocker Components	Both	2006-11	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2006-11	190-1546	5.879 Length
	Exh	2006-11	190-1547	6.168 Length
Head Saver Shim		2006-11	230-2182	New Hgt. - N/A; Min. Hgt. - N/A

103 214 C.I., (3.5L), DOHC, GAS, FI, 24 Valve, Vin H "LX5 Northstar Oldsmobile"
1999-02 V6 214 CID

GMC3.5-LX5
BORE - 89.5mm/3.52"

PART		YEARS	PART NO.	NOTES
Valve	Int	1999-02	02053	1.426 Head Diameter
	Exh	1999-02	02054	1.103 Head Diameter
Keeper	Both	1999-02	121-1081	1 RD Bead Type
Stem Seal	Both	1999-02	122-1349	Positive Type, Viton Material, Top Hat Style
Lifter	Both	1999-02	VL175	Hydraulic Lash Adjuster Type

104 215 C.I., (3.5L), OHV, GAS, CARB, 16 Valve, "Buick"
1961-63 V8 215 CID

215BUK
BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Guide	Both	1961-63	140-1880	0.3435 I.D., 2.610 Length, 0.5960 O.D.
Spring	Both	1961-63	160-1133	2.030 Length

105 215 C.I., (3.5L), OHV, GAS, CARB, 12 Valve "Pontiac"
1964-65 L6 215 CID

GMC215
BORE - 95.3mm/3.75"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1964-65	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth

(Cont'd) GM / PASSENGER CAR**215 C.I., (3.5L), OHV, GAS, CARB, 12 Valve "Pontiac"**
1964-65 L6 215 CID**GMC215 105**
BORE - 95.3mm/3.75" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1964-65	SB1562-2	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1964-65	00399	1.720 Head Diameter, +15 O/S Stem Available
		1964-65	01193	1.720 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1964-65	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		1964-65	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1964-65	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1964-65	121-1003	1 SQ Bead Type
Stem Seal	Both	1964-65	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1964-65	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1964-65	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1964-65	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, +2 O/S Available (140-5607+2)
		1964-65	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), -5 U/S I.D. Available (140-9607U)
Spring	Both	1964-64	160-1117	2.030 Length
Lifter	Both	1964-65	VL37	Hydraulic Type
Rocker Components	Both	1964-65	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1964-65	183-1024	Smooth Ball, 3/8
		1964-65	184-1038	Nut, 3/8
Push Rod	Both	1964-65	192-1330	9.682 Length

216 C.I., (3.5L), GAS, CARB "Chevrolet"
1937-53 L6 216 CID**GMC216 106**
BORE - 88.9mm/3.40"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1941-53	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1941-53	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1950-53	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		1950-53	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1950-53	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1950-53	121-1003	1 SQ Bead Type
Stem Seal	Both	1948-53	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1950-53	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1938-40	140-1453	0.3435 I.D., 3.219 Length, 0.5655 O.D.
		1941-53	140-1732	0.3435 I.D., 3.344 Length, 0.5648 O.D.
	Exh	1938-40	140-1476	0.3432 I.D., 2.188 Length, 0.5655 O.D.
		1941-53	140-1527	0.3435 I.D., 2.438 Length, 0.5650 O.D.
Spring	Both	1937-53	160-1116	2.250 Length

GM / PASSENGER CAR (Cont'd)

107 217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin 7 "LY7"
2004-12 V6 217 CID

GMC3.6-LY7
BORE - 94mm/3.70"

PART		YEARS	PART NO.	NOTES
Valve	Int	2004-10	13081	1.456 Head Diameter
		2011-12	13334	1.457 Head Diameter
	Exh	2004-10	13082	1.205 Head Diameter
		2011-12	13335	1.205 Head Diameter
Keeper	Both	2004-12	121-1127	1 RD Bead Type
Stem Seal	Both	2004-12	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2004-12	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2004-11	160-1588	1.729 Length,Conical
		2012-12	160-1579	1.760 Length,Conical
Lifter	Both	2004-12	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2004-12	180-1323	Cam Follower

108 217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin D, V, "LLT Direct Injected"
2008-11 V6 217 CID

GMC3.6-LLT
BORE - 94mm/3.70"

PART		YEARS	PART NO.	NOTES
Valve	Int	2008-11	13081	1.456 Head Diameter
		2008-10	13082	1.205 Head Diameter
	Exh	2011-11	13335	1.205 Head Diameter
Keeper	Both	2008-11	121-1127	1 RD Bead Type
Stem Seal	Both	2008-11	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-11	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2008-11	160-1588	1.729 Length,Conical
Lifter	Both	2008-11	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2008-11	180-1323	Cam Follower

109 217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin 8, LF3 "Turbo"
2014-17 V6 217 CID

GMC3.6-LF3
BORE - 94mm/3.70"

PART		YEARS	PART NO.	NOTES
Valve	Int	2014-16	13333	1.510 Head Diameter
Keeper	Both	2014-16	121-1127	1 RD Bead Type
Stem Seal	Both	2014-16	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-16	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2014-16	160-1588	1.729 Length,Conical
Lifter	Both	2014-16	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2014-16	180-1323	Cam Follower

110 217 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 3, "LFX Direct Injected"
2012-17 V6 217 CID

GMC3.6-LFX
BORE - 94mm/3.70"

PART		YEARS	PART NO.	NOTES
Valve	Int	2012-16	13333	1.510 Head Diameter
	Exh	2012-16	13212	1.205 Head Diameter
Keeper	Both	2012-16	121-1127	1 RD Bead Type
Stem Seal	Both	2012-16	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2012-16	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2012-15	160-1579	1.760 Length,Conical
		2016-16	160-1588	1.729 Length,Conical

(Cont'd) **GM / PASSENGER CAR**

217 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 3, "LFX Direct Injected" **110**
2012-17 V6 217 CID GMC3.6-LFX (cont.)
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Lifter	Both	2012-16 VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2012-16 180-1323	Cam Follower

217 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 3, "LFX Direct Injected POLICE" **111**
2012-16 V6 217 CID GMC3.6-LFX_PPV
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2012-16 2012-16	13333 13212	1.510 Head Diameter 1.205 Head Diameter
Keeper	Both	2012-16	121-1127	1 RD Bead Type
Stem Seal	Both	2012-16	122-1418	Positive Type, Viton Material, Top Hat Style
Guide	Both	2012-16	140-3112	0.2365 I.D., 1.655 Length, 0.4358 O.D.
Spring	Both	2012-16	160-1588	1.729 Length, Conical
Lifter	Both	2012-16	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2012-16	180-1323	Cam Follower

217 C.I., (3.6L), DOHC, BI-FUEL, FI, 24 Valve, Vin N, LFR **112**
2015-17 V6 217 CID GMC3.6-LFR
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2015-16 2015-16	13333 13212	1.510 Head Diameter 1.205 Head Diameter
Keeper	Both	2015-16	121-1127	1 RD Bead Type
Stem Seal	Both	2015-16	122-1418	Positive Type, Viton Material, Top Hat Style
Guide	Both	2015-16	140-3112	0.2365 I.D., 1.655 Length, 0.4358 O.D.
Spring	Both	2015-16	160-1588	1.729 Length, Conical
Lifter	Both	2015-16	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2015-16	180-1323	Cam Follower

217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin S, LGX **113**
2016-17 V6 217 CID GMC3.6-LGX
BORE - 95mm/3.74"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-16	121-1098	3 RD Bead Type
Lifter	Both	2016-16	VL175	Hydraulic Lash Adjuster Type

225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve **114**
1964-67 V6 225 CID GMC225
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1964-67 1964-67	SB1750-1 SB1437-3	1¾ O.D., 1½ I.D., ¼ Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material 17/16 O.D., 13/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	1965-67 1965-67	00975 00976	1.625 Head Diameter 1.375 Head Diameter
Stem Seal	Both	1964-65	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss
Guide	Int Exh	1964-67 1964-67	140-6105 140-7460	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3430 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide

GM / PASSENGER CAR (Cont'd)

114 225 C.I., (3.7L), OHV, GAS, CARB, 12 Valve
(cont.) 1964-67 V6 225 CID

GMC225
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES	
Guide	Exh	1964-67	140-9460	0.3430 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9460H)
	Both	1964-67	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
Spring	Both	1964-67	160-1133	2.030 Length
Push Rod	Both	1964-67	190-1349	8.723 Length

115 229 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 9, K
1980-84 V6 229 CID

229-9K
BORE - 94.9mm/3.74"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1980-84	SB1937-1	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 1/4 Depth
	Exh	1980-84	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1980-84	01393	1.840 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1980-84	01192	1.500 Head Diameter, +3 & +15 O/S Stem Available
Keeper	Both	1980-84	121-1003	1 SQ Bead Type
Stem Seal	Int	1980-84	122-1075	Positive Type, Viton Material, Ring & Band Style
	Exh	1980-84	122-1233	Umbrella Type, Nylon Material, Umbrella Style
	Both	1980-84	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1980-84	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
	1980-84	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss	
	1980-84	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems	
Guide	Int	1980-84	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1980-84	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1980-84	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1980-84	160-1144	2.048 Length, W/ Damper
		1980-84	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1980-84	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh	1980-84	161-1012	
Lifter	Both	1980-84	VL37	Hydraulic Type
Rocker Components	Both	1980-84	180-1228	Rocker Arm
		1980-84	180-1283	Rocker Arm, Rail Type, Optional
		1980-84	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1980-84	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		1980-84	183-1017	Smooth Ball, 3/8
		1980-84	183-1032	Grooved Ball, 3/8
		1980-84	184-1038	Nut, 3/8
Push Rod	Both	1980-84	192-1331	7.798 Length

116 230 C.I., (3.8L), OHV, GAS, CARB, 12 Valve "Chevrolet"
1963-70 L6 230 CID

GMC230
BORE - 98.4mm/3.88"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1963-70	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 7/32 Depth

(Cont'd) **GM / PASSENGER CAR**

230 C.I., (3.8L), OHV, GAS, CARB, 12 Valve "Chevrolet"
1963-70 L6 230 CID

GMC230 116
BORE - 98.4mm/3.88" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1963-70	SB1562-2	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ T I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1963-70	00399	1.720 Head Diameter, +15 O/S Stem Available
		1963-70	01193	1.720 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1963-70	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		1963-70	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1963-70	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1963-70	121-1003	1 SQ Bead Type
Stem Seal	Both	1963-70	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1963-70	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1963-70	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1963-70	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1963-70	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1963-70	160-1148	1.900 Length, Exc. 1964 Chevy II
		1964-64	160-1125	2.050 Length, W/ Damper, W/ Rotator, Chevy II
Rotator	Exh	1963-68	161-1012	
Lifter	Both	1963-70	VL37	Hydraulic Type
Rocker Components	Both	1963-70	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1963-70	183-1024	Smooth Ball, 3/8
		1963-70	184-1038	Nut, 3/8
Push Rod	Both	1963-70	192-1330	9.682 Length

231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin A, C
1975-87 V6 231 CID

GMC3.8-AC 117
BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-78	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.625 Valve Head Dia.
		1979-87	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth, W/ 1.710 Valve Head Dia.
	Exh	1975-78	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.425 Valve Head Dia.
		1979-87	SB1562-9	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ T I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.500 Valve Head Dia.
Valve	Int	1979-87	01388	1.710 Head Diameter, Square Groove
	Exh	1979-87	01389	1.500 Head Diameter, Square Groove, W/O Seal Groove
Keeper	Both	1977-87	121-1003	1 SQ Bead Type
Stem Seal	Int	1975-87	122-1075	Positive Type, Viton Material, Ring & Band Style
		1985-87	122-1217	Positive Type, Viton Material, Ring & Band Style
	Exh	1975-87	122-1218	Positive Type, Viton Material, Ring & Band Style
		1975-87	122-1233	Umbrella Type, Nylon Material, Umbrella Style
	Both	1975-87	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss

GM / PASSENGER CAR (Cont'd)

117 231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin A, C
(cont.) 1975-87 V6 231 CID

GMC3.8-AC
BORE - 96.5mm/3.80"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1975-87	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2),+2 O/S & -5 U/S I.D. Available
		1975-87	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1975-87	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1975-87	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Spring	Both	1976-87	160-1144	2.048 Length,W/ Damper,Exc. 1979-80 Int.
		1976-87	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1976-87	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	1975-87	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1975-87	VL73	Hydraulic Type
Rocker Components	Both	1975-87	180-1040	Rocker Arm, Stamped Steel,R.H.
		1975-87	180-1041	Rocker Arm, Stamped Steel,L.H.
		1975-87	187-1014	Retainer
Push Rod	Both	1975-87	190-1433	8.686 Length,Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available

118 231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 2 "California, Buick"
1978-79 V6 231 CID

231-2
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-78	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.625 Valve Head Dia.
		1979-79	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,W/ 1.710 Valve Head Dia.
	Exh	1978-78	SB1500-1	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.425 Valve Head Dia.
		1979-79	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.500 Valve Head Dia.
Valve	Int	1979-79	01388	1.710 Head Diameter,Square Groove
	Exh	1979-79	01389	1.500 Head Diameter,Square Groove,W/O Seal Groove
Keeper	Both	1978-79	121-1003	1 SQ Bead Type
Stem Seal	Int	1978-79	122-1075	Positive Type,Viton Material,Ring & Band Style
		1978-79	122-1217	Positive Type,Viton Material,Ring & Band Style
	Exh	1978-79	122-1218	Positive Type,Viton Material,Ring & Band Style
		1978-79	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1978-79	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
Guide	Int	1978-79	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1978-79	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1978-79	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1978-79	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Spring	Exh	1979-79	160-1144	2.048 Length,W/ Damper
		1979-79	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1979-79	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.

(Cont'd) **GM / PASSENGER CAR**

231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 2 "California, Buick" 231-2 118
1978-79 V6 231 CID BORE - 96mm/3.78" (cont.)

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1978-79	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1978-79	VL73	Hydraulic Type
Rocker Components	Both	1978-79	180-1040	Rocker Arm, Stamped Steel,R.H.
		1978-79	180-1041	Rocker Arm, Stamped Steel,L.H.
		1978-79	187-1014	Retainer
Push Rod	Both	1978-79	190-1433	8.686 Length,Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available

231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin G "Turbo Buick" 231G 119
1978-78 V6 231 CID BORE - 96.5mm/3.80"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-78	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.625 Valve Head Dia.
	Exh	1978-78	SB1500-1	1 ¹ / ₂ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.425 Valve Head Dia.
Keeper	Both	1978-78	121-1003	1 SQ Bead Type
Stem Seal	Int	1978-78	122-1075	Positive Type,Viton Material,Ring & Band Style
		1978-78	122-1217	Positive Type,Viton Material,Ring & Band Style
	Exh	1978-78	122-1218	Positive Type,Viton Material,Ring & Band Style
	Both	1978-78	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
Guide	Int	1978-78	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1978-78	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1978-78	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1978-78	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Lifter	Both	1978-78	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1978-78	VL73	Hydraulic Type
Rocker Components	Both	1978-78	180-1040	Rocker Arm, Stamped Steel,R.H.
		1978-78	180-1041	Rocker Arm, Stamped Steel,L.H.
		1978-78	187-1014	Retainer
Push Rod	Both	1978-78	190-1433	8.686 Length,Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available

231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 3, 8 "Turbo Buick" 231-3-8 120
1978-83 V6 231 CID BORE - 96.5mm/3.80"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-83	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1978-83	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1978-83	01388	1.710 Head Diameter,Square Groove
	Exh	1978-83	01387	1.500 Head Diameter,W/ Seal Groove
		1978-83	01389	1.500 Head Diameter,Square Groove,W/O Seal Groove
Keeper	Both	1978-83	121-1003	1 SQ Bead Type
Stem Seal	Int	1978-83	122-1217	Positive Type,Viton Material,Ring & Band Style
	Exh	1978-83	122-1218	Positive Type,Viton Material,Ring & Band Style

GM / PASSENGER CAR (Cont'd)

120 231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 3, 8 "Turbo Buick"
 (cont.) 1978-83 V6 231 CID

231-3-8
 BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Stem Seal	Exh	1978-83	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1978-83	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
Guide	Int	1978-83	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1978-83	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1978-83	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1978-83	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Lifter	Both	1978-83	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1978-83	VL73	Hydraulic Type
Rocker Components	Both	1978-83	180-1040	Rocker Arm, Stamped Steel,R.H.
		1978-83	180-1041	Rocker Arm, Stamped Steel,L.H.
		1978-83	187-1014	Retainer
Push Rod	Both	1978-83	190-1433	8.686 Length,Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available

121 231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 7, 9 "Turbo Buick"
 1984-87 V6 231 CID

231-7-9
 BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-87	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1984-87	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1984-87	01388	1.710 Head Diameter,Square Groove
		1984-87	01387	1.500 Head Diameter
	Exh	1984-87	01389	1.500 Head Diameter,Square Groove,W/O Seal Groove
Keeper	Both	1984-87	121-1003	1 SQ Bead Type
Stem Seal	Int	1984-87	122-1075	Positive Type,Viton Material,Ring & Band Style
		1984-87	122-1217	Positive Type,Viton Material,Ring & Band Style
	Exh	1984-87	122-1218	Positive Type,Viton Material,Ring & Band Style
		1984-87	122-1233	Umbrella Type,Nylon Material,Umbrella Style
Guide	Int	1984-87	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1984-87	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1984-87	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1984-87	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Lifter	Both	1984-87	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1984-87	VL73	Hydraulic Type
Rocker Components	Both	1984-87	180-1040	Rocker Arm, Stamped Steel,R.H.
		1984-87	180-1041	Rocker Arm, Stamped Steel,L.H.
		1984-87	187-1014	Retainer
Push Rod	Both	1984-87	190-1478	8.468 Length

(Cont'd) GM / PASSENGER CAR231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 2, 3, B, C, K, L
1986-09 V6 231 CIDGMC3.8-FI 122
BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-88	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth, Exc. VIN C & L
		1988-95	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.710 Valve Head Dia.
	Exh	1996-03	SB1875-19	1 ⁷ / ₈ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth
		1986-09	SB1562-9	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
		1988-09	SB1562-42	1 ⁹ / ₁₆ O.D., 1 ³ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Optional 1 ³ / ₁₆ x 1 ³ / ₈ Tapered I.D.
Valve	Int	1986-88	01388	1.710 Head Diameter, Square Groove, 0.3407 Stem, 4.713 Overall Length, Exc. VIN C
		1988-95	01711	1.710 Head Diameter, Square Groove, 0.3407 Stem, 4.726 Overall Length
		1996-03	01858	1.800 Head Diameter, Round Groove, 0.3134 Stem Dia., Vin K
	Exh	2004-09	13013	1.830 Head Diameter, 0.3133 Stem Dia., Vin K, 2
		1986-88	01389	1.500 Head Diameter, Square Groove, 0.3408 Stem, 4.718 Overall Length, W/O Seal Groove, VIN B & 3, Exc. 1988 VIN C
		1988-95	01710	1.490 Head Diameter, Square Groove, 0.3408 Stem, 4.727 Overall Length
		1996-09	01735	1.520 Head Diameter, Round Groove, 0.3132 Stem Dia., VIN K, 2
Keeper	Both	1986-95	121-1003	1 SQ Bead Type
		1996-09	121-1085	1 RD Bead Type, Vin K, 2
Stem Seal	Int	1988-95	122-1217	Positive Type, Viton Material, Ring & Band Style
		1995-99	122-1258	Positive Type, Viton Material, Metal Clad Style
		2000-09	122-1340	Positive Type, Viton Material, Ring & Band Style
	Exh	1988-91	122-1075	Positive Type, Viton Material, Ring & Band Style, W/ .552 O.D. Valve Guide, .341 Valve Stem Dia.
		1988-91	122-1233	Umbrella Type, Nylon Material, Umbrella Style
		1988-95	122-1218	Positive Type, Viton Material, Ring & Band Style
		1995-99	122-1259	Positive Type, Viton Material, Metal Clad Style
		2000-09	122-1341	Positive Type, Viton Material, Ring & Band Style
Guide	Int	1986-88	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1986-88	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1986-88	140-6105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1986-88	140-9105	0.3440 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9105U)
	Both	1988-95	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1988-95	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
		1996-09	140-9690	0.3150 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Vin K, 2
Spring	Both	1989-91	160-1085	1.981 Length, VIN L, C Exc. 90 Riviera, Reatta
		1996-09	160-1267	1.960 Length, Conical
Lifter	Both	1986-87	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1986-87	VL73	Hydraulic Type
		1988-09	VL115	Hydraulic Roller Type, Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller. , Non-Active Fuel Management

GM / PASSENGER CAR (Cont'd)

122 231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 2, 3, B, C, K, L
(cont.) 1986-09 V6 231 CID

GMC3.8-FI
BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Rocker Components	Both	1986-86	183-1014	Fulcrum, Short Retainer
		1986-88	187-1014	
Push Rod	Both	1986-87	190-1478	8.468 Length,W/ Hyd. Lifter; FWD Eng., Vin "B" 7.963 Length, Series I, W/ Roller Lifters, Vin 3, C, L, OEM # 25532501 7.029 Length, Series II & III 3800, Vin K, 2; OEM # 24504406
		1988-95	192-1491	
		1995-09	190-1533	
Head Bolt Set		1988-95	220-1024	Torque To Yield, Vin L, C; Services Engine Torque To Yield, Vin K, 2; Services Engine
		1996-07	220-1093	

123 231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin 1, 4, "Supercharged"
1991-07 V6 231 CID

GMC3.8-SC
BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-95	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth 1 $\frac{1}{16}$ O.D., 1 $\frac{3}{16}$ T I.D., $\frac{7}{32}$ Depth, Optional 1 $\frac{3}{16}$ x 1 $\frac{1}{8}$ Tapered I.D. 1 $\frac{1}{16}$ O.D., 1 $\frac{1}{16}$ T I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material
		1996-03	SB1875-19	
	Exh	1991-07	SB1562-42	
		1991-07	SB1562-9	
Valve	Int	1991-95	01711	1.710 Head Diameter, Square Groove, 0.3407 Stem, 4.726 Overall Length
		1996-03	01858	
	Exh	2004-07	13013	1.800 Head Diameter, Round Groove, W/ .3134 Stem Dia.
		1991-95	01710	1.830 Head Diameter 1.490 Head Diameter, Square Groove, 0.3408 Stem, 4.727 Overall Length
		1996-07	01735	1.520 Head Diameter, Round Groove, W/ .3132 Stem Dia
Keeper	Both	1991-95	121-1003	1 SQ Bead Type 1 RD Bead Type
		1996-07	121-1085	
Stem Seal	Int	1991-91	122-1075	Positive Type, Viton Material, Ring & Band Style Positive Type, Viton Material, Ring & Band Style Positive Type, Viton Material, Metal Clad Style Positive Type, Viton Material, Ring & Band Style Positive Type, Viton Material, Ring & Band Style, W/ .341 Stem Dia. Umbrella Type, Nylon Material, Umbrella Style Positive Type, Viton Material, Metal Clad Style Positive Type, Viton Material, Ring & Band Style
		1991-95	122-1217	
		1996-99	122-1258	
		2000-07	122-1340	
	Exh	1991-91	122-1218	
		1991-95	122-1233	
		1995-99	122-1259	
		2000-07	122-1341	
Guide	Both	1991-95	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U) 0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U) 0.3150 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
		1991-95	140-9606	
		1996-07	140-9690	
Spring	Both	1991-94	160-1085	1.981 Length 1.960 Length, Conical
		1995-07	160-1267	
Lifter	Both	1991-07	VL115	Hydraulic Roller Type, Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Push Rod	Both	1991-94	192-1491	7.963 Length, Series I, OEM # 25532501 7.029 Length, Series II & Series III 3800, OEM # 24504406
		1995-07	190-1533	
Head Bolt Set		1996-07	220-1093	Torque To Yield, Services Engine

(Cont'd) **GM / PASSENGER CAR**

235 C.I., (3.8L), OHV, GAS, CARB, 12 Valve
1950-62 L6 235 CID

GMC235 124
BORE - 90.5mm/3.56"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1950-62	SB1937-17	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth
	Exh	1950-62	SB1562-9	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1953-62	00308	1.875 Head Diameter
	Exh	1950-62	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		1950-62	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
	1950-62	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available	
Keeper	Both	1950-62	121-1003	1 SQ Bead Type
Stem Seal	Both	1950-62	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1950-62	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1950-62	122-1048	Positive Type, Poly Material, 2-Ring Style
		1950-62	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1950-62	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1950-62	140-1732	0.3435 I.D., 3.344 Length, 0.5648 O.D.
	Exh	1950-62	140-1527	0.3435 I.D., 2.438 Length, 0.5650 O.D.
Spring	Both	1954-58	160-1116	2.250 Length, W/ Powerglide
		1959-62	160-1126	2.160 Length

237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin 1 "LZ9"
2006-10 V6 237 CID

GMC3.9-LZ9 125
BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2006-10	SB1937-55	1 ¹⁵ / ₁₆ O.D., 1.640T I.D., 0.2900 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2006-10	13043	1.870 Head Diameter
	Exh	2006-10	13044	1.523 Head Diameter
Keeper	Both	2006-10	121-1085	1 RD Bead Type
Stem Seal	Int	2006-10	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2006-10	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2006-10	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2006-10	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2006-10	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2006-10	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2006-10	160-1607	2.081 Length, Conical, W/ External Shroud
Lifter	Both	2006-10	VL138	Hydraulic Roller Type
Rocker Components	Both	2006-10	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2006-10	190-1546	5.879 Length
	Exh	2006-10	190-1547	6.168 Length
Head Saver Shim		2006-10	230-2182	New Hgt. - N/A; Min. Hgt. - N/A

237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Active Fuel Mgmt., Vin R "LZ8"
2007-07 V6 237 CID

GMC3.9-LZ8 126
BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2007-07	SB1937-55	1 ¹⁵ / ₁₆ O.D., 1.640T I.D., 0.2900 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth

GM / PASSENGER CAR (Cont'd)

126 237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Active Fuel Mgmt., Vin R "LZ8" GMC3.9-LZ8
 (cont.) 2007-07 V6 237 CID BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve	Int	2007-07	13043	1.870 Head Diameter
	Exh	2007-07	13044	1.523 Head Diameter
Keeper	Both	2007-07	121-1085	1 RD Bead Type
Stem Seal	Int	2007-07	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2007-07	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-07	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2007-07	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2007-07	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2007-07	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2007-07	160-1607	2.081 Length,Conical, W/ External Shroud
Lifter	Both	2007-07	VL138	Hydraulic Roller Type,Non-Active Fuel Management; NOTE: These Lifters Used To Service The Active Fuel Man. Lifter. Refer To Tech Bulletin #13-06-01-002. AFM Lifter No Longer Available.
Rocker Components	Both	2007-07	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2007-07	190-1546	5.879 Length
	Exh	2007-07	190-1547	6.168 Length

127 237 C.I., (3.9L), OHV, FLEX, FI, 12 Valve, Active Fuel Mgmt., Vin 3, "LZG" GMC3.9-LZG
 2008-08 V6 237 CID BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2008-08	SB1937-55	1 ¹⁵ / ₁₆ O.D.,1.640T I.D.,0.2900 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2008-08	13043	1.870 Head Diameter
	Exh	2008-08	13044	1.523 Head Diameter
Keeper	Both	2008-08	121-1085	1 RD Bead Type
Stem Seal	Int	2008-08	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2008-08	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-08	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2008-08	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2008-08	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2008-08	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2008-08	160-1607	2.081 Length,Conical, W/ External Shroud
Lifter	Both	2008-08	VL138	Hydraulic Roller Type,Non-Active Fuel Management; NOTE: These Lifters Used To Service The Active Fuel Man. Lifter. Refer To Tech Bulletin #13-06-01-002. AFM Lifter No Longer Available.
Rocker Components	Both	2008-08	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2008-08	190-1546	5.879 Length
	Exh	2008-08	190-1547	6.168 Length

(Cont'd) **GM / PASSENGER CAR**

237 C.I., (3.9L), OHV, FLEX, FI, 12 Valve, Vin M, "LGD"
2009-11 V6 237 CID

GMC3.9-LGD 128
BORE - 99mm/3.90"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2009-11	SB1937-55	1 ¹⁵ / ₁₆ O.D., 1.640T I.D., 0.2900 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int 2009-11	13043	1.870 Head Diameter
	Exh 2009-11	13044	1.523 Head Diameter
Keeper	Both 2009-11	121-1085	1 RD Bead Type
Stem Seal	Int 2009-11	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh 2009-11	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both 2009-11	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
	2009-11	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
	2009-11	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
	2009-11	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both 2009-11	160-1607	2.081 Length, Conical, W/ External Shroud
Lifter	Both 2009-11	VL138	Hydraulic Roller Type
Rocker Components	Both 2009-11	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int 2009-11	190-1546	5.879 Length
	Exh 2009-11	190-1547	6.168 Length
Head Saver Shim	2009-11	230-2182	New Hgt. - N/A; Min. Hgt. - N/A

244 C.I., (4.0L), DOHC, GAS, FI, 32 Valve, Vin C "L47 Northstar Oldsmobile"

1995-03 V8 244 CID

129
GMC4.0-L47
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES
Valve	Int 1995-00	01739	1.229 Head Diameter
	Exh 1995-00	01706	1.142 Head Diameter
	2001-02	02054	1.103 Head Diameter
	2003-03	13243	1.142 Head Diameter, Inconel
Keeper	Both 1995-03	121-1081	1 RD Bead Type
Stem Seal	Both 1995-00	122-1288	Positive Type, Viton Material, Top Hat Style
	2001-03	122-1349	Positive Type, Viton Material, Top Hat Style
Guide	Int 1995-00	140-8666	0.2355 I.D., 1.700 Length, 0.4333 O.D., W/ Snap Ring
	Exh 1995-00	140-8668	0.2365 I.D., 1.500 Length, 0.4333 O.D., W/ Snap Ring
Spring	Both 1995-00	160-1366	1.557 Length
Lifter	Both 1995-00	VL124	Hydraulic Bucket Type
	2001-03	VL175	Hydraulic Lash Adjuster Type

250 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin D
1966-79 L6 250 CID

250D 130
BORE - 93.5mm/3.68"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1966-79	SB1812-3	1 ¹⁵ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh 1966-79	SB1562-9	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int 1966-79	00399	1.720 Head Diameter, +15 O/S Stem Available
		01193	1.720 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh 1966-79	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available

GM / PASSENGER CAR (Cont'd)

130 250 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin D

250D

(cont.) 1966-79

L6 250 CID

BORE - 93.5mm/3.68"

PART		YEARS	PART NO.	NOTES
Valve	Exh	1966-79	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1966-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1966-79	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1966-79	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1966-79	122-1047	Positive Type,Poly Material,2-Ring Style
		1966-79	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1966-79	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1966-79	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1966-79	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1966-79	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1966-74	160-1148	1.900 Length
		1975-79	160-1125	2.050 Length,W/ Damper
Rotator	Exh	1971-74	161-1012	
Lifter	Both	1966-79	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1966-79	VL73	Hydraulic Type
Rocker Components	Both	1966-79	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1966-79	183-1024	Smooth Ball, 3/8
		1966-79	184-1038	Nut, 3/8
Push Rod	Both	1966-79	192-1330	9.682 Length

131 250 C.I., (4.1L), OHV, GAS, FI, 16 Valve, Vin 7, 8 "Cadillac"

250CAD

1982-88

V8 250 CID

BORE - 88mm/3.46"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-88	SB1625-11	1 ⁵ / ₈ O.D.,1 ¹¹ / ₃₂ I.D.,7/32 Depth
	Exh	1982-88	SB1375-1	1 ³ / ₈ O.D.,1 ¹ / ₈ I.D.,7/32 Depth,Also Available Non-Magnetic (N) Material
Keeper	Both	1982-86	121-1003	1 SQ Bead Type
Stem Seal	Both	1982-88	122-1203	Positive Type,Viton Material,Metal Clad Style,Exc. Allante
Guide	Both	1982-87	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
		1988-88	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
Spring	Both	1988-88	160-1103	1.950 Length
Lifter	Both	1982-87	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1982-87	VL73	Hydraulic Type,VIN 8
		1987-88	VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller. ,VIN 7
Push Rod	Both	1988-88	190-1427	7.635 Length

(Cont'd) GM / PASSENGER CAR**252 C.I., (4.1L), OHV, GAS, CARB, 12 Valve, Vin 4**
1980-84 V6 252 CID**252-4 132****BORE - 100.7mm/3.97"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-84	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1980-84	SB1562-9	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1980-84	01388	1.710 Head Diameter, Square Groove
	Exh	1980-84	01387	1.500 Head Diameter, W/ Seal Groove
		1980-84	01389	1.500 Head Diameter, Square Groove, W/O Seal Groove
Keeper	Both	1980-84	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-84	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1980-84	122-1040	Positive Type, Poly Material, 2-Ring Style, W/ .605 O.D. Valve Guide
	1980-84	122-1048	Positive Type, Poly Material, 2-Ring Style	
		122-1270	Umbrella Type, Viton Material, Umbrella Style	
Guide	Both	1980-84	140-7259	0.3430 I.D., 3.063 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1980-84	140-9259	0.3430 I.D., 3.063 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Lifter	Both	1980-84	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1980-84	VL73	Hydraulic Type
Rocker Components	Both	1980-84	180-1040	Rocker Arm, Stamped Steel, R.H.
		1980-84	180-1041	Rocker Arm, Stamped Steel, L.H.
		1980-84	187-1014	Retainer
Push Rod	Both	1980-84	190-1433	8.686 Length, Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available

260 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin 8, F
1975-82 V8 260 CID**260-8F 133****BORE - 88.9mm/3.50"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-82	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1975-82	SB1437-4	1 ⁷ / ₁₆ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	1975-82	01323	1.522 Head Diameter
	Exh	1975-82	01322	1.300 Head Diameter
Keeper	Both	1975-82	121-1003	1 SQ Bead Type
Stem Seal	Both	1975-82	122-1074	Positive Type, Viton Material, Ring & Band Style
Guide	Both	1975-82	140-6873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1975-82	140-9873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1975-82	160-1006	1.960 Length
Lifter	Both	1975-82	VL49	Hydraulic Type, Exc. Hi-Perf.
Rocker Components	Both	1975-79	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1975-82	183-1027	Fulcrum, Long
			183-1028	Bridge, When Replacing, Fulcrum # 183-1027 Must Also Be Used
		1980-82	181-1059	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
Push Rod	Both	1975-79	190-1411	8.234 Length
		1980-82	190-1438	8.245 Length

GM / PASSENGER CAR (Cont'd)

134 260 C.I., (4.3L), OHV, DIESEL, FI, 12 Valve, Vin T, V
1982-85 V6 260 CID

260TV
BORE - 103mm/4.06"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-85	SB1937-17	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 7/32 Depth, Exc. Aluminum Cylinder Head
	Exh	1982-85	SB1750-3	1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material, Exc. Aluminum Cylinder Head
		1982-85	SB1750-65	1 ³ / ₄ O.D., 1.468 I.D., 0.2760 Depth, Aluminum Cylinder Head
Keeper	Both	1982-85	121-1003	1 SQ Bead Type
Stem Seal	Both	1982-85	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1982-85	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1982-85	122-1047	Positive Type, Poly Material, 2-Ring Style
Spring	Both	1982-85	160-1049	2.010 Length, W/ Damper
Lifter	Both	1982-85	VL114	Hydraulic Roller Type
Rocker Components	Both	1982-85	181-1059	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1982-85	183-1027	Fulcrum, Long
		1982-85	183-1028	Bridge, When Replacing, Fulcrum # 183-1027 Must Also Be Used
Push Rod	Both	1982-85	190-1489	7.702 Length

135 262 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin G
1975-76 V8 262 CID

262G
BORE - 93.2mm/3.67"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-76	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth
	Exh	1975-76	SB1562-2	1 ¹³ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1975-76	00399	1.720 Head Diameter, +15 O/S Stem Available
		1975-76	01193	1.720 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1975-76	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		1975-76	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
	1975-76	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available	
Keeper	Both	1975-76	121-1003	1 SQ Bead Type
Stem Seal	Both	1975-76	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1975-76	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1975-76	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1975-76	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
	1975-76	122-1270	Umbrella Type, Viton Material, Umbrella Style	
Guide	Both	1975-76	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
Spring	Int	1975-76	160-1144	2.048 Length, W/ Damper
		1976-76	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1976-76	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
	Exh	1975-76	160-1009	1.910 Length, W/ Damper
Rotator	Exh	1975-76	161-1012	
Lifter	Both	1975-76	VL37	Hydraulic Type
Rocker Components	Both	1975-76	180-1228	Rocker Arm
		1975-76	180-1239	Rocker Arm, Stamped, Long Slot
		1975-76	180-1283	Rocker Arm, Rail Type, Optional
		1975-76	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut

(Cont'd) GM / PASSENGER CAR**262 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin G**
1975-76 V8 262 CID**262G 135****BORE - 93.2mm/3.67" (cont.)**

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1975-76	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut, High Perf., W/ 1.5:1 Ratio
		1975-76	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		1975-76	183-1017	Smooth Ball, 3/8
		1975-76	183-1032	Grooved Ball, 3/8
		1975-76	184-1038	Nut, 3/8
Push Rod	Both	1975-76	192-1331	7.798 Length
Head Bolt Set		1975-76	220-1018	This bolt is NOT Torque to Yield, 2 Required

262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z
1985-93 V6 262 CID**GMC-262Z 136****BORE - 101.6mm/4.00"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-93	SB2000-36	2.000 O.D., 1 3/4 I.D., 3/16 Depth
	Exh	1985-93	SB1562-1	1 9/16 O.D., 1 5/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1985-93	01195	1.940 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1985-93	01192	1.500 Head Diameter, +3 & +15 O/S Stem Available
Keeper	Both	1985-93	121-1003	1 SQ Bead Type
Stem Seal	Exh	1985-93	122-1233	Umbrella Type, Nylon Material, Umbrella Style
	Both	1985-93	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1985-93	122-1075	Positive Type, Viton Material, Ring & Band Style
		1985-93	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 1/2 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1985-93	140-3015	0.3420 I.D., 2.120 Length, 0.5020 O.D., 0.552 Boss O.D., Replaces guide Boss of Integrated guide.
		1985-93	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1985-93	140-3016	0.3420 I.D., 2.210 Length, 0.5020 O.D., 0.552 Boss O.D., Replaces guide Boss of Integrated guide.
		1985-93	140-7946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1985-93	140-9946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1985-93	160-1144	2.048 Length, W/ Damper
		1985-93	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1985-93	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh	1985-93	161-1012	
Lifter	Both	1985-86	VL37	Hydraulic Type
		1987-93	VL115	Hydraulic Roller Type, Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1985-93	180-1228	Rocker Arm
		1985-93	180-1239	Rocker Arm, Stamped, Long Slot
		1985-93	180-1283	Rocker Arm, Rail Type, Optional, 85-93
		1985-93	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut, Adjustable, W/ Press In Rocker Arm Studs, Standard Threads
		1985-93	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut, High Perf., W/ 1.5:1 Ratio
		1985-93	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional

GM / PASSENGER CAR (Cont'd)

136 262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z
(cont.) 1985-93 V6 262 CID

GMC-262Z
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Rocker Components	Both	1985-93	183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1985-93	183-1017	Smooth Ball, $\frac{3}{8}$,Use W/ Press In Rocker Arm Stud
		1985-93	184-1033	Nut, 8mm,Non-Adjustable, Use W/ Metric Threaded Rocker Arm Studs
		1985-93	184-1038	Nut, $\frac{3}{8}$,Adjustable, W/ Press in Rocker Arm Studs, Standard Threads
Push Rod	Both	1985-86	192-1331	7.798 Length
		1987-93	192-1485	7.195 Length,W/ Hyd. Roller Lifters
Head Bolt Set		1985-93	220-1018	This bolt is NOT Torque to Yield,2 Required
		1985-93	220-1104	Torque To Yield,Services Engine

137 265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve
1955-57 V8 265 CID

GMC265
BORE - 95.3mm/3.75"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1955-57	SB1812-3	$1\frac{13}{16}$ O.D., $1\frac{1}{2}$ T I.D., $\frac{7}{32}$ Depth
	Exh	1955-57	SB1562-2	$1\frac{7}{16}$ O.D., $1\frac{15}{16}$ T I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1955-57	00399	1.720 Head Diameter,+15 O/S Stem Available
		1955-57	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1955-57	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1955-57	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1955-57	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1955-57	121-1003	1 SQ Bead Type
Stem Seal	Both	1955-57	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1955-57	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ $1\frac{1}{32}$ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1955-57	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1955-57	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1955-57	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1955-57	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1955-57	160-1117	2.030 Length
Rotator	Exh	1955-57	161-1012	
Lifter	Both	1955-57	VL37	Hydraulic Type
Rocker Components	Both	1955-57	180-1228	Rocker Arm
		1955-57	180-1239	Rocker Arm, Stamped, Long Slot
		1955-57	180-1283	Rocker Arm, Rail Type,Optional
		1955-57	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut
		1955-57	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) $\frac{3}{8}$ Nut,High Perf., W/ 1.5:1 Ratio
		1955-57	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) $\frac{3}{8}$ Nut,Optional
		1955-57	183-1017	Smooth Ball, $\frac{3}{8}$
		1955-57	183-1032	Grooved Ball, $\frac{3}{8}$
		1955-57	184-1038	Nut, $\frac{3}{8}$

(Cont'd) GM / PASSENGER CAR**265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve**
1955-57 V8 265 CID**GMC265 137****BORE - 95.3mm/3.75" (cont.)**

PART	YEARS	PART NO.	NOTES
Push Rod	Both	1955-57 192-1331	7.798 Length
Head Saver Shim		1955-57 230-2028	New Hgt. - Min. Hgt. N/A

265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve, Vin S "Pontiac"
1981-81 V8 265 CID**265S 138****BORE - 95.3mm/3.75"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1981-81 SB1687-2	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1981-81 SB1437-2	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1981-81 121-1003	1 SQ Bead Type
Stem Seal	Both	1981-81 122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Both	1981-81 140-6523	0.3440 I.D., 3.063 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1981-81 140-9523	0.3440 I.D., 3.063 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9523H)
Spring	Both	1981-81 160-1125	2.050 Length, W/ Damper
Lifter	Both	1981-81 VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1981-81 VL73	Hydraulic Type
Rocker Components	Both	1981-81 181-1020	Rocker Arm Kit, Includes (1) Rocker Arm (1) Grooved Ball, (1) ³ / ₈ Nut
		1981-81 183-1021	Grooved Ball, ⁷ / ₁₆
		1981-81 184-1038	Nut, ³ / ₈
Push Rod	Both	1981-81 192-1446	8.045 Length

265 C.I., (4.3L), OHV, GAS, FI, 16 Valve, Vin W "Chevrolet High Performance"
1994-96 V8 265 CID**265HP 139****BORE - 93.2mm/3.67"**

PART	YEARS	PART NO.	NOTES
Valve	Int	1994-96 01806	1.840 Head Diameter, 1 Groove, 4.881 Overall Length
	Exh	1994-96 01807	1.500 Head Diameter, 1 Groove, 4.920 Overall Length, +15 O/S Available
		1994-96 01807S	1.500 Head Diameter, Stellite Face, 4.920 Overall Length, Optional Material, +15 O/S Stem Available
Keeper	Exh	1994-96 121-1003	1 SQ Bead Type
Stem Seal	Both	1994-96 122-1047	Positive Type, Poly Material, 2-Ring Style
		1994-96 122-1260	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1994-96 140-9946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1994-96 160-1266	2.040 Length
Lifter	Both	1994-96 VL115	Hydraulic Roller Type, Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1994-96 180-1228	Rocker Arm
Push Rod	Both	1994-96 192-1485	7.195 Length, W/ Hyd. Roller Lifters

267 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin J "Chevrolet"
1979-82 V8 267 CID**267J 140****BORE - 88.9mm/3.50"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1979-82 SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth

GM / PASSENGER CAR (Cont'd)

140 267 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin J "Chevrolet"

267J

(cont.) 1979-82

V8 267 CID

BORE - 88.9mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1979-82	SB1437-2	1 ⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., 7 ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1979-82	01193	1.720 Head Diameter, +3 & +15 O/S Stem Available
Keeper	Both	1979-82	121-1003	1 SQ Bead Type
Stem Seal	Both	1979-82	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1979-82	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1979-82	122-1075	Positive Type, Viton Material, Ring & Band Style
		1979-82	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1979-82	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1979-82	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1979-82	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1979-82	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1981-82	160-1144	2.048 Length, W/ Damper
		1981-82	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1981-82	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh	1979-82	161-1012	
Lifter	Both	1979-82	VL37	Hydraulic Type
Rocker Components	Both	1979-82	180-1228	Rocker Arm
		1979-82	180-1239	Rocker Arm, Stamped, Long Slot
		1979-82	180-1283	Rocker Arm, Rail Type, Optional
		1979-82	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1979-82	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut, High Perf., W/ 1.5:1 Ratio
		1979-82	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		1979-82	183-1017	Smooth Ball, 3/8
		1979-82	183-1032	Grooved Ball, 3/8
1979-82	184-1038	Nut, 3/8		
Push Rod	Both	1979-82	192-1331	7.798 Length
Head Bolt Set		1979-82	220-1018	This bolt is NOT Torque to Yield, 2 Required

141 267 C.I., (4.4L), DOHC, GAS, FI, 32 Valve, Vin D " LC3 Northstar S/C"

GMC4.4-LC3

2006-09

V8 267 CID

BORE - 91mm/3.58"

PART		YEARS	PART NO.	NOTES
Valve	Int	2006-09	02053	1.426 Head Diameter
	Exh	2006-09	13243	1.142 Head Diameter, Inconel
Keeper	Both	2006-09	121-1081	1 RD Bead Type
Stem Seal	Both	2006-09	122-1349	Positive Type, Viton Material, Top Hat Style
Spring	Both	2006-09	160-1634	1.656 Length
Lifter	Both	2006-09	VL175	Hydraulic Lash Adjuster Type

(Cont'd) **GM / PASSENGER CAR**

273 C.I., (4.5L), OHV, GAS, FI, 16 Valve, Vin 3, 5, 8 "Cadillac"
1988-92 V8 273 CID

273-8 **142**
BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-89	SB1625-1 1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1990-92	
	Exh	1988-89	SB1812-12 SB1375-1 1 ¹³ / ₁₆ O.D., 1 ⁵ / ₈ I.D., ⁷ / ₃₂ Depth 1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material
		1990-92	SB1562-1 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Stem Seal	Both	1988-92	122-1203 Positive Type, Viton Material, Metal Clad Style
Guide	Both	1988-92	140-5606 0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1988-92	140-9606 0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both	1988-92	160-1103 1.950 Length, VIN 5, 3
Lifter	Both	1988-92	VL115 Hydraulic Roller Type, Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Push Rod	Both	1988-92	190-1427 7.635 Length

281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin 9, S, "L37 Northstar"
1993-11 V8 281 CID

GMC4.6-L37 **143**
BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-99	SB1437-74 1 ⁷ / ₁₆ O.D., 1.162 I.D., 0.2300 Depth
	Exh	1993-99		SB1312-67 1^{5}/_{16} O.D., 1.042 I.D., 0.2380 Depth
Valve	Int	1993-99	01707 1.308 Head Diameter
		2000-11	02053 1.426 Head Diameter
	Exh	1993-99	01706 1.142 Head Diameter
		2000-11	13243 1.142 Head Diameter, Inconel
Keeper	Both	1993-11	121-1081 1 RD Bead Type
Stem Seal	Both	1993-99	122-1288 Positive Type, Viton Material, Top Hat Style
		2000-11	122-1349 Positive Type, Viton Material, Top Hat Style
Guide	Int	1993-99	140-8666 0.2355 I.D., 1.700 Length, 0.4333 O.D., W/ Snap Ring
		2000-11		140-3056 0.2350 I.D., 1.700 Length, 0.4333 O.D.
	Exh	1993-99	140-8668 0.2365 I.D., 1.500 Length, 0.4333 O.D., W/ Snap Ring
		2000-11	140-3057 0.2350 I.D., 1.500 Length, 0.4333 O.D.
Spring	Both	1993-99	160-1366 1.557 Length
		2000-11	160-1634 1.656 Length
Lifter	Both	1993-99	VL124 Hydraulic Bucket Type
		2000-11	VL175 Hydraulic Lash Adjuster Type

281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin 6, Y, "LD8 Northstar"
1993-11 V8 281 CID

GMC4.6-LD8 **144**
BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-99	SB1437-74 1 ⁷ / ₁₆ O.D., 1.162 I.D., 0.2300 Depth
	Exh	1993-99		SB1312-67 1^{5}/_{16} O.D., 1.042 I.D., 0.2380 Depth
Valve	Int	1993-99	01707 1.308 Head Diameter
		2000-11	02053 1.426 Head Diameter
	Exh	1993-99	01706 1.142 Head Diameter
		2000-11	13243 1.142 Head Diameter, Inconel
Keeper	Both	1993-11	121-1081 1 RD Bead Type

GM / PASSENGER CAR (Cont'd)

144 281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin 6, Y, "LD8 Northstar"
(cont.) 1993-11 V8 281 CID

GMC4.6-LD8
BORE - 93mm/3.66"

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1993-99	122-1288	Positive Type,Viton Material,Top Hat Style
		2000-11	122-1349	Positive Type,Viton Material,Top Hat Style
Guide	Int	1993-99	140-8666	0.2355 I.D.,1.700 Length,0.4333 O.D.,W/ Snap Ring
		2000-11	140-3056	0.2350 I.D.,1.700 Length,0.4333 O.D.
	Exh	1993-99	140-8668	0.2365 I.D.,1.500 Length,0.4333 O.D.,W/ Snap Ring
		2000-11	140-3057	0.2350 I.D.,1.500 Length,0.4333 O.D.
Spring	Both	1993-99	160-1366	1.557 Length
		2000-11	160-1634	1.656 Length
Lifter	Both	1993-99	VL124	Hydraulic Bucket Type
		2000-11	VL175	Hydraulic Lash Adjuster Type

145 281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin A "LH2 Northstar"
2004-10 V8 281 CID

GMC4.6-LH2
BORE - 93mm/3.66"

PART		YEARS	PART NO.	NOTES
Valve	Int	2004-10	02053	1.426 Head Diameter
		2004-10	13243	1.142 Head Diameter,Inconel
Keeper	Both	2004-10	121-1081	1 RD Bead Type
		2004-10	121-1081	1 RD Bead Type
Stem Seal	Both	2004-10	122-1349	Positive Type,Viton Material,Top Hat Style
Guide	Int	2004-10	140-3056	0.2350 I.D.,1.700 Length,0.4333 O.D.
		2004-10	140-3057	0.2350 I.D.,1.500 Length,0.4333 O.D.
Spring	Both	2004-10	160-1634	1.656 Length
Lifter	Both	2004-10	VL175	Hydraulic Lash Adjuster Type

146 283 C.I., (4.6L), OHV, GAS, CARB, 16 Valve
1957-67 V8 283 CID

GMC283
BORE - 98.4mm/3.88"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1957-67	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
		1957-67	SB1562-2	1 ⁷ / ₁₆ O.D.,1 ¹⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1957-67	00399	1.720 Head Diameter,+15 O/S Stem Available
		1957-67	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1957-67	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1957-67	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1957-67	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1957-67	121-1003	1 SQ Bead Type
Stem Seal	Both	1957-67	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1957-67	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1957-67	122-1075	Positive Type,Viton Material, Ring & Band Style
		1957-67	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1957-67	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1957-67	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1957-67	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
	Exh	1957-67	140-7459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1957-67	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

(Cont'd) **GM / PASSENGER CAR**

283 C.I., (4.6L), OHV, GAS, CARB, 16 Valve
1957-67 V8 283 CID

GMC283 146
BORE - 98.4mm/3.88" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both 1957-67	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both 1957-66 1960-62 1967-67 1967-67 1967-67	160-1125 160-1117 160-1144 160-1144HP 160-1407	2.050 Length,W/ Damper,W/O Two 4 Bbl. Carbs. 2.030 Length,W/ Two 4 Bbl. Carbs. 2.048 Length,W/ Damper 2.023 Length,W/ Damper,Hi-Perf. 2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh 1957-67	161-1012	
Lifter	Both 1957-67 1957-67 1957-67	VL37 VL63 VL66RH	Hydraulic Type,Exc. Hi Lift Cam Mechanical High Performance Type Hydraulic High Performance Type
Rocker Components	Both 1957-67 1957-67 1957-67 1957-67 1957-67 1957-67 1957-67 1957-67	180-1228 180-1239 180-1283 181-1011 181-1049 181-1061 183-1017 183-1032 184-1038	Rocker Arm Rocker Arm, Stamped, Long Slot Rocker Arm, Rail Type,Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional Smooth Ball, 3/8 Grooved Ball, 3/8 Nut, 3/8
Push Rod	Both 1957-67	192-1331	7.798 Length
Head Bolt Set	1957-67	220-1018	This bolt is NOT Torque to Yield,2 Required
Head Saver Shim	1957-67	230-2028	New Hgt. - Min. Hgt. N/A

300 C.I., (4.9L), OHV, GAS, CARB, 16 Valve "Buick"
1964-67 V8 300 CID

GMC300 147
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1964-67 Exh 1964-67	SB1875-6 SB1437-3	17/8 O.D.,1 5/8 I.D.,7/32 Depth 17/16 O.D.,1 3/16 I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh 1964-67	00976	1.375 Head Diameter
Guide	Int 1965-67 1965-67 Exh 1965-67	140-5607 140-9607 140-9460	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U) 0.3430 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9460H)
Spring	Both 1965-67	160-1133	2.030 Length
Push Rod	Both 1965-67	190-1349	8.723 Length

300 C.I., (4.9L), OHV, GAS, FI, 16 Valve, Vin B "Cadillac"
1991-95 V8 300 CID

300B 148
BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1991-95 Exh 1991-95	SB1875-6 SB1562-1	17/8 O.D.,1 5/8 I.D.,7/32 Depth 19/16 O.D.,1 5/16 I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

GM / PASSENGER CAR (Cont'd)

148 300 C.I., (4.9L), OHV, GAS, FI, 16 Valve, Vin B "Cadillac"
(cont.) 1991-95 V8 300 CID

300B
BORE - 92mm/3.62"

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1991-95	122-1203	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1991-95	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1991-95	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1991-93	160-1103	1.950 Length
Lifter	Both	1991-95	VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Push Rod	Both	1991-95	190-1427	7.635 Length

149 301 C.I., (4.9L), OHV, GAS, CARB, 16 Valve, Vin W, Y
1977-81 V8 301 CID

301WY
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1977-81	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1977-81	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1977-81	01362	1.720 Head Diameter
	Exh	1977-81	01361	1.500 Head Diameter
Keeper	Both	1977-81	121-1003	1 SQ Bead Type
Stem Seal	Both	1977-81	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1977-81	122-1047	Positive Type,Poly Material,2-Ring Style
		1977-81	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1977-81	140-6523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1977-81	140-9523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9523H)
Spring	Both	1977-81	160-1125	2.050 Length,W/ Damper
Lifter	Both	1977-81	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1977-81	VL73	Hydraulic Type
Rocker Components	Both	1977-81	181-1020	Rocker Arm Kit, Includes (1) Rocker Arm (1) Grooved Ball, (1) ³ / ₈ Nut
		1977-81	184-1038	Nut, ³ / ₈
Push Rod	Both	1977-78	192-1439	8.092 Length
		1979-81	192-1446	8.045 Length

150 302 C.I., (4.9L), OHV, GAS, CARB, 16 Valve "Chevrolet"
1967-69 V8 302 CID

GMC302
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1967-69	SB2125-34	2 ¹ / ₈ O.D.,1 ⁷ / ₈ I.D., ⁷ / ₃₂ Depth
	Exh	1967-69	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1967-69	00988	2.020 Head Diameter
	Exh	1967-69	00919	1.600 Head Diameter
Keeper	Both	1967-69	121-1003	1 SQ Bead Type
Stem Seal	Both	1967-69	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1967-69	122-1043	O-Ring Type,Nitrile Material,O-Ring Style

(Cont'd) **GM / PASSENGER CAR**

302 C.I., (4.9L), OHV, GAS, CARB, 16 Valve "Chevrolet"
1967-69 V8 302 CID

GMC302 150
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1967-69	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1967-69	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1967-69	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1967-69	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1967-69	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1967-69	160-1144	2.048 Length,W/ Damper
		1967-69	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1967-69	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	1967-69	VL37	Hydraulic Type
		1967-69	VL63	Mechanical High Performance Type
Rocker Components	Both	1967-69	180-1228	Rocker Arm
		1967-69	180-1239	Rocker Arm, Stamped, Long Slot
		1967-69	180-1283	Rocker Arm, Rail Type,Optional
		1967-69	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1967-69	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1967-69	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1967-69	183-1017	Smooth Ball, 3/8
		1967-69	183-1032	Grooved Ball, 3/8
1967-69	184-1038	Nut, 3/8		
Push Rod	Both	1967-69	192-1331	7.798 Length
Head Bolt Set		1967-69	220-1018	This bolt is NOT Torque to Yield,2 Required
Head Saver Shim		1967-69	230-2028	New Hgt. - Min. Hgt. N/A

305 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin G, H, Q
1976-88 V8 305 CID

305GQH 151
BORE - 94.9mm/3.74"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1976-88	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,W/ 1.720 Valve Head Dia.
		1979-79	SB1937-17	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,W/ 1.840 Valve Head Dia.
	Exh	1976-88	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1976-88	01193	1.720 Head Diameter,1976-78 All, 1979 2 Bbl. Carb., +3 & +15 O/S Stem Available
		1979-79	01393	1.840 Head Diameter,4 Bbl. Carb., +3 & +15 O/S Stem Available
	Exh	1976-80	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1976-80	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
		1981-88	01192	1.500 Head Diameter,Chrome Plated, +3 & +15 O/S Stem Available
Keeper	Both	1976-88	121-1003	1 SQ Bead Type
Stem Seal	Int	1976-88	122-1075	Positive Type,Viton Material, Ring & Band Style
	Exh	1976-88	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1976-88	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1976-88	122-1043	O-Ring Type,Nitrile Material,O-Ring Style

GM / PASSENGER CAR (Cont'd)

151 305 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin G, H, Q
(cont.) 1976-88 V8 305 CID

305GQH
BORE - 94.9mm/3.74"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1976-88	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1976-88	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1976-88	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1976-88	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1976-88	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1976-88	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1976-88	160-1009	1.910 Length,W/ Damper
	Both	1976-88	160-1144	2.048 Length,W/ Damper,Exc. 1976-77 Exh
		1976-88	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1976-88	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1976-87	161-1012	
Lifter	Both	1976-87	VL37	Hydraulic Type
		1988-88	VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1976-88	180-1228	Rocker Arm
		1976-88	180-1239	Rocker Arm, Stamped, Long Slot
		1976-88	180-1283	Rocker Arm, Rail Type,Optional
		1976-88	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1976-88	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1976-88	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1976-88	183-1017	Smooth Ball, 3/8
		1976-88	183-1032	Grooved Ball, 3/8
		1976-88	184-1038	Nut, 3/8
Push Rod	Both	1976-88	192-1331	7.798 Length
Head Bolt Set		1976-88	220-1018	This bolt is NOT Torque to Yield,2 Required

152 305 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin E, F
1985-93 V8 305 CID

305EF
BORE - 94.9mm/3.74"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-93	SB1937-17	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D.,7/32 Depth
	Exh	1985-93	SB1562-1	1 ¹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1985-93	01393	1.840 Head Diameter,+3 & +15 O/S Stem Available
	Exh	1985-93	01192	1.500 Head Diameter,+3 & +15 O/S Stem Available
Keeper	Both	1985-93	121-1003	1 SQ Bead Type
Stem Seal	Int	1985-93	122-1075	Positive Type,Viton Material,Ring & Band Style
	Exh	1985-93	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1985-93	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1985-93	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1985-93	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems

(Cont'd) GM / PASSENGER CAR**305 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin E, F**
1985-93 V8 305 CID**305EF 152**
BORE - 94.9mm/3.74" (cont.)

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1985-93	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1985-93	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1985-93	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1985-93	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1985-93	160-1144	2.048 Length,W/ Damper
		1985-93	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1985-93	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1985-93	161-1012	
Lifter	Both	1985-88	VL37	Hydraulic Type
		1987-93	VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1985-93	180-1228	Rocker Arm
		1985-93	180-1239	Rocker Arm, Stamped, Long Slot
		1985-93	180-1283	Rocker Arm, Rail Type,Optional
		1985-93	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut
		1985-93	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) $\frac{3}{8}$ Nut,High Perf., W/ 1.5:1 Ratio
		1985-93	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) $\frac{3}{8}$ Nut,Optional
		1985-93	183-1017	Smooth Ball, $\frac{3}{8}$
		1985-93	183-1032	Grooved Ball, $\frac{3}{8}$
1985-93	184-1038	Nut, $\frac{3}{8}$		
Push Rod	Both	1985-88	192-1331	7.798 Length
		1987-93	192-1485	7.195 Length,W/ Hyd. Roller Lifters
Head Bolt Set		1985-93	220-1018	This bolt is NOT Torque to Yield,2 Required

307 C.I., (5.0L), OHV, GAS, CARB, Vin F
1968-73 V8 307 CID**307F 153**
BORE - 98.4mm/3.88"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-73	SB1812-3	1 $\frac{13}{16}$ O.D.,1 $\frac{1}{2}$ T I.D., $\frac{7}{32}$ Depth
	Exh	1968-73	SB1562-2	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ T I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1968-73	00399	1.720 Head Diameter,+15 O/S Stem Available
		1968-73	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1968-73	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1968-73	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	1968-73	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available	
Keeper	Both	1968-73	121-1003	1 SQ Bead Type
Stem Seal	Int	1968-73	122-1075	Positive Type,Viton Material,Ring & Band Style
	Exh	1968-73	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1968-73	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1968-73	122-1043	O-Ring Type,Nitrile Material,O-Ring Style

GM / PASSENGER CAR (Cont'd)

153 307 C.I., (5.0L), OHV, GAS, CARB, Vin F
(cont.) 1968-73 V8 307 CID

307F
BORE - 98.4mm/3.88"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1968-73	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1968-73	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1968-73	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1968-73	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1968-73	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh Both	1972-73	160-1009	1.910 Length,W/ Damper
		1968-73	160-1144	2.048 Length,W/ Damper,Exc. 1972-73 Exh
		1968-73	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1968-73	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	1968-73	VL37	Hydraulic Type
Rocker Components	Both	1968-73	180-1228	Rocker Arm
		1968-73	180-1239	Rocker Arm, Stamped, Long Slot
		1968-73	180-1283	Rocker Arm, Rail Type,Optional
		1968-73	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1968-73	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1968-73	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1968-73	183-1017	Smooth Ball, 3/8
		1968-73	183-1032	Grooved Ball, 3/8
1968-73	184-1038	Nut, 3/8		
Push Rod	Both	1968-73	192-1331	7.798 Length
Head Bolt Set		1968-73	220-1018	This bolt is NOT Torque to Yield,2 Required

154 307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin 9 "Oldsmobile"
1984-87 V8 307 CID

307-9
BORE - 96.5mm/3.80"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-87	SB1875-2	1 ⁷ / ₈ O.D.,1 ¹ / ₁₆ I.D.,1/4 Depth
	Exh	1984-87	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1984-87	01450	1.750 Head Diameter
Keeper	Both	1984-87	121-1003	1 SQ Bead Type
Stem Seal	Both	1984-87	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1984-87	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1984-87	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1984-87	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1984-87	140-9873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1984-87	160-1006	1.960 Length,Exc. 1985-87 VIN 9
		1985-87	160-1049	2.010 Length,W/ Damper
Lifter	Both	1984-85	VL49	Hydraulic Type,Exc.Hi-Perf.
		1985-87	VL114	Hydraulic Roller Type
Rocker Components	Both	1984-87	181-1059	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge

(Cont'd) **GM / PASSENGER CAR**

307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin 9 "Oldsmobile"
1984-87 V8 307 CID

307-9 **154**

BORE - 96.5mm/3.80" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1984-87	183-1014	Fulcrum, Short
		1984-87	183-1027	Fulcrum, Long
		1984-87	183-1028	Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
Push Rod	Both	1984-85	190-1438	8.245 Length
		1985-87	190-1489	7.702 Length,W/ Roller Lifters

307 C.I., (5.0L), OHV, GAS, CARB, 16 Valve, Vin Y "Oldsmobile"
1980-90 V8 307 CID

307Y **155**

BORE - 96.5mm/3.80"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1980-90	SB1875-2	1 ⁷ / ₈ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth
	Exh	1980-90	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1980-90	01450	1.750 Head Diameter
	Exh	1980-90	01354	1.502 Head Diameter
Keeper	Both	1980-90	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-90	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1980-90	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1980-90	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1980-90	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Both	1980-90	140-6873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1980-90	140-9873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1980-90	160-1006	1.960 Length
Lifter	Both	1980-85	VL49	Hydraulic Type, Exc. Hi-Perf.
		1986-90	VL114	Hydraulic Roller Type
Rocker Components	Both	1980-90	181-1059	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1980-90	183-1014	Fulcrum, Short
		1980-90	183-1027	Fulcrum, Long
		1980-90	183-1028	Bridge, When Replacing, Fulcrum # 183-1027 Must Also Be Used
Push Rod	Both	1980-85	190-1438	8.245 Length
		1986-90	190-1489	7.702 Length, W/ Roller Lifters

323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin C , Active Fuel Mgmt., "LS4 Vortec Gen IV Aluminum Block"
2005-09 V8 323 CID

156

GMC5.3-LS4

BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2005-09	SB2062-51	2 ¹ / ₁₆ O.D., 1.750T I.D., 0.3900 Depth, Also Available In Non-Magnetic (N) Material
	Exh	2005-09	SB1625-64	1 ⁵ / ₈ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	2005-08	02000	2.000 Head Diameter
		2009-09	02267	2.000 Head Diameter
	Exh	2005-09	01935	1.551 Head Diameter
Keeper	Both	2005-09	121-1085	1 RD Bead Type
Stem Seal	Int	2005-09	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2005-09	122-1338	Positive Type, Viton Material, Top Hat Style

GM / PASSENGER CAR (Cont'd)

156 323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin C , Active Fuel Mgmt., "LS4

(cont.) Vortec Gen IV Aluminum Block"

GMC5.3-LS4

2005-09

V8 323 CID

BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Guide	Both	2005-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2005-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2005-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2008-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2005-09	160-1488	2.126 Length,Conical
Lifter	Both	2005-09	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2005-09	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2005-09	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2005-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2005-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2005-09	190-1537	7.397 Length
Head Bolt Set		2005-09	220-1103	Torque To Yield,NOTE: Services Engine

157 324 C.I., (5.3L), OHV, GAS, CARB, 16 Valve "Oldsmobile"

OLDS324

1954-56

V8 324 CID

BORE - 98.5mm/3.88"

PART	YEARS	PART NO.	NOTES	
Guide	Int Exh	1954-56	140-1821	0.3450 I.D.,2.374 Length,0.6578 O.D.
		1954-56	140-1878	0.3973 I.D.,2.375 Length,0.6580 O.D.

158 326 C.I., (5.3L), OHV, GAS, CARB, 16 Valve "Pontiac"

326PON

1963-67

V8 326 CID

BORE - 94.5mm/3.72"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1965-67	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
		1965-67	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1963-67	121-1003	1 SQ Bead Type
Guide	Int	1963-67	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1963-67	140-7272	0.3440 I.D.,2.250 Length,0.5640 O.D.
		1963-67	140-7946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1963-67	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1963-67	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1963-67	140-7271	0.3440 I.D.,2.375 Length,0.5640 O.D.
		1963-67	140-7459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1963-67	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

(Cont'd) **GM / PASSENGER CAR**

326 C.I., (5.3L), OHV, GAS, CARB, 16 Valve "Pontiac"
1963-67 V8 326 CID

326PON 158
BORE - 94.5mm/3.72" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Exh	1963-67	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1963-64	160-1118	1.980 Length,Outer
		1963-64	160-1119	1.760 Length,Inner
		1965-67	160-1136	1.760 Length,Inner
		1965-67	160-1137	1.940 Length,Outer
Lifter	Both	1963-67	VL49	Hydraulic Type,Exc.Hi-Perf.
Push Rod	Both	1963-67	190-1433	8.686 Length>Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available,W/O Guide Plates

327 C.I., (5.3L), OHV, GAS, CARB, FI, 16 Valve "Chevrolet HP, SHP"
1962-69 V8 327 CID

327HP 159
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1962-64	SB2000-7	2.000 O.D.,1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth,W/ 1.940 Valve Head Dia.
		1965-69	SB2125-34	2 ¹ / ₈ O.D.,1 ⁷ / ₈ I.D., ⁷ / ₃₂ Depth,W/ 2.020 Valve Head Dia.
	Exh	1962-64	SB1562-2	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material,W/ 1.500 Valve Head Dia.
		1962-64	SB1562-7	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ¹ / ₄ Depth,Optional Straight I.D. W/1.500 Valve Head Dia.
Valve	Int	1962-64	00696	1.940 Head Diameter
		1965-69	00988	2.020 Head Diameter
	Exh	1962-64	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1965-69	00919	1.600 Head Diameter
Keeper	Both	1962-69	121-1003	1 SQ Bead Type
Stem Seal	Int	1962-69	122-1075	Positive Type,Viton Material, Ring & Band Style
	Exh	1962-69	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1962-69	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1962-69	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1962-69	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1962-69	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
1962-69	122-1270	Umbrella Type,Viton Material,Umbrella Style		
Guide	Int	1962-69	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1962-69	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1962-63	140-7459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1962-63	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		1964-69	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1964-69	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1962-66	160-1125	2.050 Length,W/ Damper
		1967-69	160-1144	2.048 Length,W/ Damper
		1967-69	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1967-69	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1962-69	161-1012	

GM / PASSENGER CAR (Cont'd)

159 327 C.I., (5.3L), OHV, GAS, CARB, FI, 16 Valve "Chevrolet HP, SHP"

327HP

(cont.) 1962-69

V8 327 CID

BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Lifter	Both	1962-69	VL63	Mechanical High Performance Type
Rocker Components	Both	1962-69	180-1228	Rocker Arm
		1962-69	180-1239	Rocker Arm, Stamped, Long Slot
		1962-69	180-1283	Rocker Arm, Rail Type,Optional
		1962-69	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1962-69	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1962-69	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1962-69	183-1017	Smooth Ball, 3/8
		1962-69	183-1032	Grooved Ball, 3/8
		1962-69	184-1038	Nut, 3/8
Push Rod	Both	1962-69	192-1331	7.798 Length
Head Bolt Set		1962-69	220-1018	This bolt is NOT Torque to Yield,2 Required

160 327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve "Chevrolet Standard"

327STD

1962-69

V8 327 CID

BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1962-65	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth,Use W/ 1.720 Head Dia.
		1965-69	SB2000-7	2.000 O.D.,1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Use W/ 1.940 Head Dia.
	Exh	1962-69	SB1562-2	1 ¹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
		1962-69	SB1562-7	1 ¹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ¹ / ₄ Depth,Optional Staight I.D.
Valve	Int	1962-65	00399	1.720 Head Diameter,+15 O/S Stem Available
		1965-69	00696	1.940 Head Diameter
	Exh	1962-69	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1962-69	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1962-69	121-1003	1 SQ Bead Type
Stem Seal	Int	1962-69	122-1075	Positive Type,Viton Material,Ring & Band Style
		1962-69	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1962-69	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1962-69	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1962-69	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
	1962-69	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems	
	1962-69	122-1270	Umbrella Type,Viton Material,Umbrella Style	
Guide	Int	1962-69	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1962-69	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1962-69	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1962-69	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1962-66	160-1125	2.050 Length,W/ Damper
		1967-69	160-1144	2.048 Length,W/ Damper
		1967-69	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1967-69	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1962-69	161-1012	

(Cont'd) GM / PASSENGER CAR**327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve "Chevrolet Standard"**
1962-69 V8 327 CID**327STD 160**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1962-69 1962-69	VL37 VL63	Hydraulic Type Mechanical High Performance Type
Rocker Components	Both	1962-69 1962-69 1962-69 1962-69 1962-69 1962-69 1962-69 1962-69 1962-69	180-1228 180-1239 180-1283 181-1011 181-1049 181-1061 183-1017 183-1032 184-1038	Rocker Arm Rocker Arm, Stamped, Long Slot Rocker Arm, Rail Type,Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional Smooth Ball, 3/8 Grooved Ball, 3/8 Nut, 3/8
Push Rod	Both	1962-69	192-1331	7.798 Length
Head Bolt Set		1962-69	220-1018	This bolt is NOT Torque to Yield,2 Required
Head Saver Shim		1962-69	230-2028	New Hgt. - Min. Hgt. N/A

330 C.I., (5.4L), OHV, GAS, CARB, 16 Valve "Oldsmobile"
1964-67 V8 330 CID**GMC330 161**
BORE - 100mm/3.94"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-67	SB2000-1	2.000 O.D.,13/4 I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material
	Exh	1964-67	SB1687-2	111/16 O.D.,17/16 I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1964-67	00969	1.875 Head Diameter
	Exh	1964-67	00970	1.562 Head Diameter
Keeper	Both	1964-67	121-1003	1 SQ Bead Type
Stem Seal	Both	1964-67	122-1074	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1964-67	140-9873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1964-67	160-1147	1.960 Length,W/ Damper,1964 W/ Stamped Steel Rocker Arms, 1965-67 All
Lifter	Both	1964-67	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1964-67 1964-67 1964-67	181-1057 183-1027 183-1028	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Long Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
Push Rod	Both	1964-64	190-1411	8.234 Length

340 C.I., (5.6L), OHV, GAS, CARB, 16 Valve " Buick "
1966-67 V8 340 CID**GMC340 162**
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1966-67	SB1875-6	17/8 O.D.,15/8 I.D.,7/32 Depth
	Exh	1966-67	SB1437-3	17/16 O.D.,19/16 I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1966-67	00976	1.375 Head Diameter
Guide	Int	1966-67	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)

GM / PASSENGER CAR (Cont'd)

162 340 C.I., (5.6L), OHV, GAS, CARB, 16 Valve " Buick "
(cont.) 1966-67 V8 340 CID

GMC340
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1966-67	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1966-67	140-7460	0.3430 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1966-67	140-9460	0.3430 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9460H)
Spring	Both	1966-67	160-1133	2.030 Length
Push Rod	Both	1966-67	190-1328	9.355 Length

163 346 C.I., (5.7L), GAS, CARB, 16 Valve "Cadillac"
1946-48 V8 346 CID

346CAD
BORE - 88.9mm/3.50

PART	YEARS	PART NO.	NOTES	
Guide	Both	1946-48	140-1411	0.3440 I.D.,3.078 Length,0.6890 O.D.

164 350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin H, J, X, "Buick"
1968-80 V8 350 CID

350HJX
BORE - 96.5mm/3.80"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-80	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1968-80	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1968-80	01082	1.875 Head Diameter
	Exh	1968-74	01188	1.500 Head Diameter
		1975-80	01320	1.550 Head Diameter
Keeper	Both	1968-80	121-1002	No Bead Bead Type
Stem Seal	Both	1968-80	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1968-80	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1968-80	122-1047	Positive Type,Poly Material,2-Ring Style
		1968-80	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1968-80	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		1968-80	140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
	Exh	1968-80	140-6113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1968-80	140-9113	0.3745 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Exh	1971-80	160-1001	2.066 Length,W/ Damper
	Both	1968-80	160-1000	2.130 Length,Exc. 1971-80 Exh.
Lifter	Both	1968-69	VL5	Hydraulic Type
		1970-80	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1970-80	VL73	Hydraulic Type
Rocker Components	Both	1968-80	180-1040	Rocker Arm, Stamped Steel,R.H., Use W/ Retainer 187-1014
		1968-80	180-1041	Rocker Arm, Stamped Steel,L.H., Use W/ Retainer 187-1014
		1968-80	187-1014	Retainer,Use W/ Stamped Steel Rocker Arm
Push Rod	Both	1968-80	192-1330	9.682 Length

(Cont'd) **GM / PASSENGER CAR**

350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve "Pontiac"
1968-77 V8 350 CID

350P2 165
BORE - 98.4mm/3.88"

PART	YEARS	PART NO.	NOTES			
Valve Seat Insert	Int	1968-77	SB2125-2	2 1/8 O.D., 1 7/8 I.D., 1/4 Depth, W/ 2.110 Valve Head Dia. 2.000 O.D., 1 3/4 I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.960 Valve Head Dia. 1 13/16 O.D., 1 9/16 I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.770 Valve Head Dia. 1 3/4 O.D., 1 1/2 I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.660 Valve Head Dia.		
		1970-74	SB2000-1			
	Exh	1968-72	SB1812-1			
		1970-77	SB1750-2			
Valve	Int	1968-69	01098	2.110 Head Diameter, 5.098 Overall Length, 4 Bbl. Carb. 1.960 Head Diameter, 4.980 Overall Length 2.110 Head Diameter, 4.979 Overall Length 1.770 Head Diameter, 5.093 Overall Length, 4 Bbl. Carb. 1.660 Head Diameter, 4.984 Overall Length 1.770 Head Diameter, 4.970 Overall Length 1.660 Head Diameter, 4.959 Overall Length		
		1970-74	01296			
		1975-77	01161			
	Exh	1968-69	01097			
		1970-71	01093			
		1972-72	01160			
		1973-77	01245			
	Keeper	Both	1968-77		121-1003	1 SQ Bead Type
	Stem Seal	Both	1968-77		122-1037	Umbrella Type, Poly Material, Umbrella Style O-Ring Type, Nitrile Material, O-Ring Style Positive Type, Poly Material, 2-Ring Style Umbrella Type, Viton Material, Umbrella Style
			1968-77		122-1043	
1968-77			122-1047			
1968-77			122-1270			
Guide	Int	1968-77	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U) 0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U) 0.3430 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)		
		1968-77	140-5606			
	Exh	1968-77	140-7946			
		1968-77	140-9606			
Spring	Both	1968-68	160-1156	2.112 Length, Inner W/ Ram Air 2.100 Length, Outer W/ Ram Air 1.760 Length, Inner 1.940 Length, Outer		
		1968-68	160-1157			
		1968-77	160-1136			
		1968-77	160-1137			
Lifter	Both	1968-77	VL49	Hydraulic Type, Exc. 69-70 W/ Ram Air., Exc. Hi-Perf.		
Rocker Components	Both	1968-77	181-1020	Rocker Arm Kit, Includes (1) Rocker Arm (1) Grooved Ball, (1) 3/8 Nut Grooved Ball, 7/16 Nut, 3/8 Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 3/8 Nut, W/ Ram Air IV		
		1968-77	183-1021			
		1968-77	184-1038			
		1969-70	181-1025			
Push Rod	Both	1968-77	192-1229	9.136 Length, - 60 U/S (192-1229U60) Available		

350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin L "Chevrolet"
1967-82 V8 350 CID

350L 166
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1967-71	SB2000-7	2.000 O.D., 1 13/16 I.D., 7/32 Depth, W/ 1.940 Valve Head Dia. 2 1/8 O.D., 1 7/8 I.D., 7/32 Depth, W/ 2.020 Valve Head Dia., Hi-Perf. & Spec. Hi-Perf. 1 11/16 O.D., 1 7/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.600 Valve Head Dia., Hi-Perf. & Spec. Hi-Perf. 1 1/2 O.D., 1 7/32 I.D., 7/32 Depth, Optional, for Cylinder Head W/ Thin Wall Sections
		1969-77	SB2125-34	
	Exh	1967-77	SB1687-2	
		1967-82	SB1500-4	

GM / PASSENGER CAR (Cont'd)

166 350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin L "Chevrolet"

350L

(cont.) 1967-82

V8 350 CID

BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1967-82	SB1562-1	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1967-82	SB1562-36	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 9/16 Depth, Also Available In Non-Magnetic (N) Material, Optional, for Cylinder Head W/ Thin Wall Sections
		1967-82	SB1562-9	1 ¹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material, Optional, for Cylinder Head W/ Thin Wall Sections
Valve	Int	1967-82	01195	1.940 Head Diameter, Chrome Plated Exc. Hi-Perf., Special Perf., Corvette, Taxi & Police, +3 & +15 O/S Stem Available
		1968-71	00696	1.940 Head Diameter, Taxi & Police
		1969-77	00988	2.020 Head Diameter, Hi-Perf., Special Perf. & Corvette
	Exh	1967-70	00400	1.500 Head Diameter, Except Hi-Perf., +3 & +15 O/S
		1967-70	01206S	1.500 Head Diameter, Stellite Face, Optional Material, Exc. Hi-Perf., +15 O/S Stem Available
		1969-77 1971-82	00919 01192	1.600 Head Diameter, Hi-Perf., Special Perf. & Corvette 1.500 Head Diameter, Chrome Plated Exc. Hi-Perf., Special Perf., Corvette, Taxi & Police, +3 & +15 O/S Stem Available
Keeper	Both	1967-82	121-1003	1 SQ Bead Type
Stem Seal	Int	1967-82	122-1075	Positive Type, Viton Material, Ring & Band Style
	Exh	1967-82	122-1233	Umbrella Type, Nylon Material, Umbrella Style
	Both	1967-82	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1967-82	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1967-82	122-1047	Positive Type, Poly Material, 2-Ring Style
		1967-82	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
	1967-82	122-1270	Umbrella Type, Viton Material, Umbrella Style	
Guide	Int	1967-82	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1967-82	140-7946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1967-82	140-9946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Exh	1973-80	160-1009	1.910 Length, W/ Damper
	Both	1967-82	160-1144	2.048 Length, W/ Damper, Exc. 1973-80 Exh
		1967-82	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1967-82	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh	1967-82	161-1012	
Lifter	Both	1967-82	VL37	Hydraulic Type
Rocker Components	Both	1967-82	180-1228	Rocker Arm
		1967-82	180-1239	Rocker Arm, Stamped, Long Slot
		1967-82	180-1283	Rocker Arm, Rail Type, Optional
		1967-82	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1967-82	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut, High Perf., W/ 1.5:1 Ratio
		1967-82	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		1967-82	183-1017	Smooth Ball, 3/8
		1967-82	183-1032	Grooved Ball, 3/8
		1967-82	184-1038	Nut, 3/8
Push Rod	Both	1967-82	192-1331	7.798 Length
Head Bolt Set		1967-82	220-1018	This bolt is NOT Torque to Yield, 2 Required

(Cont'd) **GM / PASSENGER CAR**

350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin L "Chevrolet" **350L 166**
1967-82 V8 350 CID BORE - 101.6mm/4.00" (cont.)

PART		YEARS	PART NO.	NOTES
Head Saver Shim		1967-82	230-2028	New Hgt. - Min. Hgt. N/A

350 C.I., (5.7L), OHV, DIESEL, FI, 16 Valve, Vin N "Oldsmobile" **350N 167**
1978-85 V8 350 CID BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1978-85	SB2000-1	2.000 O.D., 1 $\frac{3}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	1978-85	SB1687-16	1 $\frac{1}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{3}{16}$ Depth
Keeper	Both	1978-85	121-1003	1 SQ Bead Type
Stem Seal	Both	1978-85	122-1037	Umbrella Type, Poly Material, Umbrella Style O-Ring Type, Nitrile Material, O-Ring Style Positive Type, Poly Material, 2-Ring Style Umbrella Type, Viton Material, Umbrella Style
		1978-85	122-1043	
		1978-85	122-1047	
		1978-85	122-1270	
Guide	Exh	1978-85	140-7946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide
	Both	1978-85	140-7562	0.3450 I.D., 2.375 Length, 0.5640 O.D., Plain I.D. Conversion Guide
Spring	Both	1980-85	160-1049	2.010 Length, W/ Damper
Lifter	Both	1980-85	VL114	Hydraulic Roller Type
Rocker Components	Both	1978-79	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Short Fulcrum, Long Bridge, When Replacing, Fulcrum # 183-1027 Must Also Be Used Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1978-85	183-1014	
		1978-85	183-1027	
		1978-85	183-1028	
		1980-85	181-1059	
Push Rod	Both	1978-79	190-1411	8.234 Length
		1980-80	190-1438	8.245 Length
		1980-85	190-1489	7.702 Length

350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin G, H, J, K, R "Rocket " **350R 168**
1968-80 V8 350 CID BORE - 103mm/4.06"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-71	SB2125-2	2 $\frac{1}{8}$ O.D., 1 $\frac{7}{8}$ I.D., $\frac{1}{4}$ Depth, W/ 1.995 Valve Head Dia. 2.000 O.D., 1 $\frac{3}{4}$ I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.875 Valve Head Dia. 1 $\frac{1}{16}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, W/ 1.624 Valve Head Dia. 1 $\frac{1}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.562 Valve Head Dia., 1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.622 Valve Head Dia. 1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.502 Valve Head Dia.
		1968-80	SB2000-1	
	Exh	1968-71	SB1687-17	
		1968-71	SB1687-2	
		1972-76	SB1750-2	
Valve	Int	1968-71	01457	1.995 Head Diameter, W/ Outside Air Induction 1.875 Head Diameter, 4.740 Overall Length, Exc. 1968-71 W/O Outside Air Induction 1.875 Head Diameter, 4.667 Overall Length 1.562 Head Diameter, W/O Outside Air Induction 1.624 Head Diameter, W/ Outside Air Induction 4.695 Overall Length 1.622 Head Diameter, 4.708 Overall Length
		1968-72	00969	
	Exh	1973-80	01263	
		1968-71	00970	
		1968-71	00974	
		1972-72	01212	

GM / PASSENGER CAR (Cont'd)

168 350 C.I., (5.7L), OHV, GAS, CARB, 16 Valve, Vin G, H, J, K, R " Rocket " 350R
 (cont.) 1968-80 V8 350 CID BORE - 103mm/4.06"

PART		YEARS	PART NO.	NOTES
Valve	Exh	1973-76	01324	1.622 Head Diameter,4.675 Overall Length
		1977-80	01354	1.502 Head Diameter,4.688 Overall Length
Keeper	Exh	1968-80	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-80	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1968-80	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1968-80	122-1047	Positive Type,Poly Material,2-Ring Style
		1968-80	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Exh	1968-80	140-7946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1968-80	140-6873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	Both	1968-80	140-9873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1968-72	160-1147	1.960 Length,W/ Damper
		1972-80	160-1006	1.960 Length,Exc. 1972 Exh W/ Damper
Lifter	Both	1968-80	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1968-79	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1968-80	183-1014	Fulcrum, Short
		1968-80	183-1027	Fulcrum, Long
		1968-80	183-1028	Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
		1980-80	181-1059	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
Push Rod	Both	1968-79	190-1411	8.234 Length
		1980-80	190-1438	8.245 Length

169 350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin 7, 8 350-7-8
 1982-93 V8 350 CID BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-93	SB2000-7	2.000 O.D., 1 ¹³ / ₁₆ I.D., 7/ ₃₂ Depth
		1982-93	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/ ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1982-93	SB1625-3	1 ⁵ / ₈ O.D., 1 ⁵ / ₁₆ I.D., 1/ ₄ Depth,Also Available In Non-Magnetic (N) Material,W/ Vortec Cylinder Head
Valve	Int	1982-93	01195	1.940 Head Diameter,+3 & +15 O/S Stem Available
	Exh	1982-93	01192	1.500 Head Diameter,+3 & +15 O/S Stem Available
Keeper	Both	1982-93	121-1003	1 SQ Bead Type
Stem Seal	Int	1985-93	122-1075	Positive Type,Viton Material,Ring & Band Style
		1982-93	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Exh	1985-93	122-1074	Positive Type,Viton Material,Ring & Band Style
		1982-84	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1982-84	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1982-84	122-1270	Umbrella Type,Viton Material,Umbrella Style
Both	1982-93	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹³ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems	
Guide	Int	1982-93	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1982-93	140-7946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide

(Cont'd) GM / PASSENGER CAR**350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin 7, 8**
1982-93 V8 350 CID**350-7-8 169****BORE - 101.6mm/4.00" (cont.)**

PART		YEARS	PART NO.	NOTES
Guide	Exh	1982-93	140-7999	0.3740 I.D.,2.200 Length,0.6205 O.D.,W/ Replaceable Exh. Guide, Use Caution When Removing Stepped O.D., NOTE: Drive Guide Out Toward Spring Seat
		1982-93	140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Both	1982-93	140-8180	0.3430 I.D.,2.275 Length,0.5577 O.D.,Aluminum Heads, +2 O/S Available
Spring	Both	1982-93	160-1144	2.048 Length,W/ Damper
		1982-93	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1982-93	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1982-93	161-1012	
Lifter	Both	1982-86	VL37	Hydraulic Type
		1987-93	VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1982-93	180-1228	Rocker Arm
		1982-93	180-1239	Rocker Arm, Stamped, Long Slot
		1982-93	180-1283	Rocker Arm, Rail Type,Optional, 88-93
		1982-93	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut
		1982-93	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) $\frac{3}{8}$ Nut,High Perf., W/ 1.5:1 Ratio
		1982-93	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) $\frac{3}{8}$ Nut,Optional
		1982-93	183-1017	Smooth Ball, $\frac{3}{8}$ Nut, $\frac{3}{8}$
Push Rod	Both	1982-93	192-1331	7.798 Length
		1987-93	192-1485	7.195 Length,W/ Hyd. Roller Lifters
Head Bolt Set		1982-93	220-1018	This bolt is NOT Torque to Yield,2 Required
Head Saver Shim		1982-93	230-2028	New Hgt. - Min. Hgt. N/A

350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin G "LS1"
1997-04 V8 350 CID**GMC5.7-LS1 170****BORE - 99mm/3.90"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1997-04	SB2062-51	2 $\frac{1}{16}$ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
	Exh	1997-04	SB1625-64	1 $\frac{5}{8}$ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material,Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1997-04	02000	2.000 Head Diameter
		1997-04	02000R-200	2.000 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ Stock Head Dia.; See Performance Catalog For More Details
		1997-04	02000R-202	2.020 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.020 Head Dia.; See Performance Catalog For More Details
	Exh	1997-04	02000R-205	2.050 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.050 Head Dia.; See Performance Catalog For More Details
		1997-04	01935	1.551 Head Diameter
		1997-04	01935R-155	1.550 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ Stock Head Dia.; See Performance Catalog For More Details

GM / PASSENGER CAR (Cont'd)

170 350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin G "LS1"
(cont.) 1997-04 V8 350 CID

GMC5.7-LS1
BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve	Exh	1997-04	01935R-157	1.570 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.020 Head Dia.; See Performance Catalog For More Details
		1997-04	01935R-160	1.600 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.050 Head Dia.; See Performance Catalog For More Details
Keeper	Both	1997-04	121-1085	1 RD Bead Type
Stem Seal	Int	2001-04	122-1337	Positive Type,Viton Material,Top Hat Style,2nd Design.
	Exh	2001-04	122-1338	Positive Type,Viton Material,Top Hat Style,2nd Design.
	Both	1997-01	122-1323	Positive Type,Viton Material,Metal Clad Style,1st Design
Guide	Both	1997-04	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		1997-04	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		1997-04	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		1997-04	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	1997-04	160-1488	2.126 Length,Conical
Lifter	Both	1997-04	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		1997-04	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	1997-04	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	1997-04	190-1537	7.397 Length
Head Bolt Set		1997-04	220-1102	Torque To Yield,1st Design; NOTE: Services Engine
		2004-04	220-1103	Torque To Yield,2nd Design; NOTE: Services Engine
Head Saver Shim		1997-04	230-2129	New Hgt.- 4.7550; Min Hgt.- 4.7320

171 350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin S "LS6"
2001-05 V8 350 CID

GMC5.7-LS6
BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2001-05	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2001-05	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material,Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2001-04	02000	2.000 Head Diameter,NOTE: Except Hollow Stem Valve
		2001-04	02000R-200	2.000 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ Stock Head Dia.; See Performance Catalog For More Details
		2001-04	02000R-202	2.020 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.020 Head Dia.; See Performance Catalog For More Details
	Exh	2001-04	02000R-205	2.050 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.050 Head Dia.; See Performance Catalog For More Details
		2001-04	01935	1.551 Head Diameter,NOTE: Except Hollow Stem Sodium Filled Valve
		2001-04	01935R-155	1.550 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ Stock Head Dia.; See Performance Catalog For More Details

(Cont'd) GM / PASSENGER CAR**350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin S "LS6"**
2001-05 V8 350 CID**GMC5.7-LS6 171**
BORE - 99mm/3.90" (cont.)

PART		YEARS	PART NO.	NOTES
Valve	Exh	2001-04	01935R-157	1.570 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.020 Head Dia.; See Performance Catalog For More Details
		2001-04	01935R-160	1.600 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.050 Head Dia.; See Performance Catalog For More Details
Keeper	Both	2001-05	121-1085	1 RD Bead Type
Stem Seal	Int	2002-05	122-1337	Positive Type,Viton Material,Top Hat Style,2nd Design
	Exh	2002-05	122-1338	Positive Type,Viton Material,Top Hat Style,2nd Design
	Both	2001-01	122-1323	Positive Type,Viton Material,Metal Clad Style,1st Design
Guide	Both	2001-05	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2001-05	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2001-05	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2001-05	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2002-05	160-1623	2.125 Length
Lifter	Both	2001-05	VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	2001-05	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2001-05	190-1537	7.397 Length
Head Bolt Set		2001-04	220-1102	Torque To Yield,1st Design; NOTE: Services Engine
		2004-05	220-1103	Torque To Yield,2nd Design; NOTE: Services Engine

350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin P "LT1 Aluminum Heads"
1992-97 V8 350 CID**GMC5.7-LT1_A 172**
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve	Int	1992-93	01195	1.940 Head Diameter,NOTE: 4.880 Overall Length, W/ Seal Groove ; + 3 & +15 O/S Stem Available
		1994-97	01931	1.940 Head Diameter,1 Groove,NOTE: 4.880 Overall Length, W/O Oil Seal Groove; +15 O/S Stem Available
	Exh	1992-93	01809	1.500 Head Diameter,NOTE: 4.904 Overall Length
		1994-97	01807	1.500 Head Diameter,1 Groove,NOTE: 4.920 Overall Length; +15 O/S Available
		1994-97	01807S	1.500 Head Diameter,Stellite Face,NOTE: 4.920 Overall Length, Optional; +15 O/S Stem Available
Keeper	Both	1992-97	121-1003	1 SQ Bead Type
Stem Seal	Both	1992-93	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1992-93	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1992-93	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use 122-1238 +15 For Oversize Stems
		1992-93	122-1270	Umbrella Type,Viton Material,Umbrella Style
		1994-97	122-1260	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-97	140-8180	0.3430 I.D.,2.275 Length,0.5577 O.D.,+2 O/S Available
Spring	Both	1992-97	160-1427	2.016 Length

GM / PASSENGER CAR (Cont'd)

172 350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin P "LT1 Aluminum Heads" GMC5.7-LT1_A
 (cont.) 1992-97 V8 350 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Lifter	Both	1992-97 VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1992-97 1992-97 1992-97 1992-97 1992-97 1992-97 1992-97 1992-97 1992-97 180-1228 180-1239 180-1283 181-1011 181-1049 181-1061 183-1017 183-1032 184-1038	Rocker Arm Rocker Arm, Stamped, Long Slot,High Perf., W/ 1.5:1 Ratio Rocker Arm, Rail Type,Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional Smooth Ball, 3/8 Grooved Ball, 3/8 Nut, 3/8
Push Rod	Both	1992-97 192-1485	7.195 Length
Head Bolt Set		1992-97 220-1018	This bolt is NOT Torque to Yield,2 Required
Head Saver Shim		1992-97 230-2128	New Hgt.- Min. Hgt - N/A

173 350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin P "LT1 Cast Iron Heads" GMC5.7-LT1_C
 1994-96 V8 350 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1994-96 1994-96 SB2000-36 SB1562-1	2.000 O.D.,1 1/4 I.D.,3/16 Depth 1 1/16 O.D.,1 5/16 I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	1994-96 1994-96 1994-96 01931 01807 01807S	1.940 Head Diameter,1 Groove,NOTE: +15 O/S Stem Available 1.500 Head Diameter,1 Groove,NOTE: +15 O/S Stem Available 1.500 Head Diameter,Stellite Face,NOTE: Optional; +15 O/S Stem Available
Keeper	Both	1994-96 121-1003	1 SQ Bead Type
Stem Seal	Both	1994-96 122-1260	Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh Both	1994-96 1994-96 1994-96 1994-96 1994-96 140-9867 140-7946 140-9946 140-5607 140-9607	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U) 0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide 0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2) 0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1994-96 160-1266	2.040 Length
Lifter	Both	1994-96 VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1994-96 1994-96 1994-96 180-1228 180-1239 180-1283	Rocker Arm Rocker Arm, Stamped, Long Slot,High Perf., W/ 1.5:1 Ratio Rocker Arm, Rail Type,Optional

(Cont'd) GM / PASSENGER CAR

350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin P "LT1 Cast Iron Heads" GMC5.7-LT1_C 173
 1994-96 V8 350 CID BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1994-96	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1994-96	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut, High Perf., W/ 1.5:1 Ratio
		1994-96	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		1994-96	183-1017	Smooth Ball, 3/8
		1994-96	183-1032	Grooved Ball, 3/8
		1994-96	184-1038	Nut, 3/8
Push Rod	Both	1994-96	192-1485	7.195 Length
Head Bolt Set		1994-96	220-1018	This bolt is NOT Torque to Yield, 2 Required
Head Saver Shim		1994-96	230-2128	New Hgt. - Min. Hgt - N/A

350 C.I., (5.7L), OHV, GAS, FI, 16 Valve, Vin 5 " LT4 W/ Manual Trans. " GMC5.7-LT4 174
 1996-96 V8 350 CID BORE - 98.4mm/3.88"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1996-96	121-1003	1 SQ Bead Type
Stem Seal	Both	1996-96	122-1260	Positive Type, Viton Material, Metal Clad Style
Lifter	Both	1996-96	VL115	Hydraulic Roller Type, Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Push Rod	Both	1996-96	192-1485	7.195 Length

350 C.I., (5.7L), DOHC, GAS, FI, 32 Valve, Vin J " LT5 " GMC5.7DC-LT5 175
 1990-95 V8 350 CID BORE - 99mm/3.90"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1990-95	121-1003	1 SQ Bead Type
Lifter	Both	1990-95	VL116	Hydraulic Bucket Type

364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Active Fuel Mgmt., Vin Y, "L76 Aluminum Block" GMC6.0-L76 176
 2008-09 V8 364 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2008-09	SB2250-50	2 1/4 O.D., 1 1/8 I.D., 3/8 Depth, NOTE: Universal Repair Seat, Requires 2 1/4" Cutter.
	Exh	2008-09	SB1634E-3	1.6340 O.D., 1.360T I.D., 0.3000 Depth, NOTE: Services Factory Installed Seat.
Valve	Int	2008-09	13040	2.165 Head Diameter
	Exh	2008-09	13042	1.587 Head Diameter
Keeper	Both	2008-09	121-1085	1 RD Bead Type
Stem Seal	Int	2008-09	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2008-09	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2008-09	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2008-09	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2008-09	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2008-09	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version

GM / PASSENGER CAR (Cont'd)

176 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Active Fuel Mgmt., Vin Y, "L76

(cont.) Aluminum Block"

GMC6.0-L76

2008-09

V8 364 CID

BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Lifter	Both	2008-09	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2008-09	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2008-09	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2008-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Exh	2008-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-09	190-1537	7.397 Length
Head Bolt Set		2008-09	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2008-09	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

177 364 C.I., (6.0L), OHV, FLEX, FI, 16 Valve, Active Fuel Mgmt., L77

GMC6.0-L77

2011-17

V8 364 CID

BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2011-16	SB2250-50	2¼ O.D.,17⁄8 I.D.,¾ Depth,NOTE: Universal Repair Seat, Requires 2¼" Cutter.
	Exh	2011-16	SB1634E-3	1.6340 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
Valve	Int	2011-16	13240	2.165 Head Diameter
	Exh	2011-16	13042	1.587 Head Diameter
Keeper	Both	2011-16	121-1085	1 RD Bead Type
Stem Seal	Int	2011-16	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2011-16	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-16	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2011-16	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2011-16	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2011-16	160-1488	2.126 Length,Conical
Lifter	Both	2011-16	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2011-16	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2011-16	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2011-16	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Int	2011-16	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2011-16	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Head Bolt Set		2011-16	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2011-15	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

(Cont'd) GM / PASSENGER CAR**364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin U "LS2 Vortec "**
2005-07 V8 364 CID**GMC6.0-LS2 178**
BORE - 101.2mm/3.98"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2005-07	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2005-07	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	2005-07	02000	2.000 Head Diameter
	Exh	2005-07	01935	1.551 Head Diameter
Keeper	Both	2005-07	121-1085	1 RD Bead Type
Stem Seal	Int	2005-07	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2005-07	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-07	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2005-07	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2005-07	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2005-07	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2005-07	160-1623	2.125 Length
Lifter	Both	2005-07	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2005-07	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2005-07	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2005-07	190-1537	7.397 Length
Head Bolt Set		2005-07	220-1103	Torque To Yield,NOTE: Services Engine
Head Saver Shim		2005-07	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

365 C.I., (6.0L), OHV, GAS, CARB, 16 Valve "Cadillac"
1956-58 V8 365 CID**365CAD 179**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Guide	Both	1956-58	140-1745	0.3445 I.D.,2.266 Length,0.5636 O.D.
Lifter	Both	1956-58	VL5	Hydraulic Type

368 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin 6 "Cadillac"
1980-84 V8 368 CID**368-6 180**
BORE - 96.5mm/3.80"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1980-84	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1980-84	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Keeper	Both	1980-84	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-84	122-1217	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1980-84	140-6523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1980-84	140-9523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9523H)
Spring	Both	1980-84	160-1121	2.250 Length
Lifter	Both	1980-84	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1980-84	VL73	Hydraulic Type

GM / PASSENGER CAR (Cont'd)

180 368 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin 6 "Cadillac" 368-6
 (cont.) 1980-84 V8 368 CID BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Push Rod	Both	1980-84	190-1385	10.200 Length

181 368 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin 9 "Cadillac" 368-9
 1980-84 V8 368 CID BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-84	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1980-84	SB1562-9	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Keeper	Both	1980-84	121-1003	1 SQ Bead Type
Stem Seal	Both	1980-84	122-1217	Positive Type, Viton Material, Ring & Band Style
Guide	Both	1980-84	140-6523	0.3440 I.D., 3.063 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1980-84	140-9523	0.3440 I.D., 3.063 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9523H)
Spring	Both	1980-84	160-1121	2.250 Length
Lifter	Both	1980-84	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1980-84	VL73	Hydraulic Type
Push Rod	Both	1980-84	190-1385	10.200 Length

182 371 C.I., (6.1L), OHV, GAS, CARB, 16 Valve "Oldsmobile" 371OLDS
 1957-60 V8 371 CID BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Guide	Int	1957-60	140-1821	0.3450 I.D., 2.374 Length, 0.6578 O.D.
	Exh	1957-60	140-1878	0.3973 I.D., 2.375 Length, 0.6580 O.D.

183 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Super Charged, Vin P, "LSA Aluminum Block" GMC6.2-LSA_CTS
 2009-15 V8 376 CID BORE - 103.2mm/4.06"

PART		YEARS	PART NO.	NOTES
Valve	Exh	2009-15	13042	1.587 Head Diameter
Keeper	Both	2009-15	121-1085	1 RD Bead Type
Stem Seal	Int	2009-15	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2009-15	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2009-15	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2009-15	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2009-15	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2009-15	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2009-15	160-1488	2.126 Length, Conical
Lifter	Both	2009-15	VL559	Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490
		2009-15	VL559G	Non-AFM Lifter Guide Type, Non-AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Int	2009-15	180-1336	Rocker Arm, Roller Pivot Assy., NOTE: Offset, Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion

(Cont'd) GM / PASSENGER CAR**376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Super Charged, Vin P, "LSA Aluminum Block"****183**

2009-15

V8 376 CID

GMC6.2-LSA_CTS (cont.)

BORE - 103.2mm/4.06"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Exh	2009-15	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2009-15	190-1537	7.397 Length

376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Super Charged, Vin P, "LSA Aluminum Block"**184**

2012-15

V8 376 CID

GMC6.2-LSA_ZL1

BORE - 103.2mm/4.06"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2012-15	13042	1.587 Head Diameter
Keeper	Both	2012-15	121-1085	1 RD Bead Type
Stem Seal	Int	2012-15	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2012-15	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2012-15	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2012-15	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2012-15	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2012-15	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2012-15	160-1623	2.125 Length
Lifter	Both	2012-15	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2012-15	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Int	2012-15	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2012-15	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2012-15	190-1537	7.397 Length

376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin W, Active Fuel Mgmt., "LS3 W/Auto Trans. "**185**

2008-17

V8 376 CID

GMC6.2-LS3_1A

BORE - 103.2mm/4.06"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2008-16	SB2250-50	2¼ O.D.,1⅞ I.D.,¾ Depth,NOTE: Universal Repair Seat, Requires 2¼" Cutter.
	Exh	2008-16	SB1634E-3	1.6340 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
Valve	Int	2008-16	13240	2.165 Head Diameter,NOTE: 4.870 Overall Length
	Exh	2008-16	13042	1.587 Head Diameter
Keeper	Both	2008-16	121-1085	1 RD Bead Type
Stem Seal	Int	2008-16	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2008-16	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-16	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2008-16	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2008-16	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.

GM / PASSENGER CAR (Cont'd)

185 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin W, Active Fuel Mgmt., "
(cont.) LS3 W/Auto Trans. "

GMC6.2-LS3_1A

2008-17

V8 376 CID

BORE - 103.2mm/4.06"

PART		YEARS	PART NO.	NOTES
Guide	Both	2008-16	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2008-16	160-1623	2.125 Length
Lifter	Both	2008-16	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2008-16	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2008-16	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2008-16	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
Rocker Components	Int	2008-16	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2008-16	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-16	190-1537	7.397 Length
Head Bolt Set		2008-16	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2008-13	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

186 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin W, Active Fuel Mgmt., "
LS3 W/ Manual Trans. "

GMC6.2-LS3_2M

2008-17

V8 376 CID

BORE - 103.2mm/4.06"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2008-16	SB2250-50	2¼ O.D.,17⁄8 I.D.,¾ Depth
	Exh	2008-16	SB1634E-3	1.6340 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
Valve	Int	2008-16	13239	2.165 Head Diameter,NOTE: 4.890 Overall Length
	Exh	2008-16	13042	1.587 Head Diameter
Keeper	Both	2008-16	121-1085	1 RD Bead Type
Stem Seal	Int	2008-16	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2008-16	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-16	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2008-16	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2008-16	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2008-16	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2008-16	160-1623	2.125 Length
Lifter	Both	2008-16	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2008-16	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2008-16	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2008-16	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490

(Cont'd) **GM / PASSENGER CAR**

376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin W, Active Fuel Mgmt., " **186**
LS3 W/ Manual Trans. " **GMC6.2-LS3_2M (cont.)**
2008-17 V8 376 CID **BORE - 103.2mm/4.06"**

PART	YEARS	PART NO.	NOTES	
Rocker Components	Int	2008-16	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2008-16	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-16	190-1537	7.397 Length
Head Bolt Set		2008-16	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2008-16	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin R, T, "Supercharged LS9 Aluminum Block" **187**
2009-13 V8 376 CID **GMC6.2-LS9**
BORE - 103.3mm/4.06"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2009-13	121-1085	1 RD Bead Type
Stem Seal	Int	2009-13	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2009-13	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-13	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2009-13	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2009-13	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2009-13	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2009-13	160-1623	2.125 Length
Lifter	Both	2009-13	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2009-13	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2009-13	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2009-13	190-1537	7.397 Length

376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Active Fuel Mgmt., Vin J, "L99 W/ Auto Trans." **188**
2010-15 V8 376 CID **GMC6.2-L99**
BORE - 103.2mm/4.06"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2010-15	SB2250-50	2¼ O.D.,1⅞ I.D.,⅜ Depth,NOTE: Universal Repair Seat, Requires 2¼" Cutter.
	Exh	2010-15	SB1634E-3	1.6340 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
Valve	Int	2010-15	13240	2.165 Head Diameter,NOTE: 4.870 Overall Length
	Exh	2010-15	13042	1.587 Head Diameter
Keeper	Both	2010-15	121-1085	1 RD Bead Type
Stem Seal	Int	2010-15	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2010-15	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-15	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2010-15	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version

GM / PASSENGER CAR (Cont'd)

188 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Active Fuel Mgmt., Vin J, "L99 W/
(cont.) Auto Trans."

GMC6.2-L99

2010-15

V8 376 CID

BORE - 103.2mm/4.06"

PART	YEARS	PART NO.	NOTES	
Guide	Both	2010-15	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2010-15	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2010-15	160-1623	2.125 Length
Lifter	Both	2010-15	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2010-15	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2010-15	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2010-15	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Int	2010-15	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2010-15	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2010-15	190-1537	7.397 Length
Head Bolt Set		2010-15	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2010-13	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

189 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 7, Active Fuel Mgmt., LT1
2014-17

GMC6.2-LT1

V8 376 CID

BORE - 103.2mm/4.06"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-16	121-1085	1 RD Bead Type
Stem Seal	Int	2014-16	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2014-16	122-1338	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2014-16	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2014-16	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2014-16	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2014-16	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required

190 376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 6, LT4, Active Fuel Mgmt.,
"Supercharged Direct Injected"

GMC6.2-LT4

2015-17

V8 376 CID

BORE - 103.2mm/4.06"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-16	121-1085	1 RD Bead Type
Stem Seal	Int	2015-16	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2015-16	122-1338	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2015-16	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2015-16	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.

(Cont'd) **GM / PASSENGER CAR**

376 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 6, LT4, Active Fuel Mgmt.,
"Supercharged Direct Injected"
2015-17 V8 376 CID

190
GMC6.2-LT4 (cont.)
BORE - 103.2mm/4.06"

PART	YEARS	PART NO.	NOTES
Lifter	Both	2015-16	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl. Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
		2015-16	

389 C.I., (6.4L), OHV, GAS, CARB, 16 Valve "Pontiac"
1959-66 V8 389 CID

GMC389 191
BORE - 103.2mm/4.06"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1959-63	SB1937-1 SB2000-1	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 1/4 Depth,W/ 1.881 Valve Head Dia. 2.000 O.D., 1 ³ / ₄ I.D., 7/32 Depth,Also Available In Non-Magnetic (N) Material,W/ 1.920 Valve Head Dia.
		1964-66		
	Exh	1959-63	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.600 Valve Head Dia.
		1964-66	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.640 Valve Head Dia.
Valve	Int	1964-66	00958	1.920 Head Diameter,4 Bbl. or 3-2 Bbl. Carb., 1966 W/ 10.5:1 or 10.75:1 C/R
	Exh	1964-66	01072	1.640 Head Diameter,4 Bbl. or 3-2 Bbl. Carb., 1966 W/ 10.5:1 or 10.75:1 C/R
Keeper	Both	1964-66	121-1003	1 SQ Bead Type
Stem Seal	Both	1959-66	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	1959-60	140-5612	0.3440 I.D.,2.875 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1959-60	140-9612	0.3440 I.D.,2.875 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		1959-66	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1959-66	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1959-60	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1959-60	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
		1959-66	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1959-66	140-7459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1959-66	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		1959-66	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1959-64	160-1118	1.980 Length,Outer
		1959-64	160-1119	1.760 Length,Inner, 0.963 O.D.
		1965-66	160-1136	1.760 Length,Inner, 1.060 O.D.
		1965-66	160-1137	1.940 Length,Outer
Lifter	Both	1959-66	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1959-64	181-1044	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 3/8" Nut,W/O Oil Feed Hole
		1959-66	183-1021	Grooved Ball, 7/16
		1959-66	184-1038	Nut, 3/8

GM / PASSENGER CAR (Cont'd)

191 389 C.I., (6.4L), OHV, GAS, CARB, 16 Valve "Pontiac" **GMC389**
 (cont.) 1959-66 V8 389 CID **BORE - 103.2mm/4.06"**

PART	YEARS	PART NO.	NOTES
Push Rod	Both	1959-60	192-1229
		1961-66	190-1433
			9.136 Length,- 60 U/S (192-1229U60) Available 8.686 Length,Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available

192 390 C.I., (6.4L), OHV, GAS, CARB, 16 Valve "Cadillac" **GMC390**
 1959-63 V8 390 CID **BORE - 101.6mm/4.00"**

PART	YEARS	PART NO.	NOTES
Guide	Both	1959-63	140-1745
			0.3445 I.D.,2.266 Length,0.5636 O.D.
Spring	Both	1959-63	160-1121
			2.250 Length
Lifter	Both	1959-63	VL5
			Hydraulic Type

193 394 C.I., (6.5L), OHV, GAS, CARB, 16 Valve "Oldsmobile" **OLDS394**
 1959-64 V8 394 CID **BORE - 104.8mm/4.13"**

PART	YEARS	PART NO.	NOTES
Guide	Int	1959-64	140-1821
		1959-64	140-1829
	Exh	1959-64	140-1878
			0.3450 I.D.,2.374 Length,0.6578 O.D. 0.4050 I.D.,4.375 Length,0.7520 O.D. 0.3973 I.D.,2.375 Length,0.6580 O.D.

194 396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve **396STD**
 1965-69 V8 396 CID **BORE - 104.3mm/4.09"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-69	SB2250-1
	Exh	1965-69	SB1812-4
			2 ¹ / ₄ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth,Cast Iron Cylinder Head 1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Cast Iron Cylinder Head
Valve	Int	1965-69	01107
	Exh	1965-69	01106
			2.065 Head Diameter,+15 O/S Stem Available 1.720 Head Diameter,+15 O/S Stem Available
Keeper	Both	1965-69	121-1007
			1 SQ Bead Type
Stem Seal	Both	1965-69	122-1031
		1965-69	122-1045
			Positive Type,Poly Material,2-Ring Style Umbrella Type,Poly Material,Umbrella Style,For Single Spring
Guide	Exh	1965-69	140-1972
	Both	1965-69	140-1973
			0.3740 I.D.,2.630 Length,0.6203 O.D.,Cast Iron Heads, Use Caution When Removing Stepped O.D. 0.3735 I.D.,2.420 Length,0.6255 O.D.,Cast Iron & Aluminum Heads, Use Caution When Removing Stepped O.D. Exc. 1965-69 Exh. Cast Iron Heads
Spring	Both	1965-69	160-1003
		1965-69	160-1139
			2.120 Length,Dual Spring 2.215 Length,W/ Damper,Single Spring
Lifter	Both	1965-69	VL37
		1965-69	VL63
			Hydraulic Type Mechanical High Performance Type
Rocker Components	Both	1965-69	180-1229
		1965-69	181-1014
		1965-69	181-1048
		1965-69	183-1026
		1965-69	184-1020
		1965-69	184-1040
			Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut,High Perf. Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More Grooved Ball, ⁷ / ₁₆ Stud Nut, ⁷ / ₁₆
Push Rod	Int	1965-69	192-1339
		1965-69	192-1504
	Exh	1965-69	192-1338
		1965-69	192-1503
			8.230 Length,0.312 Rod Dia. 8.280 Length,2nd Design, 0.312 Rod Dia. 9.200 Length,0.312 Rod Dia. 9.252 Length,2nd Design, 0.312 Rod Dia.

(Cont'd) **GM / PASSENGER CAR**

396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve
1965-69 V8 396 CID

396STD 194
BORE - 104.3mm/4.09" (cont.)

PART	YEARS	PART NO.	NOTES
Head Bolt Set	1965-69	220-1107	Torque To Yield,Services Engine
Head Saver Shim	1965-69	230-2029	New Hgt. - Min. Hgt. N/A

396 C.I., (6.5L), OHV, GAS, CARB, 16 Valve "Special High Performance"
1965-69 V8 396 CID

396SHP 195
BORE - 104.3mm/4.09"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1965-69	2 1/4 O.D., 1 15/16 I.D., 3/16 Depth	
	Exh	1965-69		1 15/16 O.D., 1 11/16 I.D., 7/32 Depth
Valve	Int	1965-69	2.190 Head Diameter	
	Exh	1965-69		1.875 Head Diameter
Keeper	Both	1965-69	1 SQ Bead Type	
Stem Seal	Both	1965-69	Positive Type,Poly Material,2-Ring Style	
Guide	Exh	1965-69	0.3740 I.D.,2.630 Length,0.6203 O.D.,Cast Iron Heads, Use Caution When Removing Stepped O.D.	
	Both	1965-69		0.3735 I.D.,2.420 Length,0.6255 O.D.,Cast Iron & Aluminum Heads, Use Caution When Removing Stepped O.D. Exc. 1965-70 Exh. Cast Iron Heads
Spring	Both	1965-69	2.120 Length,Dual Spring	
Lifter	Both	1965-69	VL63	
Rocker Components	Both	1965-69	180-1229	Rocker Arm
		1965-69	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf.
		1965-69	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1965-69	183-1026	Grooved Ball, 7/16
		1965-69	184-1020	Stud
1965-69	184-1040	Nut, 7/16		
Push Rod	Int	1965-69	8.280 Length,First Design, 0.375 Dia.	
	Exh	1965-69		9.252 Length,First Design, 0.375 Dia.
Head Bolt Set		1965-69	Torque To Yield,Services Engine	
Head Saver Shim		1965-69	New Hgt. - Min. Hgt. N/A	

396 C.I., (6.5L), GAS, CARB "Big Block"
1970-72 V8 396 CID

396BIG 196
BORE - 104.70mm/4.125"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1970-72	2 1/4 O.D., 1 15/16 I.D., 3/16 Depth,Exc. Aluminum Cylinder Head
	Exh	1970-72	
Valve	Int	1970-72	2.065 Head Diameter,4 Bbl. Carb., +15 O/S Stem Available
	Exh	1970-72	
Keeper	Both	1970-72	1 SQ Bead Type
Stem Seal	Both	1970-72	Positive Type,Poly Material,2-Ring Style
		1970-72	Umbrella Type,Poly Material,Umbrella Style,For Single Spring
Guide	Int	1970-72	0.3735 I.D.,2.420 Length,0.6255 O.D.,Cast Iron & Aluminum Heads, Exc. 1970-72 Exh. Cast Iron Head
	Exh	1970-72	
Spring	Both	1970-70	2.120 Length,Dual Spring,To Early 1970,
		1971-72	

GM / PASSENGER CAR (Cont'd)

196 396 C.I., (6.5L), GAS, CARB "Big Block"
(cont.) 1970-72 V8 396 CID

396BIG
BORE - 104.70mm/4.125"

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1970-72 VL37	Hydraulic Type	
Rocker Components	Both	1970-72	180-1229	Rocker Arm
		1970-72	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf.
		1970-72	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1970-72	183-1026	Grooved Ball, 7/16
		1970-72	184-1040	Nut, 7/16
Push Rod	Int	1970-72	192-1337	8.280 Length, First Design, 0.375 Rod Dia.; NOTE: SHP
		1970-72	192-1339	8.230 Length, 2nd Design, 0.312 Rod Dia.
		1970-72	192-1504	8.280 Length, 2nd Design, 0.312 Rod Dia.
	Exh	1970-72	192-1336	9.252 Length, First Design, 0.375 Rod Dia.; NOTE: SHP
		1970-72	192-1338	9.200 Length, 2nd Design, 0.312 Rod Dia.
		1970-72	192-1503	9.252 Length, 2nd Design, 0.312 Rod Dia.

197 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve
1965-69 V8 400 CID

GMC400
BORE - 102.6mm/4.19", 106.4mm/4.04"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1965-66	SB2000-1	2.000 O.D., 1 3/4 I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.875 Valve Head Dia.
		1967-69	SB2125-2	2 1/8 O.D., 1 7/8 I.D., 1/4 Depth, W/ 2.000 Valve Head Dia.
	Exh	1965-66	SB1562-1	1 1/16 O.D., 1 5/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.500 Valve Head Dia.
		1967-69	SB1750-2	1 3/4 O.D., 1 1/2 I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.625 Valve Head Dia.
Valve	Int	1967-69	01105	2.000 Head Diameter
	Exh	1967-69	01189	1.625 Head Diameter
Keeper	Both	1967-69	121-1002	No Bead Bead Type
Stem Seal	Both	1965-66	122-1011	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide to .500 O.D.
Guide	Int	1966-66	140-1937	0.3750 I.D., 2.563 Length, 0.6270 O.D.
		1967-69	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1967-69	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1965-66	140-1733	0.3745 I.D., 2.750 Length, 0.6265 O.D.
		1967-69	140-6114	0.3750 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1967-69	140-9114	0.3750 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1965-66	160-1130	2.070 Length, Outer
Lifter	Both	1967-69	VL5	Hydraulic Type
Push Rod	Both	1965-66	190-1349	8.723 Length
		1967-69	190-1328	9.355 Length

198 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, "Olds High Performance"
1965-69 V8 400 CID

400OLDS4
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1965-69	SB2125-2	2 1/8 O.D., 1 7/8 I.D., 1/4 Depth, W/ 1.995 Valve Head Dia.
		1965-69	SB2250-1	2 1/4 O.D., 1 5/16 I.D., 3/16 Depth, W/ 2.072 Valve Head Dia.

(Cont'd) **GM / PASSENGER CAR**

400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, "Olds High Performance" 400OLDS4 198
1965-69 V8 400 CID BORE - 101.6mm/4.00 (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1965-69	SB1750-2	1¼ O.D., 1½ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.624 Valve Head Dia.
Valve	Int	1966-69	01002	2.072 Head Diameter, Includes 1968-69 4 Bbl. Carb.
		1968-69	01457		1.995 Head Diameter, 2 Bbl. Carb.
	Exh	1966-69	00974	1.624 Head Diameter
Keeper	Both	1966-69	121-1003	1 SQ Bead Type
Guide	Both	1965-69	140-6873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1965-69	140-9873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1965-69	160-1147	1.960 Length, W/ Damper
Lifter	Both	1965-69	VL49	Hydraulic Type, Exc. Hi-Perf.
Rocker Components	Both	1965-69	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Long Bridge, When Replacing, Fulcrum # 183-1027 Must Also Be Used
		1965-69	183-1027	
		1965-69	183-1028	
Push Rod	Both	1965-65	190-1429	9.594 Length, From Eng. Code # 502A, B, E & F07 (W/ Stamped Steel Rocker Arms)
		1968-69	190-1384	9.547 Length

400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin N, P, R, S, T, X, Y, Z "Pontiac" 400PON 199
1967-79 V8 400 CID BORE - 104.8mm/4.13"

PART		YEARS	PART NO.	NOTES		
Valve Seat Insert	Int	1967-67	SB2000-1	2.000 O.D., 1¾ I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.920 Valve Head Dia.		
		1967-79	SB2125-2	2½ O.D., 1⅞ I.D., ¼ Depth, W/ 2.110 Valve Head Dia.		
		1968-79	SB2125-1	2½ O.D., 1⅞ I.D., ¼ Depth, W/ 1.960 Valve Head Dia.		
		Exh	1967-79	SB1750-2	1¾ O.D., 1½ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.660 Valve Head Dia.	
	1967-79		SB1812-1	1⅜ O.D., 1⅞ I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.770 Valve Head Dia.		
Valve	Int	1968-70	01098	2.110 Head Diameter, 5.098 Overall Length, 4 Bbl. Carb		
		1970-74	01296		1.960 Head Diameter, 4.980 Overall Length, 2 Bbl. Carb.	
		1971-79	01161			2.110 Head Diameter, 4.979 Overall Length, 1971-74 4 Bbl. Carb., 1975-79 All
	Exh	1968-70	01097	1.770 Head Diameter, 5.093 Overall Length, 4 Bbl. Carb.		
		1968-72	01093		1.660 Head Diameter, 4.984 Overall Length, 2 Bbl. Carb.	
		1971-73	01160			1.770 Head Diameter, 4.975 Overall Length, 1971-72 4 Bbl. Carb., 1973 WH, YH, YJ, & YW Eng.
		1973-79	01245				1.660 Head Diameter, 4.959 Overall Length, Exc. WH, YJ, YS, & YW Engines
Keeper	Both	1968-79	121-1003	1 SQ Bead Type		
Stem Seal	Both	1967-79	122-1043	O-Ring Type, Nitrile Material, O-Ring Style		
Guide	Both	1967-79	140-6523	0.3440 I.D., 3.063 Length, 0.5020 O.D., Plain I.D. Conversion Guide		
		1967-79	140-9523	0.3440 I.D., 3.063 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9523H)		
Spring	Both	1967-68	160-1156	2.112 Length, Inner W/ Ram Air II		
		1967-68	160-1157	2.100 Length, Outer W/ Ram Air II		
		1967-79	160-1136	1.760 Length, Inner, W/ Auto. Trans., Exc. Ram Air		

GM / PASSENGER CAR (Cont'd)

199 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin N, P, R, S, T, X, Y, Z "Pontiac" 400PON
 (cont.) 1967-79 V8 400 CID BORE - 104.8mm/4.13"

PART	YEARS	PART NO.	NOTES
Spring	Both	1967-79 160-1137	1.940 Length,Outer, 1967-79 W/ Automatic Trans., 1967-70 W/ Manual Trans., Exc. Ram Air
Lifter	Both	1967-79 VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1967-79 184-1038	Nut, 3/8 Rocker Arm Kit, Includes (1) Rocker Arm (1) Grooved Ball, (1) 3/8 Nut,Exc. Ram Air
		1968-79 181-1020	
		1969-70 181-1025	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 3/8 Nut,W/ Ram Air IV Grooved Ball, 7/16,W/ Ram Air IV
		1969-70 183-1021	
Push Rod	Both	1967-67 190-1438	8.245 Length
		1968-79 192-1229	9.136 Length,- 60 U/S (192-1229U60) Available

200 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve " Olds Standard " 400OLDS3.8
 1968-69 V8 400 CID BORE - 98.3mm/3.87"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-69 SB2125-2	2 1/8 O.D., 1 7/8 I.D., 1/4 Depth,W/ 1.995 Valve Head Dia. 2 1/4 O.D., 1 15/16 I.D., 3/16 Depth,W/ 2.072 Valve Head Dia. 1 3/4 O.D., 1 1/2 I.D., 7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.624 Valve Head Dia.
		1968-69 SB2250-1	
		1968-69 SB1750-2	
Valve	Int	1968-69 01002	2.072 Head Diameter,4 Bbl. Carb. 1.995 Head Diameter,2 Bbl. Carb. 1.624 Head Diameter
		1968-69 01457	
		1968-69 00974	
Valve	Exh	1968-69	2.072 Head Diameter,4 Bbl. Carb. 1.995 Head Diameter,2 Bbl. Carb. 1.624 Head Diameter
		1968-69	
		1968-69	
Keeper	Both	1968-69 121-1003	1 SQ Bead Type
Stem Seal	Both	1968-69 122-1041	Umbrella Type,Poly Material,Umbrella Style
Guide	Both	1968-69 140-9873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1968-69 160-1147	1.960 Length,W/ Damper
Lifter	Both	1968-69 VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1968-69 181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Long Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
		1968-69 183-1027	
		1968-69 183-1028	
Push Rod	Both	1968-69 190-1384	9.547 Length
		1968-69 190-1429	9.594 Length,From Eng. Code # 502A,B,E & F07(W/ Stamped Steel Rocker Arms)

201 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin R, U 400RU
 1970-76 V8 400 CID BORE - 104.8mm/4.13"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1970-76 SB2125-1	2 1/8 O.D., 1 13/16 I.D., 1/4 Depth 1 11/16 O.D., 1 7/16 I.D., 7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,1970 W/ 1.600 Valve Head Dia. 1 1/16 O.D., 1 5/16 I.D., 7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.500 Valve Head Dia.
		1970-70 SB1687-2	
		1970-76 SB1562-1	
Valve	Int	1970-76 00696	1.940 Head Diameter,Except Police 1.600 Head Diameter 1.500 Head Diameter,+3 & +15 O/S Stem Available
		1970-70 00919	
		1970-76 00400	
Valve	Exh	1970-76	1.940 Head Diameter,Except Police 1.600 Head Diameter 1.500 Head Diameter,+3 & +15 O/S Stem Available
		1970-70	
		1970-76	

(Cont'd) GM / PASSENGER CAR**400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin R, U**
1970-76 V8 400 CID**400RU 201**
BORE - 104.8mm/4.13" (cont.)

PART		YEARS	PART NO.	NOTES
Valve	Exh	1970-76	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1970-76	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1970-76	121-1003	1 SQ Bead Type
Stem Seal	Both	1970-76	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1970-76	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1970-76	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		1970-76	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1970-76	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1970-76	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1970-76	140-7946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1970-76	140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Exh	1973-76	160-1009	1.910 Length,W/ Damper
	Both	1970-76	160-1144	2.048 Length,W/ Damper,Exc. 1973-76 Exh.
		1970-76	160-1144HP	2.023 Length,W/ Damper,Hi-Perf., Exc. 1973-76 Exh.
		1970-76	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1973-76	161-1012	
Lifter	Both	1970-76	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1970-76	VL73	Hydraulic Type
Rocker Components	Both	1970-76	180-1228	Rocker Arm
		1970-76	180-1239	Rocker Arm, Stamped, Long Slot
		1970-76	180-1283	Rocker Arm, Rail Type,Optional
		1970-76	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1970-76	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut,High Perf., W/ 1.5:1 Ratio
		1970-76	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut,Optional
		1970-76	183-1017	Smooth Ball, ³ / ₈
		1970-76	183-1032	Grooved Ball, ³ / ₈
1970-76	184-1038	Nut, ³ / ₈		
Push Rod	Both	1970-76	192-1331	7.798 Length
Head Bolt Set		1970-76	220-1018	This bolt is NOT Torque to Yield,2 Required

401 C.I., (6.6L), OHV, GAS, CARB, 16 Valve " Buick "
1959-66 V8 401 CID**401BUK 202**
BORE - 106.4mm/4.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1959-66	SB2000-1	2.000 O.D., ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
	Exh	1959-66	SB1562-1	¹ / ₁₆ O.D., ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1959-66	121-1002	No Bead Bead Type
Stem Seal	Both	1959-66	122-1011	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide to .500 O.D.
Guide	Int	1966-66	140-1937	0.3750 I.D.,2.563 Length,0.6270 O.D.

GM / PASSENGER CAR (Cont'd)

202 401 C.I., (6.6L), OHV, GAS, CARB, 16 Valve " Buick "
(cont.) 1959-66 V8 401 CID

401BUK
BORE - 106.4mm/4.19"

PART	YEARS	PART NO.	NOTES
Guide	Both	1959-66 140-1733	0.3745 I.D.,2.750 Length,0.6265 O.D.,NOTE: Exhaust Only 1966
Spring	Both	1959-66 160-1130	2.070 Length,Outer
Push Rod	Both	1959-66 190-1349	8.723 Length

203 402 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin S, U
1970-72 V8 402 CID

402SU
BORE - 104.8mm/4.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1970-72 1970-72	SB2250-1 SB1812-4	2 ¹ / ₄ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth,Exc. Aluminum Cylinder Head 1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Exc. Aluminum Cylinder Head
Valve	Int Exh	1970-72 1970-72	01107 01106	2.065 Head Diameter,+15 O/S Stem Available 1.720 Head Diameter,+15 O/S Stem Available
Keeper	Both	1970-72	121-1007	1 SQ Bead Type
Stem Seal	Both	1970-72 1970-72	122-1031 122-1045	Positive Type,Poly Material,2-Ring Style Umbrella Type,Poly Material,Umbrella Style
Guide	Exh Both	1970-72 1970-72	140-1972 140-1973	0.3740 I.D.,2.630 Length,0.6203 O.D.,Cast Iron Heads, Use Caution When Removing Stepped O.D. 0.3735 I.D.,2.420 Length,0.6255 O.D.,Cast Iron & Aluminum Heads, Exc. 1970-72 Exh.
Spring	Both	1970-70 1971-72	160-1003 160-1139	2.120 Length,Dual Spring,To Early 1970 2.215 Length,W/ Damper,Single Spring, From Late 1971
Lifter	Both	1970-72 1970-72	VL37 VL63	Hydraulic Type,Exc. Hi-Perf. Mechanical High Performance Type
Rocker Components	Both	1970-72 1970-72 1970-72 1970-72	180-1229 181-1014 183-1026 184-1040	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut,High Perf. Grooved Ball, ⁷ / ₁₆ Nut, ⁷ / ₁₆
Push Rod	Int Exh	1970-72 1970-72 1970-72 1970-72 1970-72 1970-72	192-1337 192-1339 192-1504 192-1336 192-1338 192-1503	8.280 Length,First Design, 0.375 Rod Dia. 8.230 Length,0.312 Rod Dia. 8.280 Length,2nd Design, 0.312 Rod Dia. 9.252 Length,First Design, 0.375 Rod Dia. 9.200 Length,0.312 Rod Dia. 9.252 Length,2nd Design, 0.312 Rod Dia.
Head Bolt Set		1970-72	220-1107	Torque To Yield,Services Engine
Head Saver Shim		1970-72	230-2029	New Hgt. - Min. Hgt. N/A

204 403 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin K "Oldsmobile"
1977-79 V8 403 CID

GMC403
BORE - 110.5mm/4.35"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1977-79 1977-79	SB2125-31 SB1562-9	2 ¹ / ₈ O.D.,1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth 1 ⁹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int Exh	1977-79 1977-79	01457 01354	1.995 Head Diameter 1.502 Head Diameter
Keeper	Both	1977-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1977-79	122-1075	Positive Type,Viton Material,Ring & Band Style
Guide	Both	1977-79	140-6873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Plain I.D. Conversion Guide

(Cont'd) **GM / PASSENGER CAR**

403 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin K "Oldsmobile"
1977-79 V8 403 CID

GMC403 204
BORE - 110.5mm/4.35" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both 1977-79	140-9873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both 1977-79	160-1006	1.960 Length
Lifter	Both 1977-79	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both 1977-79 1977-79 1977-79	181-1057 183-1027 183-1028	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Long Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
Push Rod	Both 1977-79	190-1411	8.234 Length

409 C.I., (6.7L), OHV, GAS, CARB, 16 Valve
1961-65 V8 409 CID

GMC409 205
BORE - 109.5mm/4.31"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1961-65 Exh 1961-65	SB2250-1 SB1812-4	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth 1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Stem Seal	Both 1961-65 1961-65 1961-65	122-1043 122-1045 122-1048	O-Ring Type,Nitrile Material,O-Ring Style Umbrella Type,Poly Material,Umbrella Style Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia. & Use W/ Factory Guide Boss
Guide	Int 1961-65 Exh 1961-65 1961-65 1961-65	140-6108 140-6110 140-7260 140-9260	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D.,2.625 Length,0.5020 O.D.,Plain I.D. Conversion Guide 0.3730 I.D.,2.875 Length,0.5020 O.D.,For Use W/ Eng. Using Chrome Plated Valve 0.3731 I.D.,2.874 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both 1961-65	160-1117	2.030 Length
Lifter	Both 1961-65	VL37	Hydraulic Type
Rocker Components	Both 1961-65 1961-65	183-1024 184-1038	Smooth Ball, ³ / ₈ Nut, ³ / ₈
Push Rod	Int 1961-65 Exh 1961-65	190-1269 192-1229	8.778 Length,Exc. Hi-Perf. & 4 Bbl. 9.136 Length,- 60 U/S (192-1229U60) Available

421 C.I., (6.9L), OHV, GAS, CARB, 16 Valve
1963-64 V8 421 CID

GMC421 206
BORE - 104mm/4.09"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1963-64 Exh 1963-64	SB2000-1 SB1750-2	2.000 O.D.,1 ³ / ₄ I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material 1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1963-64 Exh 1963-64	00958 01072	1.920 Head Diameter 1.640 Head Diameter
Keeper	Both 1963-64	121-1003	1 SQ Bead Type
Stem Seal	Both 1963-64 1963-64	122-1043 122-1048	O-Ring Type,Nitrile Material,O-Ring Style Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
Guide	Int 1963-64	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)

GM / PASSENGER CAR (Cont'd)

206 421 C.I., (6.9L), OHV, GAS, CARB, 16 Valve
(cont.) 1963-64 V8 421 CID

GMC421
BORE - 104mm/4.09"

PART		YEARS	PART NO.	NOTES
Guide	Int	1963-64	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1963-64	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1963-64	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1963-64	160-1118	1.980 Length,Outer Exc. 1963 W/ 3 x 2 Bbl. Carbs.
		1963-64	160-1119	1.760 Length,Inner, Exc. 1963 W/ 3 x 2 Bbl. Carbs.
Lifter	Both	1963-64	VL49	Hydraulic Type,Exc. Hi-Perf.
Rocker Components	Both	1963-64	183-1021	Grooved Ball, 7/16
		1963-64	184-1038	Nut, 3/8
Push Rod	Both	1963-64	190-1433	8.686 Length,Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available,W/O Guide PlatesW/O Guide Plates

207 425 C.I., (7.0L), OHV, GAS, CARB, 16 Valve "Oldsmobile"
1965-67 V8 425 CID

425OLDS
BORE - 104.8mm/4.13"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1965-67	SB2125-2	2 1/8 O.D.,1 7/8 I.D.,1/4 Depth,W/ 1.995 Valve Head Dia.
		1965-67	SB2250-1	2 1/4 O.D.,1 15/16 I.D.,3/16 Depth,W/ 2.072 Valve Head Dia.
	Exh	1965-67	SB1750-2	1 3/4 O.D.,1 1/2 I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1965-67	01457	1.995 Head Diameter,SHP & High Torque & Irrigation
		1966-67	01002	2.072 Head Diameter,Toronado
	Exh	1965-67	00974	1.624 Head Diameter,Toronado, SHP & High Torque & Irrigation
Keeper	Both	1966-67	121-1003	1 SQ Bead Type
Stem Seal	Both	1965-67	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1965-67	122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
Guide	Both	1965-67	140-6873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1965-67	140-9873	0.3450 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1965-67	160-1147	1.960 Length,W/ Damper
Lifter	Both	1965-67	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1965-67	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1965-67	183-1027	Fulcrum, Long
		1965-67	183-1028	Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
Push Rod	Both	1965-66	190-1429	9.594 Length,From Eng. Code # 502A,B,E & F07(W/ Stamped Steel Rocker Arms)
		1967-67	190-1440	9.622 Length

208 425 C.I., (7.0L), OHV, GAS, CARB, FI, 16 Valve, Vin S, T
1977-79 V8 425 CID

425CAD
BORE - 103.7mm/4.08"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1977-79	SB2125-2	2 1/8 O.D.,1 7/8 I.D.,1/4 Depth
	Exh	1977-79	SB1750-2	1 3/4 O.D.,1 1/2 I.D.,7/32 Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) **GM / PASSENGER CAR**

425 C.I., (7.0L), OHV, GAS, CARB, FI, 16 Valve, Vin S, T
1977-79 V8 425 CID

425CAD 208
BORE - 103.7mm/4.08" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Int	1977-79	01293	2.000 Head Diameter
	Exh	1977-79	01292	1.625 Head Diameter
Keeper	Both	1977-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1977-79	122-1047	Positive Type,Poly Material,2-Ring Style
Guide	Both	1977-79	140-6523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1977-79	140-9523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9523H)
Spring	Both	1977-79	160-1121	2.250 Length
Lifter	Both	1977-79	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1977-79	VL73	Hydraulic Type
Push Rod	Both	1977-79	190-1385	10.200 Length

427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve "Chevrolet Special High Performance"

1966-69 V8 427 CID

209
427SHP
BORE - 108mm/4.25"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1966-69	SB2312-9	2 ⁵ / ₁₆ O.D.,2.000 I.D.,1/4 Depth
	Exh	1966-69	SB2000-1	2.000 O.D.,1 ³ / ₄ I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1966-69	01164	2.190 Head Diameter
	Exh	1966-69	01131	1.875 Head Diameter
Keeper	Both	1966-69	121-1007	1 SQ Bead Type
Stem Seal	Both	1966-69	122-1031	Positive Type,Poly Material,2-Ring Style
		1966-69	122-1287	Umbrella Type,Nylon/Viton Material,Viton Insert Style
Guide	Exh	1966-69	140-1972	0.3740 I.D.,2.630 Length,0.6203 O.D.,Cast Iron Heads, Use Caution When Removing Stepped O.D.
	Both	1966-69	140-1973	0.3735 I.D.,2.420 Length,0.6255 O.D.,Cast Iron & Aluminum Heads, Use Caution When Removing Stepped O.D. Exc. 1966-69 Exh. Cast Iron Heads
Spring	Both	1966-68	160-1138	2.143 Length,W/ Damper
		1969-69	160-1003	2.120 Length,Dual Spring,From Early 1969
		1969-69	160-1139	2.215 Length,W/ Damper,From Late 1969
Lifter	Both	1966-69	VL63	Mechanical High Performance Type
Rocker Components	Both	1966-69	180-1229	Rocker Arm
		1966-69	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf.
		1966-69	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1966-69	183-1026	Grooved Ball, 7/16
1966-69	184-1040	Nut, 7/16		
Push Rod	Int	1966-69	192-1337	8.280 Length,First Design, 0.375 Rod Dia.
	Exh	1966-69	192-1336	9.252 Length,First Design, 0.375 Rod Dia.
Head Bolt Set		1966-69	220-1107	Torque To Yield,Services Engine
Head Saver Shim		1966-69	230-2029	New Hgt. - Min. Hgt. N/A

GM / PASSENGER CAR (Cont'd)

210 427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve
1966-69 V8 427 CID

427STD
BORE - 108mm/4.25"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1966-69	2 ¹ / ₄ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth, Cast Iron Cylinder Head 1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Cast Iron Cylinder Head
	Exh	1966-69	
Valve	Int	1966-69	2.065 Head Diameter, +15 O/S Stem Available 1.720 Head Diameter, +15 O/S Stem Available
	Exh	1966-69	
Keeper	Both	1966-69	1 SQ Bead Type
Stem Seal	Both	1966-69	Positive Type, Poly Material, 2-Ring Style Umbrella Type, Poly Material, Umbrella Style
		1966-69	
Guide	Int	1966-69	0.3735 I.D., 2.420 Length, 0.6255 O.D., Cast Iron & Aluminum Heads, Use Caution When Removing Stepped O.D. Exc. 1966-69 Exh. Cast Iron Heads 0.3740 I.D., 2.630 Length, 0.6203 O.D., Cast Iron Heads, Use Caution When Removing Stepped O.D.
	Exh	1966-69	
Spring	Both	1966-68	2.143 Length, W/ Damper 2.120 Length, Dual Spring, Early 1969 2.215 Length, W/ Damper, From Late 1969
		1969-69	
		1969-69	
Lifter	Both	1966-69	Hydraulic Type, Exc. Special Hi-Perf. Mechanical High Performance Type
		1966-69	
Rocker Components	Both	1966-69	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut, High Perf. Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More Grooved Ball, ⁷ / ₁₆ Nut, ⁷ / ₁₆
		1966-69	
		1966-69	
		1966-69	
		1966-69	
Push Rod	Int	1966-69	8.230 Length, 0.312 Rod Dia. 8.280 Length, 0.312 Rod Dia. 9.200 Length, 0.312 Rod Dia. 9.252 Length, 0.312 Rod Dia.
		1966-69	
		1966-69	
		1966-69	
		1966-69	
Head Bolt Set		1966-69	Torque To Yield, Services Engine
Head Saver Shim		1966-69	New Hgt. - Min. Hgt. N/A

211 427 C.I., (7.0L), OHV, GAS, FI, 16 Valve, Vin E, "LS7 Z06"
2006-15 V8 427 CID

GMC7.0LS7
BORE - 104.8mm/4.13"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2006-15	1 RD Bead Type
Stem Seal	Int	2006-15	Positive Type, Viton Material, Top Hat Style Positive Type, Viton Material, Top Hat Style
	Exh	2006-15	
Lifter	Both	2006-15	Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490 Non-AFM Lifter Guide Type, Non-AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
		2006-15	

212 428 C.I., (7.0L), OHV, GAS, CARB, 16 Valve
1967-69 V8 428 CID

GMC428
BORE - 104.7mm/4.12"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1967-69	2 ¹ / ₈ O.D., 1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth, W/ 1.960 Valve Head Dia. 2 ¹ / ₈ O.D., 1 ⁷ / ₈ I.D., ¹ / ₄ Depth, W/ 2.110 Valve Head Dia.
		1968-69	

(Cont'd) GM / PASSENGER CAR**428 C.I., (7.0L), OHV, GAS, CARB, 16 Valve**
1967-69 V8 428 CID**GMC428 212**
BORE - 104.7mm/4.12" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1967-67	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.660 Valve Head Dia.
		1967-69	SB1812-1	1 $\frac{13}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.770 Valve Head Dia.
Valve	Int	1968-69	01098	2.110 Head Diameter
	Exh	1968-69	01097	1.770 Head Diameter, Except 1969 XE, XJ, YH & YL Engines
Keeper	Both	1968-69	121-1003	1 SQ Bead Type
Stem Seal	Both	1967-69	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss
Guide	Int	1967-69	140-9560	0.3440 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1967-69	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1967-69	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both	1967-69	160-1136	1.760 Length, Inner
		1967-69	160-1137	1.940 Length, Outer
Lifter	Both	1967-69	VL49	Hydraulic Type, Exc. Hi-Perf.
Rocker Components	Both	1967-69	181-1020	Rocker Arm Kit, Includes (1) Rocker Arm (1) Grooved Ball, (1) $\frac{3}{8}$ Nut
		1967-69	184-1038	Nut, $\frac{3}{8}$
Push Rod	Both	1967-69	192-1229	9.136 Length, - 60 U/S (192-1229U60) Available

429 C.I., (7.0L), OHV, GAS, CARB, 16 Valve
1964-67 V8 429 CID**429CAD 213**
BORE - 104.8mm/4.13"

PART		YEARS	PART NO.	NOTES
Guide	Both	1964-67	140-1745	0.3445 I.D., 2.266 Length, 0.5636 O.D.
Spring	Both	1964-67	160-1121	2.250 Length

430 C.I., (7.0L), OHV, GAS, CARB, 16 Valve " Buick "
1967-69 V8 430 CID**GMC430 214**
BORE - 106.4mm/4.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1967-69	SB2125-2	2 $\frac{1}{8}$ O.D., 1 $\frac{7}{8}$ I.D., $\frac{1}{4}$ Depth
	Exh	1967-69	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1967-69	01105	2.000 Head Diameter
	Exh	1967-69	01189	1.625 Head Diameter
Keeper	Both	1967-69	121-1002	No Bead Bead Type
Stem Seal	Both	1967-69	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Int	1967-69	140-6113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1967-69	140-9113	0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1967-69	140-6114	0.3750 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1967-69	140-9114	0.3750 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1967-69	160-1145	2.190 Length, W/ Damper
Lifter	Both	1967-69	VL5	Hydraulic Type
Push Rod	Both	1967-69	190-1328	9.355 Length

GM / PASSENGER CAR (Cont'd)

215 454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin S, V, W, X, Y, Z
1970-76 V8 454 CID

454STD
BORE - 108mm/4.25"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1970-76	SB2125-38 SB1812-4	2 ¹ / ₈ O.D., 1 ¹³ / ₁₆ I.D., ³ / ₁₆ Depth 1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1970-76		
Valve	Int	1970-76	01107 01106	2.065 Head Diameter, +15 O/S Stem Available 1.720 Head Diameter, +15 O/S Stem Available
	Exh	1970-76		
Keeper	Both	1970-76	121-1007	1 SQ Bead Type
Stem Seal	Both	1970-76	122-1031	Positive Type, Poly Material, 2-Ring Style Umbrella Type, Poly Material, Umbrella Style
		1970-76	122-1045	
Guide	Int	1970-76	140-9973 140-9972	0.3735 I.D., 2.420 Length, 0.6255 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation 0.3740 I.D., 2.630 Length, 0.6203 O.D., Spiral I.D. Conversion Guide, +3 O/S, -5 U/S I.D. Available (140-9972U)
	Exh	1970-76		
Spring	Both	1970-70	160-1139	2.215 Length, W/ Damper 2.120 Length, Dual Spring 2.078 Length, W/ Damper, Single Spring 2.050 Length, W/ Damper
		1971-72	160-1003	
		1973-74	160-1011	
		1975-76	160-1141	
Rotator	Exh	1973-76	161-1013	
Lifter	Both	1970-76	VL37	Hydraulic Type
Rocker Components	Both	1970-76	180-1229	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut, High Perf. Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More Grooved Ball, ⁷ / ₁₆ Nut, ⁷ / ₁₆
		1970-76	181-1014	
		1970-76	181-1048	
		1970-76	183-1026	
		1970-76	184-1040	
Push Rod	Int	1970-76	192-1339	8.230 Length, 0.312 Rod Dia. 8.280 Length, 0.312 Rod Dia. 9.200 Length, 0.312 Rod Dia. 9.252 Length, 0.312 Rod Dia.
		1970-76	192-1504	
	Exh	1970-76	192-1338	
		1970-76	192-1503	
Head Bolt Set		1970-76	220-1107	Torque To Yield, Services Engine
Head Saver Shim		1970-76	230-2029	New Hgt. - Min. Hgt. N/A

216 454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, "Special High Performance"
1970-76 V8 454 CID

454SHP
BORE - 108mm/4.25"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1970-76	SB2312-9 SB1937-17	2 ⁵ / ₁₆ O.D., 2.000 I.D., ¹ / ₄ Depth 1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth
	Exh	1970-76		
Valve	Int	1970-76	01164 01131	2.190 Head Diameter 1.875 Head Diameter
	Exh	1970-76		
Keeper	Both	1970-76	121-1007	1 SQ Bead Type
Stem Seal	Both	1970-76	122-1045	Umbrella Type, Poly Material, Umbrella Style Positive Type, Poly Material, 2-Ring Style
		1970-76	122-1048	
Guide	Exh	1970-76	140-1972 140-1973	0.3740 I.D., 2.630 Length, 0.6203 O.D., Cast Iron Heads, Use Caution When Removing Stepped O.D. 0.3735 I.D., 2.420 Length, 0.6255 O.D., Aluminum Heads Use Caution When Removing Stepped O.D.
	Both	1970-76		
Spring	Both	1970-72	160-1003	2.120 Length, Dual Spring 2.078 Length, W/ Damper, Single Spring 2.050 Length, W/ Damper
		1973-74	160-1011	
		1975-76	160-1141	

(Cont'd) **GM / PASSENGER CAR**

454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, "Special High Performance" 454SHP 216
1970-76 V8 454 CID BORE - 108mm/4.25" (cont.)

PART	YEARS	PART NO.	NOTES	
Rotator	Exh	1973-76	161-1013	
Lifter	Both	1970-76	VL37	Hydraulic Type
		1970-76	VL63	Mechanical High Performance Type
Rocker Components	Both	1970-76	180-1229	Rocker Arm
		1970-76	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf.
		1970-76	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1970-76	183-1026	Grooved Ball, 7/16
		1970-76	184-1040	Nut, 7/16
Push Rod	Int	1970-76	192-1337	8.280 Length, First Design, 0.375 Dia.
	Exh	1970-76	192-1336	9.252 Length, First Design, 0.375 Dia.
Head Bolt Set		1970-76	220-1107	Torque To Yield, Services Engine
Head Saver Shim		1970-76	230-2029	New Hgt. - Min. Hgt. N/A

455 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, Vin R, S, T 455OLDS 217
1968-76 V8 455 CID BORE - 105.4mm/4.15"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-76	SB2125-3	2 1/8 O.D., 1 15/16 I.D., 3/16 Depth, W/ 2.072 Valve Head Dia.
		1968-76	SB2125-34	2 1/8 O.D., 1 7/8 I.D., 7/32 Depth, W/ 1.995 Valve Head Dia.
	Exh	1968-76	SB1687-2	1 11/16 O.D., 1 7/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1968-76	01002	2.072 Head Diameter, 30 Degree Seat
		1968-76	01457	1.995 Head Diameter, 45 Degree Seat
	Exh	1968-76	00974	1.624 Head Diameter, 45 Degree Seat
		1968-76	01210	1.684 Head Diameter, 30 Degree Seat
		1968-76	01324	1.622 Head Diameter, 30 Degree Seat
Keeper	Both	1968-76	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-76	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
Guide	Both	1968-76	140-6873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1968-76	140-9873	0.3450 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1968-73	160-1147	1.960 Length, W/ Damper, 1968 All Exc. F85 W/O A1, Police & Toronado, 1969 F85 W/O A1 & All, Exc. F85 Hurst, 1970 F85 & Performance Eng. 1971 Toronado
		1968-76	160-1006	1.960 Length, W/O Damper, 1968-69 Exc. F-85 Toronado & Police, 1970 Exc. F-85 & Performance Eng., 1971 Exc. Toronado, 1972 Toronado, 1973 W/ Auto, 1974 All Exc. W/ 30, 1975-76 All
Lifter	Both	1968-76	VL49	Hydraulic Type, Exc. Hi-Perf.
Rocker Components	Both	1968-76	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1968-76	183-1027	Fulcrum, Long
		1968-76	183-1028	Bridge, When Replacing, Fulcrum # 183-1027 Must Also Be Used
Push Rod	Both	1968-76	190-1384	9.547 Length

GM / PASSENGER CAR (Cont'd)

218 455 C.I., (7.5L), OHV, GAS, CARB, Vin P, R, T, U, V, W "Buick"
1970-76 V8 455 CID

455BUK
BORE - 109.5mm/4.31"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1970-76	2 ¹ / ₈ O.D., 1 ⁷ / ₈ I.D., 7 ⁷ / ₃₂ Depth 1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., 7 ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
	Exh	1970-76	
Valve	Int	1970-76	2.000 Head Diameter, Except 70-74 Gran Sport & All Stage 1 1.625 Head Diameter, Except Gran Sport & Stage 1 1.687 Head Diameter, Except Stage 1
	Exh	1970-74	
		1975-76	
Keeper	Both	1970-76	121-1002 No Bead Bead Type
Stem Seal	Both	1970-76	122-1048 Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
Guide	Int	1970-76	140-6113 0.3745 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1970-76	140-9113 0.3745 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1970-76	140-6114 0.3750 I.D., 2.500 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1970-76	140-9114 0.3750 I.D., 2.500 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1970-70	2.190 Length, W/ Damper, Exc. Stage 1 2.220 Length, 1.204 O.D., Exc. 1973-74 Stage 1 Or E Series GS-8 Int
		1973-76	
Lifter	Both	1970-76	VL117RH Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train. VL73 Hydraulic Type
		1970-76	
Rocker Components	Both	1970-76	180-1040 Rocker Arm, Stamped Steel, R.H. 180-1041 Rocker Arm, Stamped Steel, L.H. 187-1014 Retainer
		1970-76	
		1970-76	
Push Rod	Both	1970-76	190-1421 9.378 Length

219 455 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, "Pontiac "
1970-76 V8 455 CID

455PON
BORE - 105.4mm/4.15"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1970-76	2 ¹ / ₈ O.D., 1 ⁷ / ₈ I.D., 7 ⁷ / ₃₂ Depth 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7 ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.660 Valve Head Dia. 1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., 1 ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.770 Valve Head Dia.
	Exh	1970-76	
		1970-76	
Valve	Int	1970-70	01296 1.960 Head Diameter, 4.980 Overall Length, YH Engine 01161 2.110 Head Diameter, Exc. 1970 YH Engine, 1971-72 H.O., 4.979 Overall Length 01216 2.110 Head Diameter, 4.875 Overall Length, 4 Bbl. Carb. Exc. H.O.
		1970-72	
		1971-74	
	Exh	1975-76	01311 2.110 Head Diameter, 4.810 Overall Length 01093 1.660 Head Diameter, 4.984 Overall Length, YH Engine 01160 1.770 Head Diameter, H.O. 4.975 Overall Length 01215 1.770 Head Diameter, 4.875 Overall Length, 4 Bbl. Carb. Exc. H.O. 01247 1.660 Head Diameter, 4.870 Overall Length, 2 Bbl. Carb. Exc. 73-74 Super Duty 01310 1.660 Head Diameter, 4.809 Overall Length
		1970-70	
		1971-72	
		1971-72	
		1971-74	
1975-76			
Keeper	Both	1970-76	121-1003 1 SQ Bead Type
Stem Seal	Both	1970-76	122-1048 Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss

(Cont'd) GM / PASSENGER CAR**455 C.I., (7.5L), OHV, GAS, CARB, 16 Valve, " Pontiac "**
1970-76 V8 455 CID**455PON 219**
BORE - 105.4mm/4.15" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	1970-76	140-6523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1970-76	140-9523	0.3440 I.D.,3.063 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9523H)
Spring	Both	1970-76	160-1136	1.760 Length,Inner, Exc. Super Duty
		1970-76	160-1137	1.940 Length,Outer, Exc. Super Duty
Lifter	Both	1970-76	VL49	Hydraulic Type,Exc.Hi-Perf.
Rocker Components	Both	1970-76	181-1020	Rocker Arm Kit, Includes (1) Rocker Arm (1) Grooved Ball, (1) $\frac{3}{8}$ Nut
		1970-76	184-1038	Nut, $\frac{3}{8}$
Push Rod	Both	1970-76	192-1229	9.136 Length,- 60 U/S (192-1229U60) Available

472 C.I., (7.7L), OHV, GAS, CARB, 16 Valve, Vin 0, 1, 8, 9, R
1968-74 V8 472 CID**GMC472 220**
BORE - 109.2mm/4.30"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-74	SB2125-2	2 $\frac{1}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth
	Exh	1968-74	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1968-73	01084	2.000 Head Diameter,5.233 Overall Length
		1974-74	01293	2.000 Head Diameter,4.998 Overall Length
	Exh	1968-73	01083	1.625 Head Diameter,5.246 Overall Length
		1974-74	01292	1.625 Head Diameter,4.998 Overall Length
Keeper	Both	1968-74	121-1003	1 SQ Bead Type
Stem Seal	Both	1968-74	122-1047	Positive Type,Poly Material,2-Ring Style
Guide	Both	1968-74	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1968-74	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Spring	Both	1968-74	160-1121	2.250 Length
Lifter	Both	1968-74	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1968-74	VL73	Hydraulic Type
Push Rod	Both	1968-74	190-1385	10.200 Length

500 C.I., (8.2L), OHV, GAS, CARB, FI, Vin 0, 1, S
1970-76 V8 500 CID**500S 221**
BORE - 109.2mm/4.30"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1970-76	SB2125-2	2 $\frac{1}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth
	Exh	1970-76	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1970-73	01084	2.000 Head Diameter,5.233 Overall Length
		1974-76	01293	2.000 Head Diameter,4.998 Overall Length
	Exh	1970-73	01083	1.625 Head Diameter,5.246 Overall Length
		1974-76	01292	1.625 Head Diameter,4.998 Overall Length
Keeper	Both	1970-76	121-1003	1 SQ Bead Type
Stem Seal	Both	1970-76	122-1047	Positive Type,Poly Material,2-Ring Style
Guide	Both	1970-76	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1970-76	140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Spring	Both	1970-76	160-1121	2.250 Length

GM / PASSENGER CAR (Cont'd)

221 500 C.I., (8.2L), OHV, GAS, CARB, FI, Vin 0, 1, S
(cont.) 1970-76 V8 500 CID

500S
BORE - 109.2mm/4.30"

PART	YEARS	PART NO.	NOTES
Lifter	Both	1970-76	VL117RH Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1970-76	VL73 Hydraulic Type
Push Rod	Both	1970-76	190-1385 10.200 Length

GM TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
4 Cylinder		
83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin 8, "LUJ Turbo Ecotec" (2013-15)	Encore	1
83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin B, "LUV Turbo Ecotec" (2013-17)	Encore, Trax	2
85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin M, "LE2 Turbo Ecotec" (2016-17)	Encore	3
1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin U "G16KC Suzuki" (1989-95)	Tracker	4
1588cc, (1.6L), SOHC, GAS, FI, 16 Valve, Vin 6 "G16KV Suzuki" (1994-00)	Tracker	5
1817cc, (1.8L), SOHC, GAS, CARB, Vin N "Isuzu" (1972-82)	LUV, Luv Pickup	6
1950cc, (1.9L), SOHC, GAS, CARB, 8 Valve, Vin A "Isuzu" (1982-85)	S10, S10 Blazer, S15, S15 Jimmy	7
122 C.I., (2.0L), OHV, GAS, CARB, 8 Valve, Vin Y (1983-84)	S10, S10 Blazer, S15, S15 Jimmy	8
1995cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin C " J20A Suzuki" (1999-04)	Tracker	9
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 3, L0A (2015-17)	City Express	10
122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin X, LTG (2016-17)	Envision	11
134 C.I., (2.2L), OHV, DIESEL, FI, 8 Valve, Vin S "Isuzu" (1981-84)	LUV, S10, S10 Blazer, S15	12
134 C.I., (2.2L), OHV, FLEX, GAS, FI, 8 Valve, Vin 4, 5, H (1994-03)	LLV, S10, Sonoma	13
134 C.I., (2.2L), DOHC, GAS, FI, 16 Valve, Vin D "L61 Ecotec" (2002-07)	Vue	14
145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin P "LE5 Ecotec" (2008-09)	Vue	15
145 C.I., (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin Z "LAT Ecotec Hybrid" (2007-09)	Vue Hybrid	16
145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin C, W, "LAF Direct Injected Ecotec" (2010-11)	Equinox, Terrain	17
145 C.I., (2.4L), DOHC, FLEX, GAS, FI, 16 Valve, Vin K, "LEA Direct Injected Ecotec" (2012-17)	Captiva Sport, Equinox, Terrain	18
151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin A "Pontiac" (1991-93)	S10, Sonoma	19
151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin E "Pontiac" (1985-91)	S10, S10 Blazer, S15, S15 Jimmy, Sonoma	20
153 C.I., (2.5L), OHV, GAS, CARB, 8 Valve (1963-65)	G10 Van, P10 Series	22
153 C.I., (2.5L), DOHC, FLEX, GAS, FI, 16 Valve, Vin A, LCV (2015-17)	Acadia, Canyon, Colorado, Envision	23

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

Engine	Models	Line No.
4 Cylinder		
169 C.I., (2.8L), DOHC, GAS, FI, 16 Valve, Vin 8 "LK5 Atlas" (2004-06)	Canyon, Colorado	24
171 C.I., (2.8L), DOHC, DIESEL, TURBO, FI, 16 Valve, Vin 1, LWN "DURAMAX" (2016-17)	Canyon, Colorado	26
178 C.I., (2.9L), DOHC, GAS, FI, 16 Valve, Vin 9 "LLV Atlas" (2007-12)	Canyon, Colorado	29
239 C.I., (3.9L), OHV, DIESEL, FI, 8 Valve, Vin L "Turbo Cummins" (1989-91)	P30, P3500	53
290 C.I., (4.8L), DIESEL, FI, Vin 4, 4HE1 "Duramax" (1999-04)	W3500 Forward, W3500 Tiltmaster, W4500 Forward, W4500 Tiltmaster, W5500 Forward, W5500 Tiltmaster, W5500HD Forward, W5500HD Tiltmaster	66
317 C.I., (5.2L), DIESEL, FI, Vin 6, 4HK1 "Duramax" (2005-09)	W3500 Forward, W3500 Tiltmaster, W4500 Forward, W4500 Tiltmaster, W5500 Forward, W5500 Tiltmaster, W5500HD Forward, W5500HD Tiltmaster	75
5 Cylinder		
211 C.I., (3.5L), DOHC, GAS, FI, 20 Valve, Vin 6 "L52 Atlas" (2004-06)	Canyon, Colorado, H3	37
223 C.I., (3.7L), DOHC, GAS, FI, 20 Valve, Vin E "LLR Atlas" (2007-12)	Canyon, Colorado, H3, H3T	45
6 Cylinder		
2500cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin 4 "H25A Suzuki" (2001-04)	Tracker	21
170 C.I., (2.8L), DOHC, GAS, FI, 24 Valve, Vin 4, 6, "LAU Turbo" (2010-11)	SRX	25
173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin B (1982-85)	S10, S10 Blazer, S15, S15 Jimmy	27
173 C.I., (2.8L), OHV, GAS, FI, 12 Valve, Vin R (1986-93)	S10, S10 Blazer, S15, S15 Jimmy, Sonoma	28
181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin B (2002-03)	Vue	30
182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin Y, "LF1 Direct Injected" (2010-11)	Equinox, SRX, Terrain	31
182 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 5, "LFW Direct Injected" (2011-12)	Captiva Sport, Equinox, Terrain	32
189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin D (1990-95)	Lumina APV	33
194 C.I., (3.2L), OHV, GAS, CARB, 12 Valve (1963-67)	El Camino, G10 Van, P10 Series	34
200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin M (1978-79)	Caballero, El Camino	35
207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin E, F (1996-09)	Aztek, Equinox, Lumina APV, Montana, Rendezvous, Silhouette, Torrent, Trans Sport, Venture	36
3474cc, (3.5L), SOHC, GAS, FI, 24 Valve, Vin 4 "Honda J35A3" (2004-07)	Vue	38
213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin L, LX9 (2005-07)	Montana, Rendezvous, Terraza, Uplander	39
213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin N, "LZ4" (2008-09)	Vue	40
216 C.I., (3.5L), OHV, GAS, CARB, 12 Valve "Chevrolet" (1937-53)	Sedan Delivery, Truck	41
217 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 3, "LFX Direct Injected" (2012-17)	Canyon, Colorado, Equinox, SRX, Terrain	42

GM TRUCK / PASSENGER TRUCK (Cont'd)

Engine	Models	Line No.
6 Cylinder		
217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin D, LLT (2009-17)	Acadia, Acadia Limited, Enclave, Outlook, Traverse	43
217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin 7, LY7 (2004-10)	Acadia, Enclave, Equinox, Outlook, Rendezvous, SRX, Torrent, Vue	44
229 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 9, K (1980-84)	Caballero, El Camino	46
230 C.I., (3.8L), OHV, GAS, CARB, Vin S "Chevrolet" (1963-69)	1000 Series, 1500 Series, 2500 Series, 3000, 3500, C10 Panel, C10 Pickup, C15/C1500 Pickup, C20 Pickup, C30 Panel, C30 Pickup, El Camino, G10 Van, G1000 Series, G15/G1500 Van, G20 Van, G25/G2500 Van, I1000, I1500, I2500, K10 Pickup, K15/K1500 Pickup, K20 Pickup, P10 Series, P10 Van, P1000, P15/P1500 Van, P20 Series, P30 Series, PB1000 Series, PB1500 Series, PB2500 Series, Suburban	47
231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 2, A (1979-87)	Caballero, El Camino	48
231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin L (1992-95)	Lumina APV, Silhouette, Trans Sport	49
235 C.I., (3.8L), OHV, GAS, CARB, 12 Valve (1941-62)	1500, 3100, 3B, 3C, 3D, 3E, 3F, 3G, BG, BJ, BK, BL, BM, BN, C10 Pickup, C20 Pickup, C30 Pickup, C40, CK, DJ, DP, DR, DS, El Camino, K10 Pickup, K20 Pickup, P10 Series, P20 Series, P30 Series, PB1000 Series, Sedan Delivery, Suburban, Truck	50
237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin 1, LZ9 (2006-09)	Montana, Relay, Terraza, Uplander	51
237 C.I., (3.9L), OHV, FLEX, FI, 12 Valve, Vin W, LGD (2007-09)	Montana, Relay, Terraza, Uplander	52
248 C.I., (4.1L), OHV, GAS, CARB, 12 Valve (1951-55)	100, 100-22, 100-24, 150, 150-22, 150-24, 250, 250-22, 250-24, 280-22, 300, 300-24, 350-24, 350-27, 370, F350, F350-24, F350-27, F370, M300, M350-24, M350-27, P150-22, PM150, PM150-22, PM150-24, PM151, PM152, PM152-22, PM153, PM250, PM250-24, PM252, PM253, S300, S300-24, S370, Truck	54
250 C.I., (4.1L), OHV, GAS, LPG, CARB, Vin C, D, L, N, P, Q, S (1966-84)	1000, 1500, 2500, 3000, 3500, Blazer, C10, C10 Panel, C10 Pickup, C10 Suburban, C15, C15 Suburban, C15/C1500 Pickup, C15/C1500 Suburban, C1500, C1500 Suburban, C20, C20 Panel, C20 Pickup, C20 Suburban, C25, C25/C2500 Pickup, C25/C2500 Suburban, C2500, C30, C30 Panel, C30 Pickup, C35, C35/C3500 Pickup, C3500, El Camino, G10, G10 Van, G15, G15/G1500 Van, G1500, G20, G20 Van, G25, G25/G2500 Van, G2500, G30, G30 Van, G35, G35/G3500 Van, G3500, I1000, I1500, I2500, I3500, Jimmy, K10, K10 Pickup, K10	55
256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S "LL8 Vortec 4200 Atlas" (2002-09)	Bravada, Envoy, Envoy XL, Envoy XUV, Rainier, Trailblazer, Trailblazer EXT	56
261 C.I., (4.3L), OHV, GAS, CARB, 12 Valve " Chevrolet" (1954-62)	1000 Series, 1500, 1500 Series, 2500 Series, 3000, 3500, C10 Pickup, C20 Pickup, C30 Pickup, C40, K10 Pickup, K20 Pickup, P10 Series, P20 Series, P30 Series, Sedan Delivery, Suburban, Truck	57
262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z (1985-95)	Astro, Bravada, C1500, C2500, Caballero, El Camino, G10, G1500, G20, G2500, G30, G3500, Jimmy, K1500, K2500, P30, P3500, R10, R1500, R20, R2500, S10, S10 Blazer, S15, S15 Jimmy, Safari, Sonoma, Syclone, Typhoon, V10, V1500	58
262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z "TURBO" (1991-93)	Syclone, Typhoon	59

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

Engine	Models	Line No.
6 Cylinder		
262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin W, X, "VORTEC" (1992-14)	Astro, Blazer, Bravada, C1500, Express 1500, Express 2500, Jimmy, K1500, P30, P3500, S10, S10 Blazer, Safari, Savana 1500, Savana 2500, Sierra 1500, Sierra 1500 Classic, Silverado 1500, Silverado 1500 Classic, Sonoma	60
262 C.I., (4.3L), OHV, FLEX, FI, 12 Valve, Vin H, Active Fuel Mgmt., "LV3 Gen V EcoTec3" (2014-17)	Sierra 1500, Silverado 1500	61
292 C.I., (4.8L), OHV, GAS, LPG, CARB, FI, 12 Valve, Vin S, T (1963-89)	1000 Series, 1500 Series, 2500 Series, 3000, 3500, Blazer, C10, C10 Pickup, C10 Suburban, C15, C15/C1500 Pickup, C15/C1500 Suburban, C1500, C20, C20 Pickup, C20 Suburban, C25, C25 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C2500, C2500 Suburban, C30, C30 Pickup, C35, C35/C3500 Pickup, C3500, G20, G20 Van, G25, G25/G2500 Van, G30, G30 Van, G35, G35/G3500 Van, Jimmy, K10, K10 Pickup, K10 Suburban, K15, K15/K1500 Pickup, K15/K1500 Suburban, K1500, K20, K20 Pickup, K20 Suburban, K25, K25 Suburb	67
305 C.I., (5.0L), OHV, GAS, CARB, 12 Valve (1960-68)	1000, 1000 Series, 1500 Series, 2500 Series, 3000, 3500, B3500, C15/C1500 Pickup, C15/C1500 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C35/C3500 Pickup, K1000, K1000 Pickup, K15/K1500 Pickup, K15/K1500 Suburban, K25/K2500 Pickup, K25/K2500 Suburban, K35/K3500 Pickup, L3500, PB1500 Series, PB2500 Series, Suburban, Truck, V3000 Forward Control	71
351 C.I., (5.7L), OHV, GAS, CARB, 12 Valve, Chevrolet V6 (1960-65)	1000 Series, 1500 Series, 2500 Series, 3000, 3500, B3500, L3500, Suburban	94
351 C.I., (5.7L), OHV, GAS, CARB, 12 Valve, Chevrolet V6 C,E,M (1966-72)	3000, 3500, C15/C1500 Pickup, C15/C1500 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C35/C3500 Pickup, K1000, K15/K1500 Pickup, K15/K1500 Suburban, K25/K2500 Pickup, K25/K2500 Suburban, K35/K3500 Pickup, L3500, Suburban	95
379 C.I., (6.2L), GAS, CARB (1973-75)	Series 60 & Series 65	111
401 C.I., (6.6L), GAS, CARB (1960-65)		117
401 C.I., (6.6L), GAS, CARB, M (1966-73)		118
432 C.I., (7.1L), GAS, CARB (1973-74)		123
475 C.I., (7.8L), DIESEL, FI, Vin 3, B, 6HK1-TC "DURAMAX" (1999-09)	C6500 Kodiak, C6500 Topkick, C7500 Kodiak, C7500 Topkick, C8500, C8500 Topkick, T6500, T7500, T8500, W5500 Forward, W5500 Tiltmaster	127
478 C.I., (7.8L), DIESEL, FI (1961-74)		128
478 C.I., (7.8L), GAS, CARB (1962-65)		129
478 C.I., (7.8L), GAS, CARB (1973-75)		130
8 Cylinder		
265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve "Chevrolet" (1955-57)		62
267 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin J (1979-81)	Caballero, El Camino	63
281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin A, "LH2 Northstar" (2004-09)	SRX	64
283 C.I., (4.6L), OHV, GAS, CARB, 16 Valve "Chevrolet" (1955-67)		65
294 C.I., (4.8L), OHV, GAS, FI, 16 Valve, Vin V "LR4 Vortec Gen III" (1999-07)	Express 2500, Express 3500, Savana 2500, Savana 3500, Sierra 1500, Sierra 1500 Classic, Silverado 1500, Silverado 1500 Classic, Tahoe, Yukon	68

GM TRUCK / PASSENGER TRUCK (Cont'd)

Engine	Models	Line No.
8 Cylinder		
294 C.I., (4.8L), OHV, GAS, FI, 16 Valve, Vin C "LY2 Vortec Gen IV" (2007-09)	Express 2500, Express 3500, Savana 2500, Savana 3500, Sierra 1500, Silverado 1500, Tahoe, Yukon	69
294 C.I., (4.8L), OHV, FLEX, FI, 16 Valve, Vin A, F, "L20 Vortec Gen IV" (2010-17)	Express 2500, Express 3500, Savana 2500, Savana 3500, Sierra 1500, Silverado 1500	70
305 C.I., (5.0L), OHV, GAS, CARB, FI, 16 Valve, Vin F, G, H, Q, U (1976-88)	Blazer, C10, C10 Suburban, C15, C15 Suburban, C1500, C1500 Suburban, C20, C20 Suburban, C25, C25 Suburban, C2500, C2500 Suburban, C30, C35, C3500, Caballero, El Camino, G10, G15, G1500, G20, G25, G2500, G30, G3500, Jimmy, K10, K10 Suburban, K15, K15 Suburban, K1500, K1500 Suburban, K20, K20 Suburban, K25, K25 Suburban, K2500, K5 Blazer, P10, R10, R10 Suburban, R1500, R1500 Suburban, R20, R2500, Sprint, V10, V1500	72
305 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin H, M (1989-02)	C1500, C2500, Express 1500, Express 2500, G10, G1500, G20, G2500, K1500, K2500, Savana 1500, Savana 2500	73
307 C.I., (5.0L), OHV, GAS, CARB, Vin A, B, E, F, H, P, U, X (1968-73)	Blazer, C10 Pickup, C10 Suburban, C15/C1500 Pickup, C15/C1500 Suburban, C20 Pickup, C20 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C30 Pickup, C35/C3500 Pickup, El Camino, G10 Van, G15/G1500 Van, G20 Van, G25/G2500 Van, G35/G3500 Van, Jimmy, K10 Pickup, K10 Suburban, K15/K1500 Pickup, K15/K1500 Suburban, K20 Pickup, K20 Suburban, K25/K2500 Pickup, K25/K2500 Suburban, K30 Pickup, K35/K3500 Pickup, P10 Van, P15/P1500 Van, P20 Van, P25/P2500 Van, P30 Van, P35/P3500 Van, Sprint	74
325 C.I., (5.3L), OHV, ELECTRIC/GAS, GAS, FI, 16 Valve, Vin T, "LM7 Vortec 5300 Gen III" (1999-07)	Avalanche 1500, Escalade, Express 1500, Express 2500, Savana 1500, Savana 2500, Sierra 1500, Sierra 1500 Classic, Sierra 2500, Silverado 1500, Silverado 1500 Classic, Silverado 2500, Suburban 1500, Tahoe, Yukon, Yukon XL 1500	76
325 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin Z, "L59 Vortec 5300 Gen III" (2002-07)	Avalanche 1500, Express 1500, Savana 1500, Sierra 1500, Sierra 1500 Classic, Silverado 1500, Silverado 1500 Classic, Suburban 1500, Tahoe, Yukon, Yukon XL 1500	77
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin P "LM4 Vortec 5300 Gen III Aluminum Block" (2003-04)	Rainier, SSR, Trailblazer EXT	78
325 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin B, "L33 H.O. Vortec 5300 Gen III Aluminum Block" (2005-07)	Sierra 1500, Sierra 1500 Classic, Silverado 1500, Silverado 1500 Classic	79
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, Active Fuel Mgmt., "LH6 Vortec 5300 Gen IV Aluminum Block" (2005-09)	Envoy, Envoy XL, Envoy XUV, Rainier, Sierra 1500, Silverado 1500, Trailblazer, Trailblazer EXT	80
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin J, Active Fuel Mgmt., "LY5 Vortec 5300 Gen IV" (2007-09)	Avalanche, Sierra 1500, Silverado 1500, Suburban 1500, Tahoe, Yukon, Yukon XL 1500	81
325 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin 0, Active Fuel Mgmt., "LMG Vortec 5300 Gen IV" (2007-14)	Avalanche, Sierra 1500, Silverado 1500, Suburban 1500, Tahoe, Yukon, Yukon XL 1500	82
325 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin 3, 7, Active Fuel Mgmt., "LC9 Vortec 5300 Gen IV Aluminum Block" (2007-14)	Avalanche, Sierra 1500, Silverado 1500, Suburban 1500, Tahoe, Yukon, Yukon XL 1500	83
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin L, "LH8 Vortec 5300 Gen IV" (2008-09)	Canyon, Colorado, H3, H3T	84

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

Engine	Models	Line No.
8 Cylinder		
323 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin P, "LH9 Vortec 5300 Gen IV" (2010-12)	Canyon, Colorado, H3, H3T	85
323 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin 4, "LMF Vortec 5300 Gen IV" (2008-14)	Express 1500, Savana 1500	86
325 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin C, Active Fuel Mgmt., "L83 Gen V EcoTec3" (2014-17)	Sierra 1500, Silverado 1500, Suburban, Tahoe, Yukon, Yukon XL	87
327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, Vin E (1962-68)	C10 Pickup, C10 Suburban, C15/C1500 Pickup, C15/C1500 Suburban, C20 Pickup, C20 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C30 Pickup, C35/C3500 Pickup, El Camino, K10 Pickup, K10 Suburban, K15/K1500 Pickup, K15/K1500 Suburban, K20 Pickup, K20 Suburban, K25/K2500 Pickup, K25/K2500 Suburban, K30 Pickup, K35/K3500 Pickup, Suburban ..	88
350 C.I., (5.7L), OHV, LPG, CARB, FI, 16 Valve, Vin W (1969-95)	Blazer, C10 Pickup, C10 Suburban, C15/C1500 Pickup, C15/C1500 Suburban, C20 Pickup, C20 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C30 Pickup, C35/C3500 Pickup, G10 Van, G20 Van, K10 Pickup, K10 Suburban, K15/K1500 Pickup, K15/K1500 Suburban, K20 Pickup, K20 Suburban, K25/K2500 Pickup, K25/K2500 Suburban, K30 Pickup, K35/K3500 Pickup	89
350 C.I., (5.7L), OHV, GAS, CARB, Vin A, B, E, H, J, K, L, M, P, V, Y (1969-88)	Blazer, C10, C10 Pickup, C10 Suburban, C15, C15 Suburban, C15/C1500 Pickup, C15/C1500 Suburban, C1500, C1500 Suburban, C20, C20 Pickup, C20 Suburban, C25, C25 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C2500, C2500 Suburban, C30, C30 Pickup, C35, C35/C3500 Pickup, C3500, Caballero, El Camino, G10, G10 Van, G15, G15/G1500 Van, G1500, G20, G20 Van, G25, G25/G2500 Van, G2500, G30, G30 Van, G35, G35/G3500 Van, G3500, Jimmy, K10, K10 Pickup, K10 Suburban, K15, K15 Suburban, K15/K1500 Pickup, K15	90
350 C.I., (5.7L), OHV, DIESEL, FI, 16 Valve, Vin Z (1978-81)	C10, C10 Suburban, C15, C15 Suburban, C1500, C1500 Suburban, C2500 Suburban, C30	91
350 C.I., (5.7L), OHV, CNG, GAS, FI, 16 Valve, Vin K (1989-95)	Blazer, C1500, C1500 Suburban, C2500, C2500 Suburban, C3500, G10, G1500, G20, G2500, G30, G3500, Jimmy, K1500, K1500 Suburban, K2500, K2500 Suburban, K3500, P20, P2500, P30, P3500, R1500 Suburban, R2500, R2500 Suburban, R3500, Tahoe, V1500 Suburban, V2500 Suburban, V3500, Yukon	92
350 C.I., (5.7L), OHV, BI-FUEL, CNG, GAS, FI, 16 Valve, Vin R (1996-02)	C1500, C1500 Suburban, C2500, C2500 Suburban, C3500, Escalade, Express 1500, Express 2500, Express 3500, K1500, K1500 Suburban, K2500, K2500 Suburban, K3500, P30, P3500, Savana 1500, Savana 2500, Savana 3500, Tahoe, Yukon	93
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin H "Aluminum Block Gen IV LS2" (2005-09)	SSR, Trailblazer	96
364 C.I., (6.0L), OHV, BI-FUEL, CNG, GAS, FI, 16 Valve, Vin U, "LQ4 Vortec Gen III" (1999-07)	Express 2500, Express 3500, H2, Savana 2500, Savana 3500, Sierra 1500, Sierra 1500 HD, Sierra 1500 HD Classic, Sierra 2500, Sierra 2500 HD, Sierra 2500 HD Classic, Sierra 3500, Sierra 3500 Classic, Silverado 1500 HD, Silverado 1500 HD Classic, Silverado 2500, Silverado 2500 HD, Silverado 2500 HD Classic, Silverado 3500, Silverado 3500 Classic, Suburban 1500, Suburban 2500, Yukon, Yukon XL 1500, Yukon XL 2500	97
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin N "LQ9 H.O. Vortec Gen III" (2002-07)	Escalade, Escalade ESV, Escalade EXT, Sierra 1500, Sierra 1500 Classic, Silverado 1500, Silverado 1500 Classic	98

GM TRUCK / PASSENGER TRUCK (Cont'd)

Engine	Models	Line No.
8 Cylinder		
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin K "LY6 Vortec Gen IV" (2007-10)	Express 2500, Express 3500, Express 4500, Savana 2500, Savana 3500, Savana 4500, Sierra 2500 HD, Sierra 3500 HD, Silverado 2500 HD, Silverado 3500 HD, Suburban 2500, Yukon XL 2500	99
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin Y, Active Fuel Mgmt., "L76 Vortec Gen IV Aluminum Block" (2007-09)	Avalanche, Sierra 1500, Silverado 1500, Suburban 1500, Yukon XL 1500	100
364 C.I., (6.0L), OHV, FLEX, GAS, FI, 16 Valve, Vin G, "L96 Vortec Gen IV" (2010-17)	Express 2500, Express 3500, Sierra 2500 HD, Sierra 3500 HD, Silverado 2500 HD, Silverado 3500 HD, Suburban 2500, Suburban 3500 HD, Yukon XL 2500	101
364 C.I., (6.0L), OHV, CNG, GAS, FI, 16 Valve, Vin 8, B, LC8 (2011-16)	Express 2500, Express 3500, Express 4500, Savana 2500, Savana 3500, Savana 4500, Sierra 2500 HD, Sierra 3500 HD, Silverado 2500 HD, Silverado 3500 HD	102
364 C.I., (6.0L), OHV, ELECTRIC/GAS, FI, 16 Valve, Vin 5, Active Fuel Mgmt., "LFA Vortec Hybrid Gen IV" (2008-09) ..	Escalade, Sierra 1500, Silverado 1500, Tahoe, Yukon	103
364 C.I., (6.0L), OHV, ELECTRIC/FLEX, FI, 16 Valve, Vin J, Active Fuel Mgmt., "LZ1 Hybrid Vortec Gen IV" (2010-13) ...	Escalade, Sierra 1500, Silverado 1500, Tahoe, Yukon	104
366 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin B (1966-83)	B60, B6000, C50, C5000, C60, C6000, C70, C7000, P60, P6000	105
366 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin L (1984-98)	Medium Duty	106
378 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 8, Active Fuel Mgmt., "L92 Vortec Gen IV" (2007-08)	Escalade, Escalade ESV, Escalade EXT, H2, Sierra 1500, Yukon, Yukon XL 1500	107
376 C.I., (6.2L), OHV, FLEX, FI, 16 Valve, Vin 2, "L9H Vortec Gen IV Aluminum Block" (2009-13)	Escalade, Escalade ESV, Escalade EXT, H2, Sierra 1500, Silverado 1500, Tahoe, Yukon, Yukon XL 1500	108
376 C.I., (6.2L), OHV, FLEX, FI, 16 Valve, Vin F, Active Fuel Mgmt., "L94 Vortec Gen IV Aluminum Block" (2010-14)	Escalade, Escalade ESV, Escalade EXT, Yukon, Yukon XL 1500	109
376 C.I., (6.2L), OHV, FLEX, GAS, FI, 16 Valve, Vin J, "L86 Gen V EcoTec3" (2014-17)	Escalade, Escalade ESV, Sierra 1500, Silverado 1500, Yukon, Yukon XL	110
379 C.I., (6.2L), OHV, DIESEL, FI, 16 Valve, Vin C, J (1982-93)	Blazer, C10, C10 Suburban, C1500, C1500 Suburban, C20, C20 Suburban, C2500, C2500 Suburban, C30, C3500, G20, G2500, G30, G3500, Jimmy, K10, K10 Suburban, K1500, K1500 Suburban, K20, K20 Suburban, K2500, K2500 Suburban, K30, K3500, K5 Blazer, P20, P2500, P30, P3500, R10, R10 Suburban, R1500, R1500 Suburban, R20, R20 Suburban, R2500, R2500 Suburban, R30, R3500, V10, V10 Suburban, V1500, V1500 Suburban, V20, V20 Suburban, V2500, V2500 Suburban, V30, V3500	112
395 C.I., (6.5L), OHV, DIESEL, FI, 16 Valve, Vin F, S, "L65 TURBO" (1992-04)	Blazer, C1500, C1500 Suburban, C2500, C2500 Suburban, C3500, Express 2500, Express 3500, H1, K1500, K1500 Suburban, K2500, K2500 Suburban, K3500, P30, P3500, Savana 2500, Savana 3500, Tahoe, Yukon	113
395 C.I., (6.5L), OHV, DIESEL, FI, 16 Valve, Vin P, Y (1994-99)	C1500, C2500, G20, G2500, G30, G3500, K1500, K2500, P30, P3500	114

(Cont'd) GM TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
8 Cylinder		
396 C.I., (6.5L), OHV, GAS, CARB, Vin E, Y (1968-70)	C10 Pickup, C10 Suburban, C20 Pickup, C20 Suburban, C30 Pickup, El Camino, K10 Pickup, K10 Suburban, K20 Pickup, K20 Suburban, K30 Pickup	115
400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin M, R, U, X (1975-80)	C10, C15, C1500, C20, C20 Suburban, C25, C25 Suburban, C2500, C2500 Suburban, C30, C35, C3500, El Camino, G15, G1500, G25, G2500, G35, G3500, Jimmy, K10, K10 Suburban, K15, K15 Suburban, K1500, K1500 Suburban, K20, K20 Suburban, K25, K25 Suburban, K2500, K2500 Suburban, K30, K35, K3500, K5 Blazer, Sprint	116
402 C.I., (6.6L), OHV, GAS, CARB, Vin E, K, S, U (1971-72) .	Bel Air, Biscayne, Brookwood, C10 Pickup, C10 Suburban, C15/C1500 Pickup, C15/C1500 Suburban, C20 Pickup, C20 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C30 Pickup, C35/C3500 Pickup, Camaro, Caprice, Chevelle, El Camino, Impala, K10 Pickup, K10 Suburban, K15/K1500 Pickup, K15/K1500 Suburban, K20 Pickup, K20 Suburban, K25/K2500 Pickup, K25/K2500 Suburban, K30 Pickup, K35/K3500 Pickup, Kingswood, Monte Carlo, Nova, Sprint, Townsman	119
403 C.I., (6.6L), OHV, DIESEL, FI, 32 Valve, Vin 1, 2, 3, 6, 8, 9, D, L, Y "DURAMAX" (2001-17)	C4500 Kodiak, C4500 Topkick, C5500 Kodiak, C5500 Topkick, Express 2500, Express 3500, Express 4500, H1, Savana 2500, Savana 3500, Savana 4500, Sierra 2500 HD, Sierra 2500 HD Classic, Sierra 3500, Sierra 3500 Classic, Sierra 3500 HD, Silverado 2500 HD, Silverado 2500 HD Classic, Silverado 3500, Silverado 3500 Classic, Silverado 3500 HD	120
427 C.I., (7.0L), GAS, CARB, MEDIUM DUTY (1968-97)	Medium Duty Trucks	121
427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve "Heavy Duty" (1974-81)	Series 70 - 80	122
454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin E, L, S, V, W, Y, Z (1971-90)	Blazer, C10, C10 Pickup, C10 Suburban, C15, C15 Suburban, C15/C1500 Pickup, C15/C1500 Suburban, C1500, C1500 Suburban, C20, C20 Pickup, C20 Suburban, C25, C25 Suburban, C25/C2500 Pickup, C25/C2500 Suburban, C2500, C2500 Suburban, C30, C30 Pickup, C35, C35/C3500 Pickup, C3500, El Camino, G10 Van, G20, G20 Van, G25, G30, G30 Van, G35, G35/G3500 Van, Jimmy, K10, K10 Pickup, K10 Suburban, K15, K15/K1500 Pickup, K15/K1500 Suburban, K1500, K20, K20 Pickup, K20 Suburban, K25, K25 Suburban, K25/K2500 Pi	124
454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin S, W (1979-81)	C10, C10 Suburban, C1500, C1500 Suburban, C20, C20 Suburban, C2500, C2500 Suburban, C30, C3500, K10, K1500, K20, K30, K3500, P1500, P20, P30, P3500	125
454 C.I., (7.4L), OHV, GAS, FI, 16 Valve, Vin B, J, N (1987-00)	C1500, C2500, C2500 Suburban, C3500, Express 3500, G30, G3500, K2500, K2500 Suburban, K3500, P30, P3500, R20, R20 Suburban, R2500, R2500 Suburban, R30, R3500, Savana 3500, V20 Suburban, V2500 Suburban, V30, V3500	126
496 C.I., (8.1L), OHV, GAS, FI, 16 Valve, Vin G "VORTEC" (2001-07)	Avalanche 2500, Express 3500, Savana 3500, Sierra 2500 HD, Sierra 2500 HD Classic, Sierra 3500, Sierra 3500 Classic, Silverado 2500 HD, Silverado 2500 HD Classic, Silverado 3500, Silverado 3500 Classic, Suburban 2500, Yukon XL 2500	131
637 C.I., (10.4L), OHV, GAS, CARB, 16 Valve (1966-72)	Medium Duty Applications	132
12 Cylinder		
702 C.I., (11.6L), GAS, CARB, 12 Valve (1960-65)	Series 70 - 90	133

GM TRUCK / PASSENGER TRUCK (Cont'd)

1 83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin 8, "LUJ Turbo Ecotec" GMT1.4-LUJ
 2013-15 L4 83 CID BORE - 72.5mm/2.85"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-15	13367	1.102 Head Diameter
	Exh	2013-15	13368S	0.984 Head Diameter,Stellite Face
Keeper	Both	2013-15	121-1131	3 RD Bead Type
Stem Seal	Both	2013-15	122-1468	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-15	140-3179	0.1966 I.D.,1.460 Length,0.3952 O.D.
Spring	Both	2013-15	160-1646	1.665 Length
Lifter	Both	2013-15	VL570	Hydraulic Lash Adjuster Type
Rocker Components	Both	2013-15	180-1339	Roller Cam Follower
Head Saver Shim		2013-15	230-2169	New Hgt. - 4.961" - Min. Hgt. N/A

2 83 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin B, "LUV Turbo Ecotec" GMT1.4-LUV
 2013-17 L4 83 CID BORE - 72.5mm/2.85"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-16	13367	1.102 Head Diameter
	Exh	2013-16	13368S	0.984 Head Diameter,Stellite Face
Keeper	Both	2013-16	121-1131	3 RD Bead Type
Stem Seal	Both	2013-16	122-1468	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-16	140-3179	0.1966 I.D.,1.460 Length,0.3952 O.D.
Spring	Both	2013-16	160-1646	1.665 Length
Lifter	Both	2013-16	VL570	Hydraulic Lash Adjuster Type
Rocker Components	Both	2013-16	180-1339	Roller Cam Follower
Head Saver Shim		2013-16	230-2169	New Hgt. - 4.961" - Min. Hgt. N/A

3 85 C.I., (1.4L), DOHC, GAS, FI, 16 Valve, Vin M, "LE2 Turbo Ecotec" GMT1.4-LE2
 2016-17 L4 85 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-16	121-1131	3 RD Bead Type
Lifter	Both	2016-16	VL175	Hydraulic Lash Adjuster Type

4 1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin U "G16KC Suzuki" GMT-G16KC
 1989-95 L4 98 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-95	SB1500-79	1½ O.D.,1.295 I.D.,0.2620 Depth
	Exh	1989-95	SB1375-56	1¾ O.D.,1.102 I.D.,0.2600 Depth
Valve	Int	1989-95	10172	1.441 Head Diameter
	Exh	1989-95	10173S	1.278 Head Diameter,Stellite Face
Keeper	Both	1989-95	121-1061	1 RD Bead Type
Stem Seal	Both	1989-95	122-1142	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1989-95	140-8016	0.2757 I.D.,1.895 Length,0.4758 O.D.
Head Saver Shim		1989-95	230-2032	New Hgt. - 3.7500; Min. Hgt. - 3.7400

5 1588cc, (1.6L), SOHC, GAS, FI, 16 Valve, Vin 6 "G16KV Suzuki" GMT-G16KV
 1994-00 L4 98 CID BORE - 75.2mm/2.96"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-00	SB1250-54	1¼ O.D.,1.010T I.D.,0.2570 Depth
	Exh	1994-00	SB1062-50	1½ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1994-00	10516	1.149 Head Diameter
	Exh	1994-00	10517	0.986 Head Diameter

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

1588cc, (1.6L), SOHC, GAS, FI, 16 Valve, Vin 6 "G16KV Suzuki" **GMT-G16KV 5**
1994-00 L4 98 CID **BORE - 75.2mm/2.96" (cont.)**

PART	YEARS	PART NO.	NOTES
Keeper	Both	1994-00 121-1060	1 RD Bead Type
Stem Seal	Both	1994-00 122-1155	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1994-00 140-8324	0.2163 I.D.,1.260 Length,0.4365 O.D.
Head Saver Shim	Both	1994-00 230-2032	New Hgt. - 4.7250; Min. Hgt. - 4.7150

1817cc, (1.8L), SOHC, GAS, CARB, Vin N "Isuzu" **GMT111N 6**
1972-82 L4 111 CID **BORE - 84mm/3.31"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1976-79 SB1750-51	1¼ O.D.,1.410T I.D.,0.2800 Depth,Series 5-9
		1980-82 SB1750-52	1¾ O.D.,1.455T I.D.,0.3070 Depth,Series 10-12
	Exh	1972-75 SB1375-50	1¾ O.D.,1.109T I.D.,0.2550 Depth,Series 1-4
		1976-82 SB1500-50	1½ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Non-Magnetic (N) Material,Series 5-12
Valve	Int	1976-79 10087	1.673 Head Diameter,Square Groove,Series 5-9
	Exh	1976-79 10086	1.339 Head Diameter,Square Groove,Series 5-9
Keeper	Both	1976-82 121-1047	1 SQ Bead Type
Stem Seal	Both	1972-82 122-1119	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1976-82 140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
	Exh	1976-82 140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available
	Both	1972-75 140-7395	0.3145 I.D.,1.990 Length,0.4750 O.D.,W/ Snap Ring

1950cc, (1.9L), SOHC, GAS, CARB, 8 Valve, Vin A "Isuzu" **GMT119A 7**
1982-85 L4 119 CID **BORE - 87mm/3.43"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1982-85 SB1500-50	1½ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Non-Magnetic (N) Material
Keeper	Both	1982-85 121-1047	1 SQ Bead Type
Stem Seal	Both	1982-85 122-1119	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1982-85 140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
	Exh	1982-85 140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available
Spring	Both	1984-85 160-1247	1.900 Length

122 C.I., (2.0L), OHV, GAS, CARB, 8 Valve, Vin Y **GMT121Y 8**
1983-84 L4 122 CID **BORE - 86mm/3.39"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-84 SB1625-55	1¾ O.D.,1.333T I.D.,0.2370 Depth
	Exh	1983-84 SB1437-58	1 ⁷ / ₁₆ O.D.,1.095T I.D.,0.2370 Depth
Keeper	Both	1983-84 121-1021	1 RD Bead Type
Stem Seal	Int	1983-84 122-1052	Positive Type,Viton Material,Ring & Band Style
	Exh	1983-84 122-1053	Positive Type,Viton Material,Ring & Band Style,Black Color Seal
Guide	Both	1983-84 140-9705	0.3155 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9705U)
Spring	Both	1983-84 160-1009	1.910 Length,W/ Damper
Lifter	Both	1983-84 VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1983-84 VL73	Hydraulic Type
Rocker Components	Both	1983-84 181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1983-84 183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud

GM TRUCK / PASSENGER TRUCK (Cont'd)

8 122 C.I., (2.0L), OHV, GAS, CARB, 8 Valve, Vin Y GMT121Y
 (cont.) 1983-84 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1983-84	184-1025	Stud, 10mm,Adjustable
		1983-84	184-1032	Nut, 10mm,Adjustable

9 1995cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin C " J20A Suzuki" GMT2.0-DC
 1999-04 L4 122 CID BORE - 84.1mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1999-04	10786	1.297 Head Diameter
	Exh	1999-04	10787S	1.102 Head Diameter,Stellite Face
Keeper	Both	1999-04	121-1099	1 RD Bead Type
Stem Seal	Both	1999-04	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1999-04	140-3127	0.2365 I.D., 1.380 Length,0.4367 O.D.,W/ Counterbore
Spring	Both	1999-04	160-1593	1.420 Length,NOTE: Inner For OEM Assembly # 91174436
		1999-04	160-1594	1.592 Length,NOTE: Outer For OEM Assembly # 91174436
Lifter	Both	1999-04	VL120	Hydraulic Bucket Type
Head Saver Shim		1999-04	230-2159	New Hgt. 4.798-4.800; Min. Hgt. N/A

10 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin 3, L0A GMT2.0-L0A
 2015-17 L4 122 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2015-16	13398	1.337 Head Diameter
	Exh	2015-16	13399	1.093 Head Diameter
Keeper	Both	2015-16	121-1064	1 RD Bead Type
Stem Seal	Both	2015-16	122-1162	Positive Type,Viton Material,Metal Clad Style
Spring	Int	2015-16	160-1658	1.927 Length
	Exh	2015-16	160-1659	2.040 Length

11 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin X, LTG GMT2.0-LTG
 2016-17 L4 122 CID BORE - 86mm/3.38"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2016-16	121-1127	1 RD Bead Type
Spring	Both	2016-16	160-1588	1.729 Length,Conical
Lifter	Both	2016-16	VL175	Hydraulic Lash Adjuster Type

12 134 C.I., (2.2L), OHV, DIESEL, FI, 8 Valve, Vin S "Isuzu" GMT2.2-ID
 1981-84 L4 134 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-84	SB1625-55	1 $\frac{5}{8}$ O.D.,1.333T I.D.,0.2370 Depth
	Exh	1981-84	SB1437-58	1 $\frac{7}{16}$ O.D.,1.095T I.D.,0.2370 Depth
Valve	Int	1981-84	10216	1.575 Head Diameter
	Exh	1981-84	10217	1.339 Head Diameter
Stem Seal	Both	1981-84	122-1137	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1981-84	140-7656	0.3145 I.D.,1.970 Length,0.5528 O.D.

13 134 C.I., (2.2L), OHV, FLEX, GAS, FI, 8 Valve, Vin 4, 5, H GMT134
 1994-03 L4 134 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-03	SB1812-55	1 $\frac{13}{16}$ O.D.,1 $\frac{1}{2}$ T I.D.,0.2780 Depth
	Exh	1994-03	SB1562-66	1 $\frac{9}{16}$ O.D.,1.265T I.D.,0.2800 Depth
Valve	Int	1994-97	01736	1.732 Head Diameter,5.465 Overall Length

(Cont'd) GM TRUCK / PASSENGER TRUCK

134 C.I., (2.2L), OHV, FLEX, GAS, FI, 8 Valve, Vin 4, 5, H
1994-03 L4 134 CID

GMT134 13
BORE - 89mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-03	1.732 Head Diameter,0.020 Shorter than OEM.,W/ .2746 Stem Dia., 5.265 Overall Length. 1.457 Head Diameter,5.142 Overall Length 1.457 Head Diameter,0.020 Shorter than OEM.,W/ .2738 Stem Dia., 4.980 Overall Length.	
	Exh	1994-97		
		1998-03		
		01902		
		01737		
		01903		
Keeper	Both	1994-03	121-1090	1 RD Bead Type
Stem Seal	Both	1994-97	122-1236	Positive Type,Viton Material,Ring & Band Style
		1998-03	122-1324	Positive Type,Viton Material,Top Hat Style
Guide	Int	1994-97	140-8536	0.2757 I.D.,2.770 Length,0.5828 O.D. 0.2757 I.D.,2.320 Length,0.5828 O.D. 0.2763 I.D.,2.289 Length,0.5110 O.D.,NOTE: Some Castings May Require The Use of a +2 O/S (140-3009+2) W/ .513 O.D. As The Standard Replacement.
	Exh	1994-97		
	Both	1998-03		
			140-8535	
			140-3009	
Spring	Both	1994-97	160-1267	1.960 Length,Conical
		1998-03	160-1436	1.900 Length,Conical
Lifter	Both	1994-03	VL138	Hydraulic Roller Type
Rocker Components	Both	1994-97	181-1063	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) Nut
Push Rod	Both	1994-97	192-1513	7.458 Length
		1998-03	190-1539	7.515 Length
Head Bolt Set		1994-97	220-1025	Torque To Yield,VIN 4, Services Engine
		1998-03	220-1088	Torque To Yeild,Services Engine
Head Saver Shim		1994-97	230-2021	New Hgt.- 5.3150 - 5.3200; Min. Hgt.- 5.3050
		1998-03	230-2115	New Hgt.- 5.3150 - 5.3200; Min. Hgt.- 5.3050

134 C.I., (2.2L), DOHC, GAS, FI, 16 Valve, Vin D "L61 Ecotec"
2002-07 L4 134 CID

GMT2.2-L61 14
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2002-07	SB1437-69	17/16 O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
	Exh	2002-07		
			SB1250-50	1¼ O.D.,0.965T I.D.,¼ Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
Valve	Int	2002-07	01997	1.382 Head Diameter
	Exh	2002-06	02010S	1.185 Head Diameter,Stellite Face
		2007-07	02010	1.185 Head Diameter
Keeper	Both	2002-07	121-1098	3 RD Bead Type
Stem Seal	Both	2002-07	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2002-07	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2002-07	160-1508	1.678 Length
Lifter	Both	2002-07	VL175	Hydraulic Lash Adjuster Type
Head Bolt Set		2002-07	220-1100	Torque To Yield,Services Engine
Head Saver Shim		2002-07	230-2135	New Hgt. - 5.080 - 5.085

145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin P "LE5 Ecotec"
2008-09 L4 145 CID

GMT2.4-LE5 15
BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2008-09	SB1437-69	17/16 O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth

GM TRUCK / PASSENGER TRUCK (Cont'd)

15 145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin P "LE5 Ecotec"
(cont.) 2008-09 L4 145 CID

GMT2.4-LE5
BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2008-09	SB1250-50	1¼ O.D.,0.965T I.D.,¼ Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
Valve	Int	2008-09	01997	1.382 Head Diameter
	Exh	2008-09	02010	1.185 Head Diameter
Keeper	Both	2008-09	121-1098	3 RD Bead Type
Stem Seal	Both	2008-09	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-09	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2008-09	160-1508	1.678 Length
Lifter	Both	2008-09	VL175	Hydraulic Lash Adjuster Type
Head Saver Shim		2008-09	230-2180	New Hgt. - 5.085; Min. Hgt. - 5.075

16 145 C.I., (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin Z "LAT Ecotec Hybrid"
2007-09 L4 145 CID

GMT2.4-LAT
BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2007-09	SB1437-69	1⅞ O.D.,1.140T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
	Exh	2007-09	SB1250-50	1¼ O.D.,0.965T I.D.,¼ Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
Valve	Int	2007-09	01997	1.382 Head Diameter
	Exh	2007-09	02010	1.185 Head Diameter
Keeper	Both	2007-09	121-1098	3 RD Bead Type
Stem Seal	Both	2007-09	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-09	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2007-09	160-1508	1.678 Length
Lifter	Both	2007-09	VL175	Hydraulic Lash Adjuster Type

17 145 C.I., (2.4L), DOHC, GAS, FI, 16 Valve, Vin C, W, "LAF Direct Injected Ecotec"
2010-11 L4 145 CID

GMT2.4-LAF
BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2010-11	SB1250-50	1¼ O.D.,0.965T I.D.,¼ Depth,NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
Valve	Int	2010-11	13293	1.382 Head Diameter
	Exh	2010-11	02010	1.185 Head Diameter
Keeper	Both	2010-11	121-1098	3 RD Bead Type
Stem Seal	Both	2010-11	122-1355	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-11	140-3029	0.2365 I.D.,1.420 Length,0.3950 O.D.,NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both	2010-11	160-1508	1.678 Length
Lifter	Both	2010-11	VL175	Hydraulic Lash Adjuster Type

18 145 C.I., (2.4L), DOHC, FLEX, GAS, FI, 16 Valve, Vin K, "LEA Direct Injected Ecotec"
2012-17 L4 145 CID

GMT2.4-LEA
BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2012-16	13293	1.382 Head Diameter

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

**145 C.I., (2.4L), DOHC, FLEX, GAS, FI, 16 Valve, Vin K, "LEA Direct
Injected Ecotec"**
2012-17 L4 145 CID

18
GMT2.4-LEA (cont.)
BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Valve	Exh 2012-16	02010	1.185 Head Diameter
Keeper	Both 2012-16	121-1098	3 RD Bead Type
Stem Seal	Both 2012-16	122-1355	Positive Type, Viton Material, Top Hat Style
Guide	Both 2012-16	140-3029	0.2365 I.D., 1.420 Length, 0.3950 O.D., NOTE: May Require +2 O/S (140-3029+2) Due To Factory Installed O/S Guide.
Spring	Both 2012-16	160-1508	1.678 Length
Lifter	Both 2012-16	VL175	Hydraulic Lash Adjuster Type

151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin A "Pontiac"
1991-93 L4 151 CID

19
GMT151A
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1991-93	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1991-93	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1991-93	01592	1.720 Head Diameter, W/ .3135 Stem Dia. Round Groove, 4.591 Overall Length, +15 O/S Stem Available
	Exh 1991-93	01591	1.500 Head Diameter, W/ .3133T Stem Dia. Round Groove, 4.541 Overall Length, +15 O/S Stem Available
Keeper	Both 1991-93	121-1021	1 RD Bead Type
Stem Seal	Both 1991-93	122-1077	Positive Type, Viton Material, Ring & Band Style
Guide	Both 1991-93	140-8040	0.3150 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both 1991-93	160-1083	2.007 Length, W/ External Shroud
	1991-93	160-1475	2.010 Length, W/Damper, Alternative Version To 160-1083, May Require Spring Seat
Lifter	Both 1991-93	VL115	Hydraulic Roller Type, Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both 1991-93	181-1017	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball
Push Rod	Both 1991-93	192-1480	8.272 Length, W/ Roller Lifters
Head Bolt Set	1991-93	220-1015	Torque To Yield, Services Engine

151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin E "Pontiac"
1985-91 L4 151 CID

20
GMT151E
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1985-91	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1985-91	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1985-86	01813	1.720 Head Diameter, 0.020 Shorter Than OEM, Square Groove, W/ .3421 Stem Dia.
	1987-88	01551	1.720 Head Diameter, W/ .3135 Stem Dia. Round Groove, 4.394 Overall Length, +15 O/S Stem Available
	1989-91	01592	1.720 Head Diameter, W/ .3135 Stem Dia. Round Groove, 4.591 Overall Length, +15 O/S Stem Available
	Exh 1985-86	01814	1.500 Head Diameter, 0.020 Shorter Than OEM, Square Groove, W/ .3415 Stem Dia.

GM TRUCK / PASSENGER TRUCK (Cont'd)

20 151 C.I., (2.5L), OHV, GAS, FI, 8 Valve, Vin E "Pontiac" GMT151E
 (cont.) 1985-91 L4 151 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1987-88	01550	1.500 Head Diameter, W/ .3132T Stem Dia., Round Groove, 4.355 Overall Length, +15 O/S Stem Available
		1989-91	01591	1.500 Head Diameter, W/ .3133T Stem Dia. Round Groove, 4.541 Overall Length, +15 O/S Stem Available
Keeper	Both	1985-86	121-1003	1 SQ Bead Type
		1987-91	121-1021	1 RD Bead Type
Stem Seal	Both	1985-86	122-1037	Umbrella Type, Poly Material, Umbrella Style, W/ .341 Sten Dia.
		1985-86	122-1043	O-Ring Type, Nitrile Material, O-Ring Style, W/ .341 Stem Dia.
		1985-86	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss
		1985-86	122-1270	Umbrella Type, Viton Material, Umbrella Style
		1987-91	122-1077	Positive Type, Viton Material, Ring & Band Style
Guide	Both	1985-86	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1985-86	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
		1987-91	140-8040	0.3150 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1987-88	160-1099	1.780 Length, W/ Shroud
		1988-91	160-1083	2.007 Length, W/ External Shroud
		1988-91	160-1475	2.010 Length, W/ Damper, Alternative Version To 160-1083, May Require Spring Seat
Lifter	Both	1985-91	VL115	Hydraulic Roller Type, Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1985-91	181-1017	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball
Push Rod	Both	1985-86	192-1462	8.383 Length, W/ Roller Lifters
		1987-91	192-1480	8.272 Length, W/ Roller Lifters
Head Bolt Set		1985-91	220-1015	Torque To Yield, Services Engine

21 2500cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin 4 "H25A Suzuki" GMT2.5-DC
 2001-04 V6 153 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-04	10786	1.297 Head Diameter
	Exh	2001-04	10787S	1.102 Head Diameter, Stellite Face
Keeper	Both	2001-04	121-1099	1 RD Bead Type
Stem Seal	Both	2001-04	122-1246	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2001-04	140-3127	0.2365 I.D., 1.380 Length, 0.4367 O.D., W/ Counterbore
Spring	Both	2001-04	160-1593	1.420 Length, NOTE: Inner For OEM Assembly # 91174436
		2001-04	160-1594	1.592 Length, NOTE: Outer For OEM Assembly # 91174436
Lifter	Both	2001-04	VL120	Hydraulic Bucket Type

22 153 C.I., (2.5L), OHV, GAS, CARB, 8 Valve GMT153
 1963-65 L4 153 CID BORE - 98.4mm/3.88"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1963-65	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7 ⁷ / ₃₂ Depth
	Exh	1963-65	SB1562-2	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ T I.D., 1 ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1963-65	00399	1.720 Head Diameter, +15 O/S Stem Available

(Cont'd) GM TRUCK / PASSENGER TRUCK**153 C.I., (2.5L), OHV, GAS, CARB, 8 Valve**
1963-65 L4 153 CID**GMT153 22**
BORE - 98.4mm/3.88" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Int	1963-65	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1963-65	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1963-65	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	1963-65	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available	
	1963-65	01646S	1.500 Head Diameter,Inconel, Stellite Face,W/ .3719 Stem Dia., LPG,	
Keeper	Both	1963-65	121-1003	1 SQ Bead Type
Stem Seal	Both	1963-65	122-1014	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D.
		1963-65	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1963-65	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1963-65	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1963-65	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1963-65	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1963-65	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1963-65	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1963-65	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1963-63	160-1117	2.030 Length,W/O Rotator, 1st Design
		1963-65	160-1125	2.050 Length,W/ Damper,2nd Design, W/O Rotator
Lifter	Both	1963-65	VL37	Hydraulic Type
Rocker Components	Both	1963-65	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1963-65	183-1024	Smooth Ball, ³ / ₈
		1963-65	184-1038	Nut, ³ / ₈
Push Rod	Both	1963-65	192-1330	9.682 Length

153 C.I., (2.5L), DOHC, FLEX, GAS, FI, 16 Valve, Vin A, LCV
2015-17 L4 153 CID**GMT2.5-LCV 23**
BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-16	121-1127	1 RD Bead Type
Stem Seal	Both	2015-16	122-1418	Positive Type,Viton Material,Top Hat Style
Spring	Both	2015-16	160-1588	1.729 Length,Conical
Lifter	Both	2015-16	VL175	Hydraulic Lash Adjuster Type

169 C.I., (2.8L), DOHC, GAS, FI, 16 Valve, Vin 8 "LK5 Atlas"
2004-06 L4 169 CID**GMT2.8-LK5 24**
BORE - 92.96mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2004-06	SB1250-50	1/4 O.D.,0.965T I.D.,1/4 Depth,NOTE: Optional 1/4 Depth; Must Machine Insert To Achieve Correct Depth
		2004-06	SB1250-65	1/4 O.D.,1.030 I.D.,0.2150 Depth
Valve	Int	2004-06	01998	1.457 Head Diameter
	Exh	2004-06	01999	1.201 Head Diameter
Keeper	Both	2004-06	121-1098	3 RD Bead Type

GM TRUCK / PASSENGER TRUCK (Cont'd)

24 169 C.I., (2.8L), DOHC, GAS, FI, 16 Valve, Vin 8 "LK5 Atlas" GMT2.8-LK5
 (cont.) 2004-06 L4 169 CID BORE - 92.96mm/3.66"

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	2004-06	122-1349	Positive Type,Viton Material,Top Hat Style
Guide	Both	2004-06	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.
Spring	Both	2004-06	160-1480	1.770 Length
Lifter	Both	2004-06	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2004-06	180-1323	Cam Follower
Head Bolt Set		2004-06	220-1101	Torque To Yield,Services Engine

25 170 C.I., (2.8L), DOHC, GAS, FI, 24 Valve, Vin 4, 6, "LAU Turbo" GMT2.8-LAU
 2010-11 V6 170 CID BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve	Int	2010-11	13211	1.384 Head Diameter
	Exh	2010-11	13230	1.142 Head Diameter
Keeper	Both	2010-11	121-1127	1 RD Bead Type
Stem Seal	Both	2010-11	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-11	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2010-11	160-1579	1.760 Length,Conical
Lifter	Both	2010-11	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2010-11	180-1323	Cam Follower

26 171 C.I., (2.8L), DOHC, DIESEL, TURBO, FI, 16 Valve, Vin 1, LWN
 "DURAMAX" GMT2.8TD-LWN
 2016-17 L4 171 CID BORE - 94mm/3.70"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2016-16	121-1098	3 RD Bead Type
Stem Seal	Both	2016-16	122-1329	Positive Type,Viton Material,Metal Clad Style

27 173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin B GMT173-CA
 1982-85 V6 173 CID BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-85	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ¹⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1982-85	SB1437-3	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1982-85	01395	1.600 Head Diameter,0.341 Stem Dia.
	Exh	1982-85	01394	1.307 Head Diameter,0.341 Stem Dia.
Keeper	Both	1982-85	121-1003	1 SQ Bead Type
Stem Seal	Both	1982-85	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1982-85	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1982-85	122-1047	Positive Type,Poly Material,2-Ring Style
		1982-85	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	1982-85	140-9560	0.3440 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Cast Iron Heads
Lifter	Both	1982-85	VL94	Hydraulic Type
Rocker Components	Both	1982-85	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1982-85	183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1982-85	184-1025	Stud, 10mm,Adjustable
		1982-85	184-1032	Nut, 10mm,Adjustable
Push Rod	Both	1982-85	192-1444	6.162 Length

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

173 C.I., (2.8L), OHV, GAS, CARB, 12 Valve, Vin B
1982-85 V6 173 CID

GMT173-CA 27
BORE - 89mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES
Head Saver Shim	1982-85	230-2025	New Hgt. - 3.5805 - 3.5950; Min. Hgt. - 3.5750, 2 Required

173 C.I., (2.8L), OHV, GAS, FI, 12 Valve, Vin R
1986-93 V6 173 CID

GMT173-FI 28
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-93	SB1812-4 1 ³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material	
	Exh	1986-93		SB1500-1 1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1986-93	01481 1.718 Head Diameter, +15 O/S Stem Available	
	Exh	1986-93		01480 1.425 Head Diameter, +15 O/S Stem Available
Keeper	Both	1986-93	121-1003 1 SQ Bead Type	
Stem Seal	Exh	1988-93	122-1075	Positive Type, Viton Material, Ring & Band Style Umbrella Type, Poly Material, Umbrella Style O-Ring Type, Nitrile Material, O-Ring Style Umbrella Type, Viton Material, Umbrella Style
		1986-87	122-1037	
		1986-87	122-1043	
		1986-87	122-1270	
Guide	Both	1986-93	140-8112	0.3155 I.D., 2.085 Length, 0.5530 O.D., W/ Snap Ring, Aluminum Head, +2 O/S Available 0.3440 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Cast Iron Head
		1986-93	140-9560	
Lifter	Both	1986-93	VL94 Hydraulic Type	
Rocker Components	Both	1986-93	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud Stud, 10mm, Adjustable Nut, 10mm, Adjustable
		1986-93	183-1015	
		1986-93	184-1025	
		1986-93	184-1032	
Push Rod	Both	1986-93	192-1444 6.162 Length	
Head Saver Shim		1986-93	230-2025 New Hgt. - 3.5805 - 3.5950; Min. Hgt. - 3.5750, 2 Required	

178 C.I., (2.9L), DOHC, GAS, FI, 16 Valve, Vin 9 "LLV Atlas"
2007-12 L4 178 CID

GMT2.9-LLV 29
BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Valve	Int	2007-12	13179 1.525 Head Diameter
	Exh	2007-12		13046 1.323 Head Diameter
Keeper	Both	2007-12	121-1098 3 RD Bead Type
Stem Seal	Both	2007-12	122-1394 Positive Type, Viton Material, Top Hat Style
Guide	Both	2007-12	140-8556 0.2355 I.D., 1.735 Length, 0.4360 O.D.
Spring	Both	2007-12	160-1579 1.760 Length, Conical
Lifter	Both	2007-12	VL175 Hydraulic Lash Adjuster Type
Rocker Components	Both	2007-12	180-1323 Cam Follower
Head Bolt Set		2007-12	220-1101 Torque To Yield, Services Engine
Head Saver Shim		2007-12	230-2181 New Hgt. - N/A; Min. Hgt. - N/A

181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin B
2002-03 V6 181 CID

GMT181B 30
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve	Int	2002-03	10784 1.260 Head Diameter
	Exh	2002-03	

GM TRUCK / PASSENGER TRUCK (Cont'd)

30 181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin B GMT181B
 (cont.) 2002-03 V6 181 CID BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve	Exh	2002-03	22040S	1.142 Head Diameter, Alternative Austenitic Material, Stellite Face
Keeper	Both	2002-03	121-1098	3 RD Bead Type
Stem Seal	Both	2002-03	122-1329	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2002-03	140-3010	0.2362 I.D., 1.773 Length, 0.3950 O.D.
	Exh	2002-03	140-3011	0.2362 I.D., 1.378 Length, 0.3950 O.D.
Lifter	Both	2000-05	VL571	Hydraulic Bucket Type
Head Bolt Set		2002-03	220-1092	Torque To Yield, 2 Required
Head Saver Shim		2002-03	230-2173	New Hgt. - 5.272 - 5.280; Min Hgt. - 5.272

31 182 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin Y, "LF1 Direct Injected" GMT3.0-LF1
 2010-11 V6 182 CID BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve	Int	2010-11	13211	1.384 Head Diameter
	Exh	2010-11	13212	1.205 Head Diameter
Keeper	Both	2010-11	121-1127	1 RD Bead Type
Stem Seal	Both	2010-11	122-1418	Positive Type, Viton Material, Top Hat Style
Guide	Both	2010-11	140-3112	0.2365 I.D., 1.655 Length, 0.4358 O.D.
Spring	Both	2010-11	160-1588	1.729 Length, Conical
Lifter	Both	2010-11	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2010-11	180-1323	Cam Follower

32 182 C.I., (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 5, "LFW Direct Injected" GMT3.0-LFW
 2011-12 V6 182 CID BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve	Int	2011-12	13211	1.384 Head Diameter
	Exh	2011-12	13212	1.205 Head Diameter
Keeper	Both	2011-12	121-1127	1 RD Bead Type
Stem Seal	Both	2011-12	122-1418	Positive Type, Viton Material, Top Hat Style
Guide	Both	2011-12	140-3112	0.2365 I.D., 1.655 Length, 0.4358 O.D.
Spring	Both	2011-12	160-1588	1.729 Length, Conical
Lifter	Both	2011-12	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2011-12	180-1323	Cam Follower

33 189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin D GMT189D
 1990-95 V6 189 CID BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-95	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1990-95	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1990-95	01481	1.718 Head Diameter, +15 O/S Stem Available
	Exh	1990-95	01480	1.425 Head Diameter, +15 O/S Stem Available
Keeper	Both	1990-95	121-1003	1 SQ Bead Type
Stem Seal	Both	1990-95	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1990-95	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1990-95	122-1270	Umbrella Type, Viton Material, Umbrella Style

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

189 C.I., (3.1L), OHV, GAS, FI, 12 Valve, Vin D
1990-95 V6 189 CID

GMT189D **33**
BORE - 89mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Both	1990-95	140-9560	0.3440 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1990-95	160-1076	2.110 Length
Lifter	Both	1990-95	VL94	Hydraulic Type
Rocker Components	Both	1990-95	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1990-95	183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1990-95	184-1025	Stud, 10mm,Adjustable
		1990-95	184-1032	Nut, 10mm,Adjustable
		1990-95	184-1033	Nut, 8mm,Non-Adjustable
Push Rod	Both	1990-95	192-1444	6.162 Length

194 C.I., (3.2L), OHV, GAS, CARB, 12 Valve
1963-67 L6 194 CID

GMT194 **34**
BORE - 90.5mm/3.56"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1963-67	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1963-67	SB1562-2	1 ⁹ / ₁₆ O.D.,1 ¹ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1963-67	00399	1.720 Head Diameter,+15 O/S Stem Available
		1963-67	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1963-67	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1963-67	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1963-67	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1963-67	121-1003	1 SQ Bead Type
Stem Seal	Both	1963-67	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1963-67	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1963-67	122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia. & Use W/ Factory Guide Boss
		1963-67	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1963-67	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1963-67	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1963-67	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1963-67	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1963-67	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1963-67	160-1148	1.900 Length
Lifter	Both	1963-67	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1963-67	VL73	Hydraulic Type
Rocker Components	Both	1963-67	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1963-67	183-1024	Smooth Ball, ³ / ₈
		1963-67	184-1038	Nut, ³ / ₈
Push Rod	Both	1963-67	192-1330	9.682 Length

GM TRUCK / PASSENGER TRUCK (Cont'd)

35 200 C.I., (3.3L), OHV, GAS, CARB, 12 Valve, Vin M
1978-79 V6 200 CID

GMT200M
BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-79	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ¹⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1978-79	SB1437-2	1 ¹⁷ / ₁₆ O.D., 1 ⁷ / ₃₂ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	1978-79	121-1003	1 SQ Bead Type
Stem Seal	Both	1978-79	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1978-79	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1978-79	122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		1978-79	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1978-79	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1978-79	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1978-79	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
Lifter	Both	1978-79	VL37	Hydraulic Type
Rocker Components	Both	1978-79	180-1228	Rocker Arm
		1978-79	180-1283	Rocker Arm, Rail Type, Optional
		1978-79	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1978-79	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut, Optional
		1978-79	183-1017	Smooth Ball, ³ / ₈
1978-79	183-1032	Grooved Ball, ³ / ₈		
Push Rod	Both	1978-79	192-1331	7.798 Length

36 207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin E, F
1996-09 V6 207 CID

GMT207EF
BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1996-97	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ¹ / ₄ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
		1998-09	SB1812-1	1 ¹³ / ₁₆ O.D., 1 ¹⁹ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
	Exh	1996-09	SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available
Valve	Int	1996-97	01810	1.718 Head Diameter
		1998-09	01929	1.760 Head Diameter
	Exh	1996-09	01811	1.425 Head Diameter
Keeper	Both	1996-09	121-1085	1 RD Bead Type
Stem Seal	Both	1996-99	122-1314	Positive Type, Viton Material, Top Hat Style
		2000-09	122-1336	Positive Type, Viton Material, Top Hat Style
Guide	Both	1996-99	140-8112	0.3155 I.D., 2.085 Length, 0.5530 O.D., W/ Snap Ring, +2 O/S Available
		2000-09	140-3067	0.3155 I.D., 2.085 Length, 0.5525 O.D., +2 O/S Also Available
Spring	Both	1996-09	160-1363	1.940 Length, Conical
Lifter	Both	1996-09	VL138	Hydraulic Roller Type
Rocker Components	Both	2003-07	180-1329	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	1996-07	190-1534	5.750 Length, Hardened
	Exh	1996-07	190-1535	6.074 Length, Hardened
Head Bolt Set		1996-04	220-1085	Torque To Yield, Services Engine

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

207 C.I., (3.4L), OHV, GAS, FI, 12 Valve, Vin E, F
1996-09 V6 207 CID

GMT207EF **36**
BORE - 92mm/3.62" (cont.)

PART	YEARS	PART NO.	NOTES
Head Saver Shim	1996-07	230-2132	New Hgt. - 3.585 - 3.595; Min. Hgt. - 3.575,2 Required

211 C.I., (3.5L), DOHC, GAS, FI, 20 Valve, Vin 6 "L52 Atlas"
2004-06 L5 211 CID

GMT3.5-L52 **37**
BORE - 92.96mm/3.66"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 2004-06 2004-06	SB1250-50 SB1250-65	1¼ O.D.,0.965T I.D.,¼ Depth,NOTE: Optional ¼ Depth; Must Machine Insert To Achieve Correct Depth 1¼ O.D.,1.030 I.D.,0.2150 Depth
Valve	Int 2004-06 Exh 2004-06	01998 01999	1.457 Head Diameter 1.201 Head Diameter
Keeper	Both 2004-06	121-1098	3 RD Bead Type
Stem Seal	Both 2004-06	122-1349	Positive Type,Viton Material,Top Hat Style
Guide	Both 2004-06	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.
Spring	Both 2004-06	160-1480	1.770 Length
Lifter	Both 2004-06	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both 2004-06	180-1323	Cam Follower
Head Bolt Set	2004-06	220-1101	Torque To Yield,Services Engine
Head Saver Shim	2004-06	230-2183	New Hgt. - N/A; Min. Hgt. - N/A

3474cc, (3.5L), SOHC, GAS, FI, 24 Valve, Vin 4 " Honda J35A3 "
2004-07 V6 212 CID

GMT3.5-SC24V **38**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int 2004-07 Exh 2004-07	10778 10779	1.378 Head Diameter 1.181 Head Diameter
Keeper	Both 2004-07	121-1060	1 RD Bead Type
Stem Seal	Int 2004-07 Exh 2004-07	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 2004-07 Exh 2004-07	140-8158 140-8157	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring 0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim	2004-07	230-2172	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin L, LX9
2005-07 V6 213 CID

GMT3.5-LX9 **39**
BORE - 93.98mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve	Int 2005-07 Exh 2005-07	02172 02173	1.760 Head Diameter 1.425 Head Diameter
Keeper	Both 2005-07	121-1085	1 RD Bead Type
Stem Seal	Both 2005-07	122-1336	Positive Type,Viton Material,Top Hat Style
Lifter	Both 2005-07	VL138	Hydraulic Roller Type
Rocker Components	Both 2005-07	180-1329	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int 2005-07 Exh 2005-07	190-1534 190-1535	5.750 Length,Hardened 6.074 Length,Hardened
Head Bolt Set	2005-07	220-1122	Torque To Yield,Services Engine

213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin N, "LZ4"
2008-09 V6 213 CID

GMT3.5-LZ4 **40**
BORE - 99mm/3.90"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2008-09	SB1937-55	1 ¹⁵ / ₁₆ O.D.,1.640T I.D.,0.2900 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth

GM TRUCK / PASSENGER TRUCK (Cont'd)

40 213 C.I., (3.5L), OHV, GAS, FI, 12 Valve, Vin N, "LZ4" GMT3.5-LZ4
 (cont.) 2008-09 V6 213 CID BORE - 99mm/3.90"

PART		YEARS	PART NO.	NOTES
Valve	Int	2008-09	13043	1.870 Head Diameter
	Exh	2008-09	13044	1.523 Head Diameter
Keeper	Both	2008-09	121-1085	1 RD Bead Type
Stem Seal	Int	2008-09	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2008-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2008-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2008-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2008-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2008-09	160-1607	2.081 Length,Conical, W/ External Shroud
Lifter	Both	2008-09	VL138	Hydraulic Roller Type
Rocker Components	Both	2008-09	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int	2008-09	190-1546	5.879 Length
	Exh	2008-09	190-1547	6.168 Length
Head Saver Shim		2008-09	230-2182	New Hgt. - N/A; Min. Hgt. - N/A

41 216 C.I., (3.5L), OHV, GAS, CARB, 12 Valve "Chevrolet" GMT216
 1937-53 L6 216 CID BORE - 88.9mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1937-53	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1937-53	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Exh	1950-53	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1950-53	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1950-53	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1950-53	121-1003	1 SQ Bead Type
Stem Seal	Both	1950-53	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1938-40	140-1453	0.3435 I.D.,3.219 Length,0.5655 O.D.
		1941-53	140-1732	0.3435 I.D.,3.344 Length,0.5648 O.D.
	Exh	1938-40	140-1476	0.3432 I.D.,2.188 Length,0.5655 O.D.
		1941-53	140-1527	0.3435 I.D.,2.438 Length,0.5650 O.D.
Spring	Both	1938-53	160-1126	2.160 Length

42 217 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 3, "LFX Direct Injected" GMT3.6-LFX
 2012-17 V6 217 CID BORE - 94mm/3.70"

PART		YEARS	PART NO.	NOTES
Valve	Int	2012-17	13333	1.510 Head Diameter
	Exh	2012-17	13212	1.205 Head Diameter
Keeper	Both	2012-17	121-1127	1 RD Bead Type
Stem Seal	Both	2012-17	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2012-17	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

217 C.I., (3.6L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 3, "LFX Direct
Injected"
2012-17 V6 217 CID

42
GMT3.6-LFX (cont.)
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Spring	Both	2012-12	160-1579	1.760 Length,Conical
		2013-17	160-1588	1.729 Length,Conical
Lifter	Both	2012-17	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2012-17	180-1323	Cam Follower

217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin D, LLT
2009-17 V6 217 CID

GMT3.6-LLT **43**
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-10	13081	1.456 Head Diameter
		2011-16	13334	1.457 Head Diameter
	Exh	2009-10	13082	1.205 Head Diameter
		2011-16	13335	1.205 Head Diameter
Keeper	Both	2009-16	121-1127	1 RD Bead Type
Stem Seal	Both	2009-16	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-16	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2009-12	160-1579	1.760 Length,Conical
		2013-16	160-1588	1.729 Length,Conical
Lifter	Both	2009-16	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2009-16	180-1323	Cam Follower

217 C.I., (3.6L), DOHC, GAS, FI, 24 Valve, Vin 7, LY7
2004-10 V6 217 CID

GMT3.6-LY7 **44**
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-10	13081	1.456 Head Diameter
	Exh	2004-10	13082	1.205 Head Diameter
Keeper	Both	2004-10	121-1127	1 RD Bead Type
Stem Seal	Both	2004-10	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2004-10	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2004-10	160-1588	1.729 Length,Conical
Lifter	Both	2004-10	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2004-10	180-1323	Cam Follower

223 C.I., (3.7L), DOHC, GAS, FI, 20 Valve, Vin E "LLR Atlas"
2007-12 L5 223 CID

GMT3.7-LLR **45**
BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-12	13179	1.525 Head Diameter
	Exh	2007-12	13046	1.323 Head Diameter
Keeper	Both	2007-12	121-1098	3 RD Bead Type
Stem Seal	Both	2007-12	122-1394	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-12	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.
Spring	Both	2007-12	160-1579	1.760 Length,Conical
Lifter	Both	2007-12	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2007-12	180-1323	Cam Follower
Head Bolt Set		2007-12	220-1101	Torque To Yield,Services Engine
Head Saver Shim		2007-12	230-2184	New Hgt. - N/A; Min. Hgt. - N/A

GM TRUCK / PASSENGER TRUCK (Cont'd)

46 229 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 9, K
1980-84 V6 229 CID

GMT229
BORE - 94.9mm/3.74"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-84	SB1937-1	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 1/4 Depth
	Exh	1980-84	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1980-84	01393	1.840 Head Diameter, +3 & +15 O/S Stem Available
	Exh	1980-84	01192	1.500 Head Diameter, +3 & +15 O/S Stem Available
Keeper	Both	1980-84	121-1003	1 SQ Bead Type, W/ .341 Stem Dia.
Stem Seal	Int	1980-84	122-1075	Positive Type, Viton Material, Ring & Band Style
	Exh	1980-84	122-1233	Umbrella Type, Nylon Material, Umbrella Style
	Both	1980-84	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1980-84	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
	1980-84	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss	
	1980-84	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems	
Guide	Int	1980-84	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1980-84	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1980-84	160-1144	2.048 Length, W/ Damper
		1980-84	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1980-84	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh	1980-84	161-1012	
Lifter	Both	1980-84	VL37	Hydraulic Type
Rocker Components	Both	1980-84	180-1228	Rocker Arm
		1980-84	180-1283	Rocker Arm, Rail Type, Optional
		1980-84	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1980-84	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		1980-84	183-1017	Smooth Ball, 3/8
		1980-84	183-1032	Grooved Ball, 3/8
1980-84	184-1038	Nut, 3/8		
Push Rod	Both	1980-84	192-1331	7.798 Length

47 230 C.I., (3.8L), OHV, GAS, CARB, Vin S "Chevrolet"
1963-69 L6 230 CID

GMT230
BORE - 98.4mm/3.88"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1963-69	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth
	Exh	1963-69	SB1562-2	1 ⁷ / ₁₆ O.D., 1 ¹⁵ / ₁₆ T I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1963-69	00399	1.720 Head Diameter, +15 O/S Stem Available
		1963-69	01193	1.720 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1963-69	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		1963-69	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
1963-69	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available		
Keeper	Both	1963-69	121-1003	1 SQ Bead Type
Stem Seal	Both	1963-69	122-1075	Positive Type, Viton Material, Ring & Band Style

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

230 C.I., (3.8L), OHV, GAS, CARB, Vin S "Chevrolet"
1963-69 L6 230 CID

GMT230 47
BORE - 98.4mm/3.88" (cont.)

PART	YEARS	PART NO.	NOTES
Stem Seal	Both 1963-69	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int 1963-69	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh 1963-69	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
	1963-69	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both 1963-69	160-1125	2.050 Length,W/ Damper,W/ Rotator
	1963-69	160-1148	1.900 Length,W/O Rotator
Lifter	Both 1963-69	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
	1963-69	VL73	Hydraulic Type
Rocker Components	Both 1963-69	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
	1963-69	183-1024	Smooth Ball, 3/8
	1963-69	184-1038	Nut, 3/8
Push Rod	Both 1963-69	192-1330	9.682 Length

231 C.I., (3.8L), OHV, GAS, CARB, 12 Valve, Vin 2, A
1979-87 V6 231 CID

GMT3.8-CA 48
BORE - 96mm/3.78", 96.5mm/3.80"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1979-87	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D.,7/32 Depth
	Exh 1979-87	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ T I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int 1979-87	01388	1.710 Head Diameter,Square Groove,0.3407 Stem, 4.713 Overall Length
	Exh 1979-87	01387	1.500 Head Diameter,W/ Seal Groove
Keeper	Both 1979-87	121-1003	1 SQ Bead Type
Stem Seal	Int 1979-87	122-1217	Positive Type,Viton Material,Ring & Band Style
	Exh 1979-87	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both 1979-87	122-1048	Positive Type,Poly Material,2-Ring Style
Guide	Int 1979-87	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh 1979-87	140-6105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		140-9105	0.3440 I.D.,2.500 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9105U)
Spring	Exh 1979-80	160-1144	2.048 Length,W/ Damper
	Both 1979-80	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
	1979-80	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both 1979-87	VL37	Hydraulic Type
Rocker Components	Both 1979-84	180-1040	Rocker Arm, Stamped Steel,R.H.
	1979-84	180-1041	Rocker Arm, Stamped Steel,L.H.
	1979-87	187-1014	Retainer
Push Rod	Both 1979-84	190-1433	8.686 Length,Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available

GM TRUCK / PASSENGER TRUCK (Cont'd)

49 231 C.I., (3.8L), OHV, GAS, FI, 12 Valve, Vin L
1992-95 V6 231 CID

GMT3.8-FI
BORE - 96.5mm/3.80"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1992-95	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1992-95	SB1562-42	1 ¹ / ₁₆ O.D., 1 ³ / ₁₆ T I.D., 7/32 Depth, Optional 1 ³ / ₁₆ x 1 ¹ / ₈ Tapered I.D.
		1992-95	SB1562-9	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ T I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1992-95	01711	1.710 Head Diameter, Square Groove, 0.3407 Stem, 4.726 Overall Length, +15 O/S Stem Available
	Exh	1992-95	01710	1.490 Head Diameter, Square Groove, 0.3408 Stem, 4.727 Overall Length, +15 O/S Stem Available
Keeper	Both	1992-95	121-1003	1 SQ Bead Type
Stem Seal	Int	1992-95	122-1217	Positive Type, Viton Material, Ring & Band Style
	Exh	1992-95	122-1218	Positive Type, Viton Material, Ring & Band Style
Guide	Both	1992-95	140-5606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Available (140-5606U)
		1992-95	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both	1992-95	160-1085	1.981 Length
Lifter	Both	1992-95	VL115	Hydraulic Roller Type, Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Push Rod	Both	1992-95	192-1491	7.963 Length

50 235 C.I., (3.8L), OHV, GAS, CARB, 12 Valve
1941-62 L6 235 CID

GMT235
BORE - 90.5mm/3.56"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1941-62	SB1937-17	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 7/32 Depth
	Exh	1941-62	SB1562-2	1 ¹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ T I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1953-62	00308	1.875 Head Diameter
	Exh	1953-62	00400	1.500 Head Diameter, +3 & +15 O/S Stem Available
		1953-62	01192	1.500 Head Diameter, Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1953-62	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1953-62	121-1003	1 SQ Bead Type
Stem Seal	Both	1941-62	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D.
		1941-62	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1941-62	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1941-62	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia.
		1941-62	122-1270	Umbrella Type, Viton Material, Umbrella Style
		1953-62	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1941-62	140-1732	0.3435 I.D., 3.344 Length, 0.5648 O.D.
	Exh	1941-62	140-1527	0.3435 I.D., 2.438 Length, 0.5650 O.D.
Spring	Both	1941-62	160-1126	2.160 Length, Exc. 1958
		1958-58	160-1116	2.250 Length

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

237 C.I., (3.9L), OHV, GAS, FI, 12 Valve, Vin 1, LZ9
2006-09 V6 237 CID

GMT3.9-LZ9 **51**
BORE - 99mm/3.90"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2006-09	SB1937-55	1 ¹⁵ / ₁₆ O.D., 1.640T I.D., 0.2900 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int 2006-09	13043	1.870 Head Diameter
	Exh 2006-09	13044	1.523 Head Diameter
Keeper	Both 2006-09	121-1085	1 RD Bead Type
Stem Seal	Int 2006-09	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh 2006-09	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both 2006-09	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
	2006-09	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
	2006-09	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
	2006-09	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both 2006-09	160-1607	2.081 Length, Conical, W/ External Shroud
Lifter	Both 2006-09	VL138	Hydraulic Roller Type
Rocker Components	Both 2006-09	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int 2006-09	190-1546	5.879 Length
	Exh 2006-09	190-1547	6.168 Length
Head Saver Shim	2006-09	230-2182	New Hgt. - N/A; Min. Hgt. - N/A

237 C.I., (3.9L), OHV, FLEX, FI, 12 Valve, Vin W, LGD
2007-09 V6 237 CID

GMT3.9-LGD **52**
BORE - 99mm/3.90"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2007-09	SB1937-55	1 ¹⁵ / ₁₆ O.D., 1.640T I.D., 0.2900 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int 2007-09	13043	1.870 Head Diameter
	Exh 2007-09	13044	1.523 Head Diameter
Keeper	Both 2007-09	121-1085	1 RD Bead Type
Stem Seal	Int 2007-09	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh 2007-09	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both 2007-09	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
	2007-09	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
	2007-09	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
	2007-09	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both 2007-09	160-1607	2.081 Length, Conical, W/ External Shroud
Lifter	Both 2007-09	VL138	Hydraulic Roller Type
Rocker Components	Both 2007-09	180-1331	Rocker Arm, Roller Pivot Assy., W/8mm Bolt
Push Rod	Int 2007-09	190-1546	5.879 Length
	Exh 2007-09	190-1547	6.168 Length
Head Saver Shim	2007-09	230-2182	New Hgt. - N/A; Min. Hgt. - N/A

GM TRUCK / PASSENGER TRUCK (Cont'd)

53 239 C.I., (3.9L), OHV, DIESEL, FI, 8 Valve, Vin L "Turbo Cummins"
1989-91 L4 239 CID

GMT3.9TD
BORE - 102mm/4.016"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-91	SB1853E-1	1.853 O.D., 1.498T I.D., 0.2730 Depth
		1989-91	SB1875-8	1 ⁷ / ₈ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth, Universal Size Seat For Head W/O OEM Seat
	Exh	1989-91	SB1722E-1	1.722 O.D., 1.357T I.D., 0.2650 Depth
		1989-91	SB1750-7	1 ³ / ₄ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Universal Size Seat For Head W/O OEM Seat
Valve	Int	1989-91	01665	1.772 Head Diameter, W/ 30 Degree Seat
	Exh	1989-91	01664	1.654 Head Diameter, W/ 45 Degree Seat
Keeper	Both	1989-91	121-1079	1 RD Bead Type
Stem Seal	Both	1989-91	122-1053	Positive Type, Viton Material, Ring & Band Style, Black Color Seal
		1989-91	122-1269	Positive Type, Viton Material, Ring & Band Style, Orange Color Seal
Guide	Int	1989-91	140-8177	0.3162 I.D., 2.382 Length, 0.5528 O.D.
		1989-91	140-8177SA	0.3162 I.D., 2.382 Length, 0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Exh	1989-91	140-8178	0.3160 I.D., 2.052 Length, 0.5528 O.D.
		1989-91	140-8178SA	0.3160 I.D., 2.052 Length, 0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Both	1989-91	140-8277	0.3162 I.D., 2.500 Length, 0.4393 O.D., W/O Seal Boss, Universal Length
	Lifter	Both	1989-91	VL156	Mechanical Type
Push Rod	Both		190-1530	10.910 Length

54 248 C.I., (4.1L), OHV, GAS, CARB, 12 Valve
1951-55 L6 248 CID

GMT248
BORE - 94.5mm/3.72"

PART	YEARS	PART NO.	NOTES	
Guide	Int	1951-55	140-1803	0.3745 I.D., 2.938 Length, 0.6895 O.D.
	Exh	1951-55	140-1740	0.3745 I.D., 2.813 Length, 0.6893 O.D.

55 250 C.I., (4.1L), OHV, GAS, LPG, CARB, Vin C, D, L, N, P, Q, S
1966-84 L6 250 CID

GMT250DQ
BORE - 93.5mm/3.68"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1966-84	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1966-84	SB1562-2	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material, Exc. LPG
		1966-84	SB1562-2N	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth, LPG
Valve	Int	1966-84	01193	1.720 Head Diameter, Except LPG, +3 & +15 O/S Stem Available
		1966-84	01194	1.720 Head Diameter, LPG
	Exh	1966-84	01192	1.500 Head Diameter, Except LPG, +3 & +15 O/S Stem Available
		1966-84	01206S	1.500 Head Diameter, Stellite Face, LPG +15 O/S Stem Available
Keeper	Both	1966-84	121-1003	1 SQ Bead Type
Stem Seal	Both	1966-84	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1966-84	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1966-84	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia.
		1966-84	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1966-84	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int	1966-84	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)

(Cont'd) GM TRUCK / PASSENGER TRUCK**250 C.I., (4.1L), OHV, GAS, LPG, CARB, Vin C, D, L, N, P, Q, S**
1966-84 L6 250 CID**GMT250DQ 55**
BORE - 93.5mm/3.68" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Exh	1966-84	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1966-84	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1966-76	160-1148	1.900 Length
		1977-84	160-1125	2.050 Length,W/ Damper
Lifter	Both	1966-84	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1966-84	VL37	Hydraulic Type
Rocker Components	Both	1966-84	180-1228	Rocker Arm, " Sprint "
		1966-84	180-1283	Rocker Arm, Rail Type,Optional, " Sprint "
		1966-84	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut,Sprint
		1966-84	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut, " Except Sprint "
		1966-84	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) $\frac{3}{8}$ Nut,Optional, " Sprint "
		1966-84	183-1017	Smooth Ball, $\frac{3}{8}$,Sprint
		1966-84	183-1024	Smooth Ball, $\frac{3}{8}$
1966-84	184-1038	Nut, $\frac{3}{8}$		
Push Rod	Both	1966-84	192-1330	9.682 Length

256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S "LL8 Vortec 4200 Atlas"
2002-09 L6 256 CID**GMT4.2-LL8 56**
BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2002-05	SB1250-50	$\frac{1}{4}$ O.D.,0.965T I.D., $\frac{1}{4}$ Depth,NOTE: Optional $\frac{1}{4}$ Depth; Must Machine Insert To Achieve Correct Depth
		2002-05	SB1250-65	$\frac{1}{4}$ O.D.,1.030 I.D.,0.2150 Depth
Valve	Int	2002-05	01998	1.457 Head Diameter
		2006-09	13179	1.525 Head Diameter
	Exh	2002-05	01999	1.201 Head Diameter
		2006-09	13046	1.323 Head Diameter
Keeper	Both	2002-09	121-1098	3 RD Bead Type
Stem Seal	Both	2002-05	122-1349	Positive Type,Viton Material,Top Hat Style
		2006-09	122-1394	Positive Type,Viton Material,Top Hat Style
Guide	Both	2002-09	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.
Spring	Both	2002-05	160-1480	1.770 Length
		2006-09	160-1579	1.760 Length,Conical
Lifter	Both	2002-09	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2002-09	180-1323	Cam Follower
Head Bolt Set		2002-09	220-1101	Torque To Yield,Services Engine
Head Saver Shim		2002-09	230-2185	New Hgt. - N/A; Min. Hgt. - N/A

261 C.I., (4.3L), OHV, GAS, CARB, 12 Valve " Chevrolet"
1954-62 L6 261 CID**GMT261 57**
BORE - 95.3mm/3.75"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1954-62	SB1937-17	$1\frac{15}{16}$ O.D., $1\frac{11}{16}$ I.D., $\frac{7}{32}$ Depth
	Exh	1954-62	SB1562-2	$1\frac{9}{16}$ O.D., $1\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1954-62	00308	1.875 Head Diameter

GM TRUCK / PASSENGER TRUCK (Cont'd)

57 261 C.I., (4.3L), OHV, GAS, CARB, 12 Valve " Chevrolet" GMT261
 (cont.) 1954-62 L6 261 CID BORE - 95.3mm/3.75"

PART		YEARS	PART NO.	NOTES
Valve	Exh	1954-62	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1954-62	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1954-62	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1954-62	121-1003	1 SQ Bead Type
Stem Seal	Both	1954-62	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1954-62	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1954-62	140-1732	0.3435 I.D.,3.344 Length,0.5648 O.D.
	Exh	1954-62	140-1527	0.3435 I.D.,2.438 Length,0.5650 O.D.
Spring	Both	1954-62	160-1116	2.250 Length

58 262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z GMT-262Z
 1985-95 V6 262 CID BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1985-95	SB2000-36	2.000 O.D.,1 ¹ / ₄ I.D., ³ / ₁₆ Depth
	Exh	1985-95	SB1562-1	1 ¹ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int Exh	1985-95	01195	1.940 Head Diameter,+3 & +15 O/S Stem Available
		1985-95	01192	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1985-95	01294S	1.500 Head Diameter,Stellite Face,W/ .3718T Stem Dia., +15 O/S Stem Available
Keeper	Both	1985-95	121-1003	1 SQ Bead Type
Stem Seal	Exh Both	1990-95	122-1234	Umbrella Type,Nylon Material,Umbrella Style
		1985-95	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1985-95	122-1043	O-Ring Type,Nitrile Material,O-Ring Style,W/ .341 Stem Dia.
		1985-95	122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia.
		1985-95	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1985-95	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1985-95	140-3015	0.3420 I.D.,2.120 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide.
		1985-95	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1985-95	140-3016	0.3420 I.D.,2.210 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide.
		1985-95	140-7946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1985-95	140-8407	0.3730 I.D.,2.220 Length,0.6203 O.D.,Spiral Reamed, Replaceable Exh Guide. Use Caution When Removing Stepped O.D.. The Bottom Of Guide Is The 0.620 End, Remove By Driving Out Toward Valve Seat
	1985-95	140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide	
	Spring	Both	1985-95	160-1144	2.048 Length,W/ Damper
1985-95			160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
1985-95			160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1985-95	161-1012	
Lifter	Both	1985-86	VL37	Hydraulic Type

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z
1985-95 V6 262 CID

GMT-262Z **58**
BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES
Lifter	Both 1987-95	VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both 1985-95 1985-95 1985-95 1985-95 1985-95 1985-95 1985-95	180-1228 180-1283 181-1011 181-1061 183-1015 183-1017 184-1033 184-1038	Rocker Arm Rocker Arm, Rail Type,Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut,Adjustable, W/ Press In Rocker Arm Studs, Standard Threads Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud Smooth Ball, 3/8,Use W/ Press In Rocker Arm Stud Nut, 8mm,Non-Adjustable, Use W/ Metric Threaded Rocker Arm Studs Nut, 3/8,Adjustable, W/ Press in Rocker Arm Studs, Standard Threads
Push Rod	Both 1985-86 1987-95	192-1331 192-1485	7.798 Length 7.195 Length,W/ Hyd. Roller Lifters
Head Bolt Set	1985-95	220-1104	Torque To Yield,Services Engine

262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z "TURBO"
1991-93 V6 262 CID

GMT262T **59**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1991-93 Exh 1991-93	SB2000-36 SB1562-1	2.000 O.D.,13/4 I.D.,3/16 Depth 19/16 O.D.,15/16 I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1991-93 Exh 1991-93	01195 01192	1.940 Head Diameter,+3 & +15 O/S Stem Available 1.500 Head Diameter,+3 & +15 O/S Stem Available
Keeper	Both 1991-93	121-1003	1 SQ Bead Type
Stem Seal	Int 1991-93 Exh 1991-93 1991-93 1991-93 Both 1991-93	122-1048 122-1037 122-1043 122-1270 122-1238	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia. Umbrella Type,Poly Material,Umbrella Style O-Ring Type,Nitrile Material,O-Ring Style Umbrella Type,Viton Material,Umbrella Style Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 11/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int 1991-93 1991-93 Exh 1991-93 1991-93	140-3015 140-9867 140-3016 140-9946	0.3420 I.D.,2.120 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide. 0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U) 0.3420 I.D.,2.210 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide. 0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both 1991-93 1991-93 1991-93	160-1144 160-1144HP 160-1407	2.048 Length,W/ Damper 2.023 Length,W/ Damper,Hi-Perf. 2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh 1991-93	161-1012	
Lifter	Both 1991-93	VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.

GM TRUCK / PASSENGER TRUCK (Cont'd)

59 262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin Z "TURBO"
(cont.) 1991-93 V6 262 CID

GMT262T
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Rocker Components	Both	1991-93	180-1228	Rocker Arm
		1991-93	180-1283	Rocker Arm, Rail Type,Optional
		1991-93	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut,Adjustable, W/ Press In Rocker Arm Studs, Standard Threads
		1991-93	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1991-93	183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1991-93	183-1017	Smooth Ball, 3/8,Use W/ Press In Rocker Arm Stud
		1991-93	184-1033	Nut, 8mm,Non-Adjustable, Use W/ Metric Threaded Rocker Arm Studs
		1991-93	184-1038	Nut, 3/8,Adjustable, W/ Press in Rocker Arm Studs, Standard Threads
Push Rod	Both	1991-93	192-1485	7.195 Length,W/ Hyd. Roller Lifters

60 262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin W, X, "VORTEC"
1992-14 V6 262 CID

262W
BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1992-14	SB2000-36	2.000 O.D., 1 3/4 I.D., 3/16 Depth
		1992-14	SB1562-1	1 1/16 O.D., 1 5/16 I.D., 7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1992-14	SB1562-1N	1 1/16 O.D., 1 5/16 I.D., 7/32 Depth,LPG Applications
Valve	Int	1992-95	01195	1.940 Head Diameter,+3 & +15 O/S Stem Available
		1996-14	01762R	1.940 Head Diameter,Optional Stainless Steel, W/O Seal Groove
	Exh	1996-14	01931	1.940 Head Diameter,1 Groove,+15 O/S Stem Available
		1992-95	01192	1.500 Head Diameter,+3 & +15 O/S Stem Available. WO/ Bal. Shaft
		1996-14	01807	1.500 Head Diameter,1 Groove,4.920 Overall Length, W/O Oil Seal Groove, +15 O/S Available
		1996-14	01807S	1.500 Head Diameter,Stellite Face,4.920 Overall Length, LPG Applications, W/O Oil Seal Groove, +15 O/S Stem Available
Keeper	Both	1992-14	121-1003	1 SQ Bead Type
Stem Seal	Both	1992-95	122-1047	Positive Type,Poly Material,2-Ring Style
		1992-95	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 1/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
		1996-14	122-1260	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-14	140-3015	0.3420 I.D.,2.120 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide.
		1992-14	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1992-14	140-3016	0.3420 I.D.,2.210 Length,0.5020 O.D.,0.552 Boss O.D., Replaces guide Boss of Integrated guide.
		1992-14	140-8407	0.3730 I.D.,2.220 Length,0.6203 O.D.,Spiral Reamed, Replaceable Exh Guide. Use Caution When Removing Stepped O.D.. The Bottom Of Guide Is The 0.620 End, Remove By Driving Out Toward Valve Seat
		1992-14	140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1992-95	160-1009	1.910 Length,W/ Damper
		1992-95	160-1144	2.048 Length,W/ Damper
		1992-95	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1992-95	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
		1996-14	160-1266	2.040 Length

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

262 C.I., (4.3L), OHV, GAS, FI, 12 Valve, Vin W, X, "VORTEC" **262W 60**
1992-14 V6 262 CID BORE - 101.6mm/4.00" (cont.)

PART	YEARS	PART NO.	NOTES	
Rotator	Exh	1992-95	161-1012	
Lifter	Both	1992-14	VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1992-99	180-1228	Rocker Arm
		1992-99	180-1283	Rocker Arm, Rail Type,Optional
		1992-99	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut,Kit Includes SAE Balls & Nuts; NOTE: Metric Balls & Nuts Must Be Ordered Separately.
		1992-99	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional; Kit Includes SAE Balls & Nuts; NOTE: Metric Balls & Nuts Must Be Ordered Separately.
		1992-99	183-1015	Smooth Ball, 10mm,Use W/ Metric Threaded Rocker Arm Stud
		1992-99	183-1017	Smooth Ball, 3/8,Use W/ Press In Rocker Arm Stud
		1992-99	184-1033	Nut, 8mm,Non-Adjustable, Use W/ Metric Threaded Rocker Arm Studs
		1992-99	184-1038	Nut, 3/8,Adjustable, W/ Press in Rocker Arm Studs, Standard Threads
		2000-07	180-1317	Rocker Arm, Roller Pivot Assy., W 8mm/Bolt
Push Rod	Both	1992-14	192-1485	7.195 Length,W/ Hyd. Roller Lifters
Head Bolt Set		1992-11	220-1104	Torque To Yield,Services Engine

262 C.I., (4.3L), OHV, FLEX, FI, 12 Valve, Vin H, Active Fuel Mgmt., "LV3 Gen V EcoTec3" **61**
2014-17 V6 262 CID GMT4.3-LV3
BORE - 99.6mm/3.92"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-16	121-1085	1 RD Bead Type
Stem Seal	Int	2014-16	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2014-16	122-1338	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2014-16	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2014-16	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2014-16	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2014-16	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required

265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve "Chevrolet" **62**
1955-57 V8 265 CID GMT265
BORE - 95.25mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1955-57	SB1812-3	1 1/16 O.D.,1 1/2 T I.D.,7/32 Depth
	Exh	1955-57	SB1562-2	1 9/16 O.D.,1 1/16 T I.D.,1/4 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1955-57	00399	1.720 Head Diameter,+15 O/S Stem Available
		1955-57	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1955-57	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1955-57	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1955-57	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available

GM TRUCK / PASSENGER TRUCK (Cont'd)

62 265 C.I., (4.3L), OHV, GAS, CARB, 16 Valve "Chevrolet"
(cont.) 1955-57 V8 265 CID

GMT265
BORE- 95.25mm/3.70"

PART		YEARS	PART NO.	NOTES
Keeper	Both	1955-57	121-1003	1 SQ Bead Type
Stem Seal	Both	1955-57	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1955-57	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1955-57	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1955-57	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1955-57	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1955-57	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Int	1955-57	160-1117	2.030 Length
Lifter	Both	1955-57	VL37	Hydraulic Type
Rocker Components	Both	1955-57	180-1228	Rocker Arm
		1955-57	180-1239	Rocker Arm, Stamped, Long Slot
		1955-57	180-1283	Rocker Arm, Rail Type,Optional
		1955-57	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1955-57	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1955-57	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1955-57	183-1017	Smooth Ball, 3/8
		1955-57	183-1032	Grooved Ball, 3/8
1955-57	184-1038	Nut, 3/8		
Push Rod	Both	1955-57	192-1331	7.798 Length

63 267 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin J
1979-81 V8 267 CID

GMT267J
BORE - 88.9mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1979-81	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D.,7/32 Depth
	Exh	1979-81	SB1437-2	1 ⁷ / ₁₆ O.D.,1 ⁷ / ₃₂ I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1979-81	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
Keeper	Both	1979-81	121-1003	1 SQ Bead Type
Stem Seal	Both	1979-81	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1979-81	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1979-81	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1979-81	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1979-81	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	1979-81	160-1144	2.048 Length,W/ Damper
		1979-81	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1979-81	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	1979-81	VL37	Hydraulic Type
Rocker Components	Both	1979-81	180-1228	Rocker Arm

(Cont'd) GM TRUCK / PASSENGER TRUCK**267 C.I., (4.4L), OHV, GAS, CARB, 16 Valve, Vin J**
1979-81 V8 267 CID**GMT267J 63**
BORE - 88.9mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1979-81	180-1239	Rocker Arm, Stamped, Long Slot
		1979-81	180-1283	Rocker Arm, Rail Type,Optional
	Both	1979-81	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1979-81	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
	Both	1979-81	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1979-81	183-1017	Smooth Ball, 3/8
	Both	1979-81	183-1032	Grooved Ball, 3/8
		1979-81	184-1038	Nut, 3/8
Push Rod	Both	1979-81	192-1331	7.798 Length

281 C.I., (4.6L), DOHC, GAS, FI, 32 Valve, Vin A, "LH2 Northstar"
2004-09 V8 281 CID**GMT4.6-LH2 64**
BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-09	02053	1.426 Head Diameter
	Exh	2004-09	13243	1.142 Head Diameter,Inconel
Keeper	Both	2004-09	121-1081	1 RD Bead Type
Stem Seal	Both	2004-09	122-1349	Positive Type,Viton Material,Top Hat Style
Guide	Int	2004-09	140-3056	0.2350 I.D.,1.700 Length,0.4333 O.D.
	Exh	2004-09	140-3057	0.2350 I.D.,1.500 Length,0.4333 O.D.
Spring	Both	2004-09	160-1634	1.656 Length
Lifter	Both	2004-09	VL175	Hydraulic Lash Adjuster Type

283 C.I., (4.6L), OHV, GAS, CARB, 16 Valve "Chevrolet"
1955-67 V8 283 CID**GMT283 65**
BORE - 98.425mm/3.80"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1955-67	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1955-67	SB1562-2	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	1955-67	00399	1.720 Head Diameter,+15 O/S Stem Available
		1955-67	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1955-67	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1955-67	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
Exh	1955-67	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available	
	Both	1955-67	121-1003	1 SQ Bead Type
Stem Seal	Both	1955-67	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1955-67	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1955-67	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1955-67	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1955-67	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1955-67	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1957-61	160-1117	2.030 Length

GM TRUCK / PASSENGER TRUCK (Cont'd)

65 283 C.I., (4.6L), OHV, GAS, CARB, 16 Valve "Chevrolet"
(cont.) 1955-67 V8 283 CID

GMT283
BORE - 98.425mm/3.80"

PART		YEARS	PART NO.	NOTES
Spring	Both	1962-66	160-1125	2.050 Length,W/ Damper
		1967-67	160-1144	2.048 Length,W/ Damper
		1967-67	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1967-67	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	1955-67	VL37	Hydraulic Type
Rocker Components	Both	1957-67	180-1228	Rocker Arm
		1957-67	180-1239	Rocker Arm, Stamped, Long Slot
		1957-67	180-1283	Rocker Arm, Rail Type,Optional
		1957-67	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1957-67	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1957-67	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1957-67	183-1017	Smooth Ball, 3/8
		1957-67	183-1032	Grooved Ball, 3/8
1957-67	184-1038	Nut, 3/8		
Push Rod	Both	1957-67	192-1331	7.798 Length
Head Bolt Set		1955-67	220-1018	This bolt is NOT Torque to Yield,2 Required

66 290 C.I., (4.8L), DIESEL, FI, Vin 4, 4HE1 "Duramax"
1999-04 L4 290 CID

GMT-4HE1
BORE - 110mm/4.33"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1999-04	SB1894E-1	1.894 O.D., 1.570T I.D., 0.2920 Depth,W/1.830 Head Dia.
		1999-04	SB2013E-1	2.013 O.D., 1.770T I.D., 0.2885 Depth,W/1.969 Head Dia.
	Exh	1999-04	SB1697E-1	1.697 O.D., 1.450T I.D., 0.2760 Depth
Valve	Int	1999-04	02237	1.969 Head Diameter
		1999-04	02239	1.830 Head Diameter
	Exh	1999-04	02238	1.654 Head Diameter
Stem Seal	Both	1999-04	122-1369	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1999-04	140-3054	0.3547 I.D., 2.365 Length, 0.5526 O.D.
Spring	Int	1999-04	160-1553	2.083 Length,Conical,Inner
		1999-04	160-1554	2.199 Length,Outer
	Exh	1999-04	160-1551	2.322 Length,Conical,Inner
		1999-04	160-1552	2.491 Length,Barrel Shaped,Outer
Head Saver Shim		1999-04	230-2152	New Hgt.- 4.6831 - 4.6870; Min. Hgt. N/A

67 292 C.I., (4.8L), OHV, GAS, LPG, CARB, FI, 12 Valve, Vin S, T
1963-89 L6 292 CID

GMT292T
BORE - 98.4mm/3.88"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1963-89	SB1812-3	1 19/16 O.D., 1 1/2 T I.D., 7/32 Depth
		1963-89	SB1562-1	1 1/16 O.D., 1 1/16 I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. LPG
	Exh	1963-89	SB1562-1N	1 1/16 O.D., 1 1/16 I.D., 7/32 Depth, LPG
Valve	Int	1963-70	00399	1.720 Head Diameter, +15 O/S Stem Available
		1963-89	01194	1.720 Head Diameter, LPG
		1971-89	01193	1.720 Head Diameter, Except LPG, +3 & +15 O/S Stem Available
	Exh	1963-89	01206S	1.500 Head Diameter, Stellite Face, W/ .342 Stem, +15 O/S Stem Available
		1963-89	01646S	1.500 Head Diameter, Inconel, Stellite Face, W/ .3719 Stem Dia., LPG

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

292 C.I., (4.8L), OHV, GAS, LPG, CARB, FI, 12 Valve, Vin S, T
1963-89 L6 292 CID

GMT292T 67
BORE - 98.4mm/3.88" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both	1963-89 121-1003	1 SQ Bead Type
Stem Seal	Exh	1985-89 122-1014	Positive Type,Tef/Rub Material,1-Ring Style,W/ .371 Stem Dia.
	Both	1963-89 122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1963-89 122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1/2 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1963-89 140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
	Exh	1963-89 140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1963-89 140-6107	0.3740 I.D.,2.250 Length,0.5020 O.D.,Use W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide
	1963-89 140-9107	0.3740 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,W/ .371 Valve Stem Dia	
	1963-89 140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)	
Spring	Both	1963-89 160-1125	2.050 Length,W/ Damper
Rotator	Exh	1963-89 161-1012	
Lifter	Both	1963-89 VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		1963-89 VL73	Hydraulic Type
Rocker Components	Both	1963-89 181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1963-89 183-1024	Smooth Ball, 3/8
		1963-89 184-1038	Nut, 3/8
Push Rod	Both	1963-89 192-1335	11.382 Length,Series 10 Thru 30

294 C.I., (4.8L), OHV, GAS, FI, 16 Valve, Vin V "LR4 Vortec Gen III"
1999-07 V8 294 CID

GMT4.8-LR4 68
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1999-07 SB2062-50	2 1/16 O.D.,1.750 I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		1999-07 SB2062-50N	2 1/16 O.D.,1.750 I.D.,0.4200 Depth,LPG
	Exh	1999-07 SB1625-64	1 5/8 O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		1999-07 SB1625-64N	1 5/8 O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	1999-07 01934	1.890 Head Diameter
		1999-07 01934S	1.890 Head Diameter,Stellite Face,LPG
	Exh	1999-07 01935	1.551 Head Diameter
		1999-07 01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	1999-07 121-1085	1 RD Bead Type
Stem Seal	Int	2001-07 122-1337	Positive Type,Viton Material,Top Hat Style,2nd Design.
	Exh	2001-07 122-1338	Positive Type,Viton Material,Top Hat Style,2nd Design.
	Both	1999-01 122-1323	Positive Type,Viton Material,Metal Clad Style,1st Design
Guide	Both	1999-07 140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2),+2 O/S Available
		1999-07 140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
	1999-07 140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.	
	1999-07 340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version	
Spring	Both	1999-07 160-1488	2.126 Length,Conical

GM TRUCK / PASSENGER TRUCK (Cont'd)

68 294 C.I., (4.8L), OHV, GAS, FI, 16 Valve, Vin V "LR4 Vortec Gen III"
(cont.) 1999-07 V8 294 CID

GMT4.8-LR4
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Lifter	Both	1999-07 VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1999-07 180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	1999-07 190-1537	7.397 Length
Head Bolt Set		1999-04 2004-07 220-1102 220-1103	Torque To Yield,1st Design; NOTE: Services Engine Torque To Yield,2nd Design; NOTE: Services Engine
Head Saver Shim		2002-07 230-2186	New Hgt. - 4.732; Min. Hgt. - N/A

69 294 C.I., (4.8L), OHV, GAS, FI, 16 Valve, Vin C "LY2 Vortec Gen IV"
2007-09 V8 294 CID

GMT4.8-LY2
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2007-09 SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2007-09 SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		2007-09 SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	2007-08 2009-09 02000 02267	2.000 Head Diameter 2.000 Head Diameter
	Exh	2007-09 2007-09 01935 01935S	1.551 Head Diameter 1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2007-09 121-1085	1 RD Bead Type
Stem Seal	Int	2007-09 122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2007-09 122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-09 140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2007-09 140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2007-09 140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2007-09 340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2007-09 160-1488	2.126 Length,Conical
Lifter	Both	2007-09 VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2007-09 VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2007-09 180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-09 190-1537	7.397 Length
Head Bolt Set		2007-09 220-1103	Torque To Yield,NOTE: Services Engine

70 294 C.I., (4.8L), OHV, FLEX, FI, 16 Valve, Vin A, F, "L20 Vortec Gen IV"
2010-17 V8 294 CID

GMT4.8-L20
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2010-16 SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		2010-16 SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	2010-16 13244	2.000 Head Diameter
	Exh	2010-16 01935	1.551 Head Diameter

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

294 C.I., (4.8L), OHV, FLEX, FI, 16 Valve, Vin A, F, "L20 Vortec Gen IV" **GMT4.8-L20 70**
2010-17 V8 294 CID **BORE - 96mm/3.78" (cont.)**

PART	YEARS	PART NO.	NOTES
Valve	Exh 2010-16	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both 2010-16	121-1085	1 RD Bead Type
Stem Seal	Int 2010-16	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh 2010-16	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both 2010-16	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
	2010-16	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
	2010-16	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
	2010-16	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both 2010-16	160-1488	2.126 Length,Conical
Lifter	Both 2010-16	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
	2010-16	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both 2010-16	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both 2010-16	190-1537	7.397 Length
Head Bolt Set	2010-12	220-1123	Torque To Yield,Services Engine

305 C.I., (5.0L), OHV, GAS, CARB, 12 Valve **GMT305A-D 71**
1960-68 V6 305 CID **BORE - 107.9mm/4.25"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1960-68	SB2062-1	2 ¹ / ₁₆ O.D.,1 ¹³ / ₁₆ T I.D., ¹ / ₄ Depth
	Exh 1960-68	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Stem Seal	Both 1960-68	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int 1960-68	140-5612	0.3440 I.D.,2.875 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	1960-68	140-9612	0.3440 I.D.,2.875 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh 1960-68	140-7259	0.3430 I.D.,3.063 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	1960-68	140-9259	0.3430 I.D.,3.063 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both 1960-68	160-1128	2.270 Length

305 C.I., (5.0L), OHV, GAS, CARB, FI, 16 Valve, Vin F, G, H, Q, U **GMC305CA 72**
1976-88 V8 305 CID **BORE - 94.9mm/3.74"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1976-80	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	1981-88	SB1937-17	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth
	Exh 1976-88	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Exc. LPG
	1976-88	SB1562-1N	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,LPG
Valve	Int 1976-80	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
	1981-88	01393	1.840 Head Diameter,+3 & +15 O/S Stem Available
	Exh 1976-88	01192	1.500 Head Diameter,W/ .3412T Stem Dia. +3 & +15 O/S Stem Available

GM TRUCK / PASSENGER TRUCK (Cont'd)

72 305 C.I., (5.0L), OHV, GAS, CARB, FI, 16 Valve, Vin F, G, H, Q, U GMC305CA
 (cont.) 1976-88 V8 305 CID BORE - 94.9mm/3.74"

PART		YEARS	PART NO.	NOTES
Valve	Exh	1976-88	01294S	1.500 Head Diameter,Stellite Face,W/ .3718T Stem Dia., +15 O/S Stem Available
		1976-88	01646S	1.500 Head Diameter,Inconel, Stellite Face,W/ .3719 Stem Dia., Optional, LPG
Keeper	Both	1976-88	121-1003	1 SQ Bead Type
Stem Seal	Int	1976-88	122-1075	Positive Type,Viton Material,Ring & Band Style
		1976-88	122-1233	Umbrella Type,Nylon Material,Umbrella Style,W/ .341 Stem Dia.
	Both	1976-88	122-1234	Umbrella Type,Nylon Material,Umbrella Style,W/ .3718 Stem Dia.
		1976-88	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1976-88	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1976-88	122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia. & Use W/ Factory Guide Boss
		1976-88	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1976-88	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1976-88	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
		1976-88	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
	Exh	1976-88	140-6107	0.3740 I.D.,2.250 Length,0.5020 O.D.,Use W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide
		1976-88	140-9107	0.3740 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,W/ .371 Valve Stem Dia
		1976-88	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1976-77	160-1009	1.910 Length,W/ Damper
		1976-88	160-1144	2.048 Length,W/ Damper,Exc. 1976-77 Exh
	Both	1976-88	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1976-88	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	1976-88	VL37	Hydraulic Type
Rocker Components	Both	1976-88	180-1228	Rocker Arm
		1976-88	180-1239	Rocker Arm, Stamped, Long Slot
		1976-88	180-1283	Rocker Arm, Rail Type,Optional
		1976-88	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1976-88	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1976-88	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1976-88	183-1017	Smooth Ball, 3/8
		1976-88	183-1032	Grooved Ball, 3/8
		1976-88	184-1038	Nut, 3/8
Push Rod	Both	1976-88	192-1331	7.798 Length
Head Bolt Set		1976-88	220-1018	This bolt is NOT Torque to Yield,2 Required

73 305 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin H, M GMT305FI
 1989-02 V8 305 CID BORE - 94.9mm/3.74"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-02	SB1937-17	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D.,7/32 Depth

(Cont'd) GM TRUCK / PASSENGER TRUCK305 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin H, M
1989-02 V8 305 CIDGMT305FI **73**
BORE - 94.9mm/3.74" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1989-02	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. LPG
		1989-02	SB1562-1N	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, LPG
Valve	Int	1989-95	01393	1.840 Head Diameter, 0.3413 Stem Dia., +3 & +15 O/S Stem Available
	Exh	1996-02	01806	1.840 Head Diameter, 1 Groove, W/ .3412 Stem Dia.,
		1989-95	01192	1.500 Head Diameter, W/ .3412T Stem Dia. +3 & +15 O/S Stem Available
		1989-95	01294S	1.500 Head Diameter, Stellite Face, W/ .3718T Stem Dia., +15 O/S Stem Available
		1989-95	01646S	1.500 Head Diameter, Inconel, Stellite Face, W/ .3719 Stem Dia., Optional, LPG
		1996-02	01807	1.500 Head Diameter, 1 Groove, W/ .3413T Stem Dia., 1 Groove, +15 O/S Available
		1996-02	01807S	1.500 Head Diameter, Stellite Face, W/ .3413T Stem Dia., 1 Groove, +15 O/S Stem Available, LPG
Keeper	Both	1989-02	121-1003	1 SQ Bead Type
Stem Seal	Int	1989-97	122-1075	Positive Type, Viton Material, Ring & Band Style
	Exh	1989-97	122-1233	Umbrella Type, Nylon Material, Umbrella Style, W/ .341 Stem Dia.
		1989-97	122-1234	Umbrella Type, Nylon Material, Umbrella Style, W/ .3718 Stem Dia.
	Both	1989-95	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		1989-95	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
	1998-02	122-1260	Positive Type, Viton Material, Metal Clad Style	
Guide	Int	1989-02	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1989-02	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
		1989-95	140-6107	0.3740 I.D., 2.250 Length, 0.5020 O.D., Use W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide
		1989-95	140-9107	0.3740 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, W/ .371 Valve Stem Dia
	Both	1989-02	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
Spring	Both	1989-95	160-1144	2.048 Length, W/ Damper
		1989-95	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1989-95	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
		1996-02	160-1266	2.040 Length
Rotator	Exh	1989-98	161-1012	
Lifter	Both	1989-95	VL37	Hydraulic Type
		1996-02	VL115	Hydraulic Roller Type, Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1989-02	180-1228	Rocker Arm
		1989-02	180-1239	Rocker Arm, Stamped, Long Slot
		1989-02	180-1283	Rocker Arm, Rail Type, Optional
		1989-02	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1989-02	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, High Perf., W/ 1.5:1 Ratio

GM TRUCK / PASSENGER TRUCK (Cont'd)

73 305 C.I., (5.0L), OHV, GAS, FI, 16 Valve, Vin H, M GMT305FI
 (cont.) 1989-02 V8 305 CID BORE - 94.9mm/3.74"

PART		YEARS	PART NO.	NOTES
Rocker Components	Both	1989-02	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		1989-02	183-1017	Smooth Ball, 3/8
		1989-02	183-1032	Grooved Ball, 3/8
		1989-02	184-1038	Nut, 3/8
Push Rod	Both	1989-95	192-1331	7.798 Length
		1996-02	192-1485	7.195 Length

74 307 C.I., (5.0L), OHV, GAS, CARB, Vin A, B, E, F, H, P, U, X GMT307
 1968-73 V8 307 CID BORE - 98.4mm/3.88"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-73	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/ ₃₂ Depth, W/ 1.720 Valve Head Dia.
		1968-73	SB2125-1	2 ¹ / ₈ O.D., 1 ¹³ / ₁₆ I.D., 1/4 Depth, W/ 1.940 Valve Head Dia.
	Exh	1968-73	SB1562-2	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1968-71	00399	1.720 Head Diameter, 1968-70 All, 1971 Vandura 1st Type, Sprint, +15 O/S Stem Available
		1971-73	01193	1.720 Head Diameter, 1971 Vandura 2nd Type, 1972-73 Sprint, Series 25, 35 Exc. Suburban, +3 & +15 O/S Stem Available
		1973-73	01195	1.940 Head Diameter, Series 15 Blazer, Jimmy, Series 25 Suburban, +3 & +15 O/S Stem Available
	Exh	1968-71	00400	1.500 Head Diameter, All, 1971 Vandura 1st Type, +3 & +15 O/S Stem Available
		1968-73	01206S	1.500 Head Diameter, Stellite Face, Optional Material & Chrome Plated, +15 O/S Stem Available
		1971-73	01192	1.500 Head Diameter, Series 15, 25, 35 & Sprint, 1971 Vandura 2nd Type., +3 & +15 O/S Stem Available
Keeper	Both	1968-73	121-1003	1 SQ Bead Type
Stem Seal	Int	1968-73	122-1075	Positive Type, Viton Material, Ring & Band Style
	Exh	1968-73	122-1233	Umbrella Type, Nylon Material, Umbrella Style
	Both	1968-73	122-1037	Umbrella Type, Poly Material, Umbrella Style
		1968-73	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
	1968-73	122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia. & Use W/ Factory Guide Boss	
	1968-73	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems	
1968-73	122-1270	Umbrella Type, Viton Material, Umbrella Style		
Guide	Both	1968-73	140-5607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
		1968-73	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Exh	1972-73	160-1009	1.910 Length, W/ Damper
	Both	1968-73	160-1144	2.048 Length, W/ Damper
		1968-73	160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		1968-73	160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Lifter	Both	1968-73	VL37	Hydraulic Type
Rocker Components	Both	1968-73	180-1228	Rocker Arm
		1968-73	180-1239	Rocker Arm, Stamped, Long Slot
		1968-73	180-1283	Rocker Arm, Rail Type, Optional
		1968-73	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

307 C.I., (5.0L), OHV, GAS, CARB, Vin A, B, E, F, H, P, U, X
1968-73 V8 307 CID

GMT307 74
BORE - 98.4mm/3.88" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1968-73	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut, High Perf., W/ 1.5:1 Ratio
		1968-73	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		1968-73	183-1017	Smooth Ball, 3/8
		1968-73	183-1032	Grooved Ball, 3/8
		1968-73	184-1038	Nut, 3/8
Push Rod	Both	1968-73	192-1331	7.798 Length

317 C.I., (5.2L), DIESEL, FI, Vin 6, 4HK1 "Duramax"
2005-09 L4 317 CID

GMT-4HK1 75
BORE - 115mm/4.53"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-09	13121	1.457 Head Diameter
	Exh	2005-09	13122	1.456 Head Diameter
Stem Seal	Both	2005-09	122-1137	Positive Type, Viton Material, Metal Clad Style
		2005-09	122-1413	Positive Type, Viton Material, Top Hat Style
Guide	Both	2005-09	140-3101	0.3150 I.D., 2.245 Length, 0.5526 O.D.
Spring	Int	2005-09	160-1570	2.386 Length
	Exh	2005-09	160-1571	2.780 Length
Head Saver Shim		2005-09	230-2166	New Hgt. - 4.6850; Min Hgt. - N/A; 1 Required; NOTE: This Shim Must Be Installed On Cylinder Head Side Of Gasket Due To Cylinder Sleeve Protrusion

325 C.I., (5.3L), OHV, ELECTRIC/GAS, GAS, FI, 16 Valve, Vin T, "LM7 Vortec 5300 Gen III"

1999-07 V8 325 CID

GMT5.3-LM7 76
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1999-07	SB2062-50	2 1/16 O.D., 1.750 I.D., 0.4200 Depth, Also Available In Non-Magnetic (N) Material
	Exh	1999-07	SB2062-50N	2 1/16 O.D., 1.750 I.D., 0.4200 Depth, LPG
		1999-07	SB1625-64	1 5/8 O.D., 1.335T I.D., 0.4200 Depth, Also Available In Non-Magnetic (N) Material
		1999-07	SB1625-64N	1 5/8 O.D., 1.335T I.D., 0.4200 Depth, LPG
Valve	Int	1999-07	01934	1.890 Head Diameter
		1999-07	01934S	1.890 Head Diameter, Stellite Face, LPG
	Exh	1999-07	01935	1.551 Head Diameter
		1999-07	01935S	1.551 Head Diameter, Stellite Face, LPG
Keeper	Both	1999-07	121-1085	1 RD Bead Type
Stem Seal	Int	2001-07	122-1337	Positive Type, Viton Material, Top Hat Style, 2nd Design.
	Exh	2001-07	122-1338	Positive Type, Viton Material, Top Hat Style, 2nd Design.
	Both	1999-01	122-1323	Positive Type, Viton Material, Metal Clad Style, 1st Design
Guide	Both	1999-07	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		1999-07	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		1999-07	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		1999-07	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	1999-07	160-1488	2.126 Length, Conical

GM TRUCK / PASSENGER TRUCK (Cont'd)

76 325 C.I., (5.3L), OHV, ELECTRIC/GAS, GAS, FI, 16 Valve, Vin T, "LM7"
 (cont.) Vortec 5300 Gen III"
 1999-07 V8 325 CID

GMT5.3-LM7
 BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Lifter	Both	1999-07 VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller. ,Non-Active Fuel Management
Rocker Components	Both	1999-07 180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	1999-07 190-1537	7.397 Length
Head Bolt Set		1999-04 2004-07 220-1102 220-1103	Torque To Yield,1st Design; NOTE: Services Engine Torque To Yield,2nd Design; NOTE: Services Engine
Head Saver Shim		2002-07 230-2186	New Hgt. - 4.732; Min. Hgt. - N/A

77 325 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin Z, "L59 Vortec 5300 Gen III"
 2002-07 V8 325 CID

GMT5.3-L59
 BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2002-07 SB2062-50	2 ¹ / ₁₆ O.D.,1.750 I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2002-07 2002-07 SB2062-50N SB1625-64	2 ¹ / ₁₆ O.D.,1.750 I.D.,0.4200 Depth,LPG 1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		2002-07 SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	2002-07 2002-07 01934 01934S	1.890 Head Diameter 1.890 Head Diameter,Stellite Face,LPG
	Exh	2002-07 2002-07 01935 01935S	1.551 Head Diameter 1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2002-07 121-1085	1 RD Bead Type
Stem Seal	Int	2002-07 122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2002-07 122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2002-07 140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2002-07 140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2002-07 140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2002-07 340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2002-07 160-1488	2.126 Length,Conical
Lifter	Both	2002-07 VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller. ,Non-Active Fuel Management
Rocker Components	Both	2002-07 180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2002-07 190-1537	7.397 Length
Head Bolt Set		2002-04 2004-07 220-1102 220-1103	Torque To Yield,1st Design; NOTE: Services Engine Torque To Yield,2nd Design; NOTE: Services Engine
Head Saver Shim		2002-07 230-2186	New Hgt. - 4.732; Min. Hgt. - N/A

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin P "LM4 Vortec 5300 Gen III Aluminum Block"

78

2003-04

V8 323 CID

GMT5.3-LM4
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2003-04	SB2062-50	2 ¹ / ₁₆ O.D.,1.750 I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2003-04	SB2062-50N	2 ¹ / ₁₆ O.D.,1.750 I.D.,0.4200 Depth,LPG
		2003-04	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		2003-04	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	2003-04	01934	1.890 Head Diameter
	Exh	2003-04	01934S	1.890 Head Diameter,Stellite Face,LPG
		2003-04	01935	1.551 Head Diameter
		2003-04	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2003-04	121-1085	1 RD Bead Type
Stem Seal	Int	2003-04	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2003-04	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2003-04	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2003-04	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2003-04	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2003-04	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2003-04	160-1488	2.126 Length,Conical
Lifter	Both	2003-04	VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller. ,Non-Active Fuel Management
Rocker Components	Both	2003-04	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2003-04	190-1537	7.397 Length
Head Bolt Set		2003-04	220-1102	Torque To Yield,1st Design; NOTE: Services Engine
		2004-04	220-1103	Torque To Yield,2nd Design; NOTE: Services Engine
Head Saver Shim		2003-04	230-2186	New Hgt. - 4.732; Min. Hgt. - N/A

325 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin B, "L33 H.O. Vortec 5300 Gen III Aluminum Block"

79

2005-07

V8 325 CID

GMT5.3-L33
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2005-07	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2005-07	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		2005-07	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	2005-07	02000	2.000 Head Diameter
	Exh	2005-07	01935	1.551 Head Diameter
		2005-07	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2005-07	121-1085	1 RD Bead Type
Stem Seal	Int	2005-07	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2005-07	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-07	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)

GM TRUCK / PASSENGER TRUCK (Cont'd)

79 325 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin B, "L33 H.O. Vortec 5300 Gen III Aluminum Block"

(cont.) 2005-07

V8 325 CID

GMT5.3-L33

BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Guide	Both	2005-07	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2005-07	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2005-07	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2005-07	160-1488	2.126 Length,Conical
Lifter	Both	2005-07	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2005-07	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2005-07	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2005-07	190-1537	7.397 Length
Head Bolt Set		2005-07	220-1103	Torque To Yield,NOTE: Services Engine

80 323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, Active Fuel Mgmt., "LH6 Vortec 5300 Gen IV Aluminum Block"

2005-09

V8 323 CID

GMT5.3-LH6

BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2005-09	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2005-09	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		2005-09	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	2005-08	02000	2.000 Head Diameter
		2009-09	02267	2.000 Head Diameter
	Exh	2005-09	01935	1.551 Head Diameter
		2005-09	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2005-09	121-1085	1 RD Bead Type
Stem Seal	Int	2005-09	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2005-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2005-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2005-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2005-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2005-09	160-1488	2.126 Length,Conical
Lifter	Both	2005-09	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2005-09	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2005-09	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2005-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, Active Fuel Mgmt., "LH6" **80**
Vortec 5300 Gen IV Aluminum Block" GMT5.3-LH6 (cont.)
2005-09 V8 323 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Rocker Components	Both	2005-09 180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2005-09 190-1537	7.397 Length
Head Bolt Set		2005-09 220-1103	Torque To Yield,NOTE: Services Engine

323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin J, Active Fuel Mgmt., "LY5" **81**
Vortec 5300 Gen IV" GMT5.3-LY5
2007-09 V8 323 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2007-09 SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2007-09 SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		2007-09 SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	2007-08 02000	2.000 Head Diameter
		2009-09 13244	2.000 Head Diameter
	Exh	2007-09 01935	1.551 Head Diameter
		2007-09 01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2007-09 121-1085	1 RD Bead Type
Stem Seal	Int	2007-09 122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2007-09 122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-09 140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2007-09 140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2007-09 140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2007-09 340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2007-09 160-1488	2.126 Length,Conical
Lifter	Both	2007-09 VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2007-09 VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2007-09 VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2007-09 VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2007-09 180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-09 190-1537	7.397 Length
Head Bolt Set		2007-09 220-1123	Torque To Yield,Services Engine

325 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin 0, Active Fuel Mgmt., "LMG" **82**
Vortec 5300 Gen IV" GMT5.3-LMG
2007-14 V8 325 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2007-14 SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material

GM TRUCK / PASSENGER TRUCK (Cont'd)

82 325 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin 0, Active Fuel Mgmt., "LMG
(cont.) Vortec 5300 Gen IV"

GMT5.3-LMG

2007-14

V8 325 CID

BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2007-14	SB1625-64	1 $\frac{5}{8}$ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Non-Magnetic (N) Material
		2007-14	SB1625-64N	1 $\frac{5}{8}$ O.D., 1.335T I.D., 0.4200 Depth, LPG
Valve	Int	2007-08	02000	2.000 Head Diameter
		2009-14	13244	2.000 Head Diameter
	Exh	2007-14	01935	1.551 Head Diameter
		2007-14	01935S	1.551 Head Diameter, Stellite Face, LPG
Keeper	Both	2007-14	121-1085	1 RD Bead Type
Stem Seal	Int	2007-14	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2007-14	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2007-14	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2007-14	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2007-14	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2007-14	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2007-14	160-1488	2.126 Length, Conical
Lifter	Both	2007-14	VL558	AFM Hydraulic Roller Type, W/Spring, Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2007-14	VL558FG	AFM Lifter Guide-Front Type, OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2007-14	VL558RG	AFM Lifter Guide-Rear Type, OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2007-14	VL559	Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2007-14	180-1337	Rocker Arm, Roller Pivot Assy., NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-14	190-1537	7.397 Length
Head Bolt Set		2007-12	220-1123	Torque To Yield, Services Engine

83 325 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin 3, 7, Active Fuel Mgmt., "LC9
Vortec 5300 Gen IV Aluminum Block"

GMT5.3-LC9

2007-14

V8 325 CID

BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2007-14	SB2062-51	2 $\frac{1}{16}$ O.D., 1.750T I.D., 0.3900 Depth, Also Available In Non-Magnetic (N) Material
	Exh	2007-14	SB1625-64	1 $\frac{5}{8}$ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Non-Magnetic (N) Material
		2007-14	SB1625-64N	1 $\frac{5}{8}$ O.D., 1.335T I.D., 0.4200 Depth, LPG
Valve	Int	2007-08	02000	2.000 Head Diameter
		2009-14	13244	2.000 Head Diameter
	Exh	2007-14	01935	1.551 Head Diameter
		2007-14	01935S	1.551 Head Diameter, Stellite Face, LPG
Keeper	Both	2007-14	121-1085	1 RD Bead Type
Stem Seal	Int	2007-14	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2007-14	122-1338	Positive Type, Viton Material, Top Hat Style

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

325 C.I., (5.3L), OHV, FLEX, FI, 16 Valve, Vin 3, 7, Active Fuel Mgmt., "LC9 Vortec 5300 Gen IV Aluminum Block" **83**
2007-14 V8 325 CID GMT5.3-LC9 (cont.)
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Guide	Both	2007-14	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2007-14	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2007-14	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2007-17	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2007-14	160-1488	2.126 Length,Conical
Lifter	Both	2007-14	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2007-14	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2007-14	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2007-14	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2007-14	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-14	190-1537	7.397 Length
Head Bolt Set		2007-12	220-1123	Torque To Yield,Services Engine

323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin L, "LH8 Vortec 5300 Gen IV" **84**
2008-09 V8 323 CID GMT5.3-LH8
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2008-09	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2008-09	SB1625-64	1 ⁵ / ₁₆ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		2008-09	SB1625-64N	1 ⁵ / ₁₆ O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	2008-08	02000	2.000 Head Diameter
		2009-09	02267	2.000 Head Diameter
	Exh	2008-09	01935	1.551 Head Diameter
		2008-09	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2008-09	121-1085	1 RD Bead Type
Stem Seal	Int	2008-09	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2008-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2008-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2008-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2008-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2008-09	160-1488	2.126 Length,Conical
Lifter	Both	2008-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2008-09	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.

GM TRUCK / PASSENGER TRUCK (Cont'd)

84 323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin L, "LH8 Vortec 5300 Gen IV" GMT5.3-LH8
(cont.) 2008-09 V8 323 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	2008-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-09	190-1537	7.397 Length

85 323 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin P, "LH9 Vortec 5300 Gen IV" GMT5.3-LH9
2010-12 V8 323 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2010-12	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2010-12	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		2010-12	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	2010-12	13244	2.000 Head Diameter
	Exh	2010-12	01935	1.551 Head Diameter
		2010-12	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2010-12	121-1085	1 RD Bead Type
Stem Seal	Int	2010-12	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2010-12	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-12	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2010-12	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2010-12	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2010-12	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2010-12	160-1488	2.126 Length,Conical
Lifter	Both	2010-12	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2010-12	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2010-12	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2010-12	190-1537	7.397 Length
Head Bolt Set		2010-12	220-1123	Torque To Yield,Services Engine

86 323 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin 4, "LMF Vortec 5300 Gen IV" GMT5.3-LMF
2008-14 V8 323 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2008-14	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2008-14	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		2008-14	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	2008-14	13244	2.000 Head Diameter
	Exh	2008-14	01935	1.551 Head Diameter
		2008-14	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2008-14	121-1085	1 RD Bead Type
Stem Seal	Int	2008-14	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2008-14	122-1338	Positive Type,Viton Material,Top Hat Style

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

323 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin 4, "LMF Vortec 5300 Gen IV" **86**
2008-14 V8 323 CID GMT5.3-LMF (cont.)
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Guide	Both	2008-14	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2008-14	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2008-14	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2008-14	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2008-14	160-1488	2.126 Length,Conical
Lifter	Both	2008-14	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2008-14	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2008-14	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-14	190-1537	7.397 Length
Head Bolt Set		2008-12	220-1123	Torque To Yield,Services Engine

325 C.I., (5.3L), OHV, FLEX, GAS, FI, 16 Valve, Vin C, Active Fuel Mgmt., "L83 Gen V EcoTec3" **87**
2014-17 V8 325 CID GMT5.3-L83
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-16	121-1085	1 RD Bead Type
Stem Seal	Int	2014-16	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2014-16	122-1338	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2014-16	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2014-16	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2014-16	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2014-16	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required

327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, Vin E **88**
1962-68 V8 327 CID GMT327
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1962-68	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	1962-68	SB1562-2	1 ⁹ / ₁₆ O.D.,1 ¹⁵ / ₁₆ T I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
		1962-68	SB1562-7	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ¹ / ₄ Depth,Optional Straight I.D.
Valve	Int	1962-68	00399	1.720 Head Diameter,+15 O/S Stem Available
		1962-68	01193	1.720 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1962-68	00400	1.500 Head Diameter,+3 & +15 O/S Stem Available
		1962-68	01192	1.500 Head Diameter,Opt. Chrome Plated, +3 & +15 O/S Stem Available
		1962-68	01206S	1.500 Head Diameter,Stellite Face,Optional Material & Chrome Plated, +15 O/S Stem Available
Keeper	Both	1962-68	121-1003	1 SQ Bead Type

GM TRUCK / PASSENGER TRUCK (Cont'd)

88 327 C.I., (5.3L), OHV, GAS, CARB, 16 Valve, Vin E GMT327
 (cont.) 1962-68 V8 327 CID BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Stem Seal	Int	1962-68	122-1075	Positive Type,Viton Material, Ring & Band Style
	Exh	1962-68	122-1233	Umbrella Type,Nylon Material,Umbrella Style
	Both	1962-68	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ $1\frac{1}{32}$ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1962-68	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	1962-68	140-5606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide,-5 U/S I.D. Available (140-5606U)
		1962-68	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	1962-67	160-1125	2.050 Length,W/ Damper
		1962-68	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1962-68	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
		1968-68	160-1144	2.048 Length,W/ Damper
Lifter	Both	1962-68	VL37	Hydraulic Type
Rocker Components	Both	1962-68	180-1228	Rocker Arm
		1962-68	180-1239	Rocker Arm, Stamped, Long Slot
		1962-68	180-1283	Rocker Arm, Rail Type,Optional
		1962-68	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut
		1962-68	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) $\frac{3}{8}$ Nut,High Perf., W/ 1.5:1 Ratio
		1962-68	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) $\frac{3}{8}$ Nut,Optional
		1962-68	183-1017	Smooth Ball, $\frac{3}{8}$
		1962-68	183-1032	Grooved Ball, $\frac{3}{8}$
1962-68	184-1038	Nut, $\frac{3}{8}$		
Push Rod	Both	1962-68	192-1331	7.798 Length

89 350 C.I., (5.7L), OHV, LPG, CARB, FI, 16 Valve, Vin W 350LP
 1969-95 V8 350 CID BORE - 101.6mm/4"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1969-95	SB1812-3	$1\frac{13}{16}$ O.D., $1\frac{1}{2}$ T I.D., $\frac{7}{32}$ Depth,W/ 1.720 Valve Head Dia.
		1969-95	SB2000-7	2.000 O.D., $1\frac{13}{16}$ I.D., $\frac{7}{32}$ Depth,W/ 1.940 Valve Head Dia.
	Exh	1969-95	SB1562-1N	$1\frac{9}{16}$ O.D., $1\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	1969-95	01194	1.720 Head Diameter
	Exh	1969-95	01195	1.940 Head Diameter,+3 & +15 O/S Stem Available
		1969-95	01646S	1.500 Head Diameter,Inconel, Stellite Face,W/ .3719 Stem Dia.,
Keeper	Both	1969-95	121-1003	1 SQ Bead Type
Stem Seal	Int	1969-95	122-1075	Positive Type,Viton Material, Ring & Band Style
	Exh	1969-95	122-1234	Umbrella Type,Nylon Material,Umbrella Style
	Both	1969-95	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1969-95	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use With $1\frac{1}{32}$ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	1969-95	140-7946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	Exh	1969-95	140-6107	0.3740 I.D.,2.250 Length,0.5020 O.D.,W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide
		1969-95	140-9107	0.3740 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,W/ .371 Valve Stem Dia
Spring	Exh	1969-95	160-1009	1.910 Length,W/ Damper

(Cont'd) GM TRUCK / PASSENGER TRUCK**350 C.I., (5.7L), OHV, LPG, CARB, FI, 16 Valve, Vin W**
1969-95 V8 350 CID**350LP 89**
BORE - 101.6mm/4" (cont.)

PART	YEARS	PART NO.	NOTES	
Spring	Both	1969-95	160-1144	2.048 Length,W/ Damper
Lifter	Both	1969-95	VL37	Hydraulic Type
Rocker Components	Both	1969-95	180-1228	Rocker Arm
		1969-95	180-1239	Rocker Arm, Stamped, Long Slot
		1969-95	180-1283	Rocker Arm, Rail Type,Optional
		1969-95	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut
		1969-95	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) $\frac{3}{8}$ Nut,High Perf., W/ 1.5:1 Ratio
		1969-95	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) $\frac{3}{8}$ Nut,Optional
		1969-95	183-1017	Smooth Ball, $\frac{3}{8}$
		1969-95	183-1032	Grooved Ball, $\frac{3}{8}$
		1969-95	184-1038	Nut, $\frac{3}{8}$
Push Rod	Both	1969-95	192-1331	7.798 Length

350 C.I., (5.7L), OHV, GAS, CARB, Vin A, B, E, H, J, K, L, M, P, V, Y
1969-88 V8 350 CID**GMT350CA 90**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1969-88	SB1812-3	1 $\frac{1}{16}$ O.D.,1 $\frac{1}{2}$ T I.D., $\frac{7}{32}$ Depth,W/ 1.720 Valve Head Dia.
		1969-88	SB2000-7	2.000 O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,W/ 1.940 Valve Head Dia.
	Exh	1969-88	SB1562-1	1 $\frac{1}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Exc. LPG
		1969-88	SB1562-1N	1 $\frac{1}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth,LPG
Valve	Int	1969-88	01193	1.720 Head Diameter,0.342 Stem Dia., +3 & +15 O/S Stem Available
		1969-88	01195	1.940 Head Diameter,0.341 Stem Dia., Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1969-88	01192	1.500 Head Diameter,0.3412T Stem Dia., +3 & +15 O/S Stem Available
		1969-88	01206S	1.500 Head Diameter,Stellite Face,0.342 Stem Dia., Chrome Plated, +15 O/S Stem Available
		1969-88	01294S	1.500 Head Diameter,Stellite Face,Chrome Plated, W/ .3718T Stem Dia., Exc. VIN M, +15 O/S Stem Available
		1969-88	01646S	1.500 Head Diameter,Inconel, Stellite Face,W/ .3719 Stem Dia., LPG, VIN M,
Keeper	Both	1969-88	121-1003	1 SQ Bead Type
Stem Seal	Int	1969-88	122-1075	Positive Type,Viton Material,Ring & Band Style
		1969-88	122-1233	Umbrella Type,Nylon Material,Umbrella Style,W/.342 Stem Dia.
	Both	1969-88	122-1234	Umbrella Type,Nylon Material,Umbrella Style,W/.3718 Stem Dia.
		1969-88	122-1037	Umbrella Type,Poly Material,Umbrella Style
		1969-88	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		1969-88	122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia.
		1969-88	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ $\frac{1}{32}$ Std. Stem, Use 122-1238 +15 For Oversize Stems
1969-88	122-1270	Umbrella Type,Viton Material,Umbrella Style		
Guide	Int	1969-88	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
		1969-88	140-6107	0.3740 I.D.,2.250 Length,0.5020 O.D.,Use W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide
	Exh	1969-88	140-7946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide

GM TRUCK / PASSENGER TRUCK (Cont'd)

90 350 C.I., (5.7L), OHV, GAS, CARB, Vin A, B, E, H, J, K, L, M, P, V, Y GMT350CA
 (cont.) 1969-88 V8 350 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Guide	Exh	1969-88	140-9107	0.3740 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,W/ .371 Valve Stem Dia
		1969-88	140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Both	1985-88	140-7999	0.3740 I.D.,2.200 Length,0.6205 O.D.,W/ Replaceable Exh. Guide, Use Caution When Removing Stepped O.D., NOTE: Drive Guide Out Toward Spring Seat
		1969-88	140-8180	0.3430 I.D.,2.275 Length,0.5577 O.D.,Aluminum Heads, +2 O/S Available
Spring	Exh	1973-80	160-1009	1.910 Length,W/ Damper
		1969-88	160-1144	2.048 Length,W/ Damper,Exc. 1973-80 Exh
	Both	1969-88	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1969-88	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	1973-88	161-1012	
Lifter	Both	1969-88	VL37	Hydraulic Type
Rocker Components	Both	1969-88	180-1228	Rocker Arm
		1969-88	180-1239	Rocker Arm, Stamped, Long Slot
		1969-88	180-1283	Rocker Arm, Rail Type,Optional
		1969-88	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		1969-88	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		1969-88	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		1969-88	183-1017	Smooth Ball, 3/8
		1969-88	183-1032	Grooved Ball, 3/8
1969-88	184-1038	Nut, 3/8		
Push Rod	Both	1969-88	192-1331	7.798 Length
Head Saver Shim		1969-88	230-2028	New Hgt. - Min. Hgt. N/A

91 350 C.I., (5.7L), OHV, DIESEL, FI, 16 Valve, Vin Z GMT350Z
 1978-81 V8 350 CID BORE - 103mm/4.06"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1978-81	SB2000-1	2.000 O.D.,1 3/4 I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material
	Exh	1978-81	SB1687-16	1 11/16 O.D.,1 7/16 I.D.,3/16 Depth
Keeper	Both	1978-81	121-1003	1 SQ Bead Type
Guide	Both	1978-81	140-7562	0.3450 I.D.,2.375 Length,0.5640 O.D.,Plain I.D. Conversion Guide
Spring	Both	1981-81	160-1049	2.010 Length,W/ Damper
Lifter	Both	1981-81	VL114	Hydraulic Roller Type
Rocker Components	Both	1978-79	181-1057	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
		1978-81	183-1027	Fulcrum, Long
		1978-81	183-1028	Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used
		1980-81	181-1059	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge
Push Rod	Both	1978-79	190-1411	8.234 Length,W/ 5/16 Ball Dia.
		1980-80	190-1438	8.245 Length,W/ 3/8 Ball Dia.
		1980-81	190-1489	7.702 Length,W/ 3/8 Ball Dia.

(Cont'd) GM TRUCK / PASSENGER TRUCK350 C.I., (5.7L), OHV, CNG, GAS, FI, 16 Valve, Vin K
1989-95 V8 350 CIDGMT350K **92**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-95	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, W/ 1.720 Valve Head Dia. 2.000 O.D., 1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.940 Valve Head Dia. 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Exc. LPG 1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, LPG 1 ⁵ / ₈ O.D., 1 ⁵ / ₁₆ I.D., ¹ / ₄ Depth, W/ Vortec Cylinder Head
		1989-95	SB2000-7	
	Exh	1989-95	SB1562-1	
		1989-95	SB1562-1N	
		1989-95	SB1625-3N	
Valve	Int	1989-95	01193	1.720 Head Diameter, 0.342 Stem Dia., +3 & +15 O/S Stem Available
		1989-95	01195	1.940 Head Diameter, 0.341 Stem Chrome Plated, +3 & +15 O/S Stem Available
	Exh	1989-95	01206S	1.500 Head Diameter, Stellite Face, 0.342 Stem Dia., Chrome Plated, +15 O/S Stem Available
		1989-95	01294S	1.500 Head Diameter, Stellite Face, Chrome Plated, W/ .3718T Stem Dia., +15 O/S Stem Available
		1989-95	01646S	1.500 Head Diameter, Inconel, Stellite Face, W/ .3719 Stem Dia.,
Keeper	Both	1989-95	121-1003	1 SQ Bead Type
Stem Seal	Int	1989-95	122-1075	Positive Type, Viton Material, Ring & Band Style Umbrella Type, Nylon Material, Umbrella Style, W/.342 Stem Dia. Umbrella Type, Nylon Material, Umbrella Style, W/.3718 Stem Dia. O-Ring Type, Nitrile Material, O-Ring Style Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1989-95	122-1233	
	Exh	1989-95	122-1234	
		1989-95	122-1043	
	Both	1989-95	122-1238	
Guide	Int	1989-95	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U) 0.3740 I.D., 2.250 Length, 0.5020 O.D., Use W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide 0.3430 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide 0.3740 I.D., 2.200 Length, 0.6205 O.D., W/ Replaceable Exh. Guide, Use Caution When Removing Stepped O.D., NOTE: Drive Guide Out Toward Spring Seat 0.3740 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, W/ .371 Valve Stem Dia 0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide 0.3430 I.D., 2.275 Length, 0.5577 O.D., Aluminum Heads, +2 O/S Available
		1989-95	140-6107	
	Exh	1989-95	140-7946	
		1989-95	140-7999	
		1989-95	140-9107	
	Both	1989-95	140-9946	
		1989-95	140-8180	
	Spring	Both	1989-95		160-1144	2.048 Length, W/ Damper
1989-95			160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
1989-95			160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
1995-96			160-1266	2.040 Length
Rotator	Exh	1989-95	161-1012	
Lifter	Both	1989-95	VL37	Hydraulic Type
Rocker Components	Both	1989-95	180-1228	Rocker Arm Rocker Arm, Stamped, Long Slot Rocker Arm, Rail Type, Optional Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, High Perf., W/ 1.5:1 Ratio
		1989-95	180-1239	
		1989-95	180-1283	
		1989-95	181-1011	
		1989-95	181-1049	

GM TRUCK / PASSENGER TRUCK (Cont'd)

92 350 C.I., (5.7L), OHV, CNG, GAS, FI, 16 Valve, Vin K **GMT350K**
 (cont.) 1989-95 V8 350 CID **BORE - 101.6mm/4.00"**

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1989-95	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) $\frac{3}{8}$ Nut, Optional
		1989-95	183-1017	Smooth Ball, $\frac{3}{8}$
		1989-95	183-1032	Grooved Ball, $\frac{3}{8}$
		1989-95	184-1038	Nut, $\frac{3}{8}$
Push Rod	Both	1989-95	192-1331	7.798 Length
Head Bolt Set		1989-95	220-1018	This bolt is NOT Torque to Yield, 2 Required
Head Saver Shim		1989-95	230-2028	New Hgt. - Min. Hgt. N/A

93 350 C.I., (5.7L), OHV, BI-FUEL, CNG, GAS, FI, 16 Valve, Vin R **GMT350R**
 1996-02 V8 350 CID **BORE - 101.6mm/4.00"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1996-02	SB2000-36	2.000 O.D., $1\frac{1}{4}$ I.D., $\frac{3}{16}$ Depth
	Exh	1996-02	SB1562-1	$1\frac{1}{16}$ O.D., $1\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		1996-02	SB1562-1N	$1\frac{1}{16}$ O.D., $1\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, LPG Applications
Valve	Int	1996-02	01762R	1.940 Head Diameter, Optional Stainless Steel, W/O Seal Groove
		1996-02	01931	1.940 Head Diameter, 1 Groove, +15 O/S Stem Available
	Exh	1996-02	01807	1.500 Head Diameter, 1 Groove, +15 O/S Available
		1996-02	01807S	1.500 Head Diameter, Stellite Face, LPG Applications, +15 O/S Stem Available
Keeper	Both	1996-02	121-1003	1 SQ Bead Type
Stem Seal	Both	1996-02	122-1260	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1996-02	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	1996-02	140-9946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	1996-02	160-1266	2.040 Length
Lifter	Both	1996-02	VL115	Hydraulic Roller Type, Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller.
Rocker Components	Both	1996-02	180-1228	Rocker Arm
		1996-02	180-1283	Rocker Arm, Rail Type, Optional
		1996-02	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) $\frac{3}{8}$ Nut
		1996-02	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) $\frac{3}{8}$ Nut, Optional
		1996-02	183-1017	Smooth Ball, $\frac{3}{8}$
		1996-02	184-1038	Nut, $\frac{3}{8}$
Push Rod	Both	1996-02	192-1485	7.195 Length

94 351 C.I., (5.7L), OHV, GAS, CARB, 12 Valve, Chevrolet V6 **GMT351**
 1960-65 V6 351 CID **BORE - 115.9mm/4.56"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1960-65	SB2250-2	$2\frac{1}{4}$ O.D., $1\frac{7}{8}$ I.D., $\frac{9}{32}$ Depth
Keeper	Exh	1960-65	121-1003	1 SQ Bead Type
Stem Seal	Int	1960-65	122-1031	Positive Type, Poly Material, 2-Ring Style
	Exh	1960-65	122-1043	O-Ring Type, Nitrile Material, O-Ring Style

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

351 C.I., (5.7L), OHV, GAS, CARB, 12 Valve, Chevrolet V6 **GMT351 94**
1960-65 V6 351 CID BORE - 115.9mm/4.56" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Int	1960-65	140-6115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1960-65	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1960-65	140-6116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		1960-65	140-9116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

351 C.I., (5.7L), OHV, GAS, CARB, 12 Valve, Chevrolet V6 C,E,M **GMT351CEM 95**
1966-72 V6 351 CID BORE - 115.9mm/4.56"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1966-72	SB2250-2	2¼ O.D.,1⅞ I.D.,⅝ Depth
Keeper	Exh	1966-72	121-1003	1 SQ Bead Type
Stem Seal	Both	1966-72	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	1966-72	140-6115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1966-72	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1966-72	140-6116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		1966-72	140-9116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin H "Aluminum Block Gen IV LS2" **GMT6.0-LS2 96**
2005-09 V8 364 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2005-09	SB2062-51	2⅞ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		2005-09	SB1625-64	1⅝ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2005-09	SB1625-64N	1⅝ O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	2005-08	02000	2.000 Head Diameter
		2005-09	02000R-200	2.000 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ Stock Head Dia.; See Performance Catalog For More Details
		2005-09	02000R-202	2.020 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.020 Head Dia.; See Performance Catalog For More Details
		2005-09	02000R-205	2.050 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.050 Head Dia.; See Performance Catalog For More Details
	Exh	2009-09	02267	2.000 Head Diameter
		2005-09	01935	1.551 Head Diameter
		2005-09	01935R-155	1.550 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ Stock Head Dia.; See Performance Catalog For More Details
		2005-09	01935R-157	1.570 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.020 Head Dia.; See Performance Catalog For More Details
		2005-09	01935R-160	1.600 Head Diameter,NOTE: Optional One Piece Stainless Steel Performance Valve W/ +0.050 Head Dia.; See Performance Catalog For More Details
		2005-09	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2005-09	121-1085	1 RD Bead Type

GM TRUCK / PASSENGER TRUCK (Cont'd)

96 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin H "Aluminum Block Gen IV

(cont.) LS2"

GMT6.0-LS2

2005-09

V8 364 CID

BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Stem Seal	Int	2005-09	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2005-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2005-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2005-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2005-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2005-09	160-1623	2.125 Length
Lifter	Both	2005-05	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2005-09	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2005-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2005-09	190-1537	7.397 Length
Head Bolt Set		2005-09	220-1103	Torque To Yield,NOTE: Services Engine
Head Saver Shim		2005-09	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

97 364 C.I., (6.0L), OHV, BI-FUEL, CNG, GAS, FI, 16 Valve, Vin U, "LQ4 Vortec Gen III"

1999-07

V8 364 CID

GMT6.0-LQ4

BORE - 101.6mm/4.00"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1999-07	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
		1999-07	SB2062-51N	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,LPG
	Exh	1999-07	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
		1999-07	SB1625-64N	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,LPG
Valve	Int	1999-07	02000	2.000 Head Diameter,Unleaded Fuel Only
		1999-07	02267	2.000 Head Diameter,LPG
	Exh	1999-00	02045	1.551 Head Diameter,Unleaded Fuel Only
		1999-07	01935S	1.551 Head Diameter,Stellite Face,LPG, NOTE: Can Be Used In 1999-2000 LPG Applications, However Stem Dia. Is 0.001" Larger than 02045.
	2001-07	01935	1.551 Head Diameter,Unleaded Fuel Only	
Keeper	Both	1999-07	121-1085	1 RD Bead Type
Stem Seal	Int	2001-07	122-1337	Positive Type,Viton Material,Top Hat Style,2nd Design.
	Exh	2001-07	122-1338	Positive Type,Viton Material,Top Hat Style,2nd Design.
	Both	1999-01	122-1323	Positive Type,Viton Material,Metal Clad Style,1st Design
Guide	Both	1999-07	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		1999-07	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		1999-07	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
Spring	Both	1999-07	160-1488	2.126 Length,Conical

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

364 C.I., (6.0L), OHV, BI-FUEL, CNG, GAS, FI, 16 Valve, Vin U, "LQ4 Vortec Gen III" **97**
1999-07 V8 364 CID GMT6.0-LQ4 (cont.)
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Lifter	Both 1999-07	VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller. ,Non-Active Fuel Management
Rocker Components	Both 1999-07	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both 1999-07	190-1537	7.397 Length
Head Bolt Set	1999-04 2004-07	220-1102 220-1103	Torque To Yield,1st Design; NOTE: Services Engine Torque To Yield,2nd Design; NOTE: Services Engine
Head Saver Shim	2001-07	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin N "LQ9 H.O. Vortec Gen III" **98**
2002-07 V8 364 CID GMT6.0-LQ9
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2002-06	SB2062-51	2 1/16 O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material,W/ 2.000 Head Dia. 2 1/4 O.D.,1 7/8 I.D.,3/8 Depth,W/ 2.165 Head Dia.; NOTE: Universal Repair Seat, Requires 2 1/4" Cutter.
		2007-07	SB2250-50	
	Exh	2002-06	SB1625-64	1 5/8 O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material,W/ 1.551 Head Dia. 1 5/8 O.D.,1.335T I.D.,0.4200 Depth,W/ 1.551 Head Dia.; LPG 1.6340 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
		2002-06 2007-07	SB1625-64N SB1634E-3	
Valve	Int	2002-06	02000	2.000 Head Diameter 2.165 Head Diameter
		2007-07	13040	
	Exh	2002-06	01935	1.551 Head Diameter 1.551 Head Diameter,Stellite Face,LPG 1.587 Head Diameter
		2002-06	01935S	
		2007-07	13042	
Keeper	Both 2002-07	121-1085	1 RD Bead Type	
Stem Seal	Int 2002-07	122-1337	Positive Type,Viton Material,Top Hat Style Positive Type,Viton Material,Top Hat Style	
	Exh 2002-07	122-1338		
Guide	Both	2002-07	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2) 0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version 0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D. 0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
		2002-07	140-3053H	
		2002-07	140-3053U	
		2002-07	340-1046BR	
Spring	Both 2002-07	160-1488	2.126 Length,Conical	
Lifter	Both	2002-07	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490 Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
		2002-07	VL559G	
Rocker Components	Both 2002-07	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion	
Push Rod	Both 2002-07	190-1537	7.397 Length	
Head Bolt Set	2002-04 2004-07	220-1102 220-1103	Torque To Yield,1st Design; NOTE: Services Engine Torque To Yield,2nd Design; NOTE: Services Engine	
Head Saver Shim	2002-07	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A	

GM TRUCK / PASSENGER TRUCK (Cont'd)

99 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin K "LY6 Vortec Gen IV"
2007-10 V8 364 CID

GMT6.0-LY6
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2007-10	SB2250-50	2¼ O.D., 1⅞ I.D., ⅜ Depth, NOTE: Universal Repair Seat, Requires 2¼" Cutter.
	Exh	2007-10	SB1634E-3	1.6340 O.D., 1.360T I.D., 0.3000 Depth, NOTE: Services Factory Installed Seat.
Valve	Int	2007-09	13040	2.165 Head Diameter
		2010-10	13240	2.165 Head Diameter
	Exh	2007-10	13042	1.587 Head Diameter
Keeper	Both	2007-10	121-1085	1 RD Bead Type
Stem Seal	Int	2007-10	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2007-10	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2007-10	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2007-10	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2007-10	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2007-10	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2007-10	160-1488	2.126 Length, Conical
Lifter	Both	2007-10	VL559	Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490
		2007-10	VL559G	Non-AFM Lifter Guide Type, Non-AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Int	2007-10	180-1336	Rocker Arm, Roller Pivot Assy., NOTE: Offset, For Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2007-10	180-1337	Rocker Arm, Roller Pivot Assy., NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-10	190-1537	7.397 Length
Head Bolt Set		2007-10	220-1103	Torque To Yield, Services Engine
		2009-10	220-1123	Torque To Yield, Services Engine
Head Saver Shim		2007-10	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

100 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin Y, Active Fuel Mgmt., "L76 Vortec Gen IV Aluminum Block"

2007-09 V8 364 CID

GMT6.0-L76
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2007-09	SB2250-50	2¼ O.D., 1⅞ I.D., ⅜ Depth, NOTE: Universal Repair Seat, Requires 2¼" Cutter.
	Exh	2007-09	SB1634E-3	1.6340 O.D., 1.360T I.D., 0.3000 Depth, NOTE: Services Factory Installed Seat.
Valve	Int	2007-09	13040	2.165 Head Diameter
	Exh	2007-09	13042	1.587 Head Diameter
Keeper	Both	2007-09	121-1085	1 RD Bead Type
Stem Seal	Int	2007-09	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2007-09	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2007-09	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2007-09	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2007-09	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin Y, Active Fuel Mgmt., "L76
Vortec Gen IV Aluminum Block"
2007-09 V8 364 CID

100
GMT6.0-L76 (cont.)
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Guide	Both	2007-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2007-09	160-1488	2.126 Length,Conical
Lifter	Both	2007-09	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; NOTE: It Is Recommended To Replace In Sets.
		2007-09	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2007-09	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2007-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Int	2007-09	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, For Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2007-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-09	190-1537	7.397 Length
Head Bolt Set		2007-09	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2007-09	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

364 C.I., (6.0L), OHV, FLEX, GAS, FI, 16 Valve, Vin G, "L96 Vortec Gen IV"
2010-17 V8 364 CID

GMT6.0-L96 **101**
BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2010-16	SB2250-50	2¼ O.D.,1⅞ I.D.,¾ Depth,Gasoline & CNG; NOTE: Universal Repair Seat, Requires 2¼" Cutter.
	Exh	2010-16	SB1634E-3	1.6340 O.D.,1.360T I.D.,0.3000 Depth,Gasoline; NOTE: Services Factory Installed Seat.
		2010-16	SB1634E-3N	1.6340 O.D.,1.360T I.D.,0.3000 Depth,CNG; NOTE: Services Factory Installed Seat.
Valve	Int	2010-16	13240	2.165 Head Diameter,Gasoline & CNG
	Exh	2010-16	13042	1.587 Head Diameter,Gasoline Only
		2010-16	13241S	1.589 Head Diameter,Stellite Face,CNG
Keeper	Both	2010-16	121-1085	1 RD Bead Type
Stem Seal	Int	2010-16	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2010-16	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-16	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2010-16	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2010-16	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2010-16	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2010-16	160-1488	2.126 Length,Conical
Lifter	Both	2010-16	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2010-16	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2010-16	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion

GM TRUCK / PASSENGER TRUCK (Cont'd)

101 364 C.I., (6.0L), OHV, FLEX, GAS, FI, 16 Valve, Vin G, "L96 Vortec Gen IV" GMT6.0-L96
(cont.) 2010-17 V8 364 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Push Rod	Both	2010-16	190-1537	7.397 Length
Head Bolt Set		2010-16	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2010-16	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

102 364 C.I., (6.0L), OHV, CNG, GAS, FI, 16 Valve, Vin 8, B, LC8 GMT6.0-LC8
2011-16 V8 364 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2011-16	SB2250-50	2¼ O.D., 1⅞ I.D., ⅜ Depth,NOTE: Universal Repair Seat, Requires 2¼" Cutter.
	Exh	2011-16	SB1634E-3N	1.6340 O.D., 1.360T I.D., 0.3000 Depth,NOTE: Services Factory Installed Seat.
Valve	Int	2011-16	13240	2.165 Head Diameter
	Exh	2011-16	13241S	1.589 Head Diameter,Stellite Face
Keeper	Both	2011-16	121-1085	1 RD Bead Type
Stem Seal	Int	2011-16	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2011-16	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-16	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.
Spring	Both	2011-16	160-1488	2.126 Length,Conical
Lifter	Both	2011-16	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2011-16	VL559G	Non-AFM Lifter Guide Type,Non-AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2011-16	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2011-16	190-1537	7.397 Length
Head Bolt Set		2011-16	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2011-16	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

103 364 C.I., (6.0L), OHV, ELECTRIC/GAS, FI, 16 Valve, Vin 5, Active Fuel Mgmt., "LFA Vortec Hybrid Gen IV" GMT6.0-LFA
2008-09 V8 364 CID BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2008-09	SB2062-51	2⅛ O.D., 1.750T I.D., 0.3900 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2008-09	SB1625-64	1⅝ O.D., 1.335T I.D., 0.4200 Depth,Also Available In Non-Magnetic (N) Material
		2008-09	SB1625-64N	1⅝ O.D., 1.335T I.D., 0.4200 Depth,LPG
Valve	Int	2008-09	02000	2.000 Head Diameter
	Exh	2008-09	01935	1.551 Head Diameter
		2008-09	01935S	1.551 Head Diameter,Stellite Face,LPG
Keeper	Both	2008-09	121-1085	1 RD Bead Type
Stem Seal	Int	2008-09	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2008-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2008-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2008-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2008-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

364 C.I., (6.0L), OHV, ELECTRIC/GAS, FI, 16 Valve, Vin 5, Active Fuel Mgmt., "LFA Vortec Hybrid Gen IV"
2008-09 V8 364 CID

103
GMT6.0-LFA (cont.)

BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Spring	Both	2008-09	160-1488	2.126 Length,Conical
Lifter	Both	2008-09	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2008-09	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2008-09	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2008-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2008-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-09	190-1537	7.397 Length
Head Bolt Set		2008-09	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2008-09	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

364 C.I., (6.0L), OHV, ELECTRIC/FLEX, FI, 16 Valve, Vin J, Active Fuel Mgmt., "LZ1 Hybrid Vortec Gen IV"
2010-13 V8 364 CID

104
GMT6.0-LZ1

BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2010-13	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2010-13	SB1625-64	1 ⁵ / ₁₆ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	2010-13	13244	2.000 Head Diameter
	Exh	2010-13	01935	1.551 Head Diameter
Keeper	Both	2010-13	121-1085	1 RD Bead Type
Stem Seal	Int	2010-13	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2010-13	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-13	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2010-13	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2010-13	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2010-13	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2010-13	160-1488	2.126 Length,Conical
Lifter	Both	2010-13	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2010-13	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2010-13	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2010-13	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2010-13	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2010-13	190-1537	7.397 Length

GM TRUCK / PASSENGER TRUCK (Cont'd)

104 364 C.I., (6.0L), OHV, ELECTRIC/FLEX, FI, 16 Valve, Vin J, Active Fuel

(cont.) Mgmt., "LZ1 Hybrid Vortec Gen IV"

GMT6.0-LZ1

2010-13

V8 364 CID

BORE - 101.6mm/4.00"

PART	YEARS	PART NO.	NOTES
Head Bolt Set	2010-12	220-1123	Torque To Yield, Services Engine
Head Saver Shim	2010-13	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

105 366 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin B

GMT366

1966-83

V8 366 CID

BORE - 100mm/3.94"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1966-83 1966-83 Exh 1966-83 1966-83 1966-83	SB1937-17 SB2125-11 SB1750-2 SB1812-21N	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.840 Valve Head Dia. 2 ¹ / ₈ O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, W/ 1.940 Valve Head Dia. 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.660 Valve Head Dia. 1 ¹³ / ₁₆ O.D., 1 ¹⁵ / ₃₂ I.D., ⁵ / ₁₆ Depth, Optional O/S Replacement For Late Cylinder Head W/ Factory Installed Seat
Valve	Int 1966-83 Exh 1966-83 1966-83 1966-83 1966-83 1966-83	00997 01087 00996S 01235S 01241SN 21235S	1.840 Head Diameter, 1st Design Exc. H-Duty Emission Control 1.940 Head Diameter, 2nd Design, +15 O/S Available 1.660 Head Diameter, Stellite Face, 1st Design, +15 O/S Stem Available 1.660 Head Diameter, Recommended OEM Nickel Base Inconel Material, Stellite Face, 2nd Design 1.660 Head Diameter, Stellite Face, Sodium Filled, Optional, 2nd Design 1.660 Head Diameter, Alternative Austenitic Material, Stellite Face, Nitrided, W/ 20 Degree Seat Angle, Optional LPG
Keeper	Both 1966-83	121-1007	1 SQ Bead Type
Stem Seal	Both 1966-83	122-1036	Umbrella Type, Poly Material, Umbrella Style
Guide	Int 1966-83 Exh 1966-83 1966-83	140-9973 140-7208 140-9208	0.3735 I.D., 2.420 Length, 0.6255 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation 0.3740 I.D., 2.740 Length, 0.6205 O.D. 0.3740 I.D., 2.740 Length, 0.6205 O.D.
Spring	Both 1966-83	160-1141	2.050 Length, W/ Damper
Rotator	Exh 1966-83	161-1013	
Lifter	Both 1966-83	VL37	Hydraulic Type
Rocker Components	Both 1966-83 1966-83 1966-83 1966-83	180-1229 181-1014 183-1026 184-1040	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut, High Perf. Grooved Ball, ⁷ / ₁₆ Nut, ⁷ / ₁₆
Push Rod	Int 1966-76 1977-83 Exh 1966-76 1977-83	192-1377 190-1433 192-1378 192-1442	8.680 Length, 0.375 Dia. 8.686 Length, Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available, 0.312 Dia. 9.643 Length, 0.375 Dia. 9.650 Length, 0.312 Dia.

106 366 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin L

GMT366L

1984-98

V8 366 CID

BORE - 100mm/3.937"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1984-98 Exh 1984-98	SB2125-11 SB1750-2	2 ¹ / ₈ O.D., 1 ³ / ₄ I.D., ⁷ / ₃₂ Depth, W/ 1.940 Valve Head Dia. 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.660 Valve Head Dia.

(Cont'd) GM TRUCK / PASSENGER TRUCK**366 C.I., (6.0L), OHV, GAS, CARB, 16 Valve, Vin L**
1984-98 V8 366 CID**GMT366L 106**
BORE - 100mm/3.937" (cont.)

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1984-98	SB1812-21N 1 ¹³ / ₁₆ O.D., 1 ¹⁵ / ₃₂ I.D., ⁵ / ₁₆ Depth, Optional O/S Replacement For Late Cylinder Head W/ Factory Installed Exhaust Seat; NOTE: Includes LPG
Valve	Int	1984-98	01087 1.940 Head Diameter, 2nd Design, +15 O/S Available
	Exh	1984-98	00996S 1.660 Head Diameter, Stellite Face, +15 O/S Stem Available
		1984-98	01235S 1.660 Head Diameter, Recommended OEM Nickel Base Inconel Material, Stellite Face, 2nd Design
	1984-98	01241SN 1.660 Head Diameter, Stellite Face, Sodium Filled, Optional, 2nd Design	
	1984-98	21235S 1.660 Head Diameter, Alternative Austenitic Material, Stellite Face, Nitrided, W/ 20 Degree Seat Angle, Optional LPG	
Keeper	Both	1984-98	121-1007 1 SQ Bead Type
Stem Seal	Both	1984-98	122-1036 Umbrella Type, Poly Material, Umbrella Style
		1984-98	122-1330 Positive Type, Viton Material, Spring & Band Style, Universal Seal.
Guide	Int	1984-98	140-9973 0.3735 I.D., 2.420 Length, 0.6255 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
	Exh	1984-98	140-7208 0.3740 I.D., 2.740 Length, 0.6205 O.D.
		1984-98	140-8256 0.3740 I.D., 2.755 Length, 0.6205 O.D., Same As 140-8113 But Not Cut For Seal, Must Pressure Test for Water Leak After Installation
	1984-98	140-9208 0.3740 I.D., 2.740 Length, 0.6205 O.D.	
Spring	Both	1984-94	160-1089 2.050 Length, W/ Shroud
		1995-98	160-1507 2.162 Length, Conical
Rotator	Exh	1984-94	161-1013
Lifter	Both	1984-90	VL37 Hydraulic Type
		1991-98	VL117RH Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		1991-98	VL73 Hydraulic Type
Rocker Components	Both	1984-90	180-1229 Rocker Arm
		1984-90	181-1014 Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut, High Perf.
		1984-90	183-1026 Grooved Ball, ⁷ / ₁₆
		1984-90	184-1040 Nut, ⁷ / ₁₆
		1991-98	180-1319 Rocker Arm
Push Rod	Int	1984-90	190-1526 8.634 Length
		1991-98	190-1527 8.571 Length
	Exh	1984-90	190-1429 9.594 Length
		1991-98	190-1528 9.540 Length

378 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 8, Active Fuel Mgmt, "L92 Vortec Gen IV"
2007-08 V8 378 CID**GMT6.2-L92 107**
BORE - 103.2mm/4.06"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2007-08	SB2250-50 2 ¹ / ₄ O.D., 1 ¹ / ₈ I.D., ³ / ₈ Depth, Gasoline & CNG; NOTE: Universal Repair Seat, Requires 2 ¹ / ₄ " Cutter.
	Exh	2007-08	SB1634E-3 1.6340 O.D., 1.360T I.D., 0.3000 Depth, Gasoline; NOTE: Services Factory Installed Seat.
		2007-08	SB1634E-3N 1.6340 O.D., 1.360T I.D., 0.3000 Depth, CNG; NOTE: Services Factory Installed Seat.
Valve	Int	2007-08	13040 2.165 Head Diameter, Gasoline
		2007-08	13240 2.165 Head Diameter, CNG

GM TRUCK / PASSENGER TRUCK (Cont'd)

107 378 C.I., (6.2L), OHV, GAS, FI, 16 Valve, Vin 8, Active Fuel Mgmt, "L92

(cont.) Vortec Gen IV"

GMT6.2-L92

2007-08

V8 378 CID

BORE - 103.2mm/4.06"

PART		YEARS	PART NO.	NOTES
Valve	Exh	2007-08	13042	1.587 Head Diameter, Gasoline
		2007-08	13241S	1.589 Head Diameter, Stellite Face, CNG
Keeper	Both	2007-08	121-1085	1 RD Bead Type
Stem Seal	Int	2007-08	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2007-08	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2007-08	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2007-08	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2007-08	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.
		2007-08	340-1046BR	0.3150 I.D., 2.120 Length, 0.5010 O.D., NOTE: Optional Bronze Version
Spring	Both	2007-08	160-1488	2.126 Length, Conical
Lifter	Both	2007-08	VL558	AFM Hydraulic Roller Type, W/Spring, Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2007-08	VL558FG	AFM Lifter Guide-Front Type, OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2007-08	VL558RG	AFM Lifter Guide-Rear Type, OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2007-08	VL559	Hydraulic Roller Type, Oil Hole Is Positioned In Line With Roller Pin., Non-Active Fuel Management; OEM # 17122490
Rocker Components	Int	2007-08	180-1336	Rocker Arm, Roller Pivot Assy., NOTE: Offset, For Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2007-08	180-1337	Rocker Arm, Roller Pivot Assy., NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2007-08	190-1537	7.397 Length
Head Bolt Set		2007-08	220-1103	Torque To Yield, NOTE: Services Engine
Head Saver Shim		2007-08	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

108 376 C.I., (6.2L), OHV, FLEX, FI, 16 Valve, Vin 2, "L9H Vortec Gen IV Aluminum Block"

GMT6.2-L9H

2009-13

V8 376 CID

BORE - 103.2mm/4.06"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2009-13	SB2250-50	2¼ O.D., 17⁄8 I.D., 3⁄8 Depth, NOTE: Universal Repair Seat, Requires 2¼" Cutter.
	Exh	2009-13	SB1634E-3	1.6340 O.D., 1.360T I.D., 0.3000 Depth, NOTE: Services Factory Installed Seat.
Valve	Int	2009-13	13240	2.165 Head Diameter
	Exh	2009-13	13042	1.587 Head Diameter
Keeper	Both	2009-13	121-1085	1 RD Bead Type
Stem Seal	Int	2009-13	122-1337	Positive Type, Viton Material, Top Hat Style
	Exh	2009-13	122-1338	Positive Type, Viton Material, Top Hat Style
Guide	Both	2009-13	140-3053	0.3154 I.D., 2.115 Length, 0.5000 O.D., +2 O/S Available (140-3053+2)
		2009-13	140-3053H	0.3154 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional Hardened Version
		2009-13	140-3053U	0.3054 I.D., 2.115 Length, 0.5000 O.D., NOTE: Optional - 010 Undersized I.D.

(Cont'd) GM TRUCK / PASSENGER TRUCK**376 C.I., (6.2L), OHV, FLEX, FI, 16 Valve, Vin 2, "L9H Vortec Gen IV Aluminum Block"****108**

2009-13

V8 376 CID

GMT6.2-L9H (cont.)

BORE - 103.2mm/4.06"

PART	YEARS	PART NO.	NOTES	
Guide	Both	2009-13	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2009-13	160-1488	2.126 Length,Conical
Lifter	Both	2009-13	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490 Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
		2009-13	VL559G	
Rocker Components	Int	2009-13	180-1336	Rocker Arm, Roller Pivot Assy.,NOTE: Offset, For Use With Large Rectangular Intake Ports; Captive Bearing Design With High Grade Steel Trunion
	Exh	2009-13	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2009-13	190-1537	7.397 Length
Head Bolt Set		2009-12	220-1123	Torque To Yield,Services Engine
Head Saver Shim		2009-13	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

376 C.I., (6.2L), OHV, FLEX, FI, 16 Valve, Vin F, Active Fuel Mgmt., "L94 Vortec Gen IV Aluminum Block"**109**

2010-14

V8 376 CID

GMT6.2-L94

BORE - 103.3mm/4.06"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2010-14	SB2250-50	2¼ O.D.,1⅞ I.D.,¾ Depth,NOTE: Universal Repair Seat, Requires 2¼" Cutter. 1.6340 O.D.,1.360T I.D.,0.3000 Depth,NOTE: Services Factory Installed Seat.
	Exh	2010-14	SB1634E-3	
Valve	Int	2010-14	13240	2.165 Head Diameter
	Exh	2010-14	13042	1.587 Head Diameter
Keeper	Both	2010-14	121-1085	1 RD Bead Type
Stem Seal	Int	2010-14	122-1337	Positive Type,Viton Material,Top Hat Style Positive Type,Viton Material,Top Hat Style
	Exh	2010-14	122-1338	
Guide	Both	2010-14	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2) 0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version 0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D. 0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
		2010-14	140-3053H	
		2010-14	140-3053U	
		2010-14	340-1046BR	
Spring	Both	2010-14	160-1488	2.126 Length,Conical
Lifter	Both	2010-14	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets. AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl. AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl. Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
		2010-14	VL558FG	
		2010-14	VL558RG	
		2010-14	VL559	
Rocker Components	Both	2010-14	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2010-14	190-1537	7.397 Length

GM TRUCK / PASSENGER TRUCK (Cont'd)

109 376 C.I., (6.2L), OHV, FLEX, FI, 16 Valve, Vin F, Active Fuel Mgmt., "L94

(cont.) Vortec Gen IV Aluminum Block"

GMT6.2-L94

2010-14

V8 376 CID

BORE - 103.3mm/4.06"

PART	YEARS	PART NO.	NOTES
Head Bolt Set	2010-12	220-1123	Torque To Yield,Services Engine
Head Saver Shim	2010-13	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

110 376 C.I., (6.2L), OHV, FLEX, GAS, FI, 16 Valve, Vin J, "L86 Gen V EcoTec3" GMT6.2-L86

2014-17

V8 376 CID

BORE - 103.2mm/4.06"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-17	121-1085	1 RD Bead Type
Stem Seal	Int	2014-16	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2014-16	122-1338	Positive Type,Viton Material,Top Hat Style
Lifter	Both	2014-17	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.
		2014-17	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2014-17	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2014-17	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required

111 379 C.I., (6.2L), GAS, CARB

1973-75

V6 379 CID

GMT379

BORE- 115.89mm/4.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1973-75	SB2250-2	2¼ O.D.,17⁄8 I.D.,9⁄32 Depth
Keeper	Exh	1973-75	121-1003	1 SQ Bead Type
Guide	Int	1973-75	140-6115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1973-75	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1973-75	140-6116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		1973-75	140-9116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1973-75	160-1128	2.270 Length

112 379 C.I., (6.2L), OHV, DIESEL, FI, 16 Valve, Vin C, J

1982-93

V8 379 CID

GMT379CJ

BORE - 101mm/3.98"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1982-93	SB1937-23	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D.,3⁄16 Depth,W/ 1.811 Valve Head Dia.
	Exh	1982-87	SB1687-15	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D.,5⁄32 Depth,W/ 1.653 Valve Head Dia.
		1988-93	SB1562-36N	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D.,3⁄16 Depth,W/ 1.535 Valve Head Dia.
Valve	Int	1982-93	01484	1.811 Head Diameter,1982-83 C Eng. & 1984-93 All
		1982-87	01483S	1.653 Head Diameter,Stellite Face,1982-83 All & 1984-87 C Eng.
	Exh	1984-93	01482S	1.496 Head Diameter,Stellite Face,J Eng.
		1988-93	01780S	1.535 Head Diameter,Stellite Face,C Eng.
Keeper	Both	1982-93	121-1003	1 SQ Bead Type
Stem Seal	Int	1982-93	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
	Exh	1982-93	122-1031	Positive Type,Poly Material,2-Ring Style,Aftermarket Version.
		1982-93	122-1332	Positive Type,Viton Material,Metal Clad Style,OEM Style
Guide	Int	1982-93	140-9715	0.3430 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

(Cont'd) GM TRUCK / PASSENGER TRUCK**379 C.I., (6.2L), OHV, DIESEL, FI, 16 Valve, Vin C, J**
1982-93 V8 379 CID**GMT379CJ 112**
BORE - 101mm/3.98" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Exh	1982-93	140-9716	0.3730 I.D.,2.188 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1982-93	160-1233	2.035 Length,W/ Damper
Rotator	Both	1982-93	161-1012	
Lifter	Both	1982-93	VL114	Hydraulic Roller Type
Rocker Components	Both	1982-93	180-1292	Rocker Arm
Push Rod	Both	1982-93	190-1500	8.828 Length,Install Bronze Colored End Toward Rocker Arm
Head Bolt Set		1982-93	220-1010	Torque To Yield,2 Required

395 C.I., (6.5L), OHV, DIESEL, FI, 16 Valve, Vin F, S, "L65 TURBO"
1992-04 V8 395 CID**GMT395TD 113**
BORE - 103mm/4.06"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1992-04 1992-04	SB1937-23 SB1562-36N	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ³ / ₁₆ Depth 1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ³ / ₁₆ Depth
Valve	Int Exh	1992-04 1992-04	01484 01780S	1.811 Head Diameter 1.535 Head Diameter,Stellite Face
Keeper	Both	1992-04	121-1003	1 SQ Bead Type
Stem Seal	Int Exh	1992-04 1992-04 1992-04	122-1043 122-1031 122-1332	O-Ring Type,Nitrile Material,O-Ring Style Positive Type,Poly Material,2-Ring Style,Aftermarket Version. Positive Type,Viton Material,Metal Clad Style,OEM Style
Guide	Int Exh	1992-04 1992-04	140-9715 140-9716	0.3430 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide 0.3730 I.D.,2.188 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1992-04	160-1233	2.035 Length,W/ Damper
Rotator	Exh	1992-04	161-1012	
Lifter	Both	1992-04	VL114	Hydraulic Roller Type
Rocker Components	Both	1992-04	180-1292	Rocker Arm
Push Rod	Both	1992-04	190-1500	8.828 Length,Install Bronze Colored End Toward Rocker Arm
Head Bolt Set		1992-04	220-1010	Torque To Yield,2 Required
Head Saver Shim		1992-04	230-2104	New Hgt.- 3.853 - 3.863; Min. Hgt. 3.853, 2 Required

395 C.I., (6.5L), OHV, DIESEL, FI, 16 Valve, Vin P, Y
1994-99 V8 395 CID**GMT395D 114**
BORE - 103mm/4.06"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1994-99 1994-99	SB1937-23 SB1562-36N	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ³ / ₁₆ Depth 1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ³ / ₁₆ Depth
Valve	Int Exh	1994-99 1994-99	01484 01780S	1.811 Head Diameter 1.535 Head Diameter,Stellite Face
Keeper	Both	1994-99	121-1003	1 SQ Bead Type
Stem Seal	Int Exh	1994-99 1994-99 1994-99	122-1043 122-1031 122-1332	O-Ring Type,Nitrile Material,O-Ring Style Positive Type,Poly Material,2-Ring Style,Aftermarket Version. Positive Type,Viton Material,Metal Clad Style,OEM Style
Guide	Int Exh	1994-99 1994-99	140-9715 140-9716	0.3430 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide 0.3730 I.D.,2.188 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1994-99	160-1233	2.035 Length,W/ Damper

GM TRUCK / PASSENGER TRUCK (Cont'd)

114 395 C.I., (6.5L), OHV, DIESEL, FI, 16 Valve, Vin P, Y
(cont.) 1994-99 V8 395 CID

GMT395D
BORE - 103mm/4.06"

PART	YEARS	PART NO.	NOTES
Rotator	Exh	1994-99 161-1012	
Lifter	Both	1994-99 VL114	Hydraulic Roller Type
Rocker Components	Both	1994-99 180-1292	Rocker Arm
Push Rod	Both	1994-99 190-1500	8.828 Length,Install Bronze Colored End Toward Rocker Arm
Head Bolt Set		1994-99 220-1010	Torque To Yield,2 Required
Head Saver Shim		1994-99 230-2104	New Hgt.- 3.853 - 3.863; Min. Hgt. 3.853, 2 Required

115 396 C.I., (6.5L), OHV, GAS, CARB, Vin E, Y
1968-70 V8 396 CID

GMT396
BORE - 104.3mm/4.10"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-70 SB2250-1	2 $\frac{1}{4}$ O.D., 1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth
	Exh	1968-70 SB1812-4	1 $\frac{13}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1968-70 01107	2.065 Head Diameter, +15 O/S Stem Available
	Exh	1968-70 01106	1.720 Head Diameter, +15 O/S Stem Available
Keeper	Both	1968-70 121-1007	1 SQ Bead Type
Stem Seal	Both	1968-70 122-1031	Positive Type, Poly Material, 2-Ring Style
		1968-70 122-1045	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	1968-70 140-9973	0.3735 I.D., 2.420 Length, 0.6255 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
	Exh	1968-70 140-9972	0.3740 I.D., 2.630 Length, 0.6203 O.D., Spiral I.D. Conversion Guide, +3 O/S, -5 U/S I.D. Available (140-9972U)
Spring	Both	1968-70 160-1003	2.120 Length, Dual Spring
		1968-70 160-1139	2.215 Length, W/ Damper, Single Spring
Lifter	Both	1968-70 VL37	Hydraulic Type
Rocker Components	Both	1968-70 180-1229	Rocker Arm
		1968-70 181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) $\frac{7}{16}$ Nut, High Perf.
		1968-70 181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) $\frac{7}{16}$ Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1968-70 183-1026	Grooved Ball, $\frac{7}{16}$ Nut, $\frac{7}{16}$
Push Rod	Int	1968-70 192-1337	8.280 Length, First Design, 0.375 Rod Dia.
		1968-70 192-1339	8.230 Length, 0.312 Rod Dia.
		1970-70 192-1504	8.280 Length, 2nd Design, 0.312 Rod Dia.
	Exh	1968-70 192-1336	9.252 Length, First Design, 0.375 Rod Dia.
		1968-70 192-1338	9.200 Length, 0.312 Rod Dia.
		1970-70 192-1503	9.252 Length, 2nd Design, 0.312 Rod Dia.
Head Bolt Set		1968-70 220-1107	Torque To Yield, Services Engine
Head Saver Shim		1968-70 230-2029	New Hgt. - Min. Hgt. N/A

116 400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin M, R, U, X
1975-80 V8 400 CID

GMT400
BORE - 104.8mm/4.13"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-80 SB1812-3	1 $\frac{13}{16}$ O.D., 1 $\frac{1}{2}$ T I.D., $\frac{7}{32}$ Depth, W/ 1.720 Valve Head Dia.
		1975-80 SB2125-1	2 $\frac{1}{8}$ O.D., 1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth, W/ 1.940 Valve Head Dia.
	Exh	1975-80 SB1562-1	1 $\frac{1}{16}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

400 C.I., (6.6L), OHV, GAS, CARB, 16 Valve, Vin M, R, U, X
1975-80 V8 400 CID

GMT400 116
BORE - 104.8mm/4.13" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Int	1975-80	00696	1.940 Head Diameter
		1975-80	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
	Exh	1975-80	01206S	1.500 Head Diameter,Stellite Face,W/ .342 Stem Diameter, +15 O/S Stem Available
		1975-80	01294S	1.500 Head Diameter,Stellite Face,W/ .3718T Stem Dia., +15 O/S Stem Available
		1975-80	01646S	1.500 Head Diameter,Inconel, Stellite Face,W/ .3719 Stem Dia., Optional
Keeper	Both	1975-80	121-1003	1 SQ Bead Type
Stem Seal	Exh	1975-80	122-1234	Umbrella Type,Nylon Material,Umbrella Style
	Both	1975-80	122-1037	Umbrella Type,Poly Material,Umbrella Style,W/ .342 Stem Dia.
		1975-80	122-1043	O-Ring Type,Nitrile Material,O-Ring Style,W/ .342 Stem Dia.
		1975-80	122-1047	Positive Type,Poly Material,2-Ring Style,W/ .342 Stem Dia.
		1975-80	122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		1975-80	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	1975-80	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
		1975-80	140-5607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Plain I.D. Conversion Guide, + 2 O/S Available (140-5607+2)
	Exh	1975-80	140-6107	0.3740 I.D.,2.250 Length,0.5020 O.D.,Use W/ .371 Valve Stem Dia., Plain I.D. Conversion Guide
		1975-80	140-9107	0.3740 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,W/ .371 Valve Stem Dia.
Spring	Int	1975-80	160-1144	2.048 Length,W/ Damper
		1975-80	160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		1975-80	160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
		1975-80	160-1009	1.910 Length,W/ Damper
	Exh	1975-80	160-1009	1.910 Length,W/ Damper
Lifter	Both	1975-80	VL37	Hydraulic Type
Rocker Components	Both	1975-80	180-1228	Rocker Arm
		1975-80	180-1239	Rocker Arm, Stamped, Long Slot
		1975-80	180-1283	Rocker Arm, Rail Type,Optional
		1975-80	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		1975-80	181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut,High Perf., W/ 1.5:1 Ratio
		1975-80	181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut,Optional
		1975-80	183-1017	Smooth Ball, ³ / ₈
		1975-80	183-1026	Grooved Ball, ⁷ / ₁₆ , ⁷ / ₁₆
		1975-80	183-1032	Grooved Ball, ³ / ₈ , ³ / ₈
1975-80	184-1038	Nut, ³ / ₈		
Push Rod	Both	1975-80	192-1331	7.798 Length

401 C.I., (6.6L), GAS, CARB
1960-65 V6 401 CID

GMT401 117
BORE - 123.8mm/4.875"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1960-65	SB2250-2	2 ¹ / ₄ O.D.,1 ⁷ / ₈ I.D., ⁹ / ₃₂ Depth
Keeper	Exh	1960-65	121-1003	1 SQ Bead Type
Guide	Int	1960-65	140-6115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1960-65	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide

GM TRUCK / PASSENGER TRUCK (Cont'd)

117 401 C.I., (6.6L), GAS, CARB

GMT401

(cont.) 1960-65

V6 401 CID

BORE - 123.8mm/4.875"

PART	YEARS	PART NO.	NOTES	
Guide	Exh	1960-65	140-6116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		1960-65	140-9116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

118 401 C.I., (6.6L), GAS, CARB, M

GMT401M

1966-73

V6 401 CID

BORE - 123.8mm/4.875"

PART	YEARS	PART NO.	NOTES	
Keeper	Exh	1966-73	121-1003	1 SQ Bead Type
Stem Seal	Both	1966-73	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	1966-73	140-6115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1966-73	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	1966-73	140-6116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Plain I.D. Conversion Guide
		1966-73	140-9116	0.4375 I.D.,3.125 Length,0.6270 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1966-73	160-1128	2.270 Length

119 402 C.I., (6.6L), OHV, GAS, CARB, Vin E, K, S, U

GMT402

1971-72

V8 402 CID

BORE - 104.8mm/4.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1971-72	SB2250-1	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	1971-72	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1971-72	01107	2.065 Head Diameter,+15 O/S Stem Available
	Exh	1971-72	01106	1.720 Head Diameter,+15 O/S Stem Available
Keeper	Both	1971-72	121-1007	1 SQ Bead Type
Stem Seal	Both	1971-72	122-1031	Positive Type,Poly Material,2-Ring Style
		1971-72	122-1045	Umbrella Type,Poly Material,Umbrella Style
Guide	Int	1971-72	140-9973	0.3735 I.D.,2.420 Length,0.6255 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
	Exh	1971-72	140-9972	0.3740 I.D.,2.630 Length,0.6203 O.D.,Spiral I.D. Conversion Guide,+3 O/S, -5 U/S I.D. Available (140-9972U)
Lifter	Both	1971-72	VL37	Hydraulic Type
Rocker Components	Both	1971-72	180-1229	Rocker Arm
		1971-72	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut,High Perf.
		1971-72	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ⁷ / ₁₆ Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1971-72	183-1026	Grooved Ball, ⁷ / ₁₆
Push Rod	Int	1971-72	192-1337	8.280 Length,First Design, 0.375 Rod Dia.
		1971-72	192-1339	8.230 Length,0.312 Rod Dia.
Head Bolt Set	Exh	1971-72	192-1504	8.280 Length,2nd Design, 0.312 Rod Dia.
		1971-72	192-1336	9.252 Length,First Design, 0.375 Rod Dia.
		1971-72	192-1338	9.200 Length,0.312 Rod Dia.
		1971-72	192-1503	9.252 Length,2nd Design, 0.312 Rod Dia.
Head Bolt Set		1971-72	220-1107	Torque To Yield,Services Engine

(Cont'd) GM TRUCK / PASSENGER TRUCK**402 C.I., (6.6L), OHV, GAS, CARB, Vin E, K, S, U**
1971-72 V8 402 CID**GMT402 119**
BORE - 104.8mm/4.13" (cont.)

PART	YEARS	PART NO.	NOTES
Head Saver Shim	1971-72	230-2029	New Hgt. - Min. Hgt. N/A

403 C.I., (6.6L), OHV, DIESEL, FI, 32 Valve, Vin 1, 2, 3, 6, 8, 9, D, L, Y
"DURAMAX"
2001-17 V8 403 CID**GMT6.6TD 120**
BORE - 103mm/4.06"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2001-16	SB1343E-1 1.343 O.D.,1.069 I.D.,0.2370 Depth,+0.005 Oversize Available,OEM # 97212571
	Exh	2001-16		SB1264E-1 1.264 O.D.,0.977 I.D.,0.2370 Depth,+0.005 Oversize Available,OEM # 97212572
Valve	Int	2001-16	02175 1.299 Head Diameter,OEM # 97225507, 97366945
		2001-16		02175R 1.299 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
	Exh	2001-16	02176 1.220 Head Diameter,OEM # 97225508, 97366946
		2001-16		02176R 1.220 Head Diameter,NOTE: Optional Performance Valve, See Performance Catalog For Details
Keeper	Both	2001-16	121-1048 1 RD Bead Type
Stem Seal	Both	2001-05	122-1346 Positive Type,Viton Material,Metal Clad Style,First Design, Use W/ 140-3049
		2006-16	122-1438 Positive Type,Viton Material,Metal Clad Style,2nd Design , Use W/ 140-3142
Guide	Both	2001-05	140-3049 0.2755 I.D.,1.967 Length,0.4547 O.D.,First Design, W/Seal Groove
		2006-16	140-3142 0.2755 I.D.,1.967 Length,0.4547 O.D.,2nd Design, W/ O Seal Groove
Spring	Both	2001-16	160-1457 2.216 Length,OEM # 98025825, 2nd Design, Must Use OEM Retainer # 12636393
Lifter	Both	2001-16	VL573 Mechanical Roller Type,OEM # 97325546
Head Bolt Set		2001-16	220-1099 Torque To Yield,OEM # 97310851; 2 Required Per Engine; NOTE: Does Not Include OEM # 97209620, 97355741 Small Outer 8mm X 90mm Allen Head Bolts
Head Saver Shim		2001-16	230-2145 New Hgt. - 3.8180 - 3.8190; Min. Hgt. - 3.8130, 2 Required
Injector Tubes and Components		2001-06	240-1019 Injector Tube,OEM # 97188463; NOTE: For VIN 1, 2 & 3 Only ; Castings After 2006 Do Not Have Replaceable Injector Sleeves.
		2001-06		240-1019R O-Ring, Orange,OEM # 94051259, NOTE: 2 Required

427 C.I., (7.0L), GAS, CARB, MEDIUM DUTY
1968-97 V8 427 CID**GMT427MD 121**
BORE - 107.95mm/4.20"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1968-97	SB2062-3 2 ¹ / ₁₆ O.D.,1 ¹³ / ₁₆ I.D., ¹ / ₄ Depth,W/ 1.940 Valve Head Dia.
		1974-85		SB1937-17 1^{15}/_{16} O.D.,1^{11}/_{16} I.D.,^{7}/_{32} Depth,W/ 1.840 Valve Head Dia.
	Exh	1968-97	SB1750-2 1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.660 Valve Head Dia.
Valve	Int	1968-97	01087 1.940 Head Diameter,2nd Design, +15 O/S Available
		1974-85		00997 1.840 Head Diameter,1st Design
	Exh	1968-78	00996S 1.660 Head Diameter,Stellite Face,Opt., +15 O/S Stem Available
		1974-97	01241SN 1.660 Head Diameter,Stellite Face, Sodium Filled
		1991-97	01235S 1.660 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		1991-97	21235S 1.660 Head Diameter,Alternative Austenitic Material, Stellite Face, Nitrided, W/ 20 Degree Seat Angle, Optional LPG

GM TRUCK / PASSENGER TRUCK (Cont'd)

121 427 C.I., (7.0L), GAS, CARB, MEDIUM DUTY
(cont.) 1968-97 V8 427 CID

GMT427MD
BORE - 107.95mm/4.20"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1968-97 121-1007	1 SQ Bead Type
Stem Seal	Both	1968-90 1968-97 122-1045 122-1330	Umbrella Type, Poly Material, Umbrella Style Positive Type, Viton Material, Spring & Band Style, Universal Seal.
Guide	Int	1968-97 140-9973	0.3735 I.D., 2.420 Length, 0.6255 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
	Exh	1968-97 140-9972	0.3740 I.D., 2.630 Length, 0.6203 O.D., Spiral I.D. Conversion Guide, +3 O/S, -5 U/S I.D. Available (140-9972U)
Spring	Both	1968-85 1986-97 160-1141 160-1089	2.050 Length, W/ Damper, 1st Design 2.050 Length, W/ Shroud
Rotator	Exh	1968-97 161-1013	
Lifter	Both	1968-90 1991-97 1991-97 VL37 VL117RH VL73	Hydraulic Type Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train. Hydraulic Type
Rocker Components	Both	1968-90 1968-90 1968-90 1968-90 1968-90 1991-97 180-1229 181-1014 181-1048 183-1026 184-1040 180-1318	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf. Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More Grooved Ball, 7/16 Nut, 7/16 Rocker Arm
Push Rod	Int	1968-76 1977-97 192-1377 190-1433	8.680 Length, 0.375 Dia. 8.686 Length, Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available, 0.312 Dia.
	Exh	1968-76 1977-97 192-1378 192-1442	9.643 Length, 0.375 Dia. 9.650 Length, 0.312 Dia.
Head Saver Shim		1968-95 230-2029	New Hgt. - Min. Hgt. N/A

122 427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve "Heavy Duty"
1974-81 V8 427 CID

GMT427HD
BORE - 107.95mm/4.20"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1974-81 1974-81 SB1937-17 SB1750-2	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 7/32 Depth, W/ 1.840 Valve Head Dia. 1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.660 Valve Head Dia.
Valve	Int Exh	1974-81 1974-81 00997 01241SN	1.840 Head Diameter 1.660 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	1974-81 121-1007	1 SQ Bead Type
Stem Seal	Both	1974-81 122-1045	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	1974-81 140-9973	0.3735 I.D., 2.420 Length, 0.6255 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
	Exh	1974-81 140-9972	0.3740 I.D., 2.630 Length, 0.6203 O.D., Spiral I.D. Conversion Guide, +3 O/S, -5 U/S I.D. Available (140-9972U)
Spring	Both	1974-81 160-1141	2.050 Length, W/ Damper
Rotator	Exh	1977-81 161-1013	
Lifter	Both	1974-81 VL37	Hydraulic Type

(Cont'd) GM TRUCK / PASSENGER TRUCK**427 C.I., (7.0L), OHV, GAS, CARB, 16 Valve "Heavy Duty"**
1974-81 V8 427 CID**GMT427HD 122**
BORE - 107.95mm/4.20" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1974-81	180-1229	Rocker Arm
		1974-81	181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf.
	1974-81	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More	
	1974-81	183-1026	Grooved Ball, 7/16	
	1974-81	184-1040	Nut, 7/16	
Push Rod	Int	1974-76	192-1377	8.680 Length, 0.375 Dia.
		1977-81	190-1433	8.686 Length, Note: (Hardened); +35 O/S (190-1433+35) & +60 O/S (190-1433+60) Available, 0.312 Dia.
	Exh	1974-76	192-1378	9.643 Length, 0.375 Dia.
		1977-81	192-1442	9.650 Length, 0.312 Dia.

432 C.I., (7.1L), GAS, CARB

1973-74 V6 432 CID

GMT432M 123
BORE - 123.8mm/4.875"

PART	YEARS	PART NO.	NOTES	
Keeper	Exh	1973-74	121-1003	1 SQ Bead Type
Stem Seal	Both	1973-74	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Int	1973-74	140-6115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1973-74	140-9115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1973-74	140-6116	0.4375 I.D., 3.125 Length, 0.6270 O.D., Plain I.D. Conversion Guide
		1973-74	140-9116	0.4375 I.D., 3.125 Length, 0.6270 O.D., Spiral I.D. Conversion Guide
Spring	Both	1973-74	160-1128	2.270 Length

454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin E, L, S, V, W, Y, Z

1971-90 V8 454 CID

GMT454LD-CA 124
BORE - 108mm/4.25"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1971-90	SB2125-38	2 1/8 O.D., 1 13/16 I.D., 3/16 Depth, W/ 2.065 Valve Head Dia.
		1971-90	SB1784E-1N	1.784 O.D., 1.417T I.D., 0.2920 Depth, W/ Factory Installed Exh Seat, Due To Seat Pocket Variance - Seat May Need To Be Topped.
	Exh	1971-90	SB1812-4N	1 13/16 O.D., 1 9/16 I.D., 7/32 Depth, Optional O/S Replacement For Late Cylinder Head W/ Factory Installed Exhaust Seat
		1971-90	SB1812-9N	1 13/16 O.D., 1 1/2 I.D., 5/16 Depth, Optional O/S Replacement For Late Cylinder Head W/ Factory Installed Exhaust Seat
Valve	Int	1971-90	01107	2.065 Head Diameter, +15 O/S Stem Available
	Exh	1971-90	01261S	1.720 Head Diameter, Stellite Face, +15 O/S Stem Available
		1985-90	01578S	1.720 Head Diameter, Inconel, Stellite Face, LPG
Keeper	Both	1971-90	121-1007	1 SQ Bead Type
Stem Seal	Both	1971-90	122-1031	Positive Type, Poly Material, 2-Ring Style
		1971-90	122-1045	Umbrella Type, Poly Material, Umbrella Style
Guide	Int	1971-90	140-9973	0.3735 I.D., 2.420 Length, 0.6255 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation
	Exh	1971-84	140-9972H	0.3740 I.D., 2.630 Length, 0.6203 O.D., Hardened
		1985-90	140-8113	0.3740 I.D., 2.435 Length, 0.6205 O.D., Caution - Drive Guide Out From Spring Side To Combustion Side Opposite From Old Style, Must Pressure Test for Water Leak After Installation

GM TRUCK / PASSENGER TRUCK (Cont'd)

124 454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin E, L, S, V, W, Y, Z
(cont.) 1971-90 V8 454 CID

GMT454LD-CA
BORE - 108mm/4.25"

PART		YEARS	PART NO.	NOTES
Guide	Exh	1985-90	140-8256	0.3740 I.D.,2.755 Length,0.6205 O.D.,Same As 140-8113 But Not Cut For Seal, Must Pressure Test for Water Leak After Installation
Spring	Both	1971-74 1975-85 1986-90	160-1011 160-1141 160-1089	2.078 Length,W/ Damper,Single Spring 2.050 Length,W/ Damper 2.050 Length,W/ Shroud
Rotator	Exh	1971-90	161-1013	
Lifter	Both	1971-90	VL37	Hydraulic Type
Rocker Components	Both	1971-90 1971-90 1971-90 1971-90 1971-90	180-1229 181-1014 181-1048 183-1026 184-1040	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf. Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More Grooved Ball, 7/16 Nut, 7/16
Push Rod	Int Exh	1971-74 1971-74 1975-90 1971-74 1971-74 1975-90	192-1337 192-1504 192-1339 192-1336 192-1503 192-1338	8.280 Length,First Design, 0.375 Rod Dia. 8.280 Length,2nd Design, 0.312 Rod Dia. 8.230 Length,0.312 Rod Dia. 9.252 Length,First Design, 0.375 Rod Dia. 9.252 Length,2nd Design, 0.312 Rod Dia. 9.200 Length,0.312 Rod Dia.
Head Bolt Set		1971-90	220-1107	Torque To Yield,Services Engine
Head Saver Shim		1971-90	230-2029	New Hgt. - Min. Hgt. N/A

125 454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin S, W
1979-81 V8 454 CID

GMT454MD
BORE - 108mm/4.25"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1979-81 1979-81	SB2000-1 SB1812-5N	2.000 O.D.,1 1/4 I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material 1 13/16 O.D.,1 1/2 I.D.,1/4 Depth
Valve	Int Exh	1979-81 1979-81	00997 01241SN	1.840 Head Diameter 1.660 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	1979-81	121-1007	1 SQ Bead Type
Stem Seal	Both	1979-81 1979-81	122-1031 122-1045	Positive Type,Poly Material,2-Ring Style Umbrella Type,Poly Material,Umbrella Style
Guide	Int Exh	1979-81 1979-81 1979-81	140-9973 140-9972 140-9972H	0.3735 I.D.,2.420 Length,0.6255 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation 0.3740 I.D.,2.630 Length,0.6203 O.D.,Spiral I.D. Conversion Guide,+3 O/S, -5 U/S I.D. Available (140-9972U) 0.3740 I.D.,2.630 Length,0.6203 O.D.,Hardened
Spring	Both	1979-81	160-1141	2.050 Length,W/ Damper
Rotator	Both	1979-81	161-1013	
Lifter	Both	1979-81	VL37	Hydraulic Type
Rocker Components	Both	1979-81 1979-81 1979-81	180-1229 181-1014 181-1048	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf. Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

454 C.I., (7.4L), OHV, GAS, CARB, 16 Valve, Vin S, W
1979-81 V8 454 CID

GMT454MD **125**
BORE - 108mm/4.25" (cont.)

PART	YEARS	PART NO.	NOTES	
Rocker Components	Both	1979-81	183-1026	Grooved Ball, $\frac{7}{16}$ Nut, $\frac{7}{16}$
		1979-81	184-1040	
Push Rod	Int	1979-81	192-1339	8.230 Length,0.312 Dia.
	Exh	1979-81	192-1338	9.200 Length,0.312 Dia.
Head Bolt Set		1979-81	220-1107	Torque To Yield,Services Engine
Head Saver Shim		1979-81	230-2029	

454 C.I., (7.4L), OHV, GAS, FI, 16 Valve, Vin B, J, N
1987-00 V8 454 CID

GMT454LD-FI **126**
BORE - 108mm/4.25"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-00	SB2125-38	2 $\frac{1}{8}$ O.D., 1 $\frac{13}{16}$ I.D., $\frac{3}{16}$ Depth 1.784 O.D., 1.417T I.D., 0.2920 Depth, W/ Factory Installed Exh Seat, Due To Seat Pocket Variances, Seat May Need To Be Topped. 1 $\frac{13}{16}$ O.D., 1 $\frac{9}{16}$ I.D., $\frac{7}{32}$ Depth, W/ 1.720 Valve Head Dia. 1 $\frac{13}{16}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{5}{16}$ Depth, Optional O/S Replacement For Late Cylinder Head W/ Factory Installed Exhaust Seat; Use 01235S W/ 1.660 Head Dia.
	Exh	1987-00	SB1784E-1N	
		1987-00	SB1812-4N	
		1987-00	SB1812-9N	
Valve	Int	1987-00	01107	2.065 Head Diameter, +15 O/S Stem Available 1.660 Head Diameter, Recommended OEM Nickel Base Inconel Material, Stellite Face, Optional, LPG 1.720 Head Diameter, Stellite Face, +15 O/S Stem Available 1.720 Head Diameter, Inconel, Stellite Face, LPG 1.660 Head Diameter, Alternative Austenitic Material, Stellite Face, Nitrided, W/ 20 Degree Seat Angle, Optional LPG
	Exh	1987-00	01235S	
		1987-00	01261S	
		1987-00	01578S	
		1987-00	21235S	
Keeper	Both	1987-00	121-1007	1 SQ Bead Type
Stem Seal	Both	1987-00	122-1031	Positive Type, Poly Material, 2-Ring Style Umbrella Type, Poly Material, Umbrella Style Positive Type, Viton Material, Spring & Band Style, Universal Seal. Umbrella Type, Nylon/Viton Material, Viton Insert Style
		1987-00	122-1045	
		1987-00	122-1330	
		1996-00	122-1287	
Guide	Int	1987-00	140-9973	0.3735 I.D., 2.420 Length, 0.6255 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9973U), Must Pressure Test for Water Leak After Installation 0.3740 I.D., 2.435 Length, 0.6205 O.D., Caution - Drive Guide Out From Spring Side To Combustion Side Opposite From Old Style, Must Pressure Test for Water Leak After Installation 0.3740 I.D., 2.755 Length, 0.6205 O.D., Same As 140-8113 But Not Cut For Seal, Must Pressure Test for Water Leak After Installation
	Exh	1987-00	140-8113	
		1987-00	140-8256	
Spring	Both	1987-95	160-1089	2.050 Length, W/ Shroud 2.050 Length, Conical
		1996-00	160-1410	
Rotator	Exh	1987-95	161-1013	For Conical Spring
	Both	1996-00	161-1053	
Lifter	Both	1987-90	VL37	Hydraulic Type Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train. Hydraulic Type Hydraulic Roller Type, VIN "J"
		1991-96	VL117RH	
		1991-96	VL73	
		1997-00	VL163	
Rocker Components	Both	1987-90	180-1229	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) $\frac{7}{16}$ Nut, High Perf.
		1987-90	181-1014	

GM TRUCK / PASSENGER TRUCK (Cont'd)

126 454 C.I., (7.4L), OHV, GAS, FI, 16 Valve, Vin B, J, N
(cont.) 1987-00 V8 454 CID

GMT454LD-FI
BORE - 108mm/4.25"

PART		YEARS	PART NO.	NOTES
Rocker Components	Both	1987-90	181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		1987-90	183-1026	Grooved Ball, 7/16
		1987-90	184-1040	Nut, 7/16
		1991-00	180-1318	Rocker Arm
		1991-00	181-1064	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) Stud Bit
		1991-00	183-1034	Smooth Ball, 9/16
		1991-00	184-1045	Stud Bolt
Push Rod	Int	1987-90	192-1339	8.230 Length, 0.312 Dia.
		1991-95	192-1505	8.177 Length, OEM # 10106423
		1996-97	192-1507	7.642 Length, J Eng. W/ Roller Lifters
		1998-00	192-1511	7.640 Length, 0.374 Dia., Mark VI
	Exh	1987-90	192-1338	9.200 Length, 0.312 Dia.
		1991-95	192-1506	9.162 Length, OEM # 10106425
		1996-97	192-1508	8.595 Length, J Eng. W/ Roller Lifters
		1998-00	192-1512	8.591 Length, 0.374 Dia., Mark VI
Head Bolt Set		1987-00	220-1107	Torque To Yield, Services Engine
Head Saver Shim		1987-95	230-2029	New Hgt. - Min. Hgt. N/A

127 475 C.I., (7.8L), DIESEL, FI, Vin 3, B, 6HK1-TC "DURAMAX"
1999-09 L6 475 CID

GMT-6HK1-TC
BORE - 115mm/4.529"

PART		YEARS	PART NO.	NOTES
Valve	Int	1999-09	13121	1.457 Head Diameter
	Exh	1999-09	13122	1.456 Head Diameter
Stem Seal	Both	1999-09	122-1137	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1999-09	140-3101	0.3150 I.D., 2.245 Length, 0.5526 O.D.
Spring	Int	1999-09	160-1549	2.618 Length
	Exh	1999-09	160-1550	2.691 Length
Head Saver Shim			230-2197	New Hgt. - 4.6850" - Min. hgt. - N/A

128 478 C.I., (7.8L), DIESEL, FI
1961-74 V6 478 CID

GMT478DH
BORE - 130.1mm/5.125"

PART		YEARS	PART NO.	NOTES
Guide	Int	1961-74	140-6115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1961-74	140-7669	0.3735 I.D., 3.969 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Optional

129 478 C.I., (7.8L), GAS, CARB
1962-65 V6 478 CID

GMT478
BORE - 133.3mm/5.25"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1962-65	SB2250-2	2 1/4 O.D., 1 7/8 I.D., 9/32 Depth
Keeper	Exh	1962-65	121-1003	1 SQ Bead Type
Guide	Int	1962-65	140-6115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		1962-65	140-7669	0.3735 I.D., 3.969 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Optional
		1962-65	140-9115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	1962-65	140-9197	0.4375 I.D., 3.000 Length, 0.6270 O.D., Spiral I.D. Conversion Guide

(Cont'd) **GM TRUCK / PASSENGER TRUCK**

478 C.I., (7.8L), GAS, CARB **GMT478M 130**
1973-75 **V6 478 CID** **BORE - 133.3mm/5.25"**

PART	YEARS	PART NO.	NOTES
Keeper	Exh 1973-75	121-1003	1 SQ Bead Type
Guide	Int 1973-75	140-6115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Plain I.D. Conversion Guide
	1973-75	140-7669	0.3735 I.D.,3.969 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Optional
	1973-75	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh 1973-75	140-9197	0.4375 I.D.,3.000 Length,0.6270 O.D.,Spiral I.D. Conversion Guide

496 C.I., (8.1L), OHV, GAS, FI, 16 Valve, Vin G "VORTEC" **GMT8.1 131**
2001-07 **V8 496 CID** **BORE - 108mm/4.25"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2001-07	SB2250-1	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ⁹ / ₁₆ Depth,Non-Tapered I.D., Must Machine I.D. To Fit
	Exh 2001-07	SB1784E-1N	1.784 O.D.,1.417T I.D.,0.2920 Depth,W/ Factory Installed Exh Seat, Due To Seat Pocket Variances, Seat May Need To Be Topped.
Valve	Int 2001-07	01164	2.190 Head Diameter,Stainless Steel Alternate for Gasoline
	2001-07	02101	2.187 Head Diameter,Gasoline
	Exh 2001-07	02126S	1.720 Head Diameter,Inconel, Stellite Face,Gasoline, Natural Gas & LPG
Keeper	Both 2001-07	121-1007	1 SQ Bead Type
Stem Seal	Both 2001-07	122-1345	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2001-07	140-3025	0.3735 I.D.,2.250 Length,0.6265 O.D.,Replaces Factory Integral Guide.
	Exh 2001-07	140-3024	0.3735 I.D.,2.620 Length,0.6203 O.D.,Guide MUST be removed from Spring Side toward Combustion Chamber of Cylinder Head
Spring	Both 2001-07	160-1431	2.212 Length,Conical,Natural Gas & LPG
	2001-07	160-1446	2.190 Length,Conical,Gasoline
Rotator	Exh 2001-07	161-1053	
Lifter	Both 2001-07	VL163	Hydraulic Roller Type
Rocker Components	Both 2001-07	180-1328	Rocker Arm, Stamped
	2001-07	183-1035	Smooth Ball, ⁷ / ₁₆
	2001-07	184-1033	Nut, 8mm
Push Rod	Int 2001-07	192-1510	8.190 Length
	Exh 2001-07	192-1509	9.132 Length
Head Bolt Set	2001-07	220-1084	Torque To Yield,2 Required
Head Saver Shim	2001-07	230-2164	2 Required, New Hgt. 3.377"

637 C.I., (10.4L), OHV, GAS, CARB, 16 Valve **GMT637 132**
1966-72 **V8 637 CID** **BORE - 130.1mm/5.125"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1966-72	SB2250-2	2¼ O.D.,1 ⁷ / ₈ I.D., ⁹ / ₃₂ Depth

702 C.I., (11.6L), GAS, CARB, 12 Valve **GMT702 133**
1960-65 **V12 702 CID** **BORE - 115.89mm/4.50"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1960-65	SB2250-2	2¼ O.D.,1 ⁷ / ₈ I.D., ⁹ / ₃₂ Depth
Keeper	Exh 1960-65	121-1003	1 SQ Bead Type

GM TRUCK / PASSENGER TRUCK (Cont'd)

133 702 C.I., (11.6L), GAS, CARB, 12 Valve
(cont.) 1960-65 V12 702 CID

GMT702
BORE - 115.89mm/4.50"

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1960-65 122-1043	O-Ring Type,Nitrile Material,O-Ring Style

HARLEY DAVIDSON / MOTORCYCLE

Engine	Models	Line No.
2 Cylinder		
Knucklehead (1936-47)		1
Shovelhead (1966-84)		2
883cc, (0.9L), Evolution (1986-94)		3
900cc, (0.9L) (1957-85)		4
Panhead (1948-65)		5
1000cc ,(1.0L), Iron Head (1957-85)		6
1100cc ,(1.1L) (1986-94)		7
1200cc ,(1.2L), Evolution (1987-94)		8
1340cc ,(1.3L), Evolution Big Twin (1984-02)		9

1 Knucklehead 1936-47 V2 53.9 CID **Knucklehead BORE - mm/"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Both	1936-47 SB1875-2	1 $\frac{7}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth,Optional, Use W/ 1 $\frac{7}{8}$ Cutter

2 Shovelhead 1966-84 V2 53.9 CID **SHOVELHEAD BORE - mm/"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1966-84 SB2165E-1	55mm O.D.,44mm I.D.,11mm Depth,Also Available In Non-Magnetic (N) Material,Optional O/S Repair Seat
	Exh	1966-84 SB1969E-2	
Stem Seal	Both	1966-84 122-1400	Positive Type,Teflon Material,Metal Clad Style,OEM # 18000-81

3 883cc, (0.9L), Evolution 1986-94 V2 53.9 CID **883 BORE - mm/"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-94 SB1850E-2	47mm O.D.,36.5mm I.D.,10mm Depth,Also Available In Non-Magnetic (N) Material,Std. For 1986; Optional O/S Repair Seat for 1987-94
	Exh	1986-94 SB1625-8	

4 900cc, (0.9L) 1957-85 V2 54.9 CID **900 BORE - mm/"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1957-85 SB2000-2	2.000 O.D.,1 $\frac{11}{16}$ I.D., $\frac{9}{32}$ Depth
	Exh	1957-85 SB1750-4	

5 Panhead 1948-65 V2 61 CID **PANHEAD BORE - mm/"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Both	1948-65 SB1969E-2	50mm O.D.,39mm I.D.,10.5mm Depth,Also Available In Non-Magnetic (N) Material,Optional O/S Repair Seat

(Cont'd) **HARLEY DAVIDSON / MOTORCYCLE**

1000cc ,(1.0L), Iron Head 1000 **6**
1957-85 V2 61 CID BORE - mm/"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1957-85	2 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth
	Exh	1957-85	
		SB2062-8	
		SB1750-4	1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material, NOTE: For 30 Degree Valve, Must Cut Seat Angle to 30 Degree

1100cc ,(1.1L) 1100 **7**
1986-94 V2 67.1 CID BORE - mm/"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-86	50mm O.D., 39mm I.D., 10.5mm Depth, Also Available In Non-Magnetic (N) Material
		1987-94	
	Exh	1986-86	
		1987-94	
		SB1969E-2	
		SB1850E-2	47mm O.D., 36.5mm I.D., 10mm Depth, Also Available In Non-Magnetic (N) Material, Optional O/S Repair Seat
		SB1772E-2	45mm O.D., 34.5mm I.D., 10mm Depth, Also Available In Non-Magnetic (N) Material
		SB1625-8	1 ⁵ / ₈ O.D., 1 ³ / ₁₆ I.D., ³ / ₈ Depth, Optional O/S Repair Seat

1200cc ,(1.2L), Evolution 1200 **8**
1987-94 V2 73.2 CID BORE - mm/"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-94	47mm O.D., 36.5mm I.D., 10mm Depth, Also Available In Non-Magnetic (N) Material, Optional O/S Repair Seat
	Exh	1987-94	
		SB1850E-2	
		SB1625-8	1 ⁵ / ₈ O.D., 1 ³ / ₁₆ I.D., ³ / ₈ Depth, Optional O/S Repair Seat

1340cc ,(1.3L), Evolution Big Twin 1340 **9**
1984-02 V2 81.8 CID BORE - mm/"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-94	50mm O.D., 39mm I.D., 10.5mm Depth, Also Available In Non-Magnetic (N) Material, Optional O/S Repair Seat
	Exh	1984-94	
		SB1969E-2	
		SB1772E-2	45mm O.D., 34.5mm I.D., 10mm Depth, Also Available In Non-Magnetic (N) Material, Optional, O/S Repair Seats
Stem Seal	Both	1984-02	122-1399 Positive Type, Teflon Material, Metal Clad Style, OEM # 18001-83B

HERCULES / HEAVY DUTY

Engine Models Line No.

3 Cylinder		
130 C.I., (2.1L), Diesel Multi-Purpose		2
4 Cylinder		
113 C.I., (1.9L), Multi-Purpose		1
6 Cylinder		
191 C.I., (3.1L), Multi-Purpose		3
228 C.I., (3.7L)		4

113 C.I., (1.9L), Multi-Purpose IXA **1**
L4 113 CID BORE - 76.2mm/3.00"

PART	PART NO.	NOTES
Guide	Both 140-1568	0.3120 I.D., 2.094 Length, 0.4856 O.D., Check For Correct O.D.

130 C.I., (2.1L), Diesel Multi-Purpose DD130 **2**
L3 130 CID BORE - 88.9mm/3.50"

PART	PART NO.	NOTES
Guide	Both 140-7376	0.3750 I.D., 2.734 Length, 0.6268 O.D., Machined For Seal

HERCULES / HEAVY DUTY (Cont'd)

3 191 C.I., (3.1L), Multi-Purpose QX_Series
 L6 191 CID BORE - 79.4mm/3.125"

PART	PART NO.	NOTES
Guide	Both 140-1697	0.3120 I.D.,2.094 Length,0.5325 O.D.

4 228 C.I., (3.7L) JX_Series
 L6 228 CID BORE - 85.7mm/3.375"

PART	PART NO.	NOTES
Guide	Both 140-1618	0.3745 I.D.,2.375 Length,0.6573 O.D.

HINO / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
234 C.I., (3.8L), WO4C-TB,TC/TD/TE, 14 SERIES, 1984-92		1
6 Cylinder		
364 C.I., (6.0L), WO6E-B,C,16 SERIES, 1984-92		2
393 C.I., (6.4L), WO4C-TI, TH/TM, 15 SERIES, 1984-97		3
396 C.I., (6.5L), HO6C-TC, TD/TJ, 19 SERIES, 1984-91		4
396 C.I., (6.5L), HO6C-TN, 20 SERIES, 1984-97		5
396 C.I., (6.5L), HO6C-TH/TM, 23 SERIES, 1987-97		6
396 C.I., (6.5L), HO6C-TP/TT, 5H SERIES, 1993-97		7
396 C.I., (6.5L), HO6C-TN/TU, 4H SERIES, 200HP, 1984-97		8
396 C.I., (6.5L), HO6C-TM/TV, 1H SERIES, 225HP, 1993-97		9
411 C.I., (6.7L), HO7C-B, C/F/G, 17 SERIES, 1984-91		10
575 C.I., (9.4L), EM100-E/F, 22 SERIES, 1984-86		11

1 234 C.I., (3.8L), WO4C-TB,TC/TD/TE, 14 SERIES, 1984-92 WO4C-TB
 L4 234 CID BORE - 104mm/4.0945"BORE - 104mm/4.095"

PART	PART NO.	NOTES
Valve	Int 13095	1.791 Head Diameter,OEM # 137311521
	Exh 13096	1.575 Head Diameter,OEM # 137151570
Stem Seal	Both 122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both 160-1532	2.350 Length,Inner, OEM # 137321340, 1987-92
	160-1533	2.270 Length,Outer, OEM # 137311400, 1987-92

2 364 C.I., (6.0L), WO6E-B,C,16 SERIES, 1984-92 WO6E-B
 L6 364 CID BORE - 104mm/4.0945"

PART	PART NO.	NOTES
Valve	Int 13095	1.791 Head Diameter,OEM # 137311521
	Exh 13096	1.575 Head Diameter,OEM # 137151570
Stem Seal	Both 122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both 160-1532	2.350 Length,Inner, OEM # 137321340, 1986-87
	160-1533	2.270 Length,Outer, OEM # 137111400, 1986-87

3 393 C.I., (6.4L), WO4C-TI, TH/TM, 15 SERIES, 1984-97 WO4C-TI
 L6 393 CID BORE - 104mm/4.0945"

PART	PART NO.	NOTES
Valve	Int 13095	1.791 Head Diameter,OEM # 137311521, 1984-92
	Exh 13096	1.575 Head Diameter,OEM # 137151570, 1984-92

(Cont'd) HINO / HEAVY DUTY**393 C.I., (6.4L), WO4C-TI, TH/TM, 15 SERIES, 1984-97****WO4C-TI 3**

L6 393 CID

BORE - 104mm/4.0945" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1532	2.350 Length,Inner, OEM # 137321340, 1992-97
		160-1533	2.270 Length,Outer, OEM # 137311400, 1992-97

396 C.I., (6.5L), HO6C-TC, TD/TJ, 19 SERIES, 1984-91**HO6C-TC 4**

L6 396 CID

BORE - 108mm/4.2520"

PART		PART NO.	NOTES
Valve	Int	13091	1.884 Head Diameter,OEM # 137311471, 1984-86
		13097	1.884 Head Diameter,OEM # 137111550, 1987-91
	Exh	13092	1.624 Head Diameter,OEM # 137151520, 1984-86
		13098	1.624 Head Diameter,OEM # 137151591, 1987-91
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1531	2.504 Length,Outer, OEM # 137311360, 1984-86
		160-1536	2.649 Length,Inner, OEM # 137321380, 137321470; 1987-91
		160-1537	2.565 Length,Outer, OEM # 137311440, 137311580; 1987-91
		160-1563	2.431 Length,Inner, OEM # 137321300, 1984-86

396 C.I., (6.5L), HO6C-TN, 20 SERIES, 1984-97**HO6C-TN 5**

L6 396 CID

BORE - 108mm/4.2520"

PART		PART NO.	NOTES
Valve	Int	13097	1.884 Head Diameter,OEM # 137111550, 1984-92
	Exh	13098	1.624 Head Diameter,OEM # 137151591, 1993-97
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1536	2.649 Length,Inner, OEM # 137321470, 1984-92
		160-1537	2.565 Length,Outer, OEM # 137311580, 1984-92

396 C.I., (6.5L), HO6C-TH/TM, 23 SERIES, 1987-97**HO6C-TH 6**

L6 396 CID

BORE - 104mm/4.2520"

PART		PART NO.	NOTES
Valve	Int	13097	1.884 Head Diameter,OEM # 137111550, 1992-97
	Exh	13098	1.624 Head Diameter,OEM # 137151591, 1992-97
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1536	2.649 Length,Inner, OEM # 137321380, 137321470
		160-1537	2.565 Length,Outer, OEM # 137311440, 137311580

396 C.I., (6.5L), HO6C-TP/TT, 5H SERIES, 1993-97**HO6C-TP 7**

L6 396 CID

BORE - 104mm/4.2520"

PART		PART NO.	NOTES
Valve	Int	13097	1.884 Head Diameter,OEM # 137111550
	Exh	13098	1.624 Head Diameter,OEM # 137151591
Stem Seal	Both	122-1402	Positive Type,Viton Material,Metal Clad Style,OEM # 137191510, 137191350
Spring	Both	160-1536	2.649 Length,Inner, OEM # 137321470
		160-1537	2.565 Length,Outer, OEM # 137311580

HINO / HEAVY DUTY (Cont'd)

8 396 C.I., (6.5L), HO6C-TN/TU, 4H SERIES, 200HP, 1984-97 HO6C-TU
 L6 396 CID BORE - 104mm/4.2520"

PART		PART NO.	NOTES
Valve	Int	13097	1.884 Head Diameter, OEM # 137111550, 1993-97
	Exh	13098	1.624 Head Diameter, OEM # 137151591, 1984-92
Stem Seal	Both	122-1402	Positive Type, Viton Material, Metal Clad Style, OEM # 137191510, 137191350
Spring	Both	160-1536	2.649 Length, Inner, OEM # 137321470, 1993-97
		160-1537	2.565 Length, Outer, OEM # 137311580, 1993-97

9 396 C.I., (6.5L), HO6C-TM/TV, 1H SERIES, 225HP, 1993-97 HO6C-TM
 L6 396 CID BORE - 104mm/4.2520"

PART		PART NO.	NOTES
Valve	Int	13097	1.884 Head Diameter, OEM # 137111550
	Exh	13098	1.624 Head Diameter, OEM # 137151591
Stem Seal	Both	122-1402	Positive Type, Viton Material, Metal Clad Style, OEM # 137191510, 137191350
Spring	Both	160-1536	2.649 Length, Inner, OEM # 137321470
		160-1537	2.565 Length, Outer, OEM # 137311580

10 411 C.I., (6.7L), HO7C-B, C/F/G, 17 SERIES, 1984-91 HO7C-B
 L6 411 CID BORE - 110mm/4.3307" BORE - 110mm/4.330"

PART		PART NO.	NOTES
Valve	Int	13091	1.884 Head Diameter, OEM # 137311471, 1984-86
		13097	1.884 Head Diameter, OEM # 137111550, 1987-91
	Exh	13092	1.624 Head Diameter, OEM # 137151520, 1984-86
		13098	1.624 Head Diameter, OEM # 137151591, 1987-91
Stem Seal	Both	122-1402	Positive Type, Viton Material, Metal Clad Style, OEM # 137191510, 137191350
Spring	Both	160-1531	2.504 Length, Outer, OEM # 137311360, 1984-86
		160-1536	2.649 Length, Inner, OEM # 137321380, 137321470; 1987-91
		160-1537	2.565 Length, Outer, OEM # 137311440, 137311580; 1987-91
		160-1563	2.431 Length, Inner, OEM # 137321300, 1984-86

11 575 C.I., (9.4L), EM100-E/F, 22 SERIES, 1984-86 EM100-E
 L6 575 CID BORE - 124mm/4.8819"

PART		PART NO.	NOTES
Valve	Int	13093	2.125 Head Diameter, OEM # 137311480
	Exh	13094S	1.886 Head Diameter, Stellite Face, OEM # 137151240

HONDA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
3 Cylinder		
995cc, (1.0L), SOHC, ELECTRIC/GAS, FI, 12 Valve, ECA1 (2000-06)	Insight Hybrid	1
4 Cylinder		
1237cc, (1.2L), GAS, CARB, 8 Valve, EB1 (1973-73)	Civic	2
1237cc, (1.2L), SOHC, GAS, CARB, 8 Valve, EB2 (1974-77)	Civic	3
1237cc, (1.2L), SOHC, GAS, CARB, 8 Valve, EB3 (1978-79)	Civic	4
1335cc, (1.3L), SOHC, GAS, CARB, 8 Valve "EJI" (1980-83)	Civic	5
1339cc, (1.3L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LDA1 (2003-05)	Civic Hybrid	6

(Cont'd) HONDA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1339cc, (1.3L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LDA2 (2006-10)	Civic Hybrid	7
1339cc, (1.3L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LDA3 (2010-14)	Insight Hybrid	8
1342cc, (1.3L), SOHC, GAS, CARB, 16 Valve, "EV1" (1984-86)	Civic	9
1342cc, (1.3L), SOHC, GAS, CARB, 16 Valve, D13A2 (1987-87)	Civic	10
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED1 (1975-75)	Civic	11
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED2 (1976-76)	Civic	12
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED3 (1976-79)	Civic	13
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED4 (1977-79)	Civic	14
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, "EM1" (1980-83)	Civic	15
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, EW1 (1984-86)	Civic, Wagovan	16
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve "EW1 High Fuel" (1985-86)	Civic	17
1487cc, (1.5L), SOHC, GAS, FI, 12 Valve, EW3 (1985-85) . .	Civic CRX Si	18
1487cc, (1.5L), SOHC, GAS, FI, 12 Valve, EW4 (1986-86) . .	Civic, CRX	19
1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, D15A2 (1987-87)	Wagovan	20
1487cc, (1.5L), SOHC, GAS, FI, 12 Valve, D15A3 (1987-87) .	Civic, CRX	21
1493cc, (1.5L), SOHC, GAS, FI, 16 Valve D15B1 (1988-91) .	Civic, CRX	22
1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15B2 (1988-91) .	Civic, CRX	23
1493cc, (1.5L), SOHC, GAS, FI, 8 Valve, D15B6 (1988-91) . .	CRX HF	24
1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15B7 (1992-95) .	Civic, Civic del Sol	25
1493cc, (1.5L), SOHC, GAS, FI, 8 Valve, D15B8 (1992-95) . .	Civic	26
1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15Z1 (1992-95) .	Civic	27
1497cc, (1.5L), SOHC, GAS, FI, 16 Valve, L15A1 (2007-08) .	Fit	28
1497cc, (1.5L), SOHC, GAS, FI, 16 Valve, L15A7 (2009-14) .	Fit	29
1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, L15B1 (2015-17) .	Fit	30
1497cc, (1.5L), SOHC, ELECTRIC/GAS, FI, 16 Valve, LEA1 (2011-16)	CR-Z	31
1497cc, (1.5L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LEA2 (2012-15)	Civic	32
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16A6 (1988-91) .	Civic, CRX	33
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Y5 (1996-00) .	Civic HX	34
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Y7 (1996-00) .	Civic, Civic del Sol	35
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Y8 (1996-00) .	Civic, Civic del Sol Si	36
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Z6 "VTEC" (1992-95)	Civic, Civic del Sol	37
1590cc, (1.6L), DOHC, GAS, FI, 16 Valve, B16A3 (1994-95) .	Civic del Sol	38
1595cc, (1.6L), DOHC, GAS, FI, 16 Valve, B16A2 (1996-00) .	Civic, Civic del Sol VTEC	39

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1599cc, (1.6L), SOHC, GAS, CARB, 12 Valve, EF1 (1976-78)	Accord	40
1668cc, (1.7L), SOHC, GAS, FI, 16 Valve, D17A1 (2001-05)	Civic	41
1668cc, (1.7L), SOHC, GAS, FI, 16 Valve, D17A2 (2001-05)	Civic EX VTEC	42
1668cc, (1.7L), SOHC, GAS, FI, 16 Valve, D17A6 (2001-05)	Civic	43
1668cc, (1.7L), SOHC, CNG, FI, 16 Valve, D17A7 (2001-05)	Civic	44
1799cc, (1.8L), SOHC, GAS, FI, 16 Valve, R18A1 (2006-11)	Civic	45
1799cc, (1.8L), SOHC, CNG, FI, 16 Valve, R18A4 (2006-11)	Civic	46
1799cc, (1.8L), SOHC, GAS, FI, 16 Valve, R18Z1 (2012-15)	Civic	47
1829cc, (1.8L), SOHC, GAS, CARB, 8 Valve, ES1 (1983-83)	Prelude	48
1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, ES2 (1984-85)	Accord	49
1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, ES3 (1984-85)	Accord	50
1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, ET2 (1984-86)	Prelude	51
1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, A18A1 (1987-87)	Prelude	52
1955cc, (2.0L), SOHC, GAS, CARB, 12 Valve, A20A1 (1987-89)	Accord	53
1955cc, (2.0L), SOHC, GAS, FI, 12 Valve, A20A3 (1987-89)	Accord	54
1955cc, (2.0L), SOHC, GAS, CARB, FI, 12 Valve, BS (1986-86)	Accord	55
1955cc, (2.0L), SOHC, GAS, FI, 12 Valve, BT (1986-86)	Accord, Prelude Si	56
1958cc, (2.0L), SOHC, GAS, CARB, 12 Valve, B20A3 (1988-90)	Prelude	57
1958cc, (2.0L), DOHC, GAS, FI, 16 Valve, B20A5 (1988-91)	Prelude	58
1972cc, (2.0L), DOHC, GAS, FI, 16 Valve, B20B4 (1997-98)	CR-V	59
1972cc, (2.0L), DOHC, GAS, FI, 16 Valve, B20Z2 (1999-01)	CR-V	60
1993cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, LFA1 Hybrid (2014-17)	Accord Hybrid	61
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, F20C1 (2000-03)	S2000 VTEC	62
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A3 (2002-05)	Civic	63
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20Z3 (2006-11)	Civic	64
2056cc, (2.1L), DOHC, GAS, FI, 16 Valve, B21A1 (1990-91)	Prelude	65
2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22A1, F22A4, F22A6 (1990-96)	Accord, Prelude VTEC	66
2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B1 (1994-97)	Accord	67
2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B2 (1994-97)	Accord	68
2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B6 (1995-97)	Odyssey	69
2156cc, (2.2L), DOHC, GAS, FI, 16 Valve, H22A1 (1993-96)	Prelude VTEC	70
2156cc, (2.2L), DOHC, GAS, FI, 16 Valve, H22A4 (1997-01)	Prelude VTEC	71
2157cc, (2.2L), DOHC, GAS, FI, 16 Valve, F22C1 (2005-09)	S2000	72
2254cc, (2.3L), SOHC, GAS, FI, 16 Valve, F23A1, F23A4, F23A5, F23A7 (1998-02)	Accord, Odyssey	73
2259cc, (2.3L), DOHC, GAS, FI, 16 Valve, H23A1 (1992-96)	Prelude	74
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A1 (2002-06)	CR-V	75
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A4 (2003-06)	Accord, Element	76

(Cont'd) HONDA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.		
4 Cylinder				
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A8 (2006-11)	Accord, Element	77		
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Y2 (2012-15)	Crosstour	78		
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z1 (2007-09)	CR-V	79		
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z2 (2008-12)	Accord	80		
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z3 (2008-12)	Accord	81		
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z6 (2010-11)	CR-V	82		
2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z7 (2012-15)	Civic, CR-V	83		
2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24W1 (2013-17)	Accord	84		
2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24W9 (2015-17)	CR-V	85		
2559cc, (2.6L), SOHC, GAS, FI, 8 Valve, 4ZE1 "Isuzu" (1994-96)	Passport	86		
6 Cylinder				
2675cc, (2.7L), SOHC, GAS, FI, 24 Valve, C27A4 (1995-97)	Accord	87		
2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A1 (1998-02)	Accord	88		
2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A4 (2003-05)	Accord	89		
2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A5 (2006-07)	Accord	90		
2997cc, (3.0L), SOHC, ELECTRIC/GAS, FI, 24 Valve, JNA1 (2005-07)	Accord	91		
3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, 6VD1 "Isuzu" (1994-97)	Passport	92		
3165cc, (3.2L), DOHC, GAS, FI, 24 Valve, 6VD1W "Isuzu" (1998-02)	Passport	93		
3474cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A1 (1999-01)	Odyssey	94		
3474cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A4 (2002-04)	Odyssey, Pilot	95		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A6 (2005-10)	Odyssey, Pilot	96		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A7 (2005-10)	Odyssey	97		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A8 (2011-14)	Odyssey	98		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A9 (2006-08)	Pilot, Ridgeline	99		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y1 (2013-17)	Accord, Crosstour	100		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y2 (2014-17)	Accord	101		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y6 (2016-17)	Pilot, Ridgeline	102		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z1 (2006-08)	Pilot	103		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z2 (2008-13)	Accord, Accord Crosstour, Crosstour	104		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z3 (2008-12)	Accord	105		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z4 (2009-15)	Pilot	106		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z5 (2009-14)	Ridgeline	107		
3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z8 (2014-17)	Odyssey	108		
995cc, (1.0L), SOHC, ELECTRIC/GAS, FI, 12 Valve, ECA1		ECA1 1		
2000-06	L3 61 CID	BORE - 72mm/2.83"		
PART	YEARS	PART NO.	NOTES	
Keeper	Both	2000-06	121-1060	1 RD Bead Type
1237cc, (1.2L), GAS, CARB, 8 Valve, EB1		EB1 2		
1973-73	L4 76 CID	BORE - 72mm/2.84"		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1973-73	SB1375-52	1% O.D., 1.000T I.D., 0.4100 Depth

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

3 1237cc, (1.2L), SOHC, GAS, CARB, 8 Valve, EB2 EB2
 1974-77 L4 76 CID BORE - 72mm/2.84"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1974-77	SB1375-52	1 $\frac{3}{8}$ O.D.,1.000T I.D.,0.4100 Depth

4 1237cc, (1.2L), SOHC, GAS, CARB, 8 Valve, EB3 EB3
 1978-79 L4 76 CID BORE - 72mm/2.84"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1978-79	SB1562-51	1 $\frac{9}{16}$ O.D.,1.245T I.D.,0.3540 Depth
	Exh 1978-79	SB1437-53	1 $\frac{7}{16}$ O.D.,1.090T I.D.,0.3540 Depth

5 1335cc, (1.3L), SOHC, GAS, CARB, 8 Valve "EJ1" EJ1
 1980-83 L4 81 CID BORE - 72mm/2.84"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1980-83	SB1250-52	1 $\frac{1}{4}$ O.D.,0.910T I.D.,0.2850 Depth
Valve	Int 1980-81	10078	1.378 Head Diameter,4.445 Overall Length
Stem Seal	Both 1980-83	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int 1980-83	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh 1980-83	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

6 1339cc, (1.3L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LDA1 LDA1
 2003-05 L4 82 CID BORE - 73mm/2.87"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2003-05	121-1060	1 RD Bead Type
Stem Seal	Int 2003-05	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2003-05	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2003-05	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2003-05	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

7 1339cc, (1.3L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LDA2 LDA2
 2006-10 L4 82 CID BORE - 73mm/2.87"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2006-10	121-1060	1 RD Bead Type
Stem Seal	Int 2006-10	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2006-10	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2006-10	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2006-10	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

8 1339cc, (1.3L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LDA3 LDA3
 2010-14 L4 82 CID BORE - 73mm/2.87"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2010-14	121-1060	1 RD Bead Type
Stem Seal	Int 2010-14	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2010-14	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2010-14	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2010-14	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

9 1342cc, (1.3L), SOHC, GAS, CARB, 16 Valve, "EV1" EV1
 1984-86 L4 82 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Both 1984-86	SB1250-52	1 $\frac{1}{4}$ O.D.,0.910T I.D.,0.2850 Depth
Keeper	Both 1984-86	121-1054	1 RD Bead Type
Stem Seal	Both 1984-86	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int 1984-86	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.

(Cont'd) **HONDA / PASSENGER CAR OR TRUCK**

1342cc, (1.3L), SOHC, GAS, CARB, 16 Valve, "EV1" EV1 **9**
1984-86 L4 82 CID BORE - 74mm/2.91" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 1984-86	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

1342cc, (1.3L), SOHC, GAS, CARB, 16 Valve, D13A2 D13A2 **10**
1987-87 L4 82 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Both 1987-87	SB1250-52	1¼ O.D.,0.910T I.D.,0.2850 Depth
Keeper	Both 1987-87	121-1054	1 RD Bead Type
Stem Seal	Both 1987-87	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int 1987-87	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh 1987-87	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED1 ED1 **11**
1975-75 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1975-75	SB1250-52	1¼ O.D.,0.910T I.D.,0.2850 Depth
Guide	Exh 1975-75	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.
Spring	Exh 1975-75	160-1079	1.960 Length,Outer, W/ 1.345 O.D.

1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED2 ED2 **12**
1976-76 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1976-76	SB1250-52	1¼ O.D.,0.910T I.D.,0.2850 Depth
Guide	Exh 1976-76	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED3 ED3 **13**
1976-79 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1976-79	SB1250-52	1¼ O.D.,0.910T I.D.,0.2850 Depth
Valve	Int 1976-79	10078	1.378 Head Diameter
Guide	Exh 1976-79	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, ED4 ED4 **14**
1977-79 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1977-79	SB1250-52	1¼ O.D.,0.910T I.D.,0.2850 Depth
Valve	Int 1977-79	10078	1.378 Head Diameter
Guide	Exh 1977-79	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, "EM1" EM1 **15**
1980-83 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1980-83	SB1250-52	1¼ O.D.,0.910T I.D.,0.2850 Depth
Valve	Int 1980-81	10078	1.378 Head Diameter,4.445 Overall Length
Stem Seal	Both 1980-83	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int 1980-83	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh 1980-83	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

16 1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, EW1 EW1
 1984-86 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-86	SB1125-54	1 1/8 O.D.,0.900 I.D.,0.3250 Depth
	Exh	1984-86	SB1375-55	1 3/8 O.D.,1.120 I.D.,0.3250 Depth
Keeper	Both	1984-86	121-1054	1 RD Bead Type
Stem Seal	Both	1984-86	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1984-86	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1984-86	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

17 1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve "EW1 High Fuel" EW1-HF
 1985-86 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Both	1985-86	SB1250-52	1 1/4 O.D.,0.910T I.D.,0.2850 Depth
Keeper	Both	1985-86	121-1054	1 RD Bead Type
Stem Seal	Both	1985-86	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1985-86	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1985-86	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

18 1487cc, (1.5L), SOHC, GAS, FI, 12 Valve, EW3 EW3
 1985-85 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-85	SB1125-54	1 1/8 O.D.,0.900 I.D.,0.3250 Depth
	Exh	1985-85	SB1375-55	1 3/8 O.D.,1.120 I.D.,0.3250 Depth
Valve	Exh	1985-85	10413	1.299 Head Diameter
Keeper	Both	1985-85	121-1054	1 RD Bead Type
Stem Seal	Both	1985-85	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1985-85	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1985-85	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

19 1487cc, (1.5L), SOHC, GAS, FI, 12 Valve, EW4 EW4
 1986-86 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-86	SB1125-54	1 1/8 O.D.,0.900 I.D.,0.3250 Depth
	Exh	1986-86	SB1375-55	1 3/8 O.D.,1.120 I.D.,0.3250 Depth
Valve	Exh	1986-86	10413	1.299 Head Diameter
Keeper	Both	1986-86	121-1054	1 RD Bead Type
Stem Seal	Both	1986-86	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1986-86	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1986-86	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

20 1487cc, (1.5L), SOHC, GAS, CARB, 12 Valve, D15A2 D15A2
 1987-87 L4 91 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Both	1987-87	SB1250-52	1 1/4 O.D.,0.910T I.D.,0.2850 Depth
Keeper	Both	1987-87	121-1054	1 RD Bead Type
Stem Seal	Both	1987-87	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1987-87	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1987-87	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

(Cont'd) HONDA / PASSENGER CAR OR TRUCK**1487cc, (1.5L), SOHC, GAS, FI, 12 Valve, D15A3**
1987-87 L4 91 CID**D15A3 21**
BORE - 74mm/2.91"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-87	SB1125-54	1 $\frac{1}{8}$ O.D.,0.900 I.D.,0.3250 Depth
	Exh	1987-87	SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
Valve	Exh	1987-87	10413	1.299 Head Diameter
Keeper	Both	1987-87	121-1054	1 RD Bead Type
Stem Seal	Both	1987-87	122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1987-87	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1987-87	140-7659	0.2610 I.D.,2.165 Length,0.4755 O.D.

1493cc, (1.5L), SOHC, GAS, FI, 16 Valve D15B1
1988-91 L4 92 CID**D15B1 22**
BORE - 75mm/2.95"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-91	SB1187-52	1 $\frac{3}{16}$ O.D.,0.934T I.D.,0.2570 Depth
	Exh	1988-91	SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1988-91	10190	1.142 Head Diameter
	Exh	1988-91	10191	0.984 Head Diameter
Keeper	Both	1988-91	121-1060	1 RD Bead Type
Stem Seal	Int	1988-91	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1988-91	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1988-91	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
		1988-91	140-8397	0.2173 I.D.,1.640 Length,0.4765 O.D.
		1988-91	340-1007BR	0.2161 I.D.,1.641 Length,0.4755 O.D.,Optional Bronze Version Of 140-8397
	Exh	1988-91	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
		1988-91	140-8577	0.2175 I.D.,1.875 Length,0.4763 O.D.
		1988-91	340-1008BR	0.2165 I.D.,1.870 Length,0.4750 O.D.,Optional Bronze Version Of 140-8577
Spring	Int	1988-91	160-1261	1.917 Length
	Exh	1988-91	160-1262	1.943 Length
Head Saver Shim		1988-91	230-2037	New Hgt. - 3.738 - 3.742; Min. Hgt. - 3.730

1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15B2
1988-91 L4 91 CID**D15B2 23**
BORE - 75mm/2.95"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-91	SB1187-52	1 $\frac{3}{16}$ O.D.,0.934T I.D.,0.2570 Depth
	Exh	1988-91	SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1988-91	10190	1.142 Head Diameter
	Exh	1988-91	10191	0.984 Head Diameter
Keeper	Both	1988-91	121-1060	1 RD Bead Type
Stem Seal	Int	1988-91	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1988-91	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1988-91	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
		1988-91	140-8397	0.2173 I.D.,1.640 Length,0.4765 O.D.
		1988-91	340-1007BR	0.2161 I.D.,1.641 Length,0.4755 O.D.,Optional Bronze Version Of 140-8397
	Exh	1988-91	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
		1988-91	140-8577	0.2175 I.D.,1.875 Length,0.4763 O.D.
		1988-91	340-1008BR	0.2165 I.D.,1.870 Length,0.4750 O.D.,Optional Bronze Version Of 140-8577
Spring	Int	1988-91	160-1261	1.917 Length
	Exh	1988-91	160-1262	1.943 Length

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

23 1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15B2 D15B2
 (cont.) 1988-91 L4 91 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES
Head Saver Shim	1988-91	230-2037	New Hgt. - 3.738 - 3.742; Min. Hgt. - 3.730

24 1493cc, (1.5L), SOHC, GAS, FI, 8 Valve, D15B6 D15B6
 1988-91 L4 92 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1988-91 Exh 1988-91	SB1187-52 SB1062-50	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth 1 ¹ / ₁₆ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int 1988-91 Exh 1988-91	10190 10191	1.142 Head Diameter 0.984 Head Diameter
Keeper	Both 1988-91	121-1060	1 RD Bead Type
Stem Seal	Int 1988-91 Exh 1988-91	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 1988-91 1988-91 1988-91 Exh 1988-91 1988-91 1988-91	140-8158 140-8397 340-1007BR 140-8157 140-8577 340-1008BR	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring 0.2173 I.D.,1.640 Length,0.4765 O.D. 0.2161 I.D.,1.641 Length,0.4755 O.D.,Optional Bronze Version Of 140-8397 0.2173 I.D.,2.130 Length,0.4358 O.D. 0.2175 I.D.,1.875 Length,0.4763 O.D. 0.2165 I.D.,1.870 Length,0.4750 O.D.,Optional Bronze Version Of 140-8577
Spring	Int 1988-91 Exh 1988-91	160-1261 160-1262	1.917 Length 1.943 Length
Head Saver Shim	1988-91	230-2037	New Hgt. - 3.738 - 3.742; Min. Hgt. - 3.730

25 1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15B7 D15B7
 1992-95 L4 91 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1992-95 Exh 1992-95	SB1187-52 SB1062-50	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth 1 ¹ / ₁₆ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int 1992-95 Exh 1992-95	10190 10191	1.142 Head Diameter 0.984 Head Diameter
Keeper	Both 1992-95	121-1060	1 RD Bead Type
Stem Seal	Int 1992-95 Exh 1992-95	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 1992-95 Exh 1992-95	140-8158 140-8157	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring 0.2173 I.D.,2.130 Length,0.4358 O.D.
Spring	Int 1992-95	160-1236	2.020 Length
Head Saver Shim	1992-95	230-2037	New Hgt. - 3.738 - 3.742; Min. Hgt. - 3.730

26 1493cc, (1.5L), SOHC, GAS, FI, 8 Valve, D15B8 D15B8
 1992-95 L4 92 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1992-95 Exh 1992-95	SB1187-52 SB1062-50	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth 1 ¹ / ₁₆ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int 1992-95 Exh 1992-95	10190 10191	1.142 Head Diameter 0.984 Head Diameter
Keeper	Both 1992-95	121-1060	1 RD Bead Type
Stem Seal	Int 1992-95 Exh 1992-95	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 1992-95	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

(Cont'd) HONDA / PASSENGER CAR OR TRUCK

1493cc, (1.5L), SOHC, GAS, FI, 8 Valve, D15B8 **D15B8 26**
 1992-95 L4 92 CID BORE - 75mm/2.95" (cont.)

PART		YEARS	PART NO.	NOTES
Guide	Exh	1992-95	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Spring	Int	1992-95	160-1236	2.020 Length
Head Saver Shim		1992-95	230-2037	New Hgt. - 3.738 - 3.742; Min. Hgt. - 3.730

1493cc, (1.5L), SOHC, GAS, FI, 16 Valve, D15Z1 **D15Z1 27**
 1992-95 L4 92 CID BORE - 75mm/2.95"

PART		YEARS	PART NO.	NOTES
Keeper	Both	1992-95	121-1060	1 RD Bead Type
Stem Seal	Int	1992-95	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1992-95	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-95	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

1497cc, (1.5L), SOHC, GAS, FI, 16 Valve, L15A1 **L15A1 28**
 2007-08 L4 92 CID BORE - 73mm/2.87"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2007-08	121-1060	1 RD Bead Type
Stem Seal	Int	2007-08	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2007-08	122-1202	Positive Type,Viton Material,Metal Clad Style

1497cc, (1.5L), SOHC, GAS, FI, 16 Valve, L15A7 **L15A7 29**
 2009-14 L4 91 CID BORE - 73mm/2.87"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2009-13	121-1060	1 RD Bead Type
Stem Seal	Int	2009-13	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2009-13	122-1202	Positive Type,Viton Material,Metal Clad Style

1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, L15B1 **L15B1 30**
 2015-17 L4 91 CID BORE - 73mm/2.87"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2015-16	121-1060	1 RD Bead Type
Stem Seal	Int	2015-16	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2015-16	122-1202	Positive Type,Viton Material,Metal Clad Style

1497cc, (1.5L), SOHC, ELECTRIC/GAS, FI, 16 Valve, LEA1 **LEA1 31**
 2011-16 L4 91 CID BORE - 73mm/2.87"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2011-16	121-1060	1 RD Bead Type
Stem Seal	Int	2011-16	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2011-16	122-1202	Positive Type,Viton Material,Metal Clad Style

1497cc, (1.5L), SOHC, ELECTRIC/GAS, FI, 8 Valve, LEA2 **LEA2 32**
 2012-15 L4 91 CID BORE - 73mm/2.87"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2012-15	121-1060	1 RD Bead Type
Stem Seal	Int	2012-15	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2012-15	122-1202	Positive Type,Viton Material,Metal Clad Style

1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16A6 **D16A6 33**
 1988-91 L4 97 CID BORE - 75mm/2.95"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-91	SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

33 1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16A6
(cont.) 1988-91 L4 97 CID

D16A6
BORE - 75mm/2.95"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1988-91	SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1988-91	10190	1.142 Head Diameter
	Exh	1988-91	10191	0.984 Head Diameter
Keeper	Both	1988-91	121-1060	1 RD Bead Type
Stem Seal	Int	1988-91	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1988-91	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1988-91	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1988-91	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Spring	Int	1988-91	160-1261	1.917 Length
	Exh	1988-91	160-1262	1.943 Length
Head Saver Shim		1988-91	230-2037	New Hgt. - 3.738 - 3.742; Min. Hgt. - 3.730

34 1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Y5
1996-00 L4 97 CID

D16Y5
BORE - 75.2mm/2.96"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1996-00	SB1250-62	1 $\frac{1}{4}$ O.D.,1.000 I.D.,0.3050 Depth
	Exh	1996-00	SB1062-51	1 $\frac{1}{16}$ O.D.,0.870 I.D.,0.1950 Depth
Valve	Int	1996-00	10524	1.181 Head Diameter
	Exh	1996-00	10525	1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material
		1996-00	20525	1.023 Head Diameter,Alternative Austenitic Material
Keeper	Both	1996-00	121-1060	1 RD Bead Type
Stem Seal	Int	1996-00	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1996-00	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1996-00	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1996-00	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Spring	Exh	1996-00	160-1239	2.300 Length
Head Saver Shim		1996-00	230-2188	New Hgt. - 3.659 - 3.663; Min. Hgt. - 3.651

35 1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Y7
1996-00 L4 97 CID

D16Y7
BORE - 75mm/2.95"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1996-00	SB1250-62	1 $\frac{1}{4}$ O.D.,1.000 I.D.,0.3050 Depth
	Exh	1996-00	SB1062-51	1 $\frac{1}{16}$ O.D.,0.870 I.D.,0.1950 Depth
Valve	Int	1996-00	10524	1.181 Head Diameter
	Exh	1996-00	10525	1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material
		1996-00	20525	1.023 Head Diameter,Alternative Austenitic Material
Keeper	Both	1996-00	121-1060	1 RD Bead Type
Stem Seal	Int	1996-00	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1996-00	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1996-00	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1996-00	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Spring	Both	1996-00	160-1239	2.300 Length
Head Saver Shim		1996-00	230-2188	New Hgt. - 3.659 - 3.663; Min. Hgt. - 3.651

(Cont'd) HONDA / PASSENGER CAR OR TRUCK**1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Y8**
1996-00 L4 97 CID**D16Y8 36**
BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1996-00	SB1250-62	1¼ O.D., 1.000 I.D., 0.3050 Depth
	Exh	1996-00	SB1062-51	1⅞ O.D., 0.870 I.D., 0.1950 Depth
Valve	Int	1996-00	10524	1.181 Head Diameter
	Exh	1996-00	10525	1.023 Head Diameter, Recommended OEM Nickel Base Inconel Material
		1996-00	20525	1.023 Head Diameter, Alternative Austenitic Material
Keeper	Both	1996-00	121-1060	1 RD Bead Type
Stem Seal	Int	1996-00	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1996-00	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1996-00	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	1996-00	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.
Spring	Exh	1996-00	160-1239	2.300 Length
Head Saver Shim		1996-00	230-2188	New Hgt. - 3.659 - 3.663; Min. Hgt. - 3.651

1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, D16Z6 "VTEC"
1992-95 L4 97 CID**D16Z6 37**
BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-95	SB1250-62	1¼ O.D., 1.000 I.D., 0.3050 Depth
	Exh	1992-95	SB1062-51	1⅞ O.D., 0.870 I.D., 0.1950 Depth
Valve	Int	1992-95	10524	1.181 Head Diameter
	Exh	1992-95	10525	1.023 Head Diameter, Recommended OEM Nickel Base Inconel Material
		1992-95	20525	1.023 Head Diameter, Alternative Austenitic Material
Keeper	Both	1992-95	121-1060	1 RD Bead Type
Stem Seal	Int	1992-95	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1992-95	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1992-95	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
Spring	Int	1992-95	160-1238	2.277 Length
	Exh	1992-95	160-1239	2.300 Length
Head Saver Shim		1992-95	230-2188	New Hgt. - 3.659 - 3.663; Min. Hgt. - 3.651

1590cc, (1.6L), DOHC, GAS, FI, 16 Valve, B16A3
1994-95 L4 97 CID**B16A3 38**
BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-95	SB1375-56	1⅜ O.D., 1.102 I.D., 0.2600 Depth
	Exh	1994-95	SB1250-58	1¼ O.D., 0.955 I.D., 0.2550 Depth
Valve	Int	1994-95	10434	1.299 Head Diameter
	Exh	1994-95	10435	1.103 Head Diameter
Keeper	Both	1994-95	121-1060	1 RD Bead Type
Stem Seal	Int	1994-95	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1994-95	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1994-95	140-8397	0.2173 I.D., 1.640 Length, 0.4765 O.D.
		1994-95	340-1007BR	0.2161 I.D., 1.641 Length, 0.4755 O.D., Optional Bronze Guide
	Exh	1994-95	140-8577	0.2175 I.D., 1.875 Length, 0.4763 O.D.
		1994-95	340-1008BR	0.2165 I.D., 1.870 Length, 0.4750 O.D., Optional Bronze Guide
Head Saver Shim		1994-95	230-2123	New Hgt. 5.589 - 5.593; Min. Hgt. 5.581

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

39 1595cc, (1.6L), DOHC, GAS, FI, 16 Valve, B16A2
1996-00 L4 97 CID

B16A2
BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1996-00	SB1375-56	1 $\frac{3}{8}$ O.D., 1.102 I.D., 0.2600 Depth
	Exh	1996-00	SB1250-58	1 $\frac{1}{4}$ O.D., 0.955 I.D., 0.2550 Depth
Valve	Int	1996-00	10434	1.299 Head Diameter
	Exh	1996-00	10435	1.103 Head Diameter
Keeper	Both	1996-00	121-1060	1 RD Bead Type
Stem Seal	Int	1996-00	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1996-00	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1996-00	140-8397	0.2173 I.D., 1.640 Length, 0.4765 O.D.
		1996-00	340-1007BR	0.2161 I.D., 1.641 Length, 0.4755 O.D., Optional Bronze Guide
	Exh	1996-00	140-8577	0.2175 I.D., 1.875 Length, 0.4763 O.D.
		1996-00	340-1008BR	0.2165 I.D., 1.870 Length, 0.4750 O.D., Optional Bronze Guide
Head Saver Shim		1996-00	230-2123	New Hgt. 5.589 - 5.593; Min. Hgt. 5.581

40 1599cc, (1.6L), SOHC, GAS, CARB, 12 Valve, EF1
1976-78 L4 98 CID

EF1
BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1976-78	SB1250-52	1 $\frac{1}{4}$ O.D., 0.910T I.D., 0.2850 Depth
Valve	Int	1976-78	10078	1.378 Head Diameter
Guide	Exh	1976-78	140-7659	0.2610 I.D., 2.165 Length, 0.4755 O.D.

41 1668cc, (1.7L), SOHC, GAS, FI, 16 Valve, D17A1
2001-05 L4 102 CID

D17A1
BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2001-05	SB1250-62	1 $\frac{1}{4}$ O.D., 1.000 I.D., 0.3050 Depth
	Exh	2001-05	SB1062-50	1 $\frac{1}{16}$ O.D., 0.790 I.D., 0.2540 Depth
Valve	Int	2001-05	10524	1.181 Head Diameter
		2001-05	10525	1.023 Head Diameter, Recommended OEM Nickel Base Inconel Material
	Exh	2001-05	20525	1.023 Head Diameter, Alternative Austenitic Material
Keeper	Both	2001-05	121-1060	1 RD Bead Type
Stem Seal	Int	2001-05	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	2001-05	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2001-05	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
Spring	Both	2001-05	160-1239	2.300 Length
Head Saver Shim		2001-05	230-2189	New Hgt. - 3.659 - 3.663; Min. Hgt. - N/A

42 1668cc, (1.7L), SOHC, GAS, FI, 16 Valve, D17A2
2001-05 L4 102 CID

D17A2
BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2001-05	SB1250-62	1 $\frac{1}{4}$ O.D., 1.000 I.D., 0.3050 Depth
	Exh	2001-05	SB1062-50	1 $\frac{1}{16}$ O.D., 0.790 I.D., 0.2540 Depth
Valve	Int	2001-05	10524	1.181 Head Diameter
		2001-05	10525	1.023 Head Diameter, Recommended OEM Nickel Base Inconel Material
	Exh	2001-05	20525	1.023 Head Diameter, Alternative Austenitic Material
Keeper	Both	2001-05	121-1060	1 RD Bead Type
Stem Seal	Int	2001-05	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	2001-05	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2001-05	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring

(Cont'd) HONDA / PASSENGER CAR OR TRUCK**1668cc, (1.7L), SOHC, GAS, FI, 16 Valve, D17A2**
2001-05 L4 102 CID**D17A2 42**
BORE - 75mm/2.95" (cont.)

PART	YEARS	PART NO.	NOTES
Spring	Exh 2001-05	160-1239	2.300 Length
Head Saver Shim	2001-05	230-2189	New Hgt. - 3.659 - 3.663; Min. Hgt. - N/A

1668cc, (1.7L), SOHC, GAS, FI, 16 Valve, D17A6
2001-05 L4 102 CID**D17A6 43**
BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2001-05 Exh 2001-05	SB1250-62 SB1062-50	1¼ O.D.,1.000 I.D.,0.3050 Depth 1⅙ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int 2001-05 Exh 2001-05 2001-05	10524 10525 20525	1.181 Head Diameter 1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material 1.023 Head Diameter,Alternative Austenitic Material
Keeper	Both 2001-05	121-1060	1 RD Bead Type
Stem Seal	Int 2001-05 Exh 2001-05	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Both 2001-05	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
Spring	Exh 2001-05	160-1239	2.300 Length
Head Saver Shim	2001-05	230-2189	New Hgt. - 3.659 - 3.663; Min. Hgt. - N/A

1668cc, (1.7L), SOHC, CNG, FI, 16 Valve, D17A7
2001-05 L4 102 CID**D17A7-CNG 44**
BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2001-05 Exh 2001-05	SB1250-62 SB1062-50	1¼ O.D.,1.000 I.D.,0.3050 Depth 1⅙ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int 2001-05 Exh 2001-05 2001-05	10524 10525 20525	1.181 Head Diameter 1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material 1.023 Head Diameter,Alternative Austenitic Material
Keeper	Both 2001-05	121-1060	1 RD Bead Type
Stem Seal	Int 2001-05 Exh 2001-05	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Both 2001-05	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
Spring	Both 2001-05	160-1239	2.300 Length
Head Saver Shim	2001-05	230-2189	New Hgt. - 3.659 - 3.663; Min. Hgt. - N/A

1799cc, (1.8L), SOHC, GAS, FI, 16 Valve, R18A1
2006-11 L4 110 CID**R18A1 45**
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve	Exh 2006-11	10525	1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material
Keeper	Both 2006-11	121-1060	1 RD Bead Type
Stem Seal	Int 2006-11 Exh 2006-11	122-1201 122-1202	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 2006-11 Exh 2006-11	140-8158 140-8157	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring 0.2173 I.D.,2.130 Length,0.4358 O.D.

1799cc, (1.8L), SOHC, CNG, FI, 16 Valve, R18A4
2006-11 L4 110 CID**R18A4 46**
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2006-11	121-1060	1 RD Bead Type

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

46 1799cc, (1.8L), SOHC, CNG, FI, 16 Valve, R18A4 R18A4
 (cont.) 2006-11 L4 110 CID BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Stem Seal	Int	2006-11	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2006-11	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	2006-11	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

47 1799cc, (1.8L), SOHC, GAS, FI, 16 Valve, R18Z1 R18Z1
 2012-15 L4 110 CID BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Valve	Exh	2012-15	10525	1.023 Head Diameter,Recommended OEM Nickel Base Inconel Material
Keeper	Both	2012-15	121-1060	1 RD Bead Type
Stem Seal	Int	2012-15	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2012-15	122-1202	Positive Type,Viton Material,Metal Clad Style

48 1829cc, (1.8L), SOHC, GAS, CARB, 8 Valve, ES1 ES1
 1983-83 L4 112 CID BORE - 80.7mm/3.18"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-83	SB1312-56	1 ⁵ / ₁₆ O.D.,1.086 I.D.,0.3050 Depth
Valve	Int	1983-83	10192	1.180 Head Diameter
	Exh	1983-83	10193	1.376 Head Diameter
Keeper	Int	1983-83	121-1054	1 RD Bead Type
Stem Seal	Both	1983-83	122-1136	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1983-83	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1983-83	140-7710	0.2765 I.D.,2.168 Length,0.4755 O.D.
Head Saver Shim		1983-83	230-2038	New Hgt. 3.565 - 3.575; Min. Hgt. - 3.550

49 1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, ES2 ES2
 1984-85 L4 112 CID BORE - 80mm/3.15"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-85	SB1312-56	1 ⁵ / ₁₆ O.D.,1.086 I.D.,0.3050 Depth
Valve	Int	1984-85	10192	1.180 Head Diameter
	Exh	1984-85	10193	1.376 Head Diameter
Keeper	Int	1984-85	121-1054	1 RD Bead Type
Guide	Int	1984-85	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1984-85	140-7710	0.2765 I.D.,2.168 Length,0.4755 O.D.
Head Saver Shim		1984-85	230-2038	New Hgt. 3.565 - 3.575; Min. Hgt. - 3.550

50 1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, ES3 ES3
 1984-85 L4 112 CID BORE - 80mm/3.15"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-85	SB1312-56	1 ⁵ / ₁₆ O.D.,1.086 I.D.,0.3050 Depth
Valve	Int	1984-85	10192	1.180 Head Diameter
	Exh	1984-85	10193	1.376 Head Diameter
Keeper	Int	1984-85	121-1054	1 RD Bead Type
Guide	Int	1984-85	140-7830	0.2605 I.D.,1.970 Length,0.4755 O.D.
	Exh	1984-85	140-7710	0.2765 I.D.,2.168 Length,0.4755 O.D.
Head Saver Shim		1984-85	230-2038	New Hgt. 3.565 - 3.575; Min. Hgt. - 3.550

(Cont'd) HONDA / PASSENGER CAR OR TRUCK**1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, ET2**
1984-86 L4 112 CID**ET2 51**
BORE - 80.7mm/3.18"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1984-86	SB1312-56	1 $\frac{5}{16}$ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int 1984-86	10192	1.180 Head Diameter
	Exh 1984-86	10193	1.376 Head Diameter
Keeper	Int 1984-86	121-1054	1 RD Bead Type
Stem Seal	Both 1984-86	122-1136	Positive Type, Viton Material, Ring & Spring Style
Guide	Int 1984-86	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh 1984-86	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.
Head Saver Shim	1984-85	230-2038	New Hgt. 3.565 - 3.575; Min. Hgt. - 3.550

1829cc, (1.8L), SOHC, GAS, CARB, 12 Valve, A18A1
1987-87 L4 112 CID**A18A1 52**
BORE - 80.7mm/3.18"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1987-87	SB1312-56	1 $\frac{5}{16}$ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int 1987-87	10192	1.180 Head Diameter
	Exh 1987-87	10193	1.376 Head Diameter
Keeper	Int 1987-87	121-1054	1 RD Bead Type
Stem Seal	Both 1987-87	122-1136	Positive Type, Viton Material, Ring & Spring Style
Guide	Int 1987-87	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh 1987-87	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.

1955cc, (2.0L), SOHC, GAS, CARB, 12 Valve, A20A1
1987-89 L4 119 CID**A20A1 53**
BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1987-89	SB1312-56	1 $\frac{5}{16}$ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int 1987-89	10192	1.180 Head Diameter
	Exh 1987-89	10193	1.376 Head Diameter
Keeper	Int 1987-89	121-1054	1 RD Bead Type
Stem Seal	Both 1987-89	122-1136	Positive Type, Viton Material, Ring & Spring Style, For 1987 Fits Intake Only, For 1988-89 Fits Both
Guide	Int 1987-89	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh 1987-89	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.
Head Saver Shim	1987-89	230-2039	New Hgt. - 3.543 - Min. Hgt. - 3.535

1955cc, (2.0L), SOHC, GAS, FI, 12 Valve, A20A3
1987-89 L4 119 CID**A20A3 54**
BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1987-89	SB1312-56	1 $\frac{5}{16}$ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int 1987-89	10192	1.180 Head Diameter
	Exh 1987-89	10193	1.376 Head Diameter
Keeper	Int 1987-89	121-1054	1 RD Bead Type
Stem Seal	Both 1987-89	122-1136	Positive Type, Viton Material, Ring & Spring Style
Guide	Int 1987-89	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh 1987-89	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.
Head Saver Shim	1987-89	230-2039	New Hgt. - 3.543 - Min. Hgt. - 3.535

1955cc, (2.0L), SOHC, GAS, CARB, FI, 12 Valve, BS
1986-86 L4 119 CID**BS 55**
BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1986-86	SB1312-56	1 $\frac{5}{16}$ O.D., 1.086 I.D., 0.3050 Depth

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

55 1955cc, (2.0L), SOHC, GAS, CARB, FI, 12 Valve, BS BS
 (cont.) 1986-86 L4 119 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1986-86	10192	1.180 Head Diameter
	Exh	1986-86	10193	1.376 Head Diameter
Keeper	Int	1986-86	121-1054	1 RD Bead Type
Stem Seal	Both	1986-86	122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1986-86	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh	1986-86	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.
Head Saver Shim		1986-86	230-2039	New Hgt. - 3.543 - Min. Hgt. - 3.535

56 1955cc, (2.0L), SOHC, GAS, FI, 12 Valve, BT BT
 1986-86 L4 119 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-86	SB1312-56	1 ⁵ / ₁₆ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int	1986-86	10192	1.180 Head Diameter
	Exh	1986-86	10193	1.376 Head Diameter
Keeper	Int	1986-86	121-1054	1 RD Bead Type
Stem Seal	Both	1986-86	122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1986-86	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh	1986-86	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.
Head Saver Shim		1986-86	230-2039	New Hgt. - 3.543 - Min. Hgt. - 3.535

57 1958cc, (2.0L), SOHC, GAS, CARB, 12 Valve, B20A3 B20A3
 1988-90 L4 120 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-90	SB1312-56	1 ⁵ / ₁₆ O.D., 1.086 I.D., 0.3050 Depth
Valve	Int	1988-90	10192	1.180 Head Diameter
	Exh	1988-90	10193	1.376 Head Diameter
Keeper	Int	1988-90	121-1054	1 RD Bead Type
Stem Seal	Both	1988-90	122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1988-90	140-7830	0.2605 I.D., 1.970 Length, 0.4755 O.D.
	Exh	1988-90	140-7710	0.2765 I.D., 2.168 Length, 0.4755 O.D.

58 1958cc, (2.0L), DOHC, GAS, FI, 16 Valve, B20A5 B20A5
 1988-91 L4 119 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-91	SB1375-55	1 ³ / ₈ O.D., 1.120 I.D., 0.3250 Depth
	Exh	1988-91	SB1250-63	1 ¹ / ₄ O.D., 0.930 I.D., 0.3250 Depth
Valve	Int	1988-91	10195	1.299 Head Diameter
	Exh	1988-91	10196	1.102 Head Diameter
Keeper	Both	1988-91	121-1054	1 RD Bead Type
Stem Seal	Both	1988-91	122-1136	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1988-91	140-8156	0.2605 I.D., 1.770 Length, 0.4765 O.D.
	Exh	1988-91	140-8155	0.2605 I.D., 1.975 Length, 0.4765 O.D.

59 1972cc, (2.0L), DOHC, GAS, FI, 16 Valve, B20B4 B20B4
 1997-98 L4 121 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1997-98	10742	1.224 Head Diameter
	Exh	1997-98	10196	1.102 Head Diameter
Keeper	Both	1997-98	121-1054	1 RD Bead Type

(Cont'd) HONDA / PASSENGER CAR OR TRUCK

1972cc, (2.0L), DOHC, GAS, FI, 16 Valve, B20B4 **B20B4 59**
 1997-98 L4 121 CID BORE - 84mm/3.31" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1997-98	122-1152	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1997-98	140-8156	0.2605 I.D.,1.770 Length,0.4765 O.D.
	Exh	1997-98	140-8155	0.2605 I.D.,1.975 Length,0.4765 O.D.

1972cc, (2.0L), DOHC, GAS, FI, 16 Valve, B20Z2 **B20Z2 60**
 1999-01 L4 121 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1999-01	SB1250-59	1/4 O.D.,0.982 I.D.,0.3290 Depth,Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1999-01	10742	1.224 Head Diameter
	Exh	1999-01	10196	1.102 Head Diameter
Keeper	Both	1999-01	121-1054	1 RD Bead Type
Stem Seal	Both	1999-01	122-1152	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-01	140-8156	0.2605 I.D.,1.770 Length,0.4765 O.D.
	Exh	1999-01	140-8155	0.2605 I.D.,1.975 Length,0.4765 O.D.

1993cc, (2.0L), DOHC, ELECTRIC/GAS, FI, 16 Valve, LFA1 Hybrid **LFA1 61**
 2014-17 L4 122 CID BORE - 81mm/3.189"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-15	121-1060	1 RD Bead Type
Stem Seal	Int	2014-15	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2014-15	122-1202	Positive Type,Viton Material,Metal Clad Style

1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, F20C1 **F20C1 62**
 2000-03 L4 122 CID BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2000-03	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2000-03	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2000-03	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20A3 **K20A3 63**
 2002-05 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2002-05	13172	1.378 Head Diameter
	Exh	2002-05	13173	1.181 Head Diameter,Inconel
Keeper	Both	2002-05	121-1060	1 RD Bead Type
Stem Seal	Int	2002-05	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2002-05	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-05	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2002-05	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, K20Z3 **K20Z3 64**
 2006-11 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2006-11	121-1060	1 RD Bead Type
Stem Seal	Int	2006-11	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2006-11	122-1202	Positive Type,Viton Material,Metal Clad Style

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

65 2056cc, (2.1L), DOHC, GAS, FI, 16 Valve, B21A1
1990-91 L4 125 CID

B21A1
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-91	SB1375-55	1 $\frac{3}{8}$ O.D., 1.120 I.D., 0.3250 Depth
	Exh	1990-91	SB1250-63	1 $\frac{1}{4}$ O.D., 0.930 I.D., 0.3250 Depth
Valve	Int	1990-91	10195	1.299 Head Diameter
	Exh	1990-91	10414	1.102 Head Diameter
Keeper	Both	1990-91	121-1054	1 RD Bead Type
Stem Seal	Both	1990-91	122-1136	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1990-91	140-8156	0.2605 I.D., 1.770 Length, 0.4765 O.D.
	Exh	1990-91	140-8155	0.2605 I.D., 1.975 Length, 0.4765 O.D.

66 2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22A1, F22A4, F22A6
1990-96 L4 134 CID

F22A
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-96	SB1375-65	1 $\frac{3}{8}$ O.D., 1.165 I.D., 0.3100 Depth
	Exh	1990-96	SB1250-64	1 $\frac{1}{4}$ O.D., 0.970 I.D., 0.2700 Depth
Valve	Int	1990-96	10197A	1.339 Head Diameter, Nitride
	Exh	1990-96	10198A	1.142 Head Diameter, Stellite Face, Nitride
Keeper	Both	1990-96	121-1060	1 RD Bead Type
Stem Seal	Int	1990-96	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1990-96	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1990-96	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	1990-96	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.
Head Saver Shim		1990-96	230-2122	New Hgt. 3.9291 - 3.9389; Min. Hgt. 3.919

67 2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B1
1994-97 L4 132 CID

F22B1
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-97	SB1375-55	1 $\frac{3}{8}$ O.D., 1.120 I.D., 0.3250 Depth
	Exh	1994-97	SB1250-64	1 $\frac{1}{4}$ O.D., 0.970 I.D., 0.2700 Depth
Valve	Int	1994-97	10541	1.339 Head Diameter
	Exh	1994-97	10542	1.142 Head Diameter, Inconel
Keeper	Both	1994-97	121-1060	1 RD Bead Type
Stem Seal	Int	1994-97	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1994-97	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1994-97	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	1994-97	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.
Spring	Int	1994-97	160-1393	2.020 Length
	Exh	1994-97	160-1394	2.185 Length
Head Saver Shim		1994-97	230-2163	New Hgt. 3.935 - 3.939; Min. Hgt. - 3.932

68 2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B2
1994-97 L4 132 CID

F22B2
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-97	SB1375-55	1 $\frac{3}{8}$ O.D., 1.120 I.D., 0.3250 Depth
	Exh	1994-97	SB1250-64	1 $\frac{1}{4}$ O.D., 0.970 I.D., 0.2700 Depth
Valve	Int	1994-97	10432	1.260 Head Diameter
	Exh	1994-97	10198A	1.142 Head Diameter, Stellite Face, Nitride
Keeper	Both	1994-97	121-1060	1 RD Bead Type
Stem Seal	Int	1994-97	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1994-97	122-1202	Positive Type, Viton Material, Metal Clad Style

(Cont'd) **HONDA / PASSENGER CAR OR TRUCK**

2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B2
1994-97 L4 132 CID

F22B2 **68**
BORE - 85mm/3.35" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Int	1994-97	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1994-97	
Head Saver Shim	1994-97	230-2163	New Hgt. 3.935 - 3.939; Min. Hgt. - 3.932

2156cc, (2.2L), SOHC, GAS, FI, 16 Valve, F22B6
1995-97 L4 132 CID

F22B6 **69**
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1995-97	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
	Exh	1995-97	
Valve	Int	1995-97	1.260 Head Diameter
	Exh	1995-97	
Keeper	Both	1995-97	1 RD Bead Type
Stem Seal	Int	1995-97	Positive Type,Viton Material,Metal Clad Style
	Exh	1995-97	
Guide	Int	1995-97	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1995-97	
Head Saver Shim	1995-97	230-2163	New Hgt. 3.935 - 3.939; Min. Hgt. - 3.932

2156cc, (2.2L), DOHC, GAS, FI, 16 Valve, H22A1
1993-96 L4 132 CID

H22A1 **70**
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-96	1 $\frac{3}{8}$ O.D.,1.165 I.D.,0.3100 Depth
	Exh	1993-96	
Valve	Int	1993-96	1.378 Head Diameter
	Exh	1993-96	
Stem Seal	Int	1993-96	Positive Type,Viton Material,Metal Clad Style
	Exh	1993-96	
Guide	Int	1993-96	0.2170 I.D.,1.715 Length,0.4765 O.D.
	Exh	1993-96	

2156cc, (2.2L), DOHC, GAS, FI, 16 Valve, H22A4
1997-01 L4 132 CID

H22A4 **71**
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1997-01	1 $\frac{3}{8}$ O.D.,1.165 I.D.,0.3100 Depth
	Exh	1997-01	
Valve	Int	1997-01	1.378 Head Diameter
	Exh	1997-01	
Keeper	Both	1997-01	1 RD Bead Type
Stem Seal	Int	1997-01	Positive Type,Viton Material,Metal Clad Style
	Exh	1997-01	
Guide	Int	1997-01	0.2170 I.D.,1.715 Length,0.4765 O.D.
	Exh	1997-01	

2157cc, (2.2L), DOHC, GAS, FI, 16 Valve, F22C1
2005-09 L4 132 CID

F22C1 **72**
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES
Stem Seal	Int	2005-09	Positive Type,Viton Material,Metal Clad Style
	Exh	2005-09	
Guide	Both	2005-09	0.2173 I.D.,1.630 Length,0.4370 O.D.

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

73 2254cc, (2.3L), SOHC, GAS, FI, 16 Valve, F23A1, F23A4, F23A5, F23A7 F23A
 1998-02 L4 138 CID BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve	Int	1998-02	10541	1.339 Head Diameter
	Exh	1998-02	10542	1.142 Head Diameter, Inconel
Keeper	Both	1998-02	121-1060	1 RD Bead Type
Stem Seal	Int	1998-02	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1998-02	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1998-02	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh	1998-02	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.
Spring	Int	1998-02	160-1402	2.011 Length
	Exh	1998-02	160-1403	2.180 Length
Head Saver Shim		1998-02	230-2163	New Hgt. 3.935 - 3.939; Min. Hgt. - 3.932

74 2259cc, (2.3L), DOHC, GAS, FI, 16 Valve, H23A1 H23A1
 1992-96 L4 138 CID BORE - 89.3mm/3.52"

PART		YEARS	PART NO.	NOTES
Valve	Int	1992-96	10206	1.339 Head Diameter
	Exh	1992-96	10207	1.142 Head Diameter
Keeper	Both	1992-96	121-1054	1 RD Bead Type
Stem Seal	Both	1992-96	122-1152	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1992-96	140-8580	0.2605 I.D., 1.535 Length, 0.4765 O.D.
	Exh	1992-96	140-8581	0.2605 I.D., 1.695 Length, 0.4765 O.D.
Spring	Both	1992-96	160-1241	1.882 Length

75 2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A1 K24A1
 2002-06 L4 144 CID BORE - 87mm/3.43"

PART		YEARS	PART NO.	NOTES
Valve	Int	2002-06	13172	1.378 Head Diameter
	Exh	2002-06	13173	1.181 Head Diameter, Inconel
Keeper	Both	2002-06	121-1060	1 RD Bead Type
Stem Seal	Int	2002-06	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	2002-06	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2002-06	140-3136	0.2173 I.D., 1.630 Length, 0.4370 O.D.
	Exh	2002-06	140-3137	0.2173 I.D., 1.790 Length, 0.4370 O.D.

76 2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A4 K24A4
 2003-06 L4 144 CID BORE - 87mm/3.43"

PART		YEARS	PART NO.	NOTES
Valve	Int	2003-06	13172	1.378 Head Diameter
	Exh	2003-06	13173	1.181 Head Diameter, Inconel
Keeper	Both	2003-06	121-1060	1 RD Bead Type
Stem Seal	Int	2003-06	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	2003-06	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2003-06	140-3136	0.2173 I.D., 1.630 Length, 0.4370 O.D.
	Exh	2003-06	140-3137	0.2173 I.D., 1.790 Length, 0.4370 O.D.

77 2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A8 K24A8
 2006-11 L4 144 CID BORE - 87mm/3.43"

PART		YEARS	PART NO.	NOTES
Valve	Int	2006-11	13172	1.378 Head Diameter
	Exh	2006-11	13173	1.181 Head Diameter, Inconel
Keeper	Both	2006-11	121-1060	1 RD Bead Type

(Cont'd) HONDA / PASSENGER CAR OR TRUCK**2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24A8**
2006-11 L4 144 CIDK24A8 **77**
BORE - 87mm/3.43" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2006-11	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2006-11	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2006-11	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2006-11	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Y2
2012-15 L4 144 CIDK24Y2 **78**
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2012-15	13358	1.417 Head Diameter
	Exh	2012-15	13359	1.220 Head Diameter,Inconel
Keeper	Both	2012-15	121-1060	1 RD Bead Type
Stem Seal	Int	2012-15	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2012-15	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2012-15	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2012-15	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z1
2007-09 L4 144 CIDK24Z1 **79**
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-09	13172	1.378 Head Diameter
	Exh	2007-09	13173	1.181 Head Diameter,Inconel
Keeper	Both	2007-09	121-1060	1 RD Bead Type
Stem Seal	Int	2007-09	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2007-09	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2007-09	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2007-09	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z2
2008-12 L4 144 CIDK24Z2 **80**
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-12	13358	1.417 Head Diameter
	Exh	2008-12	13359	1.220 Head Diameter,Inconel
Keeper	Both	2008-12	121-1060	1 RD Bead Type
Stem Seal	Int	2008-12	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-12	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2008-12	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2008-12	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z3
2008-12 L4 144 CIDK24Z3 **81**
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-12	13358	1.417 Head Diameter
	Exh	2008-12	13359	1.220 Head Diameter,Inconel
Keeper	Both	2008-12	121-1060	1 RD Bead Type
Stem Seal	Int	2008-12	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-12	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2008-12	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2008-12	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

82 2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z6
2010-11 L4 144 CID

K24Z6
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-10	13172	1.378 Head Diameter
		2011-11	13358	1.417 Head Diameter
	Exh	2010-10	13173	1.181 Head Diameter,Inconel
		2011-11	13359	1.220 Head Diameter,Inconel
Keeper	Both	2010-11	121-1060	1 RD Bead Type
Stem Seal	Int	2010-11	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2010-11	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2010-11	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2010-11	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

83 2354cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24Z7
2012-15 L4 144 CID

K24Z7
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2012-15	13358	1.417 Head Diameter
	Exh	2012-15	13359	1.220 Head Diameter,Inconel
Keeper	Both	2012-15	121-1060	1 RD Bead Type
Stem Seal	Int	2012-15	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2012-15	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2012-15	140-3136	0.2173 I.D.,1.630 Length,0.4370 O.D.
	Exh	2012-15	140-3137	0.2173 I.D.,1.790 Length,0.4370 O.D.

84 2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24W1
2013-17 L4 144 CID

K24W1
BORE - 87mm/3.42"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2013-16	121-1060	1 RD Bead Type
Stem Seal	Int	2013-16	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2013-16	122-1202	Positive Type,Viton Material,Metal Clad Style

85 2356cc, (2.4L), DOHC, GAS, FI, 16 Valve, K24W9
2015-17 L4 144 CID

K24W9
BORE - 87mm/3.42"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-16	121-1060	1 RD Bead Type
Stem Seal	Int	2015-16	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2015-16	122-1202	Positive Type,Viton Material,Metal Clad Style

86 2559cc, (2.6L), SOHC, GAS, FI, 8 Valve, 4ZE1 "Isuzu"
1994-96 L4 156 CID

HON4ZE1
BORE - 92.6mm/3.65"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-96	SB1812-51	1 ¹³ / ₁₆ O.D.,1.530T I.D.,0.3070 Depth
	Exh	1994-96	SB1625-54	1 ⁵ / ₈ O.D.,1.329 I.D.,0.2800 Depth
Valve	Int	1994-96	10219	1.736 Head Diameter
	Exh	1994-96	10221S	1.453 Head Diameter,Stellite Face
Keeper	Both	1994-96	121-1047	1 SQ Bead Type
Stem Seal	Both	1994-96	122-1119	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1994-96	140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
	Exh	1994-96	140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available
Spring	Both	1994-96	160-1247	1.900 Length
Head Saver Shim		1994-96	230-2041	New Hgt.- 3.6673 - 3.6712; Min. Hgt.- 3.6513

(Cont'd) HONDA / PASSENGER CAR OR TRUCK**2675cc, (2.7L), SOHC, GAS, FI, 24 Valve, C27A4**
1995-97 V6 163 CID**C27A4 87**
BORE - 87mm/3.43"

PART		YEARS	PART NO.	NOTES
Valve	Int	1995-97	10195	1.299 Head Diameter
	Exh	1995-95	10123	1.084 Head Diameter,4.204 Overall Length
Keeper	Both	1995-97	121-1054	1 RD Bead Type
Stem Seal	Both	1995-97	122-1152	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1995-97	140-8156	0.2605 I.D.,1.770 Length,0.4765 O.D.

2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A1
1998-02 V6 183 CID**J30A1 88**
BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve	Int	1998-02	10541	1.339 Head Diameter
	Exh	1998-02	10542	1.142 Head Diameter,Inconel
Keeper	Both	1998-02	121-1060	1 RD Bead Type
Stem Seal	Int	1998-02	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1998-02	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1998-02	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1998-02	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Head Saver Shim		1997-99	230-2170	New Hgt. - 4.762 - 4.766; Min. Hgt. - N/A

2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A4
2003-05 V6 183 CID**J30A4 89**
BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve	Int	2003-05	10778	1.378 Head Diameter
	Exh	2003-05	10779	1.181 Head Diameter
Keeper	Both	2003-05	121-1060	1 RD Bead Type
Stem Seal	Int	2003-05	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2003-05	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2003-05	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2003-05	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

2997cc, (3.0L), SOHC, GAS, FI, 24 Valve, J30A5
2006-07 V6 183 CID**J30A5 90**
BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve	Int	2006-07	10778	1.378 Head Diameter
	Exh	2006-07	10779	1.181 Head Diameter
Keeper	Both	2006-07	121-1060	1 RD Bead Type
Stem Seal	Int	2006-07	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2006-07	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2006-07	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2006-07	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

2997cc, (3.0L), SOHC, ELECTRIC/GAS, FI, 24 Valve, JNA1
2005-07 V6 183 CID**JNA1 91**
BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2005-07	121-1060	1 RD Bead Type
Stem Seal	Int	2005-07	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2005-07	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2005-07	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2005-07	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

92 3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, 6VD1 "Isuzu"
1994-97 V6 193 CID

HON6VD1
BORE - 91.4mm/3.60"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1994-97	SB1437-67	1 $\frac{7}{16}$ O.D., 1.180T I.D., 0.2550 Depth
Valve	Int 1994-97	10502	1.339 Head Diameter
	Exh 1994-97	10503	1.181 Head Diameter
Keeper	Both 1994-97	121-1074	1 RD Bead Type
Stem Seal	Both 1994-97	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both 1994-97	140-8255	0.2345 I.D., 1.775 Length, 0.4355 O.D., I.D. Must Be Reamed To Size
Spring	Both 1994-97	160-1372	1.970 Length
Lifter	Both 1994-97	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim	1994-97	230-2094	New Hgt. - 4.126, 2 Required

93 3165cc, (3.2L), DOHC, GAS, FI, 24 Valve, 6VD1W "Isuzu"
1998-02 V6 193 CID

HON6VD1W
BORE - 93.4mm/3.68"

PART	YEARS	PART NO.	NOTES
Valve	Int 1998-02	10739	1.338 Head Diameter
	Exh 1998-02	10740	1.142 Head Diameter
Keeper	Both 1998-02	121-1074	1 RD Bead Type
Guide	Both 1998-02	140-8255	0.2345 I.D., 1.775 Length, 0.4355 O.D., I.D. Must Be Reamed To Size

94 3474cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A1
1999-01 V6 212 CID

J35A1
BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Valve	Int 1999-01	10541	1.339 Head Diameter
	Exh 1999-01	10542	1.142 Head Diameter, Inconel
Keeper	Both 1999-01	121-1060	1 RD Bead Type
Stem Seal	Int 1999-01	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh 1999-01	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int 1999-01	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh 1999-01	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.
Head Saver Shim	1999-01	230-2171	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

95 3474cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A4
2002-04 V6 212 CID

J35A4
BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Valve	Int 2002-04	10778	1.378 Head Diameter
	Exh 2002-04	10779	1.181 Head Diameter
Keeper	Both 2002-04	121-1060	1 RD Bead Type
Stem Seal	Int 2002-04	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh 2002-04	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int 2002-04	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh 2002-04	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.
Head Saver Shim	2002-04	230-2171	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

96 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A6
2005-10 V6 212 CID

J35A6
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int 2005-10	10778	1.378 Head Diameter
	2009-10	13336	1.417 Head Diameter, W/ Variable Cyl. System

(Cont'd) HONDA / PASSENGER CAR OR TRUCK**3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A6**
2005-10 V6 212 CIDJ35A6 **96**
BORE - 89mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES
Valve	Exh 2005-10	10779	1.181 Head Diameter
Keeper	Both 2005-10	121-1060	1 RD Bead Type
Stem Seal	Int 2005-10	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh 2005-10	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int 2005-10	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh 2005-10	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.
Head Saver Shim	2005-10	230-2172	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A7
2005-10 V6 212 CIDJ35A7 **97**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int 2005-10	10778	1.378 Head Diameter
	2009-10	13336	1.417 Head Diameter, W/ Variable Cyl. System
	Exh 2005-10	10779	1.181 Head Diameter
Keeper	Both 2005-10	121-1060	1 RD Bead Type
Stem Seal	Int 2005-10	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh 2005-10	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int 2005-10	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh 2005-10	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A8
2011-14 V6 212 CIDJ35A8 **98**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int 2011-14	13336	1.417 Head Diameter
	Exh 2011-14	10779	1.181 Head Diameter
Keeper	Both 2011-14	121-1060	1 RD Bead Type
Stem Seal	Int 2011-14	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh 2011-14	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int 2011-14	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh 2011-14	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35A9
2006-08 V6 212 CIDJ35A9 **99**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int 2006-08	10778	1.378 Head Diameter
	Exh 2006-08	10779	1.181 Head Diameter
Keeper	Both 2006-08	121-1060	1 RD Bead Type
Stem Seal	Int 2006-08	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh 2006-08	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Int 2006-08	140-8158	0.2173 I.D., 1.875 Length, 0.4358 O.D., W/ Snap Ring
	Exh 2006-08	140-8157	0.2173 I.D., 2.130 Length, 0.4358 O.D.
Head Saver Shim	2006-08	230-2172	New Hgt. - 4.762 - 4.766; Min. Hgt. - 4.758

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y1
2013-17 V6 212 CIDJ35Y1 **100**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int 2013-16	13336	1.417 Head Diameter
	Exh 2013-16	10779	1.181 Head Diameter
Keeper	Both 2013-16	121-1060	1 RD Bead Type
Stem Seal	Int 2013-16	122-1201	Positive Type, Viton Material, Metal Clad Style

HONDA / PASSENGER CAR OR TRUCK (Cont'd)

100 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y1 J35Y1
 (cont.) 2013-17 V6 212 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Stem Seal	Exh 2013-16	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2013-16	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2013-16	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

101 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y2 J35Y2
 2014-17 V6 212 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int 2014-16	13336	1.417 Head Diameter
	Exh 2014-16	10779	1.181 Head Diameter
Keeper	Both 2014-16	121-1060	1 RD Bead Type
Stem Seal	Int 2014-16	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2014-16	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2014-16	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2014-16	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

102 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Y6 J35Y6
 2016-17 V6 212 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Exh 2016-16	10779	1.181 Head Diameter
Keeper	Both 2016-16	121-1060	1 RD Bead Type
Stem Seal	Int 2016-16	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2016-16	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2016-16	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2016-16	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

103 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z1 J35Z1
 2006-08 V6 212 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int 2006-08	10778	1.378 Head Diameter
	Exh 2006-08	10779	1.181 Head Diameter
Keeper	Both 2006-08	121-1060	1 RD Bead Type
Stem Seal	Int 2006-08	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2006-08	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2006-08	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh 2006-08	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

104 3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z2 J35Z2
 2008-13 V6 212 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int 2008-13	13336	1.417 Head Diameter
	Exh 2008-13	10779	1.181 Head Diameter
Keeper	Both 2008-13	121-1060	1 RD Bead Type
Stem Seal	Int 2008-13	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh 2008-13	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Exh 2008-13	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
	2008-13	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring

(Cont'd) **HONDA / PASSENGER CAR OR TRUCK**

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z3
2008-12 V6 212 CID

J35Z3 105
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-12	13336	1.417 Head Diameter
	Exh	2008-12	10779	1.181 Head Diameter
Keeper	Both	2008-12	121-1060	1 RD Bead Type
Stem Seal	Int	2008-12	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-12	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2008-12	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2008-12	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z4
2009-15 V6 212 CID

J35Z4 106
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-15	13336	1.417 Head Diameter
	Exh	2009-15	10779	1.181 Head Diameter
Keeper	Both	2009-15	121-1060	1 RD Bead Type
Stem Seal	Int	2009-15	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2009-15	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2009-15	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2009-15	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z5
2009-14 V6 212 CID

J35Z5 107
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-14	13336	1.417 Head Diameter
	Exh	2009-14	10779	1.181 Head Diameter
Keeper	Both	2009-14	121-1060	1 RD Bead Type
Stem Seal	Int	2009-14	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2009-14	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2009-14	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2009-14	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

3471cc, (3.5L), SOHC, GAS, FI, 24 Valve, J35Z8
2014-17 V6 212 CID

J35Z8 108
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2014-16	13336	1.417 Head Diameter
	Exh	2014-16	10779	1.181 Head Diameter
Keeper	Both	2014-16	121-1060	1 RD Bead Type
Stem Seal	Int	2014-16	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	2014-16	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2014-16	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	2014-16	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.

HYUNDAI / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1468cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin J, "G4AJ Mitsubishi" (1986-89)	Excel	1
1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin J, "G4DJ Mitsubishi" (1990-94)	Excel, Scoupe	2

HYUNDAI / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1495cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin G, N, "G4EK Alpha" (1993-02)	Accent, Scoupe Turbo	3
1495cc, (1.5L), DOHC, GAS, FI, 16 Valve, Vin N "G4FK Alpha" (1996-97)	Accent	4
1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin D, E "G4FD Gamma GDi Direct Injected" (2012-17)	Accent, Veloster	5
1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 2, A, B, E "G4FJ Gamma GDi Direct Injected Turbo" (2013-17)	Elantra, Sonata, Tucson, Veloster	6
1596cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin R "G4GR Mitsubishi" (1992-95)	Elantra	7
1599cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin C "G4ED Alpha II" (2001-11)	Accent	8
1795cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin M, "G4GM Beta I" (1996-98)	Elantra, Tiburon	9
1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin E "G4NB Nu MPI" (2011-16)	Elantra, Elantra Coupe, Elantra GT	10
1836cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin M "G4CN Sirius I" "4G67 Mitsubishi" (1993-95)	Elantra	11
1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, G4GF "Beta I" (1997-01)	1997-00 Elantra, 1997-01 Tiburon	12
1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, D, E "G4GC Beta II" (2001-13)	Elantra, Tiburon, Tucson	13
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, "G4CP Sirius I" "4G63 Mitsubishi" (1992-98)	Sonata	14
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin D "G4KF Theta MPI Turbo" (2010-14)	Genesis Coupe Turbo	15
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, B "G4KH Theta II GDi Turbo Direct Injected" (2011-16)	Santa Fe, Sonata	16
1999cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 4, F, H "G4NC Nu GDi" (2014-17)	Elantra, Elantra Coupe, Elantra GT, Tucson	17
2351cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin S, "G4CS Sirius I" "4G64 Mitsubishi" (1989-91)	Sonata	18
2351cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin S "G4JS Sirius II" "4G64 Mitsubishi" (1999-06)	Santa Fe, Sonata	19
2359cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 4, "G4KK Theta II Hybrid" (2011-15)	Sonata	20
2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin B, C "G4KE Theta II" (2006-16)	Santa Fe, Sonata, Tucson	21
2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin C, F, G "G4KJ Theta II GDi Direct Injected" (2014-16)	Sonata, Tucson	22
6 Cylinder		
2493cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, "G6BV Delta" (1999-01)	Sonata	23
2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin D, F "G6BA Delta" (2001-09)	Santa Fe, Sonata, Tiburon, Tucson	24
2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin D "G6EA Mu" (2007-09)	Santa Fe	25
2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin T, "G6AT Sigma" (1990-98)	Sonata	26
2972cc, (3.0L), SOHC, GAS, FI, 24 Valve, "XG300 Sigma" (2001-01)	XG300	27

(Cont'd) **HYUNDAI / PASSENGER CAR OR TRUCK**

Engine	Models	Line No.
6 Cylinder		
3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin D, E, F "G6DB Lambda/Lambda II MPI" (2006-11)	Azera, Santa Fe, Sonata	28
3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin F, G "G6DH Lamda II GDi Direct Injected" (2012-16)	Azera, Santa Fe, Santa Fe XL	29
3470cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin G "G6DB Lambda II" (2010-10)	Santa Fe	30
3470cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin G "G6DC Lambda II" (2010-12)	Santa Fe	31
3467cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin E "G6AU Sigma" (2002-06)	Santa Fe, XG350	32
3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin 3, C, E, F, H "G6DA Lambda MPI" (2006-12)	Azera, Entourage, Genesis, Genesis Coupe, Veracruz	33
3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin D, E, J "G6DJ Lamda II GDi Direct Injected" (2012-16)	Genesis, Genesis Coupe	34

1468cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin J, "G4AJ Mitsubishi" HYU1.5-G4AJ 1
1986-89 L4 90 CID BORE - 75.5mm/2.97"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1986-89	SB1312-53	1 $\frac{5}{16}$ O.D.,0.980T I.D.,0.2930 Depth
Keeper	Both	1986-89	121-1031	1 RD Bead Type
Stem Seal	Both	1986-89	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1986-89	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin J, "G4DJ Mitsubishi" HYU1.5-G4DJ 2
1990-94 L4 90 CID BORE - 75.5mm/2.97"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1990-94	121-1031	1 RD Bead Type
Stem Seal	Both	1990-94	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1990-94	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

1495cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin G, N, "G4EK Alpha" HYU1.5-G4EK 3
1993-02 L4 91 CID BORE - 75.5mm/2.97"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1993-02	SB1125-53	1 $\frac{1}{8}$ O.D.,0.890T I.D.,0.2370 Depth
	Exh	1993-02	SB1375-63	1 $\frac{3}{8}$ O.D.,1.057T I.D.,0.2400 Depth
Valve	Int	1993-02	10547	1.079 Head Diameter,3.906 Overall Length, Incl. Turbo
	Exh	1993-94	10548	1.260 Head Diameter,3.906 Overall Length, Incl. Turbo
		1995-02	10549	1.260 Head Diameter,3.870 Overall Length, Incl. Turbo
Keeper	Both	1993-02	121-1102	1 RD Bead Type
Stem Seal	Both	1993-02	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1993-02	140-8572	0.2360 I.D.,1.690 Length,0.4360 O.D.
	Exh	1993-02	140-8573	0.2360 I.D.,1.540 Length,0.4358 O.D.

1495cc, (1.5L), DOHC, GAS, FI, 16 Valve, Vin N "G4FK Alpha" HYU1.5-G4FK 4
1996-97 L4 91 CID BORE - 75.5mm/2.97"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1996-97	10812	1.110 Head Diameter
	Exh	1996-97	10813	0.984 Head Diameter
Stem Seal	Both	1996-97	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1996-97	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.

HYUNDAI / PASSENGER CAR OR TRUCK (Cont'd)

5 1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin D, E "G4FD Gamma GDi Direct Injected" HYU1.6-G4FD
 2012-17 L4 97 CID BORE - 77mm/3.03"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2012-16	121-1060	1 RD Bead Type

6 1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 2, A, B, E "G4FJ Gamma GDi Direct Injected Turbo" HYU1.6-G4FJ
 2013-17 L4 97 CID BORE - 77mm/3.03"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2013-16	121-1060	1 RD Bead Type

7 1596cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin R "G4GR Mitsubishi" HYU1.6-G4GR
 1992-95 L4 97 CID BORE - 75.5mm/2.97"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-95	SB1437-68	1 ⁷ / ₁₆ O.D., 1.135T I.D., 0.3160 Depth
	Exh	1992-95	SB1312-64	1 ⁵ / ₁₆ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1992-95	10126A	1.339 Head Diameter, Nitride
		1992-95	10126R	1.378 Head Diameter, Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1992-95	10128A	1.201 Head Diameter, Nitride
		1992-95	10128R	1.221 Head Diameter, Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1992-95	121-1031	1 RD Bead Type
Stem Seal	Both	1992-95	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1992-95	140-8193	0.2600 I.D., 1.795 Length, 0.4755 O.D., +2 O/S Available
		1992-95	340-1013BR	0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide
	Exh	1992-95	140-8194	0.2600 I.D., 1.990 Length, 0.4755 O.D., +2 O/S Available
		1992-95	340-1014BR	0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide
Lifter	Both	1992-95	VL135	Hydraulic Lash Adjuster Type
Head Saver Shim		1992-95	230-2001	New Hgt. - 5.1968 - 5.2000; Min. Hgt. - 5.1880

8 1599cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin C "G4ED Alpha II" HYU1.6-G4ED
 2001-11 L4 98 CID BORE - 76.5mm/3.01"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-11	13047	1.146 Head Diameter
	Exh	2001-11	10813	0.984 Head Diameter
Keeper	Both	2001-11	121-1102	1 RD Bead Type
Stem Seal	Both	2001-11	122-1366	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2001-11	140-8147	0.2370 I.D., 1.520 Length, 0.4360 O.D.
Lifter	Both	2001-11	VL568	Hydraulic Bucket Type
Head Saver Shim		2001-11	230-2190	New Hgt. - 2.496; Min. Htg. - N/A

9 1795cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin M, "G4GM Beta I" HYU1.8-G4GM
 1996-98 L4 109 CID BORE - 81.5mm/3.21"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1996-98	10723	1.257 Head Diameter
	Exh	1996-98	10724	1.081 Head Diameter
Keeper	Both	1996-98	121-1102	1 RD Bead Type
Stem Seal	Both	1996-98	122-1366	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1996-98	140-8554	0.2355 I.D., 1.790 Length, 0.4360 O.D.
	Exh	1996-98	140-8571	0.2360 I.D., 1.990 Length, 0.4360 O.D.
Lifter	Both	1996-98	VL564	Hydraulic Bucket Type

(Cont'd) HYUNDAI / PASSENGER CAR OR TRUCK

1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin E "G4NB Nu MPi" HYU1.8-G4NB **10**
 2011-16 L4 110 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2011-16 121-1060	1 RD Bead Type
Stem Seal	Both	2011-16 122-1440	Positive Type,Viton Material,Top Hat Style

1836cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin M "G4CN Sirius I" "4G67" **11**
 Mitsubishi" HYU1.8-G4CN
 1993-95 L4 112 CID BORE - 81.5mm/3.21"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1993-95 1993-95	SB1437-68 SB1312-64	17/16 O.D.,1.135T I.D.,0.3160 Depth 15/16 O.D.,1.045 I.D.,0.3160 Depth
Valve	Int Exh	1993-95 1993-95 1993-95 1993-95	10126A 10126R 10128A 10128R	1.339 Head Diameter,Nitride 1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter 1.201 Head Diameter,Nitride 1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1993-95	121-1031	1 RD Bead Type
Stem Seal	Both	1993-95	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	1993-95 1993-95 1993-95 1993-95	140-8193 340-1013BR 140-8194 340-1014BR	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available 0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide 0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available 0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1993-95	VL135	Hydraulic Lash Adjuster Type
Head Saver Shim		1993-95	230-2001	New Hgt.- 5.1968 - 5.2000; Min. Hgt.- 5.1880

1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, G4GF "Beta I" HYU2.0-G4GF **12**
 1997-01 L4 120 CID BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	1997-01 1997-01	10723 10724	1.257 Head Diameter,Elantra 97-00, Tiburon 97-01 1.081 Head Diameter,Elantra 97-00, Tiburon 97-01
Keeper	Both	1997-01	121-1102	1 RD Bead Type
Stem Seal	Both	1997-01	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	1997-01 1997-01	140-8554 140-8571	0.2355 I.D.,1.790 Length,0.4360 O.D. 0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both	1997-01	VL564	Hydraulic Bucket Type,Note: Except 2001 Elantra
Head Saver Shim		1997-01	230-2136	New Hgt.- 4.093 - 4.096; Min. Hgt.- N/A

1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, D, E "G4GC Beta II" HYU2.0-G4GC **13**
 2001-13 L4 120 CID BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2001-12 2013-13 2001-12 2013-13	10816 13255 10817 13256	1.257 Head Diameter,Elantra 01-Up, Tiburon 02-Up 1.378 Head Diameter 1.081 Head Diameter,Elantra 01-Up, Tiburon 02-Up 1.142 Head Diameter
Keeper	Both	2001-12 2013-13	121-1102 121-1060	1 RD Bead Type 1 RD Bead Type
Stem Seal	Both	2001-12 2013-13	122-1366 122-1440	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Top Hat Style
Guide	Int Exh Both	2001-12 2001-12 2013-13	140-8554 140-8571 140-3154	0.2355 I.D.,1.790 Length,0.4360 O.D. 0.2360 I.D.,1.990 Length,0.4360 O.D. 0.2168 I.D.,1.740 Length,0.4358 O.D.

HYUNDAI / PASSENGER CAR OR TRUCK (Cont'd)

13 1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, D, E "G4GC Beta II" HYU2.0-G4GC
(cont.) 2001-13 L4 120 CID BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES
Head Saver Shim	2001-10	230-2136	New Hgt.- 4.093 - 4.096; Min. Hgt.- N/A

14 1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, "G4CP Sirius I" "4G63 Mitsubishi" HYU2.0-G4CP
1992-98 L4 122 CID BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1992-98 1992-98	SB1437-68 SB1312-64	1 ⁷ / ₁₆ O.D., 1.135T I.D., 0.3160 Depth 1 ⁵ / ₁₆ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int Exh	1992-98 1992-98 1992-98 1992-98	10126A 10126R 10128A 10128R	1.339 Head Diameter, Nitride 1.378 Head Diameter, Performance Version W/ 1.0mm Larger Head Diameter 1.201 Head Diameter, Nitride 1.221 Head Diameter, Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1992-98	121-1031	1 RD Bead Type
Stem Seal	Both	1992-98	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Int Exh	1992-98 1992-98 1992-98 1992-98	140-8193 340-1013BR 140-8194 340-1014BR	0.2600 I.D., 1.795 Length, 0.4755 O.D., +2 O/S Available 0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide 0.2600 I.D., 1.990 Length, 0.4755 O.D., +2 O/S Available 0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide
Lifter	Both	1992-98	VL135	Hydraulic Lash Adjuster Type
Head Saver Shim		1992-98	230-2001	New Hgt.- 5.1970; Min. Hgt.- 5.1890

15 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin D "G4KF Theta MPi Turbo" HYU2.0-G4KF
2010-14 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-14	13255	1.378 Head Diameter
Keeper	Both	2010-14	121-1060	1 RD Bead Type
Stem Seal	Both	2010-14	122-1440	Positive Type, Viton Material, Top Hat Style

16 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, B "G4KH Theta II GDi Turbo Direct Injected" HYU2.0-G4KH
2011-16 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-16	13255	1.378 Head Diameter
Keeper	Both	2011-16	121-1060	1 RD Bead Type
Stem Seal	Both	2011-16	122-1440	Positive Type, Viton Material, Top Hat Style
Guide	Both	2011-16	140-3154	0.2168 I.D., 1.740 Length, 0.4358 O.D.

17 1999cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 4, F, H "G4NC Nu GDi" HYU2.0-G4NC
2014-17 L4 122 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-16	121-1060	1 RD Bead Type
Stem Seal	Both	2014-16	122-1440	Positive Type, Viton Material, Top Hat Style

18 2351cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin S, "G4CS Sirius I" "4G64 Mitsubishi" HYU2.4-G4CS
1989-91 L4 143 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1989-91 1989-91	SB1875-51 SB1625-56	1 ⁷ / ₈ O.D., 1.575T I.D., 0.3170 Depth 1 ⁵ / ₈ O.D., 1.298T I.D., 0.3170 Depth, +10, +30 O/S Available

(Cont'd) **HYUNDAI / PASSENGER CAR OR TRUCK**

2351cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin S, "G4CS Sirius I" "4G64

18

Mitsubishi"

HYU2.4-G4CS (cont.)

1989-91

L4 143 CID

BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve	Int	1989-91 10143	1.811 Head Diameter
	Exh	1989-91 10144	1.496 Head Diameter
Keeper	Both	1989-91 121-1039	1 RD Bead Type
Stem Seal	Both	1989-91 122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1989-91 140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh	1989-91 140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1989-91 160-1079	1.960 Length
Lifter	Both	1989-91 VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-91 230-2004	New Hgt.- 3.5430 - 3.5440; Min. Hgt.- 3.5230

2351cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin S "G4JS Sirius II" "4G64

19

Mitsubishi"

HYU2.4-G4JS

1999-06

L4 143 CID

BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve	Int	1999-06 10126A	1.339 Head Diameter,Nitride
		1999-06 10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1999-06 10128A	1.201 Head Diameter,Nitride
		1999-06 10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1999-06 121-1031	1 RD Bead Type
Stem Seal	Both	1999-06 122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-06 140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1999-06 340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1999-06 140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1999-06 340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1999-06 VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		1999-06 220-1114	Torque To Yield,Services Engine
Head Saver Shim		1999-06 230-2149	New Hgt. 5.197-5.200; Min. Hgt. N/A

2359cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 4, "G4KK Theta

20

II Hybrid"

HYU2.4-G4KK

2011-15

L4 144 CID

BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Valve	Int	2011-15 13255	1.378 Head Diameter
	Exh	2011-15 13256	1.142 Head Diameter
Keeper	Both	2011-15 121-1060	1 RD Bead Type
Stem Seal	Both	2011-15 122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-15 140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin B, C "G4KE Theta II "

HYU-2.4-G4KE

21

2006-16

L4 144 CID

BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Valve	Int	2006-16 13255	1.378 Head Diameter
	Exh	2006-16 13256	1.142 Head Diameter
Keeper	Both	2006-16 121-1060	1 RD Bead Type
Stem Seal	Both	2006-16 122-1440	Positive Type,Viton Material,Top Hat Style

HYUNDAI / PASSENGER CAR OR TRUCK (Cont'd)

21 2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin B, C "G4KE Theta II " HYU-2.4-G4KE
(cont.) 2006-16 L4 144 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Guide	Both	2006-16 140-3154	0.2168 I.D., 1.740 Length, 0.4358 O.D.

22 2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin C, F, G "G4KJ Theta II GDi Direct Injected" HYU-2.4-G4KJ
2014-16 L4 144 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Valve	Int	2014-16 13255	1.378 Head Diameter
	Exh	2014-16 13256	1.142 Head Diameter
Keeper	Both	2014-16 121-1060	1 RD Bead Type
Stem Seal	Both	2014-16 122-1440	Positive Type, Viton Material, Top Hat Style
Guide	Both	2014-16 140-3154	0.2168 I.D., 1.740 Length, 0.4358 O.D.

23 2493cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, "G6BV Delta" HYU2.5-G6BV
1999-01 V6 152 CID BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES
Valve	Int	1999-01 10808	1.260 Head Diameter
	Exh	1999-01 10809	1.083 Head Diameter
Keeper	Both	1999-01 121-1102	1 RD Bead Type
Stem Seal	Both	1999-01 122-1366	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1999-01 140-8573	0.2360 I.D., 1.540 Length, 0.4358 O.D.
	Exh	1999-01 140-8572	0.2360 I.D., 1.690 Length, 0.4360 O.D.
Lifter	Both	1999-01 VL568	Hydraulic Bucket Type

24 2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin D, F "G6BA Delta" HYU2.7-G6BA
2001-09 V6 162 CID BORE - 86.7mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve	Int	2001-09 10808	1.260 Head Diameter
	Exh	2001-09 10809	1.083 Head Diameter
Keeper	Both	2001-09 121-1102	1 RD Bead Type
Stem Seal	Both	2001-09 122-1366	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2001-09 140-8573	0.2360 I.D., 1.540 Length, 0.4358 O.D.
	Exh	2001-09 140-8572	0.2360 I.D., 1.690 Length, 0.4360 O.D.
Lifter	Both	2001-09 VL568	Hydraulic Bucket Type
Head Saver Shim		2001-09 230-2191L	Left, New Hgt. - 3.543; Min. Hgt. - 3.523
		2001-09 230-2191R	Right, New Hgt. - 3.543; Min. Hgt. - 3.523

25 2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin D "G6EA Mu" HYU2.7-G6EA
2007-09 V6 162 CID BORE - 86.7mm/3.41"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2007-09 121-1102	1 RD Bead Type
Stem Seal	Both	2007-09 122-1366	Positive Type, Viton Material, Metal Clad Style

26 2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin T, "G6AT Sigma" HYU3.0-G6AT
1990-98 V6 181 CID BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-98 SB1750-61	1/4 O.D., 1.445T I.D., 0.3100 Depth
	Exh	1990-98 SB1562-69	1/16 O.D., 1.219 I.D., 0.3170 Depth, Also Available In Non-Magnetic (N) Material
		1990-98 SB1562-69N	1/16 O.D., 1.219 I.D., 0.3170 Depth, Optional LPG
Valve	Int	1990-98 10147	1.693 Head Diameter, 0.030 Shorter Than OEM

(Cont'd) **HYUNDAI / PASSENGER CAR OR TRUCK**

2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin T, "G6AT Sigma"
1990-98 V6 181 CID

HYU3.0-G6AT 26
BORE - 91.1mm/3.59" (cont.)

PART	YEARS	PART NO.	NOTES	
Valve	Int	1990-98	10624	1.693 Head Diameter,OEM Length
	Exh	1990-98	10148	1.378 Head Diameter,0.030 Shorter Than OEM
		1990-98	10625	1.378 Head Diameter,OEM Length
Keeper	Both	1990-98	121-1039	1 RD Bead Type
Stem Seal	Both	1990-98	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-98	140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh	1990-98	140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1990-98	160-1079	1.960 Length
Lifter	Both	1990-98	VL141	Hydraulic Lash Adjuster Type
Rocker Components	Both	1990-98	180-1207	Roller Rocker Arm
Head Bolt Set		1990-98	220-1021	Torque To Yield,Services Engine
Head Saver Shim		1990-98	230-2006	New Hgt.- 3.3030 - 3.3110; Min. Hgt.- 3.2950, 2 Required

2972cc, (3.0L), SOHC, GAS, FI, 24 Valve, "XG300 Sigma"
2001-01 V6 181 CID

HYU-XG300 27
BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2001-01	SB1312-64	1 ⁵ / ₁₆ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	2001-01	10810	1.378 Head Diameter
	Exh	2001-01	10811	1.201 Head Diameter
Keeper	Both	2001-01	121-1031	1 RD Bead Type
Stem Seal	Both	2001-01	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-01	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		2001-01	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	2001-01	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		2001-01	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	2001-01	VL135	Hydraulic Lash Adjuster Type

3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin D, E, F "G6DB Lambda/Lambda II MPI"

2006-11 V6 204 CID

HYU3.3-G6DB 28
BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2006-11	SB1500-56	1 ¹ / ₂ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2006-11	SB1312-59	1 ⁵ / ₁₆ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2006-11	13286	1.417 Head Diameter
	Exh	2006-11	13287	1.220 Head Diameter
Keeper	Both	2006-11	121-1060	1 RD Bead Type
Stem Seal	Both	2006-11	122-1444	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-11	140-3152	0.2168 I.D.,1.655 Length,0.4348 O.D.

3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin F, G "G6DH Lamda II GDi Direct Injected"

2012-16 V6 209 CID

HYU3.3-G6DH 29
BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2012-16	SB1500-56	1 ¹ / ₂ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2012-16	SB1312-59	1 ⁵ / ₁₆ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth

HYUNDAI / PASSENGER CAR OR TRUCK (Cont'd)

29 3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin F, G "G6DH Lamda II GDI
(cont.) Direct Injected"

HYU3.3-G6DH

2012-16

V6 209 CID

BORE - 92mm/3.62"

PART		YEARS	PART NO.	NOTES
Valve	Int	2012-15	13286	1.417 Head Diameter
	Exh	2012-16	13287	1.220 Head Diameter
Keeper	Both	2012-16	121-1060	1 RD Bead Type
Stem Seal	Both	2012-16	122-1444	Positive Type,Viton Material,Top Hat Style
Guide	Both	2012-16	140-3152	0.2168 I.D.,1.655 Length,0.4348 O.D.

30 3470cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin G "G6DB Lambda II"
2010-10

HYU3.5-G6DB

V6 212 CID

BORE - 92mm/3.62"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2010-10	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2010-10	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2010-10	13286	1.417 Head Diameter
	Exh	2010-10	13287	1.220 Head Diameter
Keeper	Both	2010-10	121-1060	1 RD Bead Type
Stem Seal	Both	2010-10	122-1444	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-10	140-3152	0.2168 I.D.,1.655 Length,0.4348 O.D.

31 3470cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin G "G6DC Lambda II"
2010-12

HYU3.5-G6DC

V6 212 CID

BORE - 92mm/3.62"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2010-12	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2010-12	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2010-12	13286	1.417 Head Diameter
	Exh	2010-12	13287	1.220 Head Diameter
Keeper	Both	2010-12	121-1060	1 RD Bead Type
Stem Seal	Both	2010-12	122-1444	Positive Type,Viton Material,Top Hat Style
Guide	Both	2010-12	140-3152	0.2168 I.D.,1.655 Length,0.4348 O.D.

32 3467cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin E "G6AU Sigma"
2002-06

HYU3.5-G6AU

V6 212 CID

BORE - 93mm/3.66"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2002-06	SB1312-64	1⅝ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int	2002-06	10810	1.378 Head Diameter
	Exh	2002-06	10811	1.201 Head Diameter
Keeper	Both	2002-06	121-1031	1 RD Bead Type
Stem Seal	Both	2002-06	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-06	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		2002-06	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	2002-06	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		2002-06	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	2002-06	VL135	Hydraulic Lash Adjuster Type

(Cont'd) **HYUNDAI / PASSENGER CAR OR TRUCK**

3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin 3, C, E, F, H "G6DA Lambda MPI" **33**
2006-12 V6 230 CID HYU3.8-G6DA
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2006-12	1½ O.D., 1.275T I.D., 0.2500 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2006-12	
Valve	Int	2006-12	1.417 Head Diameter
	Exh	2006-12	
Keeper	Both	2006-12	1 RD Bead Type
Stem Seal	Both	2006-12	Positive Type, Viton Material, Top Hat Style
Guide	Both	2006-12	0.2168 I.D., 1.655 Length, 0.4348 O.D.

3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin D, E, J "G6DJ Lamda II GDi Direct Injected" **34**
2012-16 V6 230 CID HYU3.8-G6DJ
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2012-16	1½ O.D., 1.275T I.D., 0.2500 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2012-16	
Valve	Int	2012-16	1.417 Head Diameter
	Exh	2012-16	
Keeper	Both	2012-16	1 RD Bead Type
Stem Seal	Both	2012-16	Positive Type, Viton Material, Top Hat Style
Guide	Both	2012-16	0.2168 I.D., 1.655 Length, 0.4348 O.D.

I.H.C. / TRACTOR

Engine	Models	Line No.
3 Cylinder		
155 C.I., (2.5L), NEUSS Diesel Engine		8
179 C.I., (2.9L), NEUSS Diesel Engine		14
4 Cylinder		
60 C.I., (1.0L) "Gas"	Cub, Cub Lo-boy, Cub 154, Cub 185 Lo-boy, U1, UC60	1
113 C.I., (1.8L)	C113	2
123 C.I., (2.0L), Power Unit Tractor & LPG	U123 Power Unit, Super A1 and AV1, Super C, 100, 100HC, 200	3
135 C.I., (2.2L)	91, 93, 201, 330, 340, 404, 2404, Ind. Lo-boy, T5, TC5, T340, T340A - C135	4
146 C.I., (2.4L)	424, 500, 500C, 660, 770, 780, 2424 - C146	5
152 C.I., (2.5L)	122, H, HV, I4, IU4, O4, W, W4 -C152	6
153 C.I., (2.5L)	93, 105, 203, 210, 225, 230, 275, 375, 444, 504, 2444, 2500, 2504, 3514, 4000 - C153	7
157 C.I., (2.6L)	454, 2400A, 2400B, 2405B, 2410B, 2412B, 4500A, 4500B - C157	9
164 C.I., (2.7L)	Super H, HV, W4, U164 - C164	10
166 C.I., (2.7L), Diesel	340, TD340, D166	11
169 C.I., (2.8L), C169		12
175 C.I., (2.9L)	375, 454, 464, 2400A, 2400B, 2405B, 2410B, 2412B, 3400A, 3514, T7 Series C175	13
188 C.I., (3.1L), Diesel	504, 2504, 3514, H25B, S7A, S7B - D188	15

I.H.C. / TRACTOR (Cont'd)

Engine	Models	Line No.
4 Cylinder		
200 C.I., (3.3L)	544, 574, 674, 2500A, 2500B, 2505B, 2510B, 2514B, 2544, 3500A, 8000, T7 Series - C200	16
206 C.I., (3.4L), NEUSS Diesel Engine		17
239 C.I., (3.9L), NEUSS Diesel Engine		21
246 C.I., (4.0L), NEUSS Diesel Engine		22
248 C.I., (4.0L), Gas	I6, IV6, M, MV, O6, O56, T6, U6, W6 - C248	23
264 C.I., (4.3L), LPG	400, W400	25
264 C.I., (4.3L), Gas	Super M, MV, W6, U264, 400, W400, T6-61 - C264	26
264 C.I., (4.3L), Diesel		27
268 C.I., (4.4L), NEUSS Diesel Engine		28
281 C.I., (4.6L)	450, W450 - C281	29
335 C.I., (5.5L), Diesel		38
6 Cylinder		
221 C.I., (3.6L), 12 Valve	205, 260, 315, 460, 606, 4006, 3616 - C221	18
232 C.I., (3.8L), 12 Valve	275, 375	19
236 C.I., (3.9L), Diesel 12 Valve	315, 460, 606, 2606, 3616, UD236, H30A, H30B, H30B-F, H30B-R - D236	20
263 C.I., (4.3L), 12 Valve	50, 403, 560, 615, 656, 660, 706, 2656, 2706, 3600A, 3800A, 3850, UC263	24
282 C.I., (4.6L), Gas & LPG 12 Valve	403, 503 - C282	30
282 C.I., (4.6L), Diesel 12 Valve	403, 416, 422, 560, 615, 656, 660, 706, 2656, 2706, 3600A, 3800, 3850, H50A, H50B, H50C, UD282, TD6, TD9-62 Series - D282	31
291 C.I., (4.8L), 12 Valve	616, 622, 666, 706, 756, 766, 2706, 2756, 9000, Hydro 70 - C291	32
301 C.I., (4.9L), Gas 12 Valve	C301	33
301 C.I., (4.9L), Diesel 12 Valve	403, 503, 715, H60B - D301	34
310 C.I., (5.1L), NEUSS Diesel Engine		36
312 C.I., (5.1L), Diesel 12 Valve		37
358 C.I., (5.9L), NEUSS Diesel Engine		40
360 C.I., (5.9L), Turbo Diesel 12 Valve		41
360 C.I., (5.9L), Diesel 12 Valve		42
361 C.I., (5.9L), Turbo Diesel 12 Valve		43
361 C.I., (5.9L), Diesel 12 Valve		44
407 C.I., (6.7L), Turbo Diesel 12 Valve		46
407 C.I., (6.7L), Diesel 12 Valve		47
414 C.I., (6.8L), Diesel, Turbo Diesel/NA, 12 Valve	D414	48
436 C.I., (7.1L), Diesel, Turbo Diesel 12 Valve		49
466 C.I., (7.6L), DT466/B, DTI466B Diesel, Turbo-Diesel 12 Valve		50
530 C.I., (8.7L), Diesel Elec. Inj. 12 Valve		51
530 C.I., (8.7L), Diesel 12 Valve		52
691 C.I., (11.3L), Diesel, 12 Valve	Industrial Engine	53
817 C.I., (13.4L), Diesel	Crawler Tractor, Hauler	54
8 Cylinder		
304 C.I., (5.0L)	815, 915 - V304	35

Engine		Models		Line No.
8 Cylinder				
345 C.I., (5.6L)		815, 915		.39
392 C.I., (6.4L)		915 - V392		.45
60 C.I., (1.0L) "Gas"				C60 1
L4 60 CID		BORE - 66.675mm/2.625"		
PART		PART NO.	NOTES	
Valve Seat Insert	Int	SB1187-1	1 ³ / ₁₆ O.D., 1.000 I.D., ³ / ₁₆ Depth	
	Exh	SB1000-1	1 O.D., ³ / ₄ I.D., ³ / ₁₆ Depth	
Valve	Int	00230	1.094 Head Diameter	
	Exh	00485	0.906 Head Diameter	
Keeper	Both	121-1011	1 SQ Bead Type	
Guide	Both	140-1636	0.3120 I.D., 1.500 Length, 0.6265 O.D.	
		140-7408	0.3120 I.D., 1.340 Length, 0.6263 O.D.	
Spring	Both	160-1503	2.060 Length, OEM # 251262R1, NOTE: W/O Rotators	
113 C.I., (1.8L)				C113 2
L4 113 CID		BORE - 76.2mm/3.00"		
PART		PART NO.	NOTES	
Valve Seat Insert	Int	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material	
	Exh	SB1187-1	1 ³ / ₁₆ O.D., 1.000 I.D., ³ / ₁₆ Depth, W/ 1.156 Valve Head Dia.	
		SB1312-1	1 ⁵ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ³ / ₁₆ Depth, W/ 1.219 Valve Head Dia.	
Valve	Int	00162	1.342 Head Diameter, 4.832 O.A.L., OEM # 42024D	
		00313	1.342 Head Diameter, 4.941 O.A.L., OEM # 57797D; From S/N 255418	
	Exh	00161	1.219 Head Diameter, 4.844 O.A.L., OEM # 42025DA	
		00312	1.156 Head Diameter, 4.942 O.A.L., OEM # 57798D; From S/N 255418	
Keeper	Both	121-1003	1 SQ Bead Type	
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style	
Guide	Both	140-1543	0.3435 I.D., 2.688 Length, 0.5648 O.D., NOTE: Early, Flanged	
		140-1804	0.3440 I.D., 2.656 Length, 0.5645 O.D., NOTE: Late, Non-flanged	
Spring	Both	160-1604	2.625 Length, OEM # 24544DA	
123 C.I., (2.0L), Power Unit Tractor & LPG				C123 3
L4 123 CID		BORE - 79.375mm/3.125"		
PART		PART NO.	NOTES	
Valve Seat Insert	Int	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.342 Valve Head Dia., Gasoline, Dist. & Kerosene. To S/N 36000	
		SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.500 Valve Head Dia., Gasoline From S/N 36000	
	Exh	SB1187-1	1 ³ / ₁₆ O.D., 1.000 I.D., ³ / ₁₆ Depth, W/ 1.156 Valve Head Dia., Gasoline, Dist. & Kerosene To S/N 36000	
		SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.312 Valve Head Dia., Includes Gasoline & LPG	
Valve	Int	00313	1.342 Head Diameter, To S/N 36000, Gasoline	
		00504	1.500 Head Diameter, Gasoline & LPG, From S/N 36001	
	Exh	00312	1.156 Head Diameter, To S/N 36000, Gasoline	
		00503	1.312 Head Diameter, Gasoline, From S/N 36001	
Keeper	Both	121-1003	1 SQ Bead Type	
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style	
Guide	Both	140-1543	0.3435 I.D., 2.688 Length, 0.5648 O.D., Early	

I.H.C. / TRACTOR (Cont'd)

3 123 C.I., (2.0L), Power Unit Tractor & LPG C123
(cont.) L4 123 CID BORE - 79.375mm/3.125"

PART		PART NO.	NOTES
Guide	Both	140-1804	0.3440 I.D.,2.656 Length,0.5645 O.D.
Spring	Exh	160-1494	2.266 Length,OEM # 368450R1; NOTE: W/ Rotator
	Both	160-1604	2.625 Length,OEM # 24544DA; NOTE: W/O Rotators

4 135 C.I., (2.2L) C135
L4 135 CID BORE - 82.55mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00504	1.500 Head Diameter
	Exh	00503	1.312 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Both	140-1804	0.3440 I.D.,2.656 Length,0.5645 O.D.
Spring	Int	160-1478	2.390 Length,OEM # 406723R1
	Exh	160-1494	2.266 Length,OEM # 368450R1

5 146 C.I., (2.4L) C146
L4 146 CID BORE - 85.725mm/3.375"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00504	1.500 Head Diameter
	Exh	00503	1.312 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1037	Umbrella Type,Poly Material,Umbrella Style
		122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	140-1804	0.3440 I.D.,2.656 Length,0.5645 O.D.
Spring	Int	160-1478	2.390 Length,OEM # 406723R1
	Exh	160-1494	2.266 Length,OEM # 368450R1

6 152 C.I., (2.5L) C152
L4 152 CID BORE - 85.725mm/3.375"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-1	1 $\frac{7}{16}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00193	1.500 Head Diameter,5.363 Overall Length, Gasoline
	Exh	00205	1.375 Head Diameter,5.359 Overall Length, Gasoline
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
Guide	Both	140-1544	0.3435 I.D.,2.625 Length,0.5953 O.D.
		140-1545N	0.3435 I.D.,2.938 Length,0.5953 O.D.,W/ Step For Stem Seal 122-1014
Spring	Both	160-1604	2.625 Length,OEM # 24544DA

153 C.I., (2.5L)

L4 153 CID

C153 **7**
BORE - 85.725mm/3.375"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{5}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	1 $\frac{7}{16}$ O.D., 1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00504	1.500 Head Diameter
	Exh	00503	1.312 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Both	140-1804	0.3440 I.D., 2.656 Length, 0.5645 O.D.
Spring	Int	160-1478	2.390 Length, OEM # 406723R1
	Exh	160-1494	2.266 Length, OEM # 368450R1

155 C.I., (2.5L), NEUSS Diesel Engine

L3 155 CID

IHC_NEUSS_D155 **8**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1 $\frac{3}{4}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1657E-1	1.657 O.D., 1.312T I.D., 0.3950 Depth, OEM # 349025R1
Valve	Int	10766	1.689 Head Diameter
	Exh	10767S	1.610 Head Diameter, Stellite Face
Keeper	Both	121-1126	1 RD Bead Type, OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D., 3.040 Length, 0.6328 O.D.
Spring	Both	160-1492	2.175 Length, OEM # 3055060R1
Injector Tubes and Components		240-1032	Injector Tube, OEM # 3055344R1

157 C.I., (2.6L)

L4 157 CID

C157 **9**
BORE - 85.725mm/3.375"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 $\frac{7}{8}$ O.D., 1 $\frac{5}{8}$ I.D., $\frac{7}{32}$ Depth, Must Machine Seat Angle to 30 Degree
Valve	Int	00601	1.781 Head Diameter
	Exh	01075S	1.516 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Int	140-6990	0.3760 I.D., 2.240 Length, 0.6270 O.D., Special Alloy
	Exh	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy
Spring	Both	160-1290	2.438 Length

164 C.I., (2.7L)

L4 164 CID

C164 **10**
BORE - 88.9mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-3	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth, +3 O/S Available
Valve	Int	00193	1.500 Head Diameter, 5.363 Overall Length, Gasoline
	Exh	00205	1.375 Head Diameter, 5.359 Overall Length, Gasoline
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Both	140-1544	0.3435 I.D., 2.625 Length, 0.5953 O.D.
		140-1545N	0.3435 I.D., 2.938 Length, 0.5953 O.D., W/ Step For Stem Seal 122-1014
Spring	Both	160-1289	2.281 Length

I.H.C. / TRACTOR (Cont'd)**11 166 C.I., (2.7L), Diesel**

L4 166 CID

D166

BORE - 91.44mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material
Valve	Int	00593	1.652 Head Diameter
	Exh	00592	1.300 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Both	140-1881	0.3745 I.D., 2.844 Length, 0.6265 O.D., +2 O/S Available
Spring	Both	160-1290	2.438 Length, To Eng. # 2148

12 169 C.I., (2.8L), C169

L4 169 CID

C169

BORE - 90.4mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.500 Valve Head Dia., Gasoline
		SB1875-6	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ⁷ / ₃₂ Depth, W/ 1.781 Valve Head Dia., Must Machine Seat Angle To 30 Degree
	Exh	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.375 Valve Head Dia., Gasoline
		SB1562-8	1 ¹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.516 Valve Head Dia.
Valve	Int	00601	1.781 Head Diameter, Except Gasoline
	Exh	01075S	1.516 Head Diameter, Stellite Face, Except Gasoline
Keeper	Both	121-1007	1 SQ Bead Type, Use W/ 1.871 & 1.516 Valve Head Dia.
Guide	Both	140-1545N	0.3435 I.D., 2.938 Length, 0.5953 O.D., Use W/ 1.500 & 1.375 Valve Head Dia.
		140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, Use W/ 1.781 & 1.516 Valve Head Dia.
Spring	Both	160-1289	2.281 Length

13 175 C.I., (2.9L)

L4 175 CID

IHC_C175

BORE - 90.4875mm/3.56"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., ⁷ / ₃₂ Depth, W/ 1.781 Valve Head Dia., Must Machine Seat Angle To 30 Degree
	Exh	SB1562-8	1 ¹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.516 Valve Head Dia.
Valve	Int	00601	1.781 Head Diameter
	Exh	01075S	1.516 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type, Use W/ 1.781 & 1.516 Valve Head Dia.
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Both	140-1545N	0.3435 I.D., 2.938 Length, 0.5953 O.D.
		140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, Use W/ 1.781 & 1.516 Valve Head Dia.
Spring	Both	160-1290	2.438 Length

14 179 C.I., (2.9L), NEUSS Diesel Engine

L3 179 CID

IHC_NEUSS_D179

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1 ³ / ₄ O.D., 1 ⁷ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1657E-1	1.657 O.D., 1.312 I.D., 0.3950 Depth, OEM # 349025R1
Valve	Int	10766	1.689 Head Diameter

(Cont'd) I.H.C. / TRACTOR**179 C.I., (2.9L), NEUSS Diesel Engine**
L3 179 CIDIHC_NEUSS_D179 **14**
BORE - 98.425mm/3.875" (cont.)

PART		PART NO.	NOTES
Valve	Exh	10767S	1.610 Head Diameter,Stellite Face
Keeper	Both	121-1126	1 RD Bead Type,OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D.,3.040 Length,0.6328 O.D.
Spring	Both	160-1492	2.175 Length,OEM # 3055060R1
Injector Tubes and Components		240-1032	Injector Tube,OEM # 3055344R1

188 C.I., (3.1L), Diesel

L4 188 CID

D188 **15**
BORE - 93.6625mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-1	1 ³ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,Also Available Non-Magnetic (N) Material
Valve	Int	00593	1.652 Head Diameter
	Exh	00592	1.300 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Both	140-1881	0.3745 I.D.,2.844 Length,0.6265 O.D.,+2 O/S Available
Spring	Both	160-1290	2.438 Length

200 C.I., (3.3L)

L4 200 CID

C200 **16**
BORE - 96.8375mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ⁷ / ₃₂ Depth,Must Machine Seat Angle to 30 Degree
	Exh	SB1562-8	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth
Valve	Int	00601	1.781 Head Diameter
	Exh	01075S	1.516 Head Diameter,Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Int	140-6990	0.3760 I.D.,2.240 Length,0.6270 O.D.,Special Alloy
	Exh	140-1747	0.3760 I.D.,2.420 Length,0.6268 O.D.,Special Alloy
Spring	Both	160-1290	2.438 Length

206 C.I., (3.4L), NEUSS Diesel Engine

L4 206 CID

IHC_NEUSS_D206 **17**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1 ³ / ₄ O.D.,1 ⁷ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1657E-1	1.657 O.D.,1.312T I.D.,0.3950 Depth,OEM # 349025R1
Valve	Int	10766	1.689 Head Diameter
	Exh	10767S	1.610 Head Diameter,Stellite Face
Keeper	Both	121-1126	1 RD Bead Type,OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D.,3.040 Length,0.6328 O.D.
Spring	Both	160-1492	2.175 Length,OEM # 3055060R1
Injector Tubes and Components		240-1032	Injector Tube,OEM # 3055344R1

I.H.C. / TRACTOR (Cont'd)**18** 221 C.I., (3.6L), 12 Valve

C221

L6 221 CID

BORE - 90.424mm/3.56"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material, W/ 1.656 Valve Head Dia.
		SB1875-6	1 ⁷ / ₈ O.D., 1 ¹ / ₈ I.D., 7/32 Depth, W/ 1.781 Valve Head Dia., Must Machine Seat Angle To 30 Degree
	Exh	SB1562-8	1 ¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7/32 Depth
Valve	Int	00600	1.656 Head Diameter, Except 205, 315 & 3616
		00601	1.781 Head Diameter, 205, 315 & 3616
	Exh	01075S	1.516 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Int	140-6990	0.3760 I.D., 2.240 Length, 0.6270 O.D., Special Alloy
	Exh	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, W/Farmall 460 Use 140-1747 For Intake and Exhaust.
Spring	Both	160-1290	2.438 Length

19 232 C.I., (3.8L), 12 Valve

IHC232

L6 232 CID

BORE - 93.9mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D., 1 ¹ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	00550	1.787 Head Diameter, 4 Groove, 4.899 Overall Length, W/ 0.090 Tip To Groove Length
		01260	1.787 Head Diameter, 4 Groove, 4.899 Overall Length, W/ 0.1825 Tip To Groove Length
		01442	1.787 Head Diameter, 1 Groove, 4.899 Overall Length
	Exh	00549	1.406 Head Diameter, 4 Groove, 4.892 Overall Length, W/ 0.088 Tip To Groove Length
		01325	1.406 Head Diameter, 4 Groove, 4.892 Overall Length, W/ 0.1825 Tip To Groove Length
		01441	1.406 Head Diameter, 1 Groove, 4.892 Overall Length
Keeper	Both	121-1007	1 SQ Bead Type, 3/8 Stem
		121-1014	4 RD Bead Type
Stem Seal	Both	122-1059	Umbrella Type, GF Nylon Material, Umbrella Style
		122-1075	Positive Type, Viton Material, Ring & Band Style
Guide	Both	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1023	2.034 Length, W/O Rotator
Lifter	Both	VL89	Hydraulic Type
Rocker Components	Both	181-1028	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge Fulcrum, Short Bridge, When Replacing, Fulcrum # 183-1014 Must Also Be Used
		183-1014	
		183-1028	
Push Rod	Both	190-1429	9.594 Length
		190-1440	9.622 Length

236 C.I., (3.9L), Diesel 12 Valve
L6 236 CIDD236 **20**
BORE - 93.6625mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ¹⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.652 Valve Head Dia.
		SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.679 Valve Head Dia.
	Exh	SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material, W/ 1.300 Valve Head Dia.
		SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available, W/ 1.375 Valve Head Dia.
Valve	Int	00593	1.652 Head Diameter, 460, UD236 To S/N 2839
		00922	1.679 Head Diameter, 315, 606, 2606, 3616 From S/N 2840
	Exh	00592	1.300 Head Diameter, 460, UD236 To S/N 2839
		00921	1.375 Head Diameter, 315, 606, 2606, 3616 From S/N 2840
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type, Poly Material, 2-Ring Style
Guide	Both	140-1881	0.3745 I.D., 2.844 Length, 0.6265 O.D., +2 O/S Available
Spring	Exh	160-1290	2.438 Length, W/O Rotator, To S/N 5610

239 C.I., (3.9L), NEUSS Diesel Engine
L4 239 CIDIHC_NEUSS_D239 **21**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1 ³ / ₄ O.D., 1 ¹⁷ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material 1.657 O.D., 1.312T I.D., 0.3950 Depth, OEM # 349025R1
	Exh	SB1657E-1	
Valve	Int	10766	1.689 Head Diameter
	Exh	10767S	1.610 Head Diameter, Stellite Face
Keeper	Both	121-1126	1 RD Bead Type, OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D., 3.040 Length, 0.6328 O.D.
Spring	Both	160-1492	2.175 Length, OEM # 3055060R1
Injector Tubes and Components		240-1032	Injector Tube, OEM # 3055344R1

246 C.I., (4.0L), NEUSS Diesel Engine
L4 246 CIDIHC_NEUSS_D246 **22**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1 ³ / ₄ O.D., 1 ¹⁷ / ₁₆ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material, For Cylinder Head W/O Factory Installed Seat 1.657 O.D., 1.312T I.D., 0.3950 Depth, OEM # 349025R1
	Exh	SB1657E-1	
Valve	Int	10766	1.689 Head Diameter
	Exh	10767S	1.610 Head Diameter, Stellite Face
Keeper	Both	121-1126	1 RD Bead Type, OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D., 3.040 Length, 0.6328 O.D.
Spring	Both	160-1492	2.175 Length, OEM # 3055060R1
Injector Tubes and Components		240-1032	Injector Tube, OEM # 3055344R1

248 C.I., (4.0L), Gas
L4 248 CIDC248 **23**
BORE - 98.425mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D., 1 ¹⁵ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material 1 ¹³ / ₁₆ O.D., 1 ¹⁷ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	SB1812-7	
Valve	Int	00204	1.812 Head Diameter, Gasoline
	Exh	00203	1.656 Head Diameter, Gasoline

I.H.C. / TRACTOR (Cont'd)

23 248 C.I., (4.0L), Gas

(cont.)

L4 248 CID

C248

BORE - 98.425mm/3.80"

PART		PART NO.	NOTES
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Both	140-1546 140-1547N	0.3745 I.D.,2.750 Length,0.6893 O.D.,Distillate 0.3745 I.D.,3.219 Length,0.6895 O.D.
Spring	Both	160-1287 160-1288	2.681 Length,W/ Rotator 2.875 Length,W/O Rotator

24 263 C.I., (4.3L), 12 Valve

L6 263 CID

C263

BORE - 90.4875mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 $\frac{7}{8}$ O.D.,1 $\frac{5}{8}$ I.D., $\frac{7}{32}$ Depth,W/ 1.781 Valve Head Dia., Must Machine Seat Angle To 30 Degree
	Exh	SB1562-8	1 $\frac{7}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth,W/ 1.516 Valve Head Dia.
Valve	Int	00600	1.656 Head Diameter,403 Combine To S/N 7087, UC263 To S/N 56635, 560, 660 Tractor
		00601	1.781 Head Diameter,403 Combine To S/N 7087, UC263 From S/N 56635, 615 Combine, 50 Harvester
	Exh	01075S	1.516 Head Diameter,Stellite Face,50, 403, 560, 615, 656, 660, 706, UC263, 2656, 2706, 3600A, 3800A, 3850
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	140-6990	0.3760 I.D.,2.240 Length,0.6270 O.D.,Special Alloy,Use on 403, 615, 50, UC263 Aft S/N 95245.
	Both	140-1747	0.3760 I.D.,2.420 Length,0.6268 O.D.,Special Alloy,Exhaust All, Intake on 560, 660, UC263 Up To S/N 95245
Spring	Both	160-1290	2.438 Length

25 264 C.I., (4.3L), LPG

L4 264 CID

C264_LP

BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 $\frac{7}{8}$ O.D.,1 $\frac{5}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1812-7	1 $\frac{13}{16}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth
Valve	Int	00428	1.812 Head Diameter,To S/N 161408
	Exh	00427S	1.656 Head Diameter,Stellite Face,To S/N 161408
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Both	140-1547N	0.3745 I.D.,3.219 Length,0.6895 O.D.

26 264 C.I., (4.3L), Gas

L4 264 CID

C264_G

BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 $\frac{7}{8}$ O.D.,1 $\frac{5}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1812-7	1 $\frac{13}{16}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth
Valve	Int	00204	1.812 Head Diameter,5.848 Overall Length, Super M, MV, W6, U264 Gasoline
		00428	1.812 Head Diameter,6.083 Overall Length, 400, W400 To S/N 161365, T6-61 Gasoline
	Exh	00203	1.656 Head Diameter,5.844 Overall Length, Super M, MV, W6, U264 Gasoline
		00427S	1.656 Head Diameter,Stellite Face,6.083 Overall Length, 400, W400 To S/N 161365, T6-61 Gasoline

(Cont'd) I.H.C. / TRACTOR**264 C.I., (4.3L), Gas**

L4 264 CID

C264_G **26**

BORE - 101.6mm/4.00" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Both	140-1546	0.3745 I.D.,2.750 Length,0.6893 O.D.
		140-1547N	0.3745 I.D.,3.219 Length,0.6895 O.D.
Spring	Both	160-1287	2.681 Length,W/ Rotator

264 C.I., (4.3L), Diesel

L4 264 CID

D264 **27**

BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,+30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-1579	0.3745 I.D.,3.750 Length,0.6888 O.D.
		140-4941	0.3120 I.D.,2.063 Length,0.5645 O.D.

268 C.I., (4.4L), NEUSS Diesel Engine

L4 268 CID

IHC_NEUSS_D268 **28**

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1 ³ / ₄ O.D.,1 ⁷ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material,For Cylinder Head W/O Factory Installed Seat
	Exh	SB1657E-1	1.657 O.D.,1.312T I.D.,0.3950 Depth,OEM # 349025R1
Valve	Int	10766	1.689 Head Diameter
	Exh	10767S	1.610 Head Diameter,Stellite Face
Keeper	Both	121-1126	1 RD Bead Type,OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D.,3.040 Length,0.6328 O.D.
Spring	Both	160-1492	2.175 Length,OEM # 3055060R1
Injector Tubes and Components		240-1032	Injector Tube,OEM # 3055344R1

281 C.I., (4.6L)

L4 281 CID

C281 **29**

BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1812-7	1 ¹³ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ¹ / ₄ Depth
Valve	Int	00428	1.812 Head Diameter,Gasoline
	Exh	00427S	1.656 Head Diameter,Stellite Face,Gasoline
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style
Guide	Both	140-1546	0.3745 I.D.,2.750 Length,0.6893 O.D.
		140-1547N	0.3745 I.D.,3.219 Length,0.6895 O.D.
Spring	Both	160-1287	2.681 Length,W/ Rotator

282 C.I., (4.6L), Gas & LPG 12 Valve

L6 282 CID

C282 **30**

BORE - 93.6625mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.656 Valve Head Dia.

I.H.C. / TRACTOR (Cont'd)**30** 282 C.I., (4.6L), Gas & LPG 12 Valve
(cont.) L6 282 CID**C282**
BORE - 93.6625mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 ⁷ / ₈ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.781 Valve Head Dia., Must Machine Seat Angle To 30 Degree
	Exh	SB1562-8	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.516 Valve Head Dia.
Valve	Int	00600 00601	1.656 Head Diameter, 403 To S/N 7087 1.781 Head Diameter, 503 To S/N 2133, 403 From S/N 7087. 1.781, 503 From S/N 2133
	Exh	01075S	1.516 Head Diameter, Stellite Face, W/ Seal Groove
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1007	Umbrella Type, Nitrile Material, Umbrella Style
Guide	Exh	140-6990	0.3760 I.D., 2.240 Length, 0.6270 O.D., Special Alloy
	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy
Spring	Both	160-1290	2.438 Length, To Eng. # 2148

31 282 C.I., (4.6L), Diesel 12 Valve
L6 282 CID**D282**
BORE - 93.6625mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.652 Valve Head Dia.
		SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.679 Valve Head Dia.
	Exh	SB1375-1	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available Non-Magnetic (N) Material, W/ 1.300 Valve Head Dia.
		SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available, W/ 1.375 Valve Head Dia.
Valve	Int	00593	1.652 Head Diameter, H50A, H50B, H50C, UD282 To S/N 3623. 560, 660, TD6, TD9-62 Series To S/N 40698
		00922	1.679 Head Diameter, 403, 416, 422, 615, 656, 706, 2656, 2706, 3600A, 3800, 3850. All H50A, H50B, H50C, UD282 From S/N 3624. 560, 660, TD6, TC9-62 Series From S/N 40699
	Exh	00592	1.300 Head Diameter, H50A, H50B, H50C, UD282 To S/N 3623. 560, 660, TD6, TD9-62 Series To S/N 40698
		00921	1.375 Head Diameter, 403, 416, 422, 615, 656, 706, 2656, 2706, 3600A, 3800, 3850 All H50A, H50B, H50C, UD282 From S/N 3624. 560, 660, TD6, TC9-62 Series From S/N 40699.
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Int	122-1031	Positive Type, Poly Material, 2-Ring Style, Exc. 656D, 706D, 2656D, 27065D
Guide	Both	140-1881	0.3745 I.D., 2.844 Length, 0.6265 O.D., +2 O/S Available
Spring	Exh	160-1290	2.438 Length, W/O Rotator
		160-1300	2.265 Length, W/ Rotator

32 291 C.I., (4.8L), 12 Valve

L6 291 CID

C291
BORE - 93.9mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 ⁷ / ₈ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, Must Machine Seat Angle to 30 Degree
	Exh	SB1562-8	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth
Valve	Int	00601	1.781 Head Diameter
	Exh	01075S	1.516 Head Diameter, Stellite Face, W/ Seal Groove
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1007	Umbrella Type, Nitrile Material, Umbrella Style
Guide	Int	140-6990	0.3760 I.D., 2.240 Length, 0.6270 O.D., Special Alloy
	Exh	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy
Spring	Both	160-1290	2.438 Length

301 C.I., (4.9L), Gas 12 Valve
L6 301 CIDC301 **33**
BORE - 96.8375mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 $\frac{7}{8}$ O.D., 1 $\frac{5}{8}$ I.D., $\frac{7}{32}$ Depth, Must Machine Seat Angle to 30 Degree
	Exh	SB1562-8	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00601	1.781 Head Diameter
	Exh	01075S	1.516 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1007	Umbrella Type, Nitrile Material, Umbrella Style
Guide	Int	140-6990	0.3760 I.D., 2.240 Length, 0.6270 O.D., Special Alloy
	Exh	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy
Spring	Both	160-1290	2.438 Length

301 C.I., (4.9L), Diesel 12 Valve
L6 301 CIDD301 **34**
BORE - 96.8375mm/3.81"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.679 Valve Head Dia.
	Exh	SB1500-3	1 $\frac{1}{2}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth, +3 O/S Available
Valve	Int	00922	1.679 Head Diameter
	Exh	00921	1.375 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Int	122-1041	Umbrella Type, Poly Material, Umbrella Style
Guide	Both	140-1881	0.3745 I.D., 2.844 Length, 0.6265 O.D., +2 O/S Available
Spring	Both	160-1290	2.438 Length

304 C.I., (5.0L)

V8 304 CID

V304 **35**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1678E-1	1.678 O.D., 1.446 I.D., 0.3120 Depth
Valve	Int	00560	1.969 Head Diameter
	Exh	00559S	1.609 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7876	0.3745 I.D., 2.906 Length, 0.6888 O.D.
Spring	Both	160-1206	2.050 Length, W/ Damper
Push Rod	Both	190-1370	9.779 Length, Note: Ball Ends, W/ Boat Type Rocker Arm

310 C.I., (5.1L), NEUSS Diesel Engine
L6 310 CIDIHC_NEUSS_D310 **36**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1 $\frac{3}{4}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1657E-1	1.657 O.D., 1.312T I.D., 0.3950 Depth, OEM # 349025R1
Valve	Int	10766	1.689 Head Diameter
	Exh	10767S	1.610 Head Diameter, Stellite Face
Keeper	Both	121-1126	1 RD Bead Type, OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D., 3.040 Length, 0.6328 O.D.
Spring	Both	160-1492	2.175 Length, OEM # 3055060R1
Injector Tubes and Components		240-1032	Injector Tube, OEM # 3055344R1

I.H.C. / TRACTOR (Cont'd)**37** 312 C.I., (5.1L), Diesel 12 Valve
L6 312 CIDIHC_D312
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-1	1.782 O.D.,1.490T I.D.,0.3400 Depth,+15 O/S Available,OEM # 671602C1 & 675441C
	Exh	SB1536E-2N	1.5365 O.D.,1.255T I.D.,0.3585 Depth,+15 O/S Available,OEM # 671599C1 & 675576C1
Valve	Int	01520	1.710 Head Diameter
	Exh	01519	1.455 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6265 O.D.,Spiral I.D. Toward Cumbustion,OEM # 675439C1
Spring	Both	160-1190	2.400 Length

38 335 C.I., (5.5L), Diesel
L4 335 CIDD335
BORE - 111.76mm/4.40"

PART		PART NO.	NOTES
Guide	Both	140-1578	0.4050 I.D.,3.970 Length,0.7520 O.D.

39 345 C.I., (5.6L)

V8 345 CID

V345
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1678E-1	1.678 O.D.,1.446 I.D.,0.3120 Depth
Valve	Int	00560	1.969 Head Diameter
	Exh	00559S	1.609 Head Diameter,Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7876	0.3745 I.D.,2.906 Length,0.6888 O.D.
Spring	Both	160-1206	2.050 Length,W/ Damper

40 358 C.I., (5.9L), NEUSS Diesel Engine
L6 358 CIDIHC_NEUSS_D358
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1 $\frac{3}{4}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material,For Cylinder Head W/O Factory Installed Seat
	Exh	SB1657E-1	1.657 O.D.,1.312T I.D.,0.3950 Depth,OEM # 349025R1
Valve	Int	10766	1.689 Head Diameter
	Exh	10767S	1.610 Head Diameter,Stellite Face
Keeper	Both	121-1126	1 RD Bead Type,OEM # 3055057R91
Guide	Both	140-7548	0.3937 I.D.,3.040 Length,0.6328 O.D.
Spring	Both	160-1492	2.175 Length,OEM # 3055060R1
Injector Tubes and Components		240-1032	Injector Tube,OEM # 3055344R1

41 360 C.I., (5.9L), Turbo Diesel 12 Valve
L6 360 CIDIHC_DT360
BORE - 101.78mm/4.01"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-1	1.782 O.D.,1.490T I.D.,0.3400 Depth,+15 O/S Available,OEM # 671602C1 & 675441C
	Exh	SB1536E-2N	1.5365 O.D.,1.255T I.D.,0.3585 Depth,+15 O/S Available,OEM # 671599C1 & 675576C1
Valve	Int	01520	1.710 Head Diameter
	Exh	01574S	1.455 Head Diameter,Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type

360 C.I., (5.9L), Turbo Diesel 12 Valve
L6 360 CIDIHC_DT360 **41**
BORE - 101.78mm/4.01" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1301	Positive Type, Viton Material, Top Hat Style, Orange Seal Umbrella Type, Nylon Material, Oil Shield Style, OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
		122-1426	
Guide	Both	140-7431	0.3745 I.D., 2.750 Length, 0.6265 O.D., Spiral I.D. Toward Combustion, OEM # 675439C1
Spring	Both	160-1190	2.400 Length
Rotator	Both	161-1046	OEM # 1824680C1, NOTE: Includes Oil Shield 1824683C1
Injector Tubes and Components		240-1024	Injector Tube, OEM # 675442C1

360 C.I., (5.9L), Diesel 12 Valve
L6 360 CIDD360 **42**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-1	1.782 O.D., 1.490T I.D., 0.3400 Depth, +15 O/S Available, OEM # 671602C1 & 675441C 1.5365 O.D., 1.255T I.D., 0.3585 Depth, +15 O/S Available, OEM # 671599C1 & 675576C1
	Exh	SB1536E-2N	
Valve	Int	01520	1.710 Head Diameter
	Exh	01519	1.455 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1301	Positive Type, Viton Material, Top Hat Style, Orange Seal
Guide	Both	140-7431	0.3745 I.D., 2.750 Length, 0.6265 O.D., Spiral I.D. Toward Combustion, OEM # 675439C1
Spring	Both	160-1190	2.400 Length
Injector Tubes and Components		240-1024	Injector Tube, OEM # 675442C1

361 C.I., (5.9L), Turbo Diesel 12 Valve
L6 361 CIDDT361 **43**
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-18	2.000 O.D., 1 $\frac{3}{4}$ I.D., $\frac{5}{16}$ Depth 1.727 O.D., 1.310T I.D., 0.3800 Depth, OEM # 670301C1
	Exh	SB1727E-2N	
Valve	Int	00924	1.940 Head Diameter
	Exh	00923	1.625 Head Diameter
Keeper	Both	121-1006	2 RD Bead Type
Guide	Both	140-1957	0.4375 I.D., 3.172 Length, 0.6890 O.D.
Spring	Int	160-1285	2.343 Length, Inner
		160-1286	2.562 Length, Outer
	Exh	160-1404	1.982 Length, Inner, W/ Rotator
		160-1405	2.333 Length, Outer, W/ Rotator
Injector Tubes and Components		240-1031	Injector Tube, OEM # 326503R1

361 C.I., (5.9L), Diesel 12 Valve
L6 361 CIDD361 **44**
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-18	2.000 O.D., 1 $\frac{3}{4}$ I.D., $\frac{5}{16}$ Depth 1.657 O.D., 1.312T I.D., 0.3950 Depth 1.727 O.D., 1.310T I.D., 0.3800 Depth, OEM # 670301C1
	Exh	SB1657E-1	
		SB1727E-2N	
Valve	Int	00924	1.940 Head Diameter

I.H.C. / TRACTOR (Cont'd)

44 361 C.I., (5.9L), Diesel 12 Valve D361
 (cont.) L6 361 CID BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve	Exh	00923	1.625 Head Diameter
Keeper	Both	121-1006	2 RD Bead Type
Guide	Both	140-1957	0.4375 I.D.,3.172 Length,0.6890 O.D.
Spring	Int	160-1285	2.343 Length,Inner
		160-1286	2.562 Length,Outer
	Exh	160-1404	1.982 Length,Inner, W/ Rotator
		160-1405	2.333 Length,Outer, W/ Rotator
Injector Tubes and Components		240-1031	Injector Tube,OEM # 326503R1

45 392 C.I., (6.4L) V392
 V8 392 CID BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2125-3	2 $\frac{1}{8}$ O.D.,1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB1803E-1	1.803 O.D.,1.571 I.D.,0.3120 Depth
Valve	Int	01152	2.078 Head Diameter
	Exh	01133S	1.734 Head Diameter,Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Int	140-7876	0.3745 I.D.,2.906 Length,0.6888 O.D.
	Exh	140-1968	0.4190 I.D.,2.906 Length,0.6890 O.D.,OEM Style
Spring	Both	160-1206	2.050 Length,W/ Damper

46 407 C.I., (6.7L), Turbo Diesel 12 Valve IHC_DT407
 L6 407 CID BORE - 109.753mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-18	2.000 O.D.,1 $\frac{3}{4}$ I.D., $\frac{5}{16}$ Depth
	Exh	SB1727E-2N	1.727 O.D.,1.310T I.D.,0.3800 Depth,OEM # 670301C1
Valve	Int	00924	1.940 Head Diameter
	Exh	00923	1.625 Head Diameter
Keeper	Both	121-1006	2 RD Bead Type
Guide	Both	140-1957	0.4375 I.D.,3.172 Length,0.6890 O.D.
Spring	Int	160-1285	2.343 Length,Inner
		160-1286	2.562 Length,Outer
	Exh	160-1404	1.982 Length,Inner, W/ Rotator
		160-1405	2.333 Length,Outer, W/ Rotator
Injector Tubes and Components		240-1031	Injector Tube,OEM # 326503R1

47 407 C.I., (6.7L), Diesel 12 Valve IHC_D407
 L6 407 CID BORE - 109.753mm/4.32"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-18	2.000 O.D.,1 $\frac{3}{4}$ I.D., $\frac{5}{16}$ Depth
	Exh	SB1727E-2N	1.727 O.D.,1.310T I.D.,0.3800 Depth,OEM # 670301C1
Valve	Int	00924	1.940 Head Diameter
	Exh	00923	1.625 Head Diameter
Keeper	Both	121-1006	2 RD Bead Type
Guide	Both	140-1957	0.4375 I.D.,3.172 Length,0.6890 O.D.
Spring	Int	160-1285	2.343 Length,Inner
		160-1286	2.562 Length,Outer
	Exh	160-1404	1.982 Length,Inner, W/ Rotator

407 C.I., (6.7L), Diesel 12 Valve
L6 407 CIDIHC_D407 **47**
BORE - 109.753mm/4.32" (cont.)

PART		PART NO.	NOTES
Spring	Exh	160-1405	2.333 Length,Outer, W/ Rotator
Injector Tubes and Components		240-1031	Injector Tube,OEM # 326503R1

414 C.I., (6.8L), Diesel, Turbo Diesel/NA, 12 Valve
L6 414 CIDDT414 **48**
BORE - 109.22mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559C1, 675043C1
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 671563C1. 675450C1
Valve	Int	01423	1.970 Head Diameter,Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
	Exh	01422S	1.600 Head Diameter,Stellite Face,Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681234C1
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6265 O.D.,Spiral I.D. Toward Cumbustion,OEM # 675439C1, To 1989
		140-8188	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Cumbustion,OEM # 1815264C1, From 1990
		140-8188SA	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Cumbustion,"Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581
Injector Tubes and Components		240-1024	Injector Tube,OEM # 675442C1

436 C.I., (7.1L), Diesel, Turbo Diesel 12 Valve
L6 436 CIDD436 **49**
BORE - 109.22mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559C1, 675043C1
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 671563C1. 675450C1
Valve	Int	01423	1.970 Head Diameter,Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
	Exh	01422S	1.600 Head Diameter,Stellite Face,Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6265 O.D.,Spiral I.D. Toward Cumbustion,OEM # 675439C1, To 1989
		140-8188	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Cumbustion,OEM # 1815264C1, From 1990
		140-8188SA	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Cumbustion,"Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length
Injector Tubes and Components		240-1024	Injector Tube,OEM # 675442C1

I.H.C. / TRACTOR (Cont'd)

50 466 C.I., (7.6L), DT466/B, DTI466B Diesel, Turbo-Diesel 12 Valve

IHC-D466

L6 466 CID

BORE - 109.22mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D., 1.712T I.D., 0.3860 Depth, +10, & +13 O/S Available
	Exh	SB1628E-1N	1.628 O.D., 1.348T I.D., 0.3650 Depth, +10, +13 O/S Available
Valve	Int	01423	1.970 Head Diameter, Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
	Exh	01422S	1.600 Head Diameter, Stellite Face, Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Exh Both	122-1177	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 681234C1
		122-1301	Positive Type, Viton Material, Top Hat Style, Orange Seal, OEM # 1815374-C1, 1.290 Height, Use W/ Long Guide 140-7431
		122-1320	Positive Type, Viton Material, Top Hat Style, Green Seal, W/ 3/8 Stem Dia., OEM # 1823925-C1, 1.120 Height. Use W/ Short Guide 140-8188
Guide	Both	140-7431	0.3745 I.D., 2.750 Length, 0.6265 O.D., Spiral I.D. Toward Cumbustion, OEM # 675439C1
		140-8188	0.3745 I.D., 2.610 Length, 0.6263 O.D., Spiral I.D. Toward Cumbustion, OEM # 1815264C1
		140-8188SA	0.3745 I.D., 2.610 Length, 0.6263 O.D., Spiral I.D. Toward Cumbustion, "Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length
Rotator	Exh	161-1033	W/ Oil Shield, To S/N 532980
Lifter	Both	170-1012	Mechanical Type, 0.997 Body Dia., Non-Roller, TO S/N 140086, OEM # 911776-R3
Injector Tubes and Components		240-1024	Injector Tube, OEM # 675442C1

51 530 C.I., (8.7L), Diesel Elec. Inj. 12 Valve

IHC_530E

L6 530 CID

BORE - 116.57mm/4.59"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1823E-1	1.823 O.D., 1.560T I.D., 0.2730 Depth, +15 O/S Available, OEM # 1821901-C1, Use W/ 1.786 Valve Head Diameter; NOTE: This Is .002 O/S Of Standard OEM # 1821900-C1 & C3
		SB2001E-1	2.001 O.D., 1.712T I.D., 0.3860 Depth, +10, & +13 O/S Available, OEM # 671559C1, 675043C1; NOTE: Alternate 0.030 Taller Seat To Be Used W/ 1.970 Valve Head Diameter, NOTE: Seat Will Need To Be Machined In Order To Achieve Correct Depth
		SB2001E-2	2.001 O.D., 1.712T I.D., 0.3560 Depth, OEM # 1827121C2; NOTE: Use W/ 1.970 Head, For Oversizes Use SB2001E-1
	Exh	SB1811E-2N	1.811 O.D., 1.548T I.D., 0.3340 Depth, +15 O/S Available, OEM # 1821903-C3
		SB1811E-3	1.811 O.D., 1.548T I.D., 0.3340 Depth, OEM # 1830711-C1
Valve	Int	01945	1.786 Head Diameter, 30 Degree Seat, OEM # 1823875-C1
		02131	1.970 Head Diameter, 5.992 Overall Length, OEM # 1826471C2, 1826471C1, 1842913C1
	Exh	01946S	1.786 Head Diameter, Stellite Face, 45 Degree Seat, OEM # 1824840-C1, 1824840-C1, 1842912-C1
Keeper	Both	121-1091	1 RD Bead Type, For 3/8 Valve Stem, OEM # 1824644C1
Stem Seal	Both	122-1320	Positive Type, Viton Material, Top Hat Style, Green Seal, W/ 3/8 Stem Dia., OEM # 1823925-C1
		122-1426	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 1824683C1, NOTE: Use With 161-1046 Rotator

(Cont'd) I.H.C. / TRACTOR**530 C.I., (8.7L), Diesel Elec. Inj. 12 Valve**
L6 530 CIDIHC_530E **51**
BORE - 116.57mm/4.59" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-8188	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Cumbustion,OEM # 1815264C1
		140-8188SA	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Cumbustion,"Special Alloy", For Ultra Low Sulfur Diesel
Spring	Int	160-1416	2.357 Length,OEM # 677349-C1
	Exh	160-1417	2.580 Length,OEM # 1825540-C1
Rotator	Both	161-1046	OEM # 1824680-C1, W/ 3/8 Stem Dia., NOTE: Includes Oil Shield 1824683C1
Injector Tubes and Components		240-1025	Injector Tube,OEM # 1818778C1, 1818778C2, 1818778C3; NOTE: Early, ESN 980820 - 1194038 Years 1995-1999
		240-1027	Injector Tube,OEM # 1833382C1; NOTE: Late, ESN 1194039 - Up, To MY2004

530 C.I., (8.7L), Diesel 12 Valve
L6 530 CIDIHC_530 **52**
BORE - 116.57mm/4.59"

PART		PART NO.	NOTES
Valve	Int	01899	1.970 Head Diameter,5/16 Stem Dia., OEM # 1818580-C1
		01943	1.970 Head Diameter,3/8 Stem Dia., OEM # 1824642-C1/C2
	Exh	01900S	1.600 Head Diameter,Stellite Face,5/16 Stem Dia., OEM # 1818579-C1, 1824838-C1
		01944S	1.600 Head Diameter,Stellite Face,3/8 Stem Dia., OEM # 1824842-C1
Keeper	Both	121-1011	1 SQ Bead Type,For 5/16 Valve Stem, OEM # 1810944C1
Stem Seal	Both	122-1300	Positive Type,Viton Material,Top Hat Style,W/ 5/16 Stem Dia., OEM # 1822245C1
		122-1320	Positive Type,Viton Material,Top Hat Style,Green Seal,W/ 3/8 Stem Dia., OEM # 1823925-C1
		122-1426	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-3006	0.3745 I.D.,2.395 Length,0.6265 O.D.,OEM # 1824646-C1, For 3/8 Stem
		140-8476	0.3146 I.D.,2.440 Length,0.5651 O.D.,For 5/16 Stem, OEM Replacement, OEM # 1820264-C1, Check Press Fit
Spring	Int	160-1416	2.357 Length,OEM # 677349-C1
	Exh	160-1417	2.580 Length,OEM # 1825540-C1
Rotator	Both	161-1046	OEM # 1824680-C1, W/ 3/8 Stem Dia., NOTE: Includes Oil Shield 1824683C1
		161-1049	OEM # 1820826-C91, W/ 5/16 Stem Dia., Includes Oil Shield
Injector Tubes and Components		240-1024	Injector Tube,OEM # 675442C1

691 C.I., (11.3L), Diesel, 12 Valve
L6 691 CIDD691 **53**
BORE - 120.7mm/4.75"

PART		PART NO.	NOTES
Guide	Both	140-4944	0.3120 I.D.,2.688 Length,0.6270 O.D.

817 C.I., (13.4L), Diesel
L6 817 CIDDT817 **54**
BORE - 136.5mm/5.375"

PART		PART NO.	NOTES
Guide	Both	140-6913	0.4375 I.D.,3.438 Length,0.6888 O.D.

I.H.C. NAVISTAR / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
152 C.I., (2.5L)		1
196 C.I., (3.2L)		2
6 Cylinder		
220 C.I., (3.6L), BD220 12 Valve		3
220 C.I., (3.6L), SD220 12 Valve		4
220 C.I., (3.6L), BG220 12 Valve		5
232 C.I., (3.8L), HD232 12 Valve, 1937-49		6
232 C.I., (3.8L), HD232A 12 Valve, 1937-49		7
232 C.I., (3.8L), HD232C 12 Valve, 1937-49		8
232 C.I., (3.8L), 12 Valve AMC, 1969-78		9
233 C.I., (3.8L), GRD233A 12 Valve, 1937-49		10
240 C.I., (3.9L), BG240 12 Valve		11
240 C.I., (3.9L), BD240 12 Valve, 1950-69		12
240 C.I., (3.9L), SD240 12 Valve, 1950-69		13
241 C.I., (3.9L), BG241 12 Valve, 1949-71		14
241 C.I., (3.9L), FAB241 12 Valve, 1937-40		15
250 C.I., (4.1L), BLD250 12 Valve, 1941-49		16
258 C.I., (4.2L), 12 Valve AMC, 1971-78		17
259 C.I., (4.3L), FAB259 12 Valve, 1938-40		18
264 C.I., (4.3L), BG264 12 Valve, 1955-69		19
264 C.I., (4.3L), BD264 12 Valve, 1955-69		20
265 C.I., (4.3L), BG265 12 Valve, 1955-69		21
269 C.I., (4.4L), BLD269 12 Valve, 1942-56		22
269 C.I., (4.4L), BLD269A 12 Valve, 1942-56		23
269 C.I., (4.4L), BD269 12 Valve, 1942-56		24
275 C.I., (4.5L), VT275, OHV, DIESEL, FI, 24 Valve "MaxxForce 5"	Ford LCF, International CF, City Star	25
282 C.I., (4.6L), BD282 12 Valve, 1953-69		26
301 C.I., (4.9L), D301 12 Valve		27
308 C.I., (5.0L), BD308 12 Valve, 1955-69		30
318 C.I., (5.2L), RED318A 12 Valve		31
318 C.I., (5.2L), RED318 12 Valve		32
360 C.I., (5.9L), Diesel 12 Valve		35
360 C.I., (5.9L), Turbo-Diesel 12 Valve		36
361 C.I., (5.9L), FBC361 12 Valve, 1938-49		37
361 C.I., (5.9L), FBB361 12 Valve, 1938-49		38
361 C.I., (5.9L), RED361A 12 Valve, 1938-49		39
361 C.I., (5.9L), RED361 12 Valve, 1938-49		40
372 C.I., (6.0L), RD372 12 Valve, 1954-69		42
401 C.I., (6.6L), RED401A 12 Valve, 1938-49		48
401 C.I., (6.6L), FBC401 12 Valve, 1938-49		49
401 C.I., (6.6L), RED401 12 Valve, 1938-49		50
406 C.I., (6.6L), RD406 12 Valve, 1954-69		52
407 C.I., (6.7L), Turbo Diesel 12 Valve		53

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

Engine	Models	Line No.
6 Cylinder		
407 C.I., (6.7L), Diesel 12 Valve		54
408 C.I., (6.7L), DT408		55
414 C.I., (6.8L), D414NA		56
436 C.I., (7.1L), D436 &DT436		58
450 C.I., (7.3L), RED450 12 Valve		63
450 C.I., (7.3L), RED450A 12 Valve		64
450 C.I., (7.3L), RD450 12 Valve, 1954-69		65
466 C.I., (7.6L), Turbo Diesel Mech. Inj. 12 Valve		67
466 C.I., (7.6L), DTI466B Turbo Diesel 12 Valve		68
466 C.I., (7.6L), HEUI Diesel Elec. Inj. 12 Valve		69
466 C.I., (7.6L), Diesel Direct Inj. 24 Valve "MaxxForce DT"		70
466 C.I., (7.6L), DTA466C		71
466 C.I., (7.6L), Diesel 12 Valve		72
466 C.I., (7.6L), DT-DTA466		73
501 C.I., (8.2L), RD501 12 Valve		76
530 C.I., (8.7L), Diesel Mechanical Inj. 12 Valve		77
530 C.I., (8.7L), Diesel Electrical Inj. 12 Valve		78
570 C.I., (9.3L), Turbo Diesel Direct Inj. 24 Valve "MaxxForce 9"		83
758 C.I., (12.4L), SOHC, Turbo Diesel Direct Inj. 24 Valve "MaxxForce 13"		85
8 Cylinder		
304 C.I., (5.0L), V304		28
304 C.I., (5.0L), V304A		29
345 C.I., (5.6L), V345A		33
345 C.I., (5.6L), V345		34
365 C.I., (6.0L), VT365, OHV, DIESEL, FI, 32 Valve, "Powerstroke"		41
392 C.I., (6.4L), V392		43
389 C.I., (6.4L), OHV, Turbo Diesel Direct Inj. 32 Valve "MaxxForce 7"		44
400 C.I., (6.6L), V400, 1974-75		45
401 C.I., (6.6L), V401		46
401 C.I., (6.6L), VS401		47
404 C.I., (6.6L), MV404		51
420 C.I., (6.9L), Diesel, 1983-87		57
444 C.I., (7.3L), Diesel, 1988-95		59
444 C.I., (7.3L), Turbo Diesel Indirect Injection, 1993-95		60
444 C.I., (7.3L), Power Stroke, Turbo Diesel Direct Inj.		61
446 C.I., (7.3L), MV446		62
461 C.I., (7.5L), V461		66
478 C.I., (7.8L), VS478		74
478 C.I., (7.8L), V478		75
537 C.I., (8.8L), V537		79
549 C.I., (9.0L), VS549 & FTVS549		80

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
8 Cylinder		
549 C.I., (9.0L), V549 & FTV549		81
551 C.I., (9.0L), Diesel		82
605 C.I., (9.9L), 16 Valve GAS		84

1 152 C.I., (2.5L)

L4 152 CID

IHN152
BORE - 98.425mm/3.80"

PART	PART NO.	NOTES
Valve Seat Insert	Exh SB1678E-1	1.678 O.D., 1.446 I.D., 0.3120 Depth
Valve	Int 00560	1.969 Head Diameter, OEM # 151269R2
	Exh 00559S	1.609 Head Diameter, Stellite Face, OEM # 151443R2
Keeper	Both 121-1007	1 SQ Bead Type, OEM # 41339D
Stem Seal	Both 122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Both 140-7876	0.3745 I.D., 2.906 Length, 0.6888 O.D., OEM # 151798R1
Lifter	Both VL32	Hydraulic Type, OEM # 217158R92

2 196 C.I., (3.2L)

L4 196 CID

IHN196
BORE - 104.775mm/4.125"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2125-3	2 $\frac{1}{8}$ O.D., 1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth
	Exh SB1803E-1	1.803 O.D., 1.571 I.D., 0.3120 Depth
Valve	Int 01152	2.078 Head Diameter, OEM # 352177C1
	Exh 01133S	1.734 Head Diameter, Stellite Face, OEM # 874918R2
Keeper	Both 121-1007	1 SQ Bead Type, OEM # 41339D
Stem Seal	Both 122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Int 140-7876	0.3745 I.D., 2.906 Length, 0.6888 O.D., OEM # 151798R1, -1 U/S I.D.
	Exh 140-7860	0.4180 I.D., 2.906 Length, 0.6890 O.D., Counterbored
	140-8223	0.4190 I.D., 2.906 Length, 0.6887 O.D., Counterbored
Spring	Both 160-1206	2.050 Length, W/ Damper
Lifter	Both VL32	Hydraulic Type, OEM # 217158R92
Rocker Components	Int 180-1290	Rocker Arm, OEM # 404064C1
	Exh 180-1291	Rocker Arm, OEM # 401065C1
Push Rod	Both 190-1370	9.779 Length, Note: Ball Ends, W/ Boat Type Rocker Arm

3 220 C.I., (3.6L), BD220 12 Valve

L6 220 CID

BD220
BORE - 90.4mm/3.50"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1687-3	1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available Non-Magnetic (N) Material
	Exh SB1562-8	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth
Guide	Both 140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

4 220 C.I., (3.6L), SD220 12 Valve

L6 220 CID

SD220
BORE - 90.4mm/3.50"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1687-3	1 $\frac{11}{16}$ O.D., 1 $\frac{7}{16}$ I.D., $\frac{1}{4}$ Depth, Also Available Non-Magnetic (N) Material
	Exh SB1562-8	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth
Stem Seal	Both 122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Both 140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

220 C.I., (3.6L), BG220 12 Valve **BG220 5**
L6 220 CID **BORE - 90.4mm/3.50"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ¹⁷ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material
	Exh	SB1562-8		1^{9}/_{16} O.D., 1^{5}/_{16} I.D., 7/32 Depth
Guide	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

232 C.I., (3.8L), HD232 12 Valve, 1937-49 **HD232 6**
L6 232 CID **BORE - 84.1mm/3.3125"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1562-6		1^{9}/_{16} O.D., 1^{1}/_{4} I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Guide	Both	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

232 C.I., (3.8L), HD232A 12 Valve, 1937-49 **HD232A 7**
L6 232 CID **BORE - 84.1mm/3.3125"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1562-6		1^{9}/_{16} O.D., 1^{1}/_{4} I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Guide	Both	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

232 C.I., (3.8L), HD232C 12 Valve, 1937-49 **HD232C 8**
L6 232 CID **BORE - 84.1mm/3.3125"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1562-6		1^{9}/_{16} O.D., 1^{1}/_{4} I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Guide	Both	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)

232 C.I., (3.8L), 12 Valve AMC, 1969-78 **IHN232 9**
L6 232 CID **BORE - 95.25mm/3.70"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1500-1		1^{1}/_{2} O.D., 1^{1}/_{4} I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01260	1.787 Head Diameter, 4 Groove, OEM # 444829C1, From S/N 507A01, 1973-78
		01442	1.787 Head Diameter, 1 Groove, 1969-72
	Exh	01325	1.406 Head Diameter, 4 Groove, From S/N 507A01, 1973-78
		01441	1.406 Head Diameter, 1 Groove, 1969-72

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

9 232 C.I., (3.8L), 12 Valve AMC, 1969-78 IHN232
 (cont.) L6 232 CID BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Keeper	Both	121-1007 121-1014	1 SQ Bead Type,OEM # 41339D, W/ 3/8 Stem Dia., 1969-72 4 RD Bead Type,1973-78
Stem Seal	Both	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
Guide	Both	140-6108 140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U) 0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Both	160-1023	2.034 Length,W/O Rotator
Lifter	Both	VL89	Hydraulic Type,OEM # 446571C1
Rocker Components	Both	181-1028 183-1028	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Bridge ,1974-78 Bridge,When Replacing, Fulcrum # 183-1027 Must Also Be Used, 1974-78
Push Rod	Both	190-1429 190-1440	9.594 Length,W/ Stamped Steel Rocker Arms, 1972-76 9.622 Length,1977-78

10 233 C.I., (3.8L), GRD233A 12 Valve, 1937-49 GRD233A
 L6 233 CID BORE - 84.1mm/3.3125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹⁹ / ₁₆ O.D.,1 ¹ / ₂ I.D.,1/4 Depth,+30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1562-6	1 ¹⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

11 240 C.I., (3.9L), BG240 12 Valve IHN240
 L6 240 CID BORE - 90.4mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D.,1/4 Depth,Also Available Non-Magnetic (N) Material,W/ 1.656 Valve Head Dia.
	Exh	SB1875-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D.,1/4 Depth,Also Available In Non-Magnetic (N) Material
		SB1562-8	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D.,7/32 Depth

12 240 C.I., (3.9L), BD240 12 Valve, 1950-69 BD240
 L6 240 CID BORE - 90.4mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D.,1/4 Depth,Also Available Non-Magnetic (N) Material,W/ 1.656 Valve Head Dia.
	Exh	SB1875-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D.,1/4 Depth,Also Available In Non-Magnetic (N) Material
		SB1562-8	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D.,7/32 Depth
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Both	140-1747	0.3760 I.D.,2.420 Length,0.6268 O.D.,Special Alloy,OEM # 237248R1

13 240 C.I., (3.9L), SD240 12 Valve, 1950-69 SD240
 L6 240 CID BORE - 90.4mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D.,1/4 Depth,Also Available Non-Magnetic (N) Material,W/ 1.656 Valve Head Dia.
	Exh	SB1875-1	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D.,1/4 Depth,Also Available In Non-Magnetic (N) Material,W/ 1.780 Valve Head Dia.
		SB1562-8	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D.,7/32 Depth,Early SD240 Engine
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Both	140-1747	0.3760 I.D.,2.420 Length,0.6268 O.D.,Special Alloy,OEM # 237248R1

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

241 C.I., (3.9L), BG241 12 Valve, 1949-71
L6 241 CID

IHN241 **14**
BORE - 90.4mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-3	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., 1/4 Depth, Also Available Non-Magnetic (N) Material, W/ 1.656 Valve Head Dia.
		SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material, W/ 1.780 Valve Head Dia.
	Exh	SB1562-8	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth
Guide	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

241 C.I., (3.9L), FAB241 12 Valve, 1937-40
L6 241 CID

FAB241 **15**
BORE - 85.7mm/3.375"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

250 C.I., (4.1L), BLD250 12 Valve, 1941-49
L6 250 CID

BLD250 **16**
BORE - 87.2mm/3.40"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-1	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non Magnetic (N) Material
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

258 C.I., (4.2L), 12 Valve AMC, 1971-78
L6 258 CID

IHN258 **17**
BORE - 95.25mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01260	1.787 Head Diameter, 4 Groove, OEM # 444829C1, From S/N 507A01
	Exh	01325	1.406 Head Diameter, 4 Groove, From S/N 507A01
Keeper	Both	121-1014	4 RD Bead Type
Stem Seal	Both	122-1005	Umbrella Type, Rubber Material, Umbrella Style
Guide	Both	140-6108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Lifter	Both	VL89	Hydraulic Type, OEM # 387095C1
Rocker Components	Both	180-1236	Rocker Arm, 1975-78
Push Rod	Both	190-1429	9.594 Length, 1972-75
		190-1440	9.622 Length, 1976-78

259 C.I., (4.3L), FAB259 12 Valve, 1938-40
L6 259 CID

FAB259 **18**
BORE - 88.8mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

19 264 C.I., (4.3L), BG264 12 Valve, 1955-69
L6 264 CID

BG264
BORE - 93.6mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1562-8		1^{9}/_{16} O.D., 1^{5}/_{16} I.D., 7/32 Depth

20 264 C.I., (4.3L), BD264 12 Valve, 1955-69
L6 264 CID

BD264
BORE - 93.6mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1562-8		1^{9}/_{16} O.D., 1^{5}/_{16} I.D., 7/32 Depth
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

21 265 C.I., (4.3L), BG265 12 Valve, 1955-69
L6 265 CID

BG265
BORE - 93.6mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D., 1 ⁵ / ₈ I.D., 1/4 Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1562-8		1^{9}/_{16} O.D., 1^{5}/_{16} I.D., 7/32 Depth
Guide	Both	140-1747	0.3760 I.D., 2.420 Length, 0.6268 O.D., Special Alloy, OEM # 237248R1

22 269 C.I., (4.4L), BLD269 12 Valve, 1942-56
L6 269 CID

BLD269
BORE - 90.4mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1562-1	
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style

23 269 C.I., (4.4L), BLD269A 12 Valve, 1942-56
L6 269 CID

BLD269A
BORE - 90.4mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1562-1	
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style

24 269 C.I., (4.4L), BD269 12 Valve, 1942-56
L6 269 CID

BD269
BORE - 90.4mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.680 Valve Head Dia.
	Exh	SB1562-1	
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style

25 275 C.I., (4.5L), VT275, OHV, DIESEL, FI, 24 Valve "MaxxForce 5"
V6 275 CID

VT275
BORE - 95.0mm/3.7401"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-2	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., 1/4 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	SB1250-15N	

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

275 C.I., (4.5L), VT275, OHV, DIESEL, FI, 24 Valve "MaxxForce 5" **VT275 25**
V6 275 CID BORE - 95.0mm/3.7401" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1250-3	1¼ O.D., 1.000 I.D., ¼ Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	02179	1.339 Head Diameter, OEM # 1837731C1
	Exh	02180	1.102 Head Diameter, OEM # 1837732C1
Keeper	Both	121-1105A	1 RD Bead Type, OEM # 1828289C1
Stem Seal	Both	122-1378	Positive Type, Viton Material, Top Hat Style
Guide	Both	140-3055	0.2765 I.D., 2.331 Length, 0.4395 O.D.
Spring	Both	160-1458	2.076 Length, OEM # 1838034C1
Lifter	Both	VL114	Hydraulic Roller Type
Push Rod	Both	190-1548	9.795 Length, OEM # 1873916C2; Note: Bronze Colored End MUST Install Towards Rocker Arm.
Head Saver Shim		230-2148	New Hgt. N/A: Min. Hgt. N/A: 2 Required
		230-2196	New Hgt. N/A: Min. Hgt. N/A: 2 Required; NOTE: W/20mm Dowel Pins
Injector Tubes and Components		240-1034	Injector Tube, OEM # 1828320C1
		240-1034GP	OEM # 1835235C1; NOTE: Glow Plug Sleeve

282 C.I., (4.6L), BD282 12 Valve, 1953-69 **BD282 26**
L6 282 CID BORE - 96.8mm/3.81"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 ⁷ / ₈ O.D., 1 ¹ / ₈ I.D., ¼ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1750-3	1 ³ / ₄ O.D., 1 ¹ / ₁₆ I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style

301 C.I., (4.9L), D301 12 Valve **IHND301 27**
L6 301 CID BORE - 96.8mm/3.81"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1375-4	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., 3/16 Depth
Guide	Both	140-1881	0.3745 I.D., 2.844 Length, 0.6265 O.D., OEM # 278370R1, +2 O/S Available

304 C.I., (5.0L), V304 **IHNV304 28**
V8 304 CID BORE - 98.425mm/3.87"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1678E-1	1.678 O.D., 1.446 I.D., 0.3120 Depth
Valve	Int	00560	1.969 Head Diameter, OEM # 151269R2
	Exh	00559S	1.609 Head Diameter, Stellite Face, OEM # 151443R2, +15 O/S Stem Available
Keeper	Both	121-1007	1 SQ Bead Type, OEM # 41339D
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Both	140-7876	0.3745 I.D., 2.906 Length, 0.6888 O.D., OEM # 151798R1
Lifter	Both	VL32	Hydraulic Type, OEM # 217158R91
Rocker Components	Int	180-1290	Rocker Arm, OEM # 404064C1
	Exh	180-1291	Rocker Arm, OEM # 401065C1

304 C.I., (5.0L), V304A **IHNV304A 29**
V8 304 CID BORE - 98.425mm/3.87"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1678E-1	1.678 O.D., 1.446 I.D., 0.3120 Depth

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

29 304 C.I., (5.0L), V304A IHNV304A
 (cont.) V8 304 CID BORE - 98.425mm/3.87"

PART		PART NO.	NOTES
Valve	Int	00560	1.969 Head Diameter,OEM # 151269R2
	Exh	00559S	1.609 Head Diameter,Stellite Face,OEM # 151443R3
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Both	140-7876	0.3745 I.D.,2.906 Length,0.6888 O.D.,OEM # 151798R1
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11
Lifter	Both	VL32	Hydraulic Type,OEM # 217158R91

30 308 C.I., (5.0L), BD308 12 Valve, 1955-69 BD308
 L6 308 CID BORE - 96.8mm/3.81"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-1	1 $\frac{7}{8}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material
	Exh	SB1750-3	1 $\frac{3}{4}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Non-Magnetic (N) Material

31 318 C.I., (5.2L), RED318A 12 Valve RED318A
 L6 318 CID BORE - 98.4mm/3.87"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1625-3	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material

32 318 C.I., (5.2L), RED318 12 Valve RED318
 L6 318 CID BORE - 98.4mm/3.87"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1625-3	1 $\frac{5}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material

33 345 C.I., (5.6L), V345A IHNV345A
 V8 345 CID BORE - 98.425mm/3.87"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1678E-1	1.678 O.D.,1.446 I.D.,0.3120 Depth
Valve	Int	00560	1.969 Head Diameter,OEM # 151269R2
	Exh	00559S	1.609 Head Diameter,Stellite Face,OEM # 151443R3
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D
Guide	Both	140-7876	0.3745 I.D.,2.906 Length,0.6888 O.D.,OEM # 151798R1
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11
Lifter	Both	VL32	Hydraulic Type,OEM # 217158R91
Push Rod	Both	190-1370	9.779 Length>Note: Ball Ends, W/ Boat Type Rocker Arm

34 345 C.I., (5.6L), V345 IHNV345
 V8 345 CID BORE - 98.425mm/3.87"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1678E-1	1.678 O.D.,1.446 I.D.,0.3120 Depth
Valve	Int	00560	1.969 Head Diameter,OEM # 151269R2
	Exh	00559S	1.609 Head Diameter,Stellite Face,OEM # 151443R3
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Both	140-7876	0.3745 I.D.,2.906 Length,0.6888 O.D.,OEM # 151798R1
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11
Lifter	Both	VL32	Hydraulic Type,OEM # 217158R92
Rocker Components	Int	180-1290	Rocker Arm,OEM # 404064C1
	Exh	180-1291	Rocker Arm,OEM # 401065C1

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

345 C.I., (5.6L), V345 **IHNV345 34**
V8 345 CID **BORE - 98.425mm/3.87" (cont.)**

PART		PART NO.	NOTES
Push Rod	Both	190-1370	9.779 Length,Note: Ball Ends, W/ Boat Type Rocker Arm

360 C.I., (5.9L), Diesel 12 Valve **IHND360 35**
L6 360 CID **BORE - 98.425mm/3.87"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-1	1.782 O.D.,1.490T I.D.,0.3400 Depth,+15 O/S Available,OEM # 671602C1 & 675441C
	Exh	SB1536E-2N	1.5365 O.D.,1.255T I.D.,0.3585 Depth,+15 O/S Available,OEM # 671599C1 & 675576C1
Valve	Int	01520	1.710 Head Diameter,OEM # 676687C1
	Exh	01519	1.455 Head Diameter,OEM # 675573C2
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D
Stem Seal	Both	122-1301	Positive Type,Viton Material,Top Hat Style,Orange Seal,OEM # 1815374C1
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6265 O.D.,Spiral I.D. Toward Cumbustion,OEM # 675439C1
Spring	Both	160-1190	2.400 Length,OEM # 682064C1
Injector Tubes and Components		240-1024	Injector Tube,OEM # 675442C1

360 C.I., (5.9L), Turbo-Diesel 12 Valve **DT360 36**
L6 360 CID **BORE - 101.78mm/4.010"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-1	1.782 O.D.,1.490T I.D.,0.3400 Depth,+15 O/S Available,OEM # 671602C1 & 675441C
	Exh	SB1536E-2N	1.5365 O.D.,1.255T I.D.,0.3585 Depth,+15 O/S Available,OEM # 671599C1 & 675576C1
Valve	Int	01520	1.710 Head Diameter,OEM # 676687
	Exh	01574S	1.455 Head Diameter,Stellite Face,OEM # 1810086
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Both	122-1301 122-1426	Positive Type,Viton Material,Top Hat Style,Orange Seal Umbrella Type,Nylon Material,Oil Shield Style,OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6265 O.D.,Spiral I.D. Toward Cumbustion,OEM # 675439C1
Spring	Both	160-1190	2.400 Length,OEM # 682064
Rotator	Both	161-1046	OEM # 1824680C1, NOTE: Includes Oil Shield 1824683C1
Injector Tubes and Components		240-1024	Injector Tube,OEM # 675442C1

361 C.I., (5.9L), FBC361 12 Valve, 1938-49 **FBC361 37**
L6 361 CID **BORE - 104.7mm/4.12"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 ³ / ₈ O.D.,2.000 I.D., ⁹ / ₃₂ Depth
	Exh	SB1750-8	1 ³ / ₄ O.D.,1 ¹ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material

361 C.I., (5.9L), FBB361 12 Valve, 1938-49 **FBB361 38**
L6 361 CID **BORE - 104.7mm/4.12"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 ³ / ₈ O.D.,2.000 I.D., ⁹ / ₃₂ Depth
	Exh	SB1750-8	1 ³ / ₄ O.D.,1 ¹ / ₈ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

39 361 C.I., (5.9L), RED361A 12 Valve, 1938-49

L6 361 CID

RED361A
BORE - 104.7mm/4.12"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 ³ / ₈ O.D., 2.000 I.D., ⁹ / ₃₂ Depth
	Exh	SB1750-8	1 ³ / ₄ O.D., 1 ³ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material

40 361 C.I., (5.9L), RED361 12 Valve, 1938-49

L6 361 CID

RED361
BORE - 104.7mm/4.12"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 ³ / ₈ O.D., 2.000 I.D., ⁹ / ₃₂ Depth
	Exh	SB1750-8	1 ³ / ₄ O.D., 1 ³ / ₈ I.D., ¹ / ₄ Depth, Also Available In Non-Magnetic (N) Material

41 365 C.I., (6.0L), VT365, OHV, DIESEL, FI, 32 Valve, "Powerstroke"

V8 365 CID

VT365
BORE - 95mm/3.74"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-2	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., ¹ / ₄ Depth, Note: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	SB1250-15N	1 ¹ / ₄ O.D., 0.905 I.D., ¹ / ₄ Depth, NOTE: Star Series Material W/ Smaller I.D.; NOTE: Seat May Need To Be Machined To Achieve Correct Depth
		SB1250-3	1 ¹ / ₄ O.D., 1.000 I.D., ¹ / ₄ Depth, Note: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	02179	1.339 Head Diameter, OEM # 1837731C1
	Exh	02180	1.102 Head Diameter, OEM # 1837732C1
Keeper	Both	121-1105A	1 RD Bead Type, OEM # 1828289C1
Stem Seal	Both	122-1378	Positive Type, Viton Material, Top Hat Style
Guide	Both	140-3055	0.2765 I.D., 2.331 Length, 0.4395 O.D.
Spring	Both	160-1458	2.076 Length, OEM # 1838034C1
Lifter	Both	VL114	Hydraulic Roller Type
Push Rod	Both	190-1548	9.795 Length, OEM # 1873916C2; Note: Bronze Colored End MUST Install Towards Rocker Arm.
Head Saver Shim		230-2148	New Hgt. N/A; Min. Hgt. N/A; 2 Required; NOTE: W/18mm Dowel Pins
		230-2196	New Hgt. N/A; Min. Hgt. N/A; 2 Required; NOTE: W/20mm Dowel Pins
Injector Tubes and Components		240-1034	Injector Tube, OEM # 1828320C1
		240-1034GP	OEM # 1835235C1; NOTE: Glow Plug Sleeve

42 372 C.I., (6.0L), RD372 12 Valve, 1954-69

L6 372 CID

RD372
BORE - 111mm/4.37"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1875-7	1 ⁷ / ₈ O.D., 1 ¹⁹ / ₃₂ I.D., ¹ / ₄ Depth, Also Available In Powdered Metal (PM) Material

43 392 C.I., (6.4L), V392

V8 392 CID

IHNV392
BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2125-3	2 ¹ / ₈ O.D., 1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB1803E-1	1.803 O.D., 1.571 I.D., 0.3120 Depth
Valve	Int	01152	2.078 Head Diameter, OEM # 352177C1
	Exh	01133S	1.734 Head Diameter, Stellite Face, OEM # 874918R2
Keeper	Both	121-1007	1 SQ Bead Type, OEM # 41339D
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Int	140-7876	0.3745 I.D., 2.906 Length, 0.6888 O.D., OEM # 151798R1, -1 U/S I.D.
	Exh	140-7860	0.4180 I.D., 2.906 Length, 0.6890 O.D., Counterbored
		140-8223	0.4190 I.D., 2.906 Length, 0.6887 O.D., Counterbored
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

392 C.I., (6.4L), V392

V8 392 CID

IHNV392 **43**

BORE - 104.775mm/4.125" (cont.)

PART		PART NO.	NOTES
Lifter	Both	VL32	Hydraulic Type,OEM # 217158R91
Rocker Components	Int	180-1290	Rocker Arm,OEM # 404064C1
	Exh	180-1291	Rocker Arm,OEM # 404064C1
Push Rod	Both	190-1370	9.779 Length,Note: Ball Ends, W/ Boat Type Rocker Arm

389 C.I., (6.4L), OHV, Turbo Diesel Direct Inj. 32 Valve "MaxxForce 7"

V8 389 CID

MAXX-7 **44**

BORE - 98mm/3.86"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-2	1 $\frac{3}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	SB1250-15N	1 $\frac{1}{4}$ O.D.,0.905 I.D., $\frac{1}{4}$ Depth,NOTE: Star Series Material W/ Smaller I.D.;
		SB1250-3	NOTE: Seat May Need To Be Machined To Achieve Correct Depth 1 $\frac{1}{4}$ O.D.,1.000 I.D., $\frac{1}{4}$ Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	13182	1.339 Head Diameter,OEM # 1854006C1
	Exh	13183	1.161 Head Diameter,OEM # 1854007C1
Keeper	Both	121-1105A	1 RD Bead Type,OEM # 1828289C1
Stem Seal	Both	122-1378	Positive Type,Viton Material,Top Hat Style
Guide	Both	140-3055	0.2765 I.D.,2.331 Length,0.4395 O.D.
Spring	Both	160-1458	2.076 Length,OEM # 18038034C1
Lifter	Both	VL114	Hydraulic Roller Type
Push Rod	Both	190-1548	9.795 Length,OEM # 1873916C2; Note: Bronze Colored End MUST Install Towards Rocker Arm.
Head Saver Shim		230-2178	New Hgt. - 3.740; Min. Hgt. - N/A
Injector Tubes and Components		240-1043	Injector Tube

400 C.I., (6.6L), V400, 1974-75

V8 400 CID

IHNV400 **45**

BORE - 105.79mm/4.165"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2125-1	2 $\frac{1}{8}$ O.D.,1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	SB1750-3N	1 $\frac{3}{4}$ O.D.,1 $\frac{7}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	01258	2.025 Head Diameter,4 Groove,+15 O/S Stem Available
	Exh	01257	1.680 Head Diameter,1 Groove
Keeper	Int	121-1014	4 RD Bead Type
	Exh	121-1003	1 SQ Bead Type,OEM # 41339D
Stem Seal	Both	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
Guide	Both	140-6108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Plain I.D. Conversion Guide, -5 U/S I.D. Also Available (140-6108U)
		140-9108	0.3740 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,Hardened Version Available (140-9108H), -5 I.D. Available (140-9108U)
Spring	Int	160-1217	2.038 Length,Outer, OEM # 9N5496
		160-1218	1.920 Length,Inner, OEM # 9N5495
Rocker Components	Both	183-1014	Fulcrum, Short
		183-1028	Bridge,When Replacing, Fulcrum # 183-1014 Must Also Be Used
Push Rod	Both	192-1331	7.798 Length

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

46 401 C.I., (6.6L), V401

V8 401 CID

IHNV401

BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 $\frac{1}{4}$ O.D., 1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB2000-3C	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth, Optional Stellite
		SB2000-3N	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth
Keeper	Both	121-1009	1 SQ Bead Type, OEM # 61868R11
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style, From S/N 139494
Guide	Int	140-1817	0.4385 I.D., 3.063 Length, 0.6265 O.D., OEM # 133670R1
	Exh	140-8224	0.4385 I.D., 3.250 Length, 0.6920 O.D., OEM # 133595R1
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11, Late Engines

47 401 C.I., (6.6L), VS401

V8 401 CID

VS401

BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 $\frac{1}{4}$ O.D., 1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB2000-3C	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth, Optional Stellite
		SB2000-3N	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth
Keeper	Both	121-1009	1 SQ Bead Type, OEM # 61868R11
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style, From S/N 139494
Guide	Int	140-1817	0.4385 I.D., 3.063 Length, 0.6265 O.D., OEM # 133670R1
	Exh	140-8224	0.4385 I.D., 3.250 Length, 0.6920 O.D., OEM # 133595R1
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11

48 401 C.I., (6.6L), RED401A 12 Valve, 1938-49

L6 401 CID

RED401A

BORE - 104.7mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 $\frac{3}{8}$ O.D., 2.000 I.D., $\frac{9}{32}$ Depth
	Exh	SB1750-8	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material

49 401 C.I., (6.6L), FBC401 12 Valve, 1938-49

L6 401 CID

FBC401

BORE - 104.7mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 $\frac{3}{8}$ O.D., 2.000 I.D., $\frac{9}{32}$ Depth
	Exh	SB1750-8	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material

50 401 C.I., (6.6L), RED401 12 Valve, 1938-49

L6 401 CID

RED401

BORE - 104.7mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2375-2	2 $\frac{3}{8}$ O.D., 2.000 I.D., $\frac{9}{32}$ Depth
	Exh	SB1750-8	1 $\frac{3}{4}$ O.D., 1 $\frac{1}{8}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material

51 404 C.I., (6.6L), MV404

V8 404 CID

MV404

BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2125-1	2 $\frac{1}{8}$ O.D., 1 $\frac{13}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	SB1654E-1N	1.654 O.D., 1.367 I.D., 0.3120 Depth, OEM # 1805249C1
Valve	Int	01432	2.054 Head Diameter, OEM # 446418C1
	Exh	01431S	1.535 Head Diameter, Stellite Face, OEM # 446854C1
Keeper	Both	121-1007	1 SQ Bead Type, OEM # 41339D
Guide	Both	140-7174	0.3745 I.D., 2.600 Length, 0.6252 O.D., OEM # 446723C1
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365C11
Lifter	Both	VL89	Hydraulic Type, OEM # 387095C1

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

406 C.I., (6.6L), RD406 12 Valve, 1954-69
L6 406 CID

RD406 **52**
BORE - 111mm/4.37"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1875-1N	1 $\frac{7}{8}$ O.D., 1 $\frac{5}{8}$ I.D., $\frac{1}{4}$ Depth

407 C.I., (6.7L), Turbo Diesel 12 Valve
L6 407 CID

DT407 **53**
BORE - 109.753mm/4.32"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2000-18 SB1727E-2N	2.000 O.D., 1 $\frac{3}{4}$ I.D., $\frac{5}{16}$ Depth 1.727 O.D., 1.310T I.D., 0.3800 Depth, OEM # 670301C1
Valve	Int Exh	00924 00923	1.940 Head Diameter, OEM # 670308C1 1.625 Head Diameter, OEM # 612313C1
Keeper	Both	121-1006	2 RD Bead Type
Guide	Both	140-1957	0.4375 I.D., 3.172 Length, 0.6890 O.D., OEM # 326505R3
Spring	Int Exh	160-1285 160-1286 160-1404 160-1405	2.343 Length, Inner, OEM # 62264VA 2.562 Length, Outer, OEM # 62265VA 1.982 Length, Inner, OEM # 160907R1, W/ Rotator 2.333 Length, Outer, OEM # 160908R1, W/ Rotator
Injector Tubes and Components		240-1031	Injector Tube, OEM # 326503R1

407 C.I., (6.7L), Diesel 12 Valve
L6 407 CID

D407 **54**
BORE - 109.753mm/4.32"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2000-18 SB1727E-2N	2.000 O.D., 1 $\frac{3}{4}$ I.D., $\frac{5}{16}$ Depth 1.727 O.D., 1.310T I.D., 0.3800 Depth, OEM # 670301C1
Valve	Int Exh	00924 00923	1.940 Head Diameter, OEM # 343433R1 1.625 Head Diameter, OEM # 341350R1
Keeper	Both	121-1006	2 RD Bead Type
Guide	Both	140-1957	0.4375 I.D., 3.172 Length, 0.6890 O.D.
Spring	Int Exh	160-1285 160-1286 160-1404 160-1405	2.343 Length, Inner, OEM # 62264VA 2.562 Length, Outer, OEM # 62265VA 1.982 Length, Inner, OEM # 160907R1, W/ Rotator 2.333 Length, Outer, OEM # 160908R1, W/ Rotator
Injector Tubes and Components		240-1031	Injector Tube, OEM # 326503R1

408 C.I., (6.7L), DT408
L6 408 CID

DT408 **55**
BORE - 109mm/4.29"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1999E-1 SB1626E-1N SB1628E-1N	1.999 O.D., 1.712T I.D., 0.3860 Depth, OEM # 675043 1.626 O.D., 1.348T I.D., 0.3650 Depth, OEM # 675450C3 1.628 O.D., 1.348T I.D., 0.3650 Depth, +10, +13 O/S Available, OEM # 675450C1
Valve	Int Exh	01899 01943 01900S 01944S	1.970 Head Diameter, OEM # 1818580 1.970 Head Diameter, OEM # 1824642 1.600 Head Diameter, Stellite Face, OEM # 1824838 1.600 Head Diameter, Stellite Face, OEM # 1824842
Keeper	Both	121-1011 121-1091	1 SQ Bead Type, OEM # 1810944 1 RD Bead Type, OEM # 1824644
Stem Seal	Both	122-1300 122-1320 122-1426	Positive Type, Viton Material, Top Hat Style, OEM # 1822245 Positive Type, Viton Material, Top Hat Style, Green Seal, OEM # 1823925 Umbrella Type, Nylon Material, Oil Shield Style, OEM # 1824683C1, NOTE: Use With 161-1046 Rotator

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

55 408 C.I., (6.7L), DT408 DT408
 (cont.) L6 408 CID BORE - 109mm/4.29"

PART		PART NO.	NOTES
Guide	Both	140-3006	0.3745 I.D.,2.395 Length,0.6265 O.D.,OEM # 1824646
		140-8476	0.3146 I.D.,2.440 Length,0.5651 O.D.,OEM # 1820264
Spring	Int	160-1416	2.357 Length,OEM # 677439
	Exh	160-1417	2.580 Length,OEM # 1825540
Rotator	Both	161-1046	OEM # 1824680C1, With 3/8 Stem, Includes Oil Shield 1824683C1
		161-1049	OEM # 1820826C91, With 5/16 Stem, Includes Oil Shield
Injector Tubes and Components	Both	240-1024	Injector Tube,OEM # 675442

56 414 C.I., (6.8L), D414NA D414NA & DT414
 L6 414 CID BORE - 109.25mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 671563
Valve	Int	01423	1.970 Head Diameter,OEM # 675046
	Exh	01422S	1.600 Head Diameter,Stellite Face,OEM # 676865
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681234C1
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6265 O.D.,Spiral I.D. Toward Cumbustion,OEM # 675439C1
Spring	Both	160-1190	2.400 Length,OEM # 682064
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581
Injector Tubes and Components		240-1024	Injector Tube,OEM # 675442C1

57 420 C.I., (6.9L), Diesel, 1983-87 IHN6.9
 V8 420 CID BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-38	1 7/8 O.D.,1 1/8 I.D.,3/16 Depth,To Be Used In Most Early A & B Castings Due To Thin Wall Sections, 1983-84
		SB1937-23	1 15/16 O.D.,1 11/16 I.D.,3/16 Depth,Cannot Be Used In Early Year A & B Castings Because Of Thin Casting, 1985-87
		SB1957ST	1.957 O.D.,1.563T I.D.,0.3130 Depth,NOTE: Small Stepped O.D. Dimension Is 1.755,Alternate Stepped O.D., Can Be Used in Thin Wall Casting
	Exh	SB1669E-1	1.669 O.D.,1.372T I.D.,0.2720 Depth,OEM # 1805249C1, Non-Magnetic
Valve	Int	01543	1.877 Head Diameter,Valve Has .010 Larger Margin To Save Seat Replacement; Early Head That Use C1 Valve W/ Large Margin Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
	Exh	01542	1.595 Head Diameter,Valve Has .010 Larger Margin To Save Seat Replacement; Early Heads That Use C1 Valves W/ Large Margins Will Need Seat Replacement To Attain Correct Installed Height
		01542S	1.595 Head Diameter,Stellite Face,Valve Has.010 Larger Margin To Save Seat Replacement, Early Heads That Use C1 Valve W/ Large Margins Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Exh	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
	Both	122-1330	Positive Type,Viton Material,Spring & Band Style,OEM # 1804420

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

420 C.I., (6.9L), Diesel, 1983-87
V8 420 CID

IHN6.9 **57**
BORE - 101.6mm/4.00" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-7689	0.3745 I.D.,2.600 Length,0.6250 O.D.,OEM Repair Version Check O.D, OEM # 1805407
		140-7712	0.3740 I.D.,2.600 Length,0.6268 O.D.,Plain I.D. Conversion Guide,For Use W/ 5/8 Reamer, +2 O/S Available
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365-C11
Lifter	Both	VL114	Hydraulic Roller Type
Rocker Components	Both	181-1060	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Retainer,OEM # 1809417C91
Push Rod	Both	190-1531	9.993 Length,Install Bronze Colored End Toward Rocker Arm.

436 C.I., (7.1L), D436 &DT436
L6 436 CID

DT436 **58**
BORE - 109.22mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 671563
Valve	Int	01423	1.970 Head Diameter,OEM # 675046
	Exh	01422S	1.600 Head Diameter,Stellite Face,OEM # 676865
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681234C1
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6265 O.D.,Spiral I.D. Toward Cumbustion,OEM # 675439C1
Spring	Both	160-1190	2.400 Length,OEM # 682064
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581
Lifter	Both	170-1012	Mechanical Type,OEM # 911776R3
Injector Tubes and Components		240-1024	Injector Tube,OEM # 675442C1

444 C.I., (7.3L), Diesel, 1988-95
V8 444 CID

IHN7.3 **59**
BORE - 104.38mm/4.1095"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-38	17/8 O.D.,15/8 I.D.,3/16 Depth,To Be Used In 1988-89 Castings Due To Thin Wall Sections
		SB1937-23	15/16 O.D.,11/16 I.D.,3/16 Depth,Cannot Be Used In Early Year A & B Castings Because Of Thin Casting, 1990-95
		SB1957ST	1.957 O.D.,1.563T I.D.,0.3130 Depth,NOTE: Small Stepped O.D. Dimension Is 1.755,Alternate Stepped O.D., Can Be Used in Thin Wall Casting, 1988-95
	Exh	SB1669E-1	1.669 O.D.,1.372T I.D.,0.2720 Depth,OEM # 1805249C1, Cannot Be Used In 1988-89 Heads Due To Thin Castings, Non-Magnetic, 1990-95
Valve	Int	01543	1.877 Head Diameter,Valve Has .010 Larger Margin To Save Seat Replacement; Early Head That Use C1 Valve W/ Large Margin Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
	Exh	01542	1.595 Head Diameter,Except Turbo, Valve Has .010 Larger Margin To Save Seat Replacement
		01542S	1.595 Head Diameter,Stellite Face,Valve Has 0.010 Larger Margin To Save Seat Replacement, +15 O/S Stem Available
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Exh	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
	Both	122-1330	Positive Type,Viton Material,Spring & Band Style,OEM # 1804420

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

59 444 C.I., (7.3L), Diesel, 1988-95
(cont.) V8 444 CID

IHN7.3

BORE - 104.38mm/4.1095"

PART		PART NO.	NOTES
Guide	Both	140-7689	0.3745 I.D.,2.600 Length,0.6250 O.D.,OEM Repair Version Check O.D, OEM # 1805407
		140-7712	0.3740 I.D.,2.600 Length,0.6268 O.D.,Plain I.D. Conversion Guide,For Use W/ 5/8 Reamer, +2 O/S Available
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365-C11
Lifter	Both	VL114	Hydraulic Roller Type
Rocker Components	Both	181-1060	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Retainer,OEM # 1809417C91
Push Rod	Both	190-1531	9.993 Length,Install Bronze Colored End Toward Rocker Arm.

60 444 C.I., (7.3L), Turbo Diesel Indirect Injection, 1993-95
V8 444 CID

7.3T

BORE - 104.38mm/4.1095"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-23	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D., ³ / ₁₆ Depth 1.957 O.D.,1.563T I.D.,0.3130 Depth,NOTE: Small Stepped O.D. Dimension Is 1.755,Alternate Stepped O.D., Can Be Used in Thin Wall Casting
		SB1957ST	
	Exh	SB1669E-1	1.669 O.D.,1.372T I.D.,0.2720 Depth,OEM # 1805249C1, Non-Magnetic
Valve	Int	01543	1.877 Head Diameter,Valve Has .010 Larger Margin To Save Seat Replacement; Early Head That Use C1 Valve W/ Large Margin Will Need Seat Replacement To Attain Correct Installed Height, +15 O/S Stem Available
		01785	1.680 Head Diameter,OEM # 1823453
	Exh	01754	1.595 Head Diameter,Inconel ,Valve Has .010 Larger Margin To Save Seat Replacement
		01786	1.680 Head Diameter,OEM # 1823452
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D, Indirect Injection
		121-1011	1 SQ Bead Type,OEM # 1810944
Stem Seal	Exh	122-1059	Umbrella Type,GF Nylon Material,Umbrella Style
	Both	122-1330	Positive Type,Viton Material,Spring & Band Style,OEM # 1804420C91
		122-1333	Positive Type,Viton Material,Top Hat Style,OEM # 1816179
Guide	Both	140-7689	0.3745 I.D.,2.600 Length,0.6250 O.D.,OEM Repair Version Check O.D
		140-7712	0.3740 I.D.,2.600 Length,0.6268 O.D.,Plain I.D. Conversion Guide,For Use W/ 5/8 Reamer, +2 O/S Available
		140-8476	0.3146 I.D.,2.440 Length,0.5651 O.D.,OEM # 1822862
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365-C11
Lifter	Both	VL114	Hydraulic Roller Type
Rocker Components	Both	181-1060	Rocker Arm Kit, Includes (2) Rocker Arm, (2) Fulcrum, (1) Retainer,OEM # 1809417C91
Push Rod	Both	190-1531	9.993 Length,Install Bronze Colored End Toward Rocker Arm.

61 444 C.I., (7.3L), Power Stroke, Turbo Diesel Direct Inj.
V8 444 CID

444TE

BORE - 104.38mm/4.1095"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-4	1 ³ / ₄ O.D.,1 ⁷ / ₁₆ I.D., ¹ / ₄ Depth,Also Available In Non-Magnetic (N) Material,Must Cut Seat Angle to 30 Degree
	Exh	SB1750-4N	1 ³ / ₄ O.D.,1 ⁷ / ₁₆ I.D., ¹ / ₄ Depth,Must Cut Seat Angle To 37.5 Degrees
Valve	Int	01785	1.680 Head Diameter,W/ .3122 Stem Dia., 30 Degree Seat Angle
	Exh	01786	1.680 Head Diameter,W/ .3122 Stem Dia., 37.5 Degree Seat Angle
Keeper	Both	121-1011	1 SQ Bead Type
Stem Seal	Both	122-1333	Positive Type,Viton Material,Top Hat Style,OEM # 1816179C91

(Cont'd) I.H.C. NAVISTAR / HEAVY DUTY**444 C.I., (7.3L), Power Stroke, Turbo Diesel Direct Inj.****444TE 61**

V8 444 CID

BORE - 104.38mm/4.1095" (cont.)

PART		PART NO.	NOTES
Guide	Int	140-8476	0.3146 I.D.,2.440 Length,0.5651 O.D.,OEM # 1820264C1, For 5/16 Stem, OEM Replacement, Check Press Fit
	Exh	140-8562	0.3145 I.D.,2.440 Length,0.5640 O.D.,Use W/ Std. 5/16 Tooling
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11
Lifter	Both	VL114	Hydraulic Roller Type
Push Rod	Both	190-1538	10.240 Length,OEM # F4TZ6565A, Note: Copper Color end MUST Install Towards Rocker Arm.
Head Bolt Set		220-1109	Torque To Yield,2 Required
Injector Tubes and Components		240-1026	Injector Tube,OEM # 1814376C1

446 C.I., (7.3L), MV446**MV446 62**

V8 446 CID

BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2125-1	2 1/8 O.D.,1 13/16 I.D.,1/4 Depth
	Exh	SB1654E-1N	1.654 O.D.,1.367 I.D.,0.3120 Depth,OEM # 446856C1
Valve	Int	01432	2.054 Head Diameter,OEM # 488428C1
	Exh	01431S	1.535 Head Diameter,Stellite Face,OEM # 446854C1
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D
Guide	Int	140-7174	0.3745 I.D.,2.600 Length,0.6252 O.D.,OEM # 446723C1
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11
Lifter	Both	VL89	Hydraulic Type,OEM # 387095C1

450 C.I., (7.3L), RED450 12 Valve**RED450 63**

L6 450 CID

BORE - 111mm/4.37"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1625-3N	1 5/8 O.D.,1 5/16 I.D.,1/4 Depth

450 C.I., (7.3L), RED450A 12 Valve**RED450A 64**

L6 450 CID

BORE - 111mm/4.37"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1625-3N	1 5/8 O.D.,1 5/16 I.D.,1/4 Depth

450 C.I., (7.3L), RD450 12 Valve, 1954-69**RD450 65**

L6 450 CID

BORE - 111mm/4.37"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1875-1N	1 7/8 O.D.,1 5/8 I.D.,1/4 Depth

461 C.I., (7.5L), V461**IHNV461 66**

V8 461 CID

BORE - 104.775mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 1/4 O.D.,1 15/16 I.D.,3/16 Depth
	Exh	SB2000-3C	2.000 O.D.,1 5/8 I.D.,19/64 Depth,Optional Stellite
		SB2000-3N	2.000 O.D.,1 5/8 I.D.,19/64 Depth
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 61868R11
Stem Seal	Both	122-1175	O-Ring Type,Nitrile Material,O-Ring Style,Late Eng.
Guide	Int	140-1817	0.4385 I.D.,3.063 Length,0.6265 O.D.,OEM # 133670R1
	Exh	140-8224	0.4385 I.D.,3.250 Length,0.6920 O.D.,OEM # 133595R1
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

67 466 C.I., (7.6L), Turbo Diesel Mech. Inj. 12 Valve

DT466P

L6 466 CID

BORE - 109.22mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1999E-1	1.999 O.D., 1.712T I.D., 0.3860 Depth, OEM # 675043-C1
	Exh	SB1626E-1N	1.626 O.D., 1.348T I.D., 0.3650 Depth, OEM # 675450C3
Valve	Int	01899	1.970 Head Diameter, 5/16 Stem Dia., Use W/ 140-8476 Guide , OEM # 1818580-C1
		01943	1.970 Head Diameter, 3/8 Stem Dia., OEM # 1824642-C1/C2
	Exh	01900S	1.600 Head Diameter, Stellite Face, 5/16 Stem Dia., Use W/ 140-8476 Guide, OEM # 1818579-C1, 1824838-C1
		01944S	1.600 Head Diameter, Stellite Face, 3/8 Stem Dia., OEM # 1824842-C1
Keeper	Both	121-1011	1 SQ Bead Type, For 5/16 Valve Stem, After S/N 888340, OEM # 1810944C1
		121-1091	1 RD Bead Type, For 3/8 Valve Stem, OEM # 1824644C1
Stem Seal	Both	122-1300	Positive Type, Viton Material, Top Hat Style, W/ 5/16 Stem Dia., OEM # 1822245C1
		122-1320	Positive Type, Viton Material, Top Hat Style, Green Seal, W/ 3/8 Stem Dia., OEM # 1823925-C1, For Head Assy. # 1824639-C92,
		122-1426	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-3006	0.3745 I.D., 2.395 Length, 0.6265 O.D., OEM # 1824646-C1, For 3/8 Stem
		140-8476	0.3146 I.D., 2.440 Length, 0.5651 O.D., For 5/16 Stem, OEM # 1820264-C1
Spring	Int	160-1416	2.357 Length, OEM # 677349-C1
	Exh	160-1417	2.580 Length, OEM # 1825540-C1
Rotator	Both	161-1046	OEM # 1824680-C1, W/ 3/8 Stem Dia., NOTE: Includes Oil Shield 1824683C1
		161-1049	OEM # 1820826-C91, W/ 5/16 Stem Dia., Includes Oil Shield
Injector Tubes and Components		240-1024	Injector Tube, OEM # 675442C1

68 466 C.I., (7.6L), DTI466B Turbo Diesel 12 Valve

DTI466B

L6 466 CID

BORE - 109.22mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D., 1.712T I.D., 0.3860 Depth, +10, & +13 O/S Available, OEM # 675043C1
	Exh	SB1628E-1N	1.628 O.D., 1.348T I.D., 0.3650 Depth, +10, +13 O/S Available, OEM # 675450C1
Valve	Int	01423	1.970 Head Diameter, Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
	Exh	01422S	1.600 Head Diameter, Stellite Face, Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
Keeper	Both	121-1007	1 SQ Bead Type, OEM # 41339D, 0.371 Stem Dia.
Stem Seal	Exh	122-1177	Umbrella Type, Nylon Material, Oil Shield Style, OEM # 681234C1
	Both	122-1301	Positive Type, Viton Material, Top Hat Style, Orange Seal, OEM # 1815374-C1
		122-1320	Positive Type, Viton Material, Top Hat Style, Green Seal, OEM # 1823925-C1
Guide	Both	140-7431	0.3745 I.D., 2.750 Length, 0.6265 O.D., Spiral I.D. Toward Cumbustion, OEM # 675439C1, To 1989
		140-8188	0.3745 I.D., 2.610 Length, 0.6263 O.D., Spiral I.D. Toward Cumbustion, OEM # 1815264C1, From 1990
		140-8188SA	0.3745 I.D., 2.610 Length, 0.6263 O.D., Spiral I.D. Toward Cumbustion, "Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length, OEM # 682064C1
Rotator	Exh	161-1033	W/ Oil Shield, OEM # 1811581C91

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

466 C.I., (7.6L), DTI466B Turbo Diesel 12 Valve
L6 466 CID

DTI466B **68**
BORE - 109.22mm/4.30" (cont.)

PART		PART NO.	NOTES
Lifter	Both	170-1012	Mechanical Type,0.997 Body Dia., Non-Roller, OEM # 911776-R3
Injector Tubes and Components		240-1024	Injector Tube,OEM # 675442C1

466 C.I., (7.6L), HEUI Diesel Elec. Inj. 12 Valve
L6 466 CID

DT466E **69**
BORE - 109.22mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1823E-1	1.823 O.D.,1.560T I.D.,0.2730 Depth,+15 O/S Available,OEM # 1821901-C1, Use W/ 1.786 Valve Head Diameter; NOTE: This Is .002 O/S Of Standard OEM # 1821900-C1 & C3
		SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559C1, 675043C1; NOTE: Alternate 0.030 Taller Seat To Be Used W/ 1.970 Valve Head Diameter, NOTE: Seat Will Need To Be Machined In Order To Achieve Correct Depth
		SB2001E-2	2.001 O.D.,1.712T I.D.,0.3560 Depth,OEM # 1827121C2; NOTE: Use W/ 1.970 Head, For Oversizes Use SB2001E-1
	Exh	SB1811E-2N	1.811 O.D.,1.548T I.D.,0.3340 Depth,+15 O/S Available,OEM # 1821903-C1, 1821903-C3
		SB1811E-3	1.811 O.D.,1.548T I.D.,0.3340 Depth,OEM # 1830711-C1
Valve	Int	01945 02131	1.786 Head Diameter,30 Degree Seat, OEM # 1823875-C1 1.970 Head Diameter,5.992 Overall Length, OEM # 1826471-C1, 1826471-C2, 1842913C1
	Exh	01946S	1.786 Head Diameter,Stellite Face,45 Degree Seat, OEM # 1824840-C1, 1824840-C2, 1842912-C1
Keeper	Both	121-1091	1 RD Bead Type,For 3/8 Valve Stem, OEM # 1824644C1
Stem Seal	Both	122-1320	Positive Type,Viton Material,Top Hat Style,Green Seal,OEM # 1823925C1, W/ 3/8 Stem Dia.,
		122-1426	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-8188	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Cumbustion,OEM # 1815264C1
		140-8188SA	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Cumbustion,"Special Alloy", For Ultra Low Sulfur Diesel
Spring	Int	160-1416	2.357 Length,OEM # 677349-C1
	Exh	160-1417	2.580 Length,OEM # 1825540-C1
Rotator	Both	161-1046	OEM # 1824680-C1, W/ 3/8 Stem Dia., NOTE: Includes Oil Shield 1824683C1
Injector Tubes and Components		240-1025	Injector Tube,OEM # 1818778C1, 1818778C2, 1818778C3; NOTE: Early, ESN 980820 - 1194038 Years 1995-1999
		240-1027	Injector Tube,OEM # 1833382C1; NOTE: Late, ESN 1194039 - Up, To MY2004

466 C.I., (7.6L), Diesel Direct Inj. 24 Valve "MaxxForce DT"
L6 466 CID

MAXX-DT466-24V **70**
BORE - 109.22mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1584E-1	1.584 O.D.,1.328T I.D.,1/4 Depth,+10 O/S Available,OEM # 1835851C1, 1842137C1
	Exh	SB1480E-2	1.480 O.D.,1.288T I.D.,1/4 Depth,+10 O/S Available,OEM # 1835852C1, 1842138C1
Valve	Int	13002	1.564 Head Diameter,OEM # 1839968C1
	Exh	13003	1.439 Head Diameter,OEM # 1839970C1, 1842145C2
Keeper	Both	121-1085	1 RD Bead Type,OEM # 1841566C1

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

70 466 C.I., (7.6L), Diesel Direct Inj. 24 Valve "MaxxForce DT"
(cont.) L6 466 CID

MAXX-DT466-24V
BORE - 109.22mm/4.30"

PART		PART NO.	NOTES
Stem Seal	Both	122-1460	Positive Type,Viton Material,Top Hat Style,Black,OEM # 1833432C1, 1889589C1
Guide	Both	140-3079	0.3140 I.D.,2.585 Length,0.5655 O.D.,OEM # 1841538C1, 1850019C1
Spring	Both	160-1489	2.158 Length,OEM # 1835858C1, 1842146C1
Rotator	Both	161-1059	OEM # 1835655C1
Injector Tubes and Components		240-1033	Injector Tube,OEM # 1841095C1

71 466 C.I., (7.6L), DTA466C

L6 466 CID

DTA466C

BORE - 109.23mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 671563
Valve	Int	01423	1.970 Head Diameter,OEM # 675046
	Exh	01422S	1.600 Head Diameter,Stellite Face,OEM # 676865
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681243C1
	Both	122-1301	Positive Type,Viton Material,Top Hat Style,Orange Seal,OEM # 1815374
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6265 O.D.,Spiral I.D. Toward Cumbustion,OEM # 675439C1
Spring	Both	160-1190	2.400 Length,OEM # 682064
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581
Lifter	Both	170-1012	Mechanical Type,OEM # 911776R3
Injector Tubes and Components		240-1024	Injector Tube,OEM # 675442C1

72 466 C.I., (7.6L), Diesel 12 Valve

L6 466 CID

D466

BORE - 109.22mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559C1
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 675450C3
Valve	Int	01423	1.970 Head Diameter,0.372 Stem Dia., Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
	Exh	01422S	1.600 Head Diameter,Stellite Face,0.371 Stem Dia., Early Heads That Use C1 Or C2 Valves W/ Small Margins Will Need The Seats Recessed Or Valves Refaced To Attain Correct Installed Height
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339D
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681234C1
		122-1301	Positive Type,Viton Material,Top Hat Style,Orange Seal,OEM # 1815374-C1, 1.290 Height, Use W/ Long Guide 140-7431
	Both	122-1320	Positive Type,Viton Material,Top Hat Style,Green Seal,W/ 3/8 Stem Dia., OEM # 1823925-C1, 1.120 Height. Use W/ Short Guide 140-8188
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6265 O.D.,Spiral I.D. Toward Cumbustion,To 1989, OEM # 675439C1
		140-8188	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Cumbustion,OEM # 1824647C1, From 1990

(Cont'd) I.H.C. NAVISTAR / HEAVY DUTY

466 C.I., (7.6L), Diesel 12 Valve **D466 72**
 L6 466 CID **BORE - 109.22mm/4.30" (cont.)**

PART		PART NO.	NOTES
Guide	Both	140-8188SA	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Cumbustion,"Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1190	2.400 Length,OEM # 682064C1
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581C91
Lifter	Both	170-1012	Mechanical Type,0.997 Body Dia., Non-Roller, OEM # 911776-R3
Injector Tubes and Components		240-1024	Injector Tube,OEM # 675442C1

466 C.I., (7.6L), DT-DTA466 **DTA466 73**
 L6 466 CID **BORE - 109mm/4.30"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559
	Exh	SB1628E-1N	1.628 O.D.,1.348T I.D.,0.3650 Depth,+10, +13 O/S Available,OEM # 671563
Valve	Int	01423	1.970 Head Diameter,OEM # 675046
	Exh	01422S	1.600 Head Diameter,Stellite Face,OEM # 676865
Keeper	Both	121-1007	1 SQ Bead Type,OEM # 41339
Stem Seal	Exh	122-1177	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 681234C1
	Both	122-1301	Positive Type,Viton Material,Top Hat Style,Orange Seal,OEM # 1815374
Guide	Both	140-7431	0.3745 I.D.,2.750 Length,0.6265 O.D.,Spiral I.D. Toward Cumbustion,OEM # 675439C1
Spring	Both	160-1190	2.400 Length,OEM # 682064
Rotator	Exh	161-1033	W/ Oil Shield,OEM # 1811581
Lifter	Both	170-1012	Mechanical Type,OEM # 911776R3
Injector Tubes and Components		240-1024	Injector Tube,OEM # 675442C1

478 C.I., (7.8L), VS478 **VS478 74**
 V8 478 CID **BORE - 107.95mm/4.25"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB2000-3C	2.000 O.D.,1% I.D.,19/64 Depth,Optional Stellite
		SB2000-3N	2.000 O.D.,1% I.D.,19/64 Depth,OEM # 379089C1
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 61868R11
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style,Late Design W/ Integral Cast Guide & Single Spring
		122-1175	O-Ring Type,Nitrile Material,O-Ring Style,Late Eng.
Guide	Int	140-1817	0.4385 I.D.,3.063 Length,0.6265 O.D.,OEM # 133670R1
	Exh	140-8224	0.4385 I.D.,3.250 Length,0.6920 O.D.,OEM # 133595R1
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11, Late Engines

478 C.I., (7.8L), V478 **V478 75**
 V8 478 CID **BORE - 114.3mm/4.50"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB2000-3C	2.000 O.D.,1% I.D.,19/64 Depth,Optional Stellite
		SB2000-3N	2.000 O.D.,1% I.D.,19/64 Depth,OEM # 379089C1
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 61868R11
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style,1800, F1800

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

75 478 C.I., (7.8L), V478 V478
 (cont.) V8 478 CID BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Stem Seal	Both	122-1175	O-Ring Type,Nitrile Material,O-Ring Style,Late Eng.
Guide	Int	140-1817	0.4385 I.D.,3.063 Length,0.6265 O.D.,OEM # 133670R1
	Exh	140-8224	0.4385 I.D.,3.250 Length,0.6920 O.D.,OEM # 133595R1
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11, Late Engines

76 501 C.I., (8.2L), RD501 12 Valve RD501
L6 501 CID BORE - 114.2mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1875-1N	1 $\frac{7}{8}$ O.D.,1 $\frac{5}{8}$ I.D., $\frac{1}{4}$ Depth

77 530 C.I., (8.7L), Diesel Mechanical Inj. 12 Valve 530P
L6 530 CID BORE - 116.57mm/4.590"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1999E-1	1.999 O.D.,1.712T I.D.,0.3860 Depth,OEM # 675043-C1
	Exh	SB1626E-1N	1.626 O.D.,1.348T I.D.,0.3650 Depth,OEM # 675450C3
Valve	Int	01899	1.970 Head Diameter, $\frac{5}{16}$ Stem Dia., OEM # 1818580-C1
		01943	1.970 Head Diameter, $\frac{3}{8}$ Stem Dia., OEM # 1824642-C1/C2
	Exh	01900S	1.600 Head Diameter,Stellite Face, $\frac{5}{16}$ Stem Dia., OEM # 1818579-C1, 1824838-C1
		01944S	1.600 Head Diameter,Stellite Face, $\frac{3}{8}$ Stem Dia., OEM # 1824842-C1
Keeper	Both	121-1011	1 SQ Bead Type,For $\frac{5}{16}$ Valve Stem, OEM # 1810944C1
Stem Seal	Both	122-1300	Positive Type,Viton Material,Top Hat Style,W/ $\frac{5}{16}$ Stem Dia., OEM # 1822245C1
		122-1320	Positive Type,Viton Material,Top Hat Style,Green Seal,W/ $\frac{3}{8}$ Stem Dia., OEM # 1823925-C1,
		122-1426	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-3006	0.3745 I.D.,2.395 Length,0.6265 O.D.,OEM # 1824646-C1, For $\frac{3}{8}$ Stem
		140-8476	0.3146 I.D.,2.440 Length,0.5651 O.D.,For $\frac{5}{16}$ Stem, OEM Replacement, OEM # 1820264-C1, Check Press Fit
Spring	Int	160-1416	2.357 Length,OEM # 677349-C1
	Exh	160-1417	2.580 Length,OEM # 1825540-C1
Rotator	Both	161-1046	OEM # 1824680-C1, W/ $\frac{3}{8}$ Stem Dia., NOTE: Includes Oil Shield 1824683C1
		161-1049	OEM # 1820826-C91, W/ $\frac{5}{16}$ Stem Dia., Includes Oil Shield
Injector Tubes and Components		240-1024	Injector Tube,OEM # 675442C1

78 530 C.I., (8.7L), Diesel Electrical Inj. 12 Valve 530E
L6 530 CID BORE - 116.57mm/4.590"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1823E-1	1.823 O.D.,1.560T I.D.,0.2730 Depth,+15 O/S Available,OEM # 1821901-C1, Use W/ 1.786 Valve Head Diameter; NOTE: This Is .002 O/S Of Standard OEM # 1821900-C1 & C3
		SB2001E-1	2.001 O.D.,1.712T I.D.,0.3860 Depth,+10, & +13 O/S Available,OEM # 671559C1, 675043C1; NOTE: Alternate 0.030 Taller Seat To Be Used W/ 1.970 Valve Head Diameter, NOTE: Seat Will Need To Be Machined In Order To Achieve Correct Depth
		SB2001E-2	2.001 O.D.,1.712T I.D.,0.3560 Depth,OEM # 1827121C2; NOTE: Use W/ 1.970 Head, For Oversizes Use SB2001E-1
	Exh	SB1811E-2N	1.811 O.D.,1.548T I.D.,0.3340 Depth,+15 O/S Available,OEM # 1821903-C3
		SB1811E-3	1.811 O.D.,1.548T I.D.,0.3340 Depth,OEM # 1830711-C1

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

530 C.I., (8.7L), Diesel Electrical Inj. 12 Valve

L6 530 CID

530E **78**

BORE - 116.57mm/4.590" (cont.)

PART		PART NO.	NOTES
Valve	Int	01945 02131	1.786 Head Diameter,30 Degree Seat, OEM # 1823875-C1 1.970 Head Diameter,5.992 Overall Length, OEM # 1826471C2, 1826471C1, 1842913C1
	Exh	01946S	1.786 Head Diameter,Stellite Face,45 Degree Seat, OEM # 1824840-C1, 1824840-C2, 1842912-C1
Keeper	Both	121-1091	1 RD Bead Type,For 3/8 Valve Stem, OEM # 1824644C1
Stem Seal	Both	122-1320	Positive Type,Viton Material,Top Hat Style,Green Seal,W/ 3/8 Stem Dia., OEM # 1823925-C1,
		122-1426	Umbrella Type,Nylon Material,Oil Shield Style,OEM # 1824683C1, NOTE: Use With 161-1046 Rotator
Guide	Both	140-8188	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Cumbustion,OEM # 1815264C1
		140-8188SA	0.3745 I.D.,2.610 Length,0.6263 O.D.,Spiral I.D. Toward Cumbustion,"Special Alloy", For Ultra Low Sulfur Diesel
Spring	Int	160-1416	2.357 Length,OEM # 677349-C1
	Exh	160-1417	2.580 Length,OEM # 1825540-C1
Rotator	Both	161-1046	OEM # 1824680-C1, W/ 3/8 Stem Valve., NOTE: Includes Oil Shield 1824683C1
Injector Tubes and Components		240-1025	Injector Tube,OEM # 1818778C1, 1818778C2, 1818778C3; NOTE: Early, ESN 980820 - 1194038 Years 1995-1999
		240-1027	Injector Tube,OEM # 1833382C1; NOTE: Late, ESN 1194039 - Up, To MY2004

537 C.I., (8.8L), V537

V8 537 CID

V537 **79**

BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB2000-3C	2.000 O.D.,1 ⁵ / ₈ I.D.,19/64 Depth,Optional Stellite
		SB2000-3N	2.000 O.D.,1 ⁵ / ₈ I.D.,19/64 Depth,OEM # 379089C1
Valve	Int	01507 01508	2.157 Head Diameter,OEM # 448453C2 2.157 Head Diameter,Opt. Exh Material, 45 Degree Seat, OEM # 448202C1
	Exh	01506S	1.805 Head Diameter,Stellite Face,All, OEM # 448454C1
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 61868R11
Guide	Int	140-7457	0.4385 I.D.,3.060 Length,0.6888 O.D.,OEM # 448219C2
	Exh	140-7456	0.4385 I.D.,3.060 Length,0.6887 O.D.,Heat Treated High Strength Alloy,OEM # 448229C1
Spring	Both	160-1206	2.050 Length,W/ Damper,Late Engines, OEM # 317365C11

549 C.I., (9.0L), VS549 & FTVS549

V8 549 CID

VS549 **80**

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2¼ O.D.,1 ¹⁵ / ₁₆ I.D., ³ / ₁₆ Depth
	Exh	SB2000-3C	2.000 O.D.,1 ⁵ / ₈ I.D.,19/64 Depth,Optional Stellite
		SB2000-3N	2.000 O.D.,1 ⁵ / ₈ I.D.,19/64 Depth,OEM # 379089C1
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 61868R11
Stem Seal	Both	122-1043	O-Ring Type,Nitrile Material,O-Ring Style
Guide	Int	140-1817	0.4385 I.D.,3.063 Length,0.6265 O.D.,OEM # 133670R1
	Exh	140-8224	0.4385 I.D.,3.250 Length,0.6920 O.D.,OEM # 133595R1
Spring	Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11

I.H.C. NAVISTAR / HEAVY DUTY (Cont'd)

81 549 C.I., (9.0L), V549 & FTV549

V8 549 CID

V549

BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 $\frac{1}{4}$ O.D., 1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB2000-3C	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth, Optional Stellite
		SB2000-3N	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth
Keeper	Both	121-1009	1 SQ Bead Type
Stem Seal	Both	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Int	140-1817	0.4385 I.D., 3.063 Length, 0.6265 O.D.
	Exh	140-8224	0.4385 I.D., 3.250 Length, 0.6920 O.D., OEM # 133595R1
Spring	Both	160-1206	2.050 Length, W/ Damper, Late Engines

82 551 C.I., (9.0L), Diesel

V8 551 CID

IHN551

BORE- 114.55mm/4.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1973E-1	1.973 O.D., 1.658T I.D., 0.3000 Depth
	Exh	SB1775E-1	1.775 O.D., 1.458T I.D., 0.3000 Depth
Valve	Int	01649	1.924 Head Diameter
	Exh	01648	1.727 Head Diameter
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7336	0.3753 I.D., 2.960 Length, 0.6890 O.D.
Spring	Both	160-1206	2.050 Length, W/ Damper, OEM # 317365-C11

83 570 C.I., (9.3L), Turbo Diesel Direct Inj. 24 Valve "MaxxForce 9"

L6 570 CID

MAXX-9

BORE - 116.59mm/4.59"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1584E-1	1.584 O.D., 1.328T I.D., $\frac{1}{4}$ Depth, +10 O/S Available, OEM # 1835851C1, 1842137C1
	Exh	SB1480E-2	1.480 O.D., 1.288T I.D., $\frac{1}{4}$ Depth, +10 O/S Available, OEM # 1835852C1, 1842138C1
Valve	Int	13002	1.564 Head Diameter, OEM # 1839968C1
	Exh	13003	1.439 Head Diameter, OEM # 1839970C1, 1842145C2
Keeper	Both	121-1085	1 RD Bead Type, OEM # 1841588C1
Stem Seal	Both	122-1460	Positive Type, Viton Material, Top Hat Style, Black, OEM # 1833432C1, 1889589C1
Guide	Both	140-3079	0.3140 I.D., 2.585 Length, 0.5655 O.D., OEM # 1841538C1, 1850019C1
Spring	Both	160-1489	2.158 Length, OEM # 1835858C1, 1842146C1
Rotator	Both	161-1059	OEM # 1835655C1
Injector Tubes and Components		240-1033	Injector Tube, OEM # 1841095C1

84 605 C.I., (9.9L), 16 Valve GAS

V8 605 CID

IHN605

BORE - 117.475mm/4.625"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 $\frac{1}{4}$ O.D., 1 $\frac{15}{16}$ I.D., $\frac{3}{16}$ Depth
	Exh	SB2000-3C	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth, Optional Stellite
		SB2000-3N	2.000 O.D., 1 $\frac{5}{8}$ I.D., 19/64 Depth, OEM # 379089C1
Valve	Int	01507	2.157 Head Diameter, OEM # 487879C1
		01508	2.157 Head Diameter, Opt. Exh Material, 45 Degree Seat, OEM # 448202C1
	Exh	01506S	1.805 Head Diameter, Stellite Face, OEM # 448454C1
Keeper	Both	121-1009	1 SQ Bead Type, OEM # 61868R11
Guide	Int	140-7457	0.4385 I.D., 3.060 Length, 0.6888 O.D., OEM # 448219C2

(Cont'd) **I.H.C. NAVISTAR / HEAVY DUTY**

605 C.I., (9.9L), 16 Valve GAS IHN605 **84**
V8 605 CID BORE - 117.475mm/4.625" (cont.)

PART	PART NO.	NOTES
Guide Exh	140-7456	0.4385 I.D.,3.060 Length,0.6887 O.D.,Heat Treated High Strength Alloy,OEM # 448229C1
Spring Both	160-1206	2.050 Length,W/ Damper,OEM # 317365C11

758 C.I., (12.4L), SOHC, Turbo Diesel Direct Inj. 24 Valve "MaxxForce 13" MAXX-13 **85**
L6 758 CID BORE - 125.98mm/4.96"

PART	PART NO.	NOTES
Valve Seat Insert Int	SB1656E-2	1.656 O.D.,1.273T I.D.,0.3170 Depth
Exh	SB1578E-1	1.578 O.D.,1.300T I.D.,0.3170 Depth
Valve Int	13370	1.575 Head Diameter,Services Valves Marked 575T & 37C1
Exh	13371	1.496 Head Diameter,Services Valves Marked 606T & 38C1
Keeper Both	121-1133	3 RD Bead Type
Stem Seal Both	122-1466	Positive Type,Viton Material,Top Hat Style,OEM # 3015752C1
Guide Both	140-3177	0.3547 I.D.,2.620 Length,0.5920 O.D.,Late Guide Used With Top Hat Seal
Spring Both	160-1647	2.455 Length,Late Spring Used With Top Hat Seal

INFINITI / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin C, SR20DE "Nissan" (1991-02)	G20	1
2488cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, QR25DER Hybrid (2014-16)	QX60 Hybrid	2
6 Cylinder		
2496cc, (2.5L), DOHC, GAS, FI, 24 Valve, VQ25HR (2011-12)	G25	3
2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin A, VG30DE "Nissan" (1993-97)	J30	4
2988cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, VQ30DE "Nissan" (1998-01)	I30	5
3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin A, VG33E "Nissan" (1997-00)	QX4	6
3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35DE (2001-16)	FX35, G35, I35, JX35, M35, QX4, QX60	7
3498cc, (3.5L), DOHC, ELECTRIC/GAS, GAS, FI, 24 Valve, VQ35HR (2007-12)	EX35, FX35, G35, M35, M35h	8
3498cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, VQ35HR Hybrid (2012-16)	M35h, Q50, Q70	9
3696cc, (3.7L), DOHC, GAS, FI, 24 Valve, VQ37VHR (2008-16)	G37, M37, Q40, Q50, Q60, Q70, Q70L	10
8 Cylinder		
4130cc, (4.1L), DOHC, GAS, FI, 32 Valve, Vin B, VH41DE (1997-01)	Q45	11
4494cc, (4.5L), DOHC, GAS, FI, 32 Valve, Vin N, VH45DE (1990-96)	Q45	12
4494cc, (4.5L), DOHC, GAS, FI, 32 Valve, VK45DE (2002-10)	FX45, M45, Q45	13
5026cc, (5.0L), DOHC, GAS, FI, 32 Valve, VK50VE (2009-14)	FX50, QX70	14

INFINITI / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
8 Cylinder		
5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56DE (2005-10)	QX56	15
5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56VD (2011-17)	Q70, Q70L, QX56, QX80	16
5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56VDS (2011-13)	M56	17

1 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin C, SR20DE "Nissan" INF-SR20DE
1991-02 L4 122 CID BORE - 86mm/3.38"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1991-99	10228	1.339 Head Diameter,3.991 Overall Length
		2000-02	10794	1.339 Head Diameter,3.872 Overall Length
	Exh	1991-99	10229	1.181 Head Diameter,4.028 Overall Length
		2000-02	10795	1.181 Head Diameter,3.909 Overall Length
Keeper	Both	1991-02	121-1063	1 RD Bead Type
Stem Seal	Both	1991-02	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-02	140-8216	0.2365 I.D.,1.690 Length,0.3955 O.D.,Tapered Port End
	Exh	1991-02	140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

2 2488cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, QR25DER Hybrid INF-QR25DER
2014-16 L4 152 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-16	121-1064	1 RD Bead Type
Stem Seal	Both	2014-16	122-1150	Positive Type,Viton Material,Metal Clad Style

3 2496cc, (2.5L), DOHC, GAS, FI, 24 Valve, VQ25HR INF-VQ25HR
2011-12 V6 152 CID BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2011-12	121-1064	1 RD Bead Type
Stem Seal	Both	2011-12	122-1150	Positive Type,Viton Material,Metal Clad Style

4 2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin A, VG30DE "Nissan" INF-VG30DE
1993-97 V6 181 CID BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1993-97	SB1500-77	1½ O.D.,1.175T I.D.,0.2360 Depth
	Exh	1993-97	SB1312-63	1½ O.D.,0.965T I.D.,0.2350 Depth
Valve	Int	1993-97	10284	1.339 Head Diameter
	Exh	1993-97	10285S	1.164 Head Diameter,Stellite Face
Keeper	Int	1993-97	121-1063	1 RD Bead Type
Stem Seal	Both	1993-97	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1993-97	140-8543	0.2365 I.D.,1.815 Length,0.3955 O.D.
	Exh	1993-97	140-8544	0.2365 I.D.,1.940 Length,0.3953 O.D.
Spring	Both	1993-97	160-1326	1.720 Length

5 2988cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, VQ30DE "Nissan" INF-VQ30DE
1998-01 V6 182 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-01	10537	1.417 Head Diameter
	Exh	1998-01	10538	1.232 Head Diameter
Keeper	Both	1998-01	121-1064	1 RD Bead Type
Stem Seal	Both	1998-01	122-1150	Positive Type,Viton Material,Metal Clad Style

(Cont'd) INFINITI / PASSENGER CAR OR TRUCK

2988cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, VQ30DE "Nissan" INF-VQ30DE 5
 1998-01 V6 182 CID BORE - 93mm/3.66" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Int	1998-01	140-8190	0.2365 I.D.,1.580 Length,0.3950 O.D.,Tapered Port End
	Exh	1998-01	140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin A, VG33E "Nissan" INF-VG33E 6
 1997-00 V6 200 CID BORE - 91.5mm/3.60"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1997-00	SB1812-55	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D.,0.2780 Depth
Valve	Int	1997-00	10281	1.657 Head Diameter
	Exh	1997-00	10282S	1.382 Head Diameter,Stellite Face
Keeper	Both	1997-00	121-1059	1 RD Bead Type
Stem Seal	Int	1997-00	122-1262	Positive Type,Viton Material,Metal Clad Style
	Exh	1997-00	122-1263	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1997-00	140-8388	0.2760 I.D.,2.315 Length,0.4345 O.D.
	Exh	1997-00	140-8389	0.3160 I.D.,2.500 Length,0.4740 O.D.
Spring	Both	1997-00	160-1052	1.725 Length,Inner
		1997-00	160-1216	2.065 Length,Outer
Lifter	Both	1997-00	VL121	Hydraulic Type
Rocker Components	Both	1997-00	180-1264	Cam Follower

3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35DE INF-VQ35DE 7
 2001-16 V6 213 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-08	13237	1.463 Head Diameter,3.798 O/A Length
		2013-14	13220	1.449 Head Diameter,3.825 O/A Length
	Exh	2001-08	13238	1.234 Head Diameter,3.700 O/A Length
		2013-14	13221	1.195 Head Diameter,3.730 O/A Length
Keeper	Both	2001-16	121-1064	1 RD Bead Type
Stem Seal	Both	2001-14	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-08	140-8190	0.2365 I.D.,1.580 Length,0.3950 O.D.,Tapered Port End
	Exh	2001-08	140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

3498cc, (3.5L), DOHC, ELECTRIC/GAS, GAS, FI, 24 Valve, VQ35HR INF-VQ35HR 8
 2007-12 V6 213 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-11	13220	1.449 Head Diameter,3.825 O/A Length
	Exh	2007-11	13221	1.195 Head Diameter,3.730 O/A Length
Keeper	Both	2007-11	121-1064	1 RD Bead Type
Stem Seal	Both	2007-11	122-1150	Positive Type,Viton Material,Metal Clad Style

3498cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, VQ35HR Hybrid INF-VQ35HRE 9
 2012-16 V6 213 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2012-13	13221	1.195 Head Diameter,3.730 O/A Length
Keeper	Both	2012-16	121-1064	1 RD Bead Type
Stem Seal	Both	2012-16	122-1150	Positive Type,Viton Material,Metal Clad Style

3696cc, (3.7L), DOHC, GAS, FI, 24 Valve, VQ37VHR INF-VQ37VHR 10
 2008-16 V6 225 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2008-10/13	13221	1.195 Head Diameter,3.730 O/A Length

INFINITI / PASSENGER CAR OR TRUCK (Cont'd)

10 3696cc, (3.7L), DOHC, GAS, FI, 24 Valve, VQ37VHR INF-VQ37VHR
 (cont.) 2008-16 V6 225 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2008-16 121-1064	1 RD Bead Type
Stem Seal	Both	2008-16 122-1150	Positive Type,Viton Material,Metal Clad Style

11 4130cc, (4.1L), DOHC, GAS, FI, 32 Valve, Vin B, VH41DE INF-VH41DE
 1997-01 V8 252 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1997-01 121-1062	1 RD Bead Type
Stem Seal	Exh	1997-01 122-1159	Positive Type,Viton Material,Metal Clad Style

12 4494cc, (4.5L), DOHC, GAS, FI, 32 Valve, Vin N, VH45DE INF-VH45DE
 1990-96 V8 274 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1990-96 SB1375-60	1 $\frac{3}{8}$ O.D., 1.107T I.D., 0.2370 Depth
Keeper	Both	1990-96 121-1062	1 RD Bead Type
Stem Seal	Int	1990-96 122-1139	Positive Type,Viton Material,Metal Clad Style
	Exh	1990-96 122-1159	Positive Type,Viton Material,Metal Clad Style

13 4494cc, (4.5L), DOHC, GAS, FI, 32 Valve, VK45DE INF-VK45DE
 2002-10 V8 274 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2002-10 121-1064	1 RD Bead Type
Stem Seal	Both	2002-10 122-1150	Positive Type,Viton Material,Metal Clad Style

14 5026cc, (5.0L), DOHC, GAS, FI, 32 Valve, VK50VE INF-VK50VE
 2009-14 V8 307 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2009-14 121-1064	1 RD Bead Type
Stem Seal	Both	2009-14 122-1150	Positive Type,Viton Material,Metal Clad Style

15 5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56DE INF-VK56DE
 2005-10 V8 339 CID BORE - 98mm/3.85"

PART	YEARS	PART NO.	NOTES
Valve	Int	2005-10 13237	1.463 Head Diameter, 3.798 O/A Length; NOTE: Old Style Valve, Will Not Work With New Style Short Lifter.
	Exh	2005-10 13238	1.234 Head Diameter, 3.700 O/A Length; NOTE: Old Style Valve, Will Not Work With New Style Short Lifter.
Keeper	Both	2005-10 121-1064	1 RD Bead Type
Stem Seal	Both	2005-10 122-1150	Positive Type,Viton Material,Metal Clad Style

16 5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56VD INF-VK56VD
 2011-17 V8 339 CID BORE - 98mm/3.85"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2011-16 121-1064	1 RD Bead Type
Stem Seal	Both	2011-16 122-1150	Positive Type,Viton Material,Metal Clad Style

17 5552cc, (5.6L), DOHC, GAS, FI, 32 Valve, VK56VDS INF-VK56VDS
 2011-13 V8 339 CID BORE - 98mm/3.85"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2011-13 121-1064	1 RD Bead Type
Stem Seal	Both	2011-13 122-1150	Positive Type,Viton Material,Metal Clad Style

ISUZU / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1471cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin 9 "4XC1 TURBO" (1988-89)	I-Mark	1
1471cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin 7, K "4XC1" (1985-89)	I-Mark	2
1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5 "4XE1W" (1989-91)	I-Mark, Impulse, Stylus	3
1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 4 (1991-92)	Impulse	4
1588cc, (1.6L), SOHC, GAS, FI, 12 Valve, Vin 6 "4XE1" (1991-93)	Stylus	5
1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, "4XF1" (1992-92)	Impulse, Stylus	6
1817cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin B, N "G180Z" (1981-84)	I-Mark, Pickup	7
1817cc, (1.8L), SOHC, DIESEL, FI, 8 Valve, Vin P "4FB1" (1981-84)	I-Mark Diesel	8
1949cc, (1.9L), SOHC, GAS, CARB, 8 Valve, Vin A "G200Z" (1983-86)	Pickup, Trooper	9
1949cc, (1.9L), SOHC, GAS, FI, 8 Valve, Vin A "G200Z" (1983-87)	Impulse	10
1994cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin F, "4ZC1 Turbo" (1985-89)	Impulse	11
2180cc, (2.2L), DOHC, GAS, FI, 16 Valve, Vin D, "X22SE" (1998-03)	Amigo, Rodeo, Rodeo Sport	12
2180cc, (2.2L), OHV, GAS, FI, 8 Valve, Vin 4 "GM" (1996-00)	Hombre	13
2238cc, (2.2L), OHV, DIESEL, FI, 8 Valve, Vin S "C223" (1981-87)	Pickup, Trooper	14
2238cc, (2.2L), SOHC, DIESEL, FI, 8 Valve, Vin U "C223 TURBO" (1986-87)	Pickup Turbo, Trooper Turbo	15
2254cc, (2.3L), SOHC, GAS, FI, 16 Valve, "F23A7 Honda" (1998-99)	Oasis	16
2254cc, (2.3L), SOHC, GAS, CARB, FI, 8 Valve, Vin L "4ZD1" (1986-95)	Amigo, Pickup, Trooper	17
2559cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin E "4ZE1" (1988-97)	Amigo, Pickup, Rodeo, Trooper	18
169 C.I., (2.8L), DOHC, GAS, FI, 16 Valve, Vin 8 "GM Vortec" (2006-06)	i-280	20
178 C.I., (2.9L), DOHC, GAS, FI, 16 Valve, Vin 9 "GM" (2007-08)	i-290	21
236 C.I., (3.9L), DIESEL, FI, Vin H, K, 4BD1/T, 4BD2/T, "Non Turbo & Turbo" (1990-98)	NPR, NQR	29
290 C.I., (4.8L), DIESEL, FI, Vin 4, 5, "4HE1 Turbo" (1998-04)	NPR, NPR-HD, NQR	31
317 C.I., (5.2L), DIESEL, FI, Vin 6, "4HK1 Turbo" (2005-12)	NPR, NPR-HD, NQR, NRR	32
5 Cylinder		
211 C.I., (3.5L), DOHC, GAS, FI, 20 Valve, Vin 6 "GM Vortec" (2006-06)	i-350	27
223 C.I., (3.7L), DOHC, GAS, FI, 20 Valve, Vin E "GM" (2007-08)	i-370	28

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
6 Cylinder		
172 C.I., (2.8L), OHV, GAS, FI, 12 Valve, Vin R "GM LL2" (1989-91)	Trooper	19
3137cc, (3.1L), OHV, GAS, FI, 12 Valve, Vin Z (1991-94)	Pickup, Rodeo	22
3165cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin W "6VD1" (1992-95)	Trooper	23
3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, Vin V "6VD1" (1992-97)	Rodeo, Trooper	24
3165cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin W, "6VD1W" (1998-04)	Amigo, Rodeo, Rodeo Sport	25
3475cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin X, 6VE1 (1998-03)	Axiom, Trooper, VehiCROSS	26
256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S "GM Vortec" (2003-08)	Ascender	30
5787cc, (5.8L), DIESEL, FI, Vin N, "6BD1 Turbo" (1990-91)	FSR, FTR	35
7131cc, (7.1L), DIESEL, FI, Vin 2, "6HE1 Turbo" (1995-98)	FRR, FSR, FTR, FVR	36
475 C.I., (7.8L), DIESEL, FI, Vin 3, "6HK1 Turbo" (1998-11)	FRR, FSR, FTR, FVR, FXR, HTR, HVR, HXR	37

8 Cylinder

323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin P, "GM LM4 Vortec 5300 Gen III Aluminum Block" (2003-04)	Ascender	33
323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Active Fuel Mgmt., Vin M "GM LH6 Vortec 5300 Gen IV Aluminum Block" (2005-06)	Ascender	34

1 1471cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin 9 "4XC1 TURBO" 4XC1T BORE - 77mm/3.03"

1988-89 L4 88 CID

PART	YEARS	PART NO.	NOTES	
Valve	Int	1988-89	10105	1.415 Head Diameter
Keeper	Both	1988-89	121-1048	1 RD Bead Type
Stem Seal	Both	1988-89	122-1130	Positive Type,Viton Material,Metal Clad Style

2 1471cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin 7, K "4XC1" 4XC1 BORE - 77mm/3.03"

1985-89 L4 88 CID

PART	YEARS	PART NO.	NOTES	
Valve	Int	1985-89	10105	1.415 Head Diameter
	Exh	1985-89	10104	1.220 Head Diameter
Keeper	Both	1985-89	121-1048	1 RD Bead Type
Stem Seal	Both	1985-89	122-1130	Positive Type,Viton Material,Metal Clad Style

3 1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 5 "4XE1W" 4XE1W BORE - 80mm/3.15"

1989-91 L4 97 CID

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-91	SB1312-52	1 $\frac{5}{16}$ O.D.,1.060T I.D.,0.2400 Depth
	Exh	1989-91	SB1187-52	1 $\frac{5}{16}$ O.D.,0.934T I.D.,0.2570 Depth
Keeper	Both	1989-91	121-1074	1 RD Bead Type
Stem Seal	Both	1989-91	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1989-91	140-8189	0.2340 I.D.,1.651 Length,0.4353 O.D.,I.D. Must Be Reamed To Size
	Exh	1989-91	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

(Cont'd) ISUZU / PASSENGER CAR OR TRUCK**1588cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 4**
1991-92 L4 97 CID**4XE1WT 4**
BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-92	SB1312-52	1 ⁵ / ₁₆ O.D.,1.060T I.D.,0.2400 Depth
	Exh	1991-92	SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth
Keeper	Both	1991-92	121-1074	1 RD Bead Type
Stem Seal	Both	1991-92	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-92	140-8189	0.2340 I.D.,1.651 Length,0.4353 O.D.,I.D. Must Be Reamed To Size
	Exh	1991-92	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

1588cc, (1.6L), SOHC, GAS, FI, 12 Valve, Vin 6 "4XE1"
1991-93 L4 97 CID**4XE1 5**
BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-93	SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth
	Exh	1991-93	SB1375-51	1 ³ / ₈ O.D.,1.060T I.D.,0.2800 Depth
Keeper	Both	1991-93	121-1074	1 RD Bead Type
Stem Seal	Both	1991-93	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-93	140-8189	0.2340 I.D.,1.651 Length,0.4353 O.D.,I.D. Must Be Reamed To Size
	Exh	1991-93	140-8291	0.2350 I.D.,1.850 Length,0.4355 O.D.

1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 8, "4XF1"
1992-92 L4 110 CID**4XF1 6**
BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-92	SB1312-52	1 ⁵ / ₁₆ O.D.,1.060T I.D.,0.2400 Depth
	Exh	1992-92	SB1187-52	1 ³ / ₁₆ O.D.,0.934T I.D.,0.2570 Depth
Keeper	Both	1992-92	121-1074	1 RD Bead Type
Stem Seal	Both	1992-92	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-92	140-8189	0.2340 I.D.,1.651 Length,0.4353 O.D.,I.D. Must Be Reamed To Size
	Exh	1992-92	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

1817cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin B, N "G180Z"
1981-84 L4 111 CID**G180Z 7**
BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1981-84	SB1500-50	1 ¹ / ₂ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Non-Magnetic (N) Material
Keeper	Both	1981-84	121-1047	1 SQ Bead Type
Stem Seal	Both	1981-84	122-1119	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1981-84	140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
	Exh	1981-84	140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available

1817cc, (1.8L), SOHC, DIESEL, FI, 8 Valve, Vin P "4FB1"
1981-84 L4 110 CID**4FB1 8**
BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1981-84	122-1119	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1981-84	140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
	Exh	1981-84	140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

9 1949cc, (1.9L), SOHC, GAS, CARB, 8 Valve, Vin A "G200Z" G200Z-CA
 1983-86 L4 119 CID BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1983-86	SB1500-50	1½ O.D., 1.203T I.D., 0.2800 Depth, Also Available In Non-Magnetic (N) Material
Keeper	Both	1983-86	121-1047	1 SQ Bead Type
Stem Seal	Both	1983-86	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1983-86	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
	Exh	1983-86	140-7714	0.3145 I.D., 2.160 Length, 0.4745 O.D., +2 O/S Available
Spring	Both	1983-86	160-1247	1.900 Length

10 1949cc, (1.9L), SOHC, GAS, FI, 8 Valve, Vin A "G200Z" G200Z-FI
 1983-87 L4 119 CID BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-87	SB1750-51	1¾ O.D., 1.410T I.D., 0.2800 Depth
	Exh	1983-87	SB1500-50	1½ O.D., 1.203T I.D., 0.2800 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	1983-87	10087	1.673 Head Diameter, Square Groove, Impulse
	Exh	1983-87	10086	1.339 Head Diameter, Square Groove, Impulse
Keeper	Both	1983-87	121-1047	1 SQ Bead Type
Stem Seal	Both	1983-87	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1983-87	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
	Exh	1983-87	140-7714	0.3145 I.D., 2.160 Length, 0.4745 O.D., +2 O/S Available
Spring	Both	1983-87	160-1247	1.900 Length

11 1994cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin F, "4ZC1 Turbo" 4ZC1
 1985-89 L4 122 CID BORE - 88mm/3.47"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-89	SB1750-51	1¾ O.D., 1.410T I.D., 0.2800 Depth
	Exh	1985-89	SB1562-66	1⅞ O.D., 1.265T I.D., 0.2800 Depth
Valve	Int	1985-89	10218	1.663 Head Diameter
	Exh	1985-89	10220S	1.413 Head Diameter, Stellite Face
Keeper	Both	1985-89	121-1047	1 SQ Bead Type
Stem Seal	Both	1985-89	122-1263	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1985-89	140-7713	0.3145 I.D., 1.810 Length, 0.4745 O.D.
	Exh	1985-89	140-7714	0.3145 I.D., 2.160 Length, 0.4745 O.D., +2 O/S Available
Spring	Both	1985-89	160-1247	1.900 Length

12 2180cc, (2.2L), DOHC, GAS, FI, 16 Valve, Vin D, "X22SE" X22SE
 1998-03 L4 133 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1998-03	SB1375E-1	1.375 O.D., 1.100T I.D., 0.2270 Depth, OEM Replacement, + .010 Oversize Available, Note: Seat May Need To Be Machined To Achieve Correct Depth, Must Use Adjustable Cutter
	Exh	1998-03	SB1187-52	1⅞ O.D., 0.934T I.D., 0.2570 Depth, Note: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	1998-03	10784	1.260 Head Diameter
	Exh	1998-03	02040S	1.142 Head Diameter, Recommended OEM Nickel Base Inconel Material, Stellite Face
		1998-03	22040S	1.142 Head Diameter, Alternative Austenitic Material, Stellite Face
Keeper	Both	1998-03	121-1098	3 RD Bead Type

(Cont'd) **ISUZU / PASSENGER CAR OR TRUCK**

2180cc, (2.2L), DOHC, GAS, FI, 16 Valve, Vin D, "X22SE"
1998-03 L4 133 CID

X22SE 12
BORE - 86mm/3.39" (cont.)

PART	YEARS	PART NO.	NOTES
Stem Seal	Both 1998-03	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1998-03	140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh 1998-03	140-3011	0.2362 I.D.,1.378 Length,0.3950 O.D.
Spring	Both 1998-03	160-1578	1.666 Length
Lifter	Both 1998-03	VL571	Hydraulic Bucket Type
Head Bolt Set	1998-03	220-1124	Torque To Yield,Services Engine
Head Saver Shim	1998-03	230-2151	New Hgt. 5.315-5.330; Min. Hgt. 5.305

2180cc, (2.2L), OHV, GAS, FI, 8 Valve, Vin 4 "GM"
1996-00 L4 134 CID

ISU-GMT134 13
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int 1996-00	SB1812-55	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D.,0.2780 Depth	
	Exh 1996-00	SB1562-66	1 ⁹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth	
Valve	Int	1996-97	01736	1.732 Head Diameter,5.465 Overall Length
		1998-00	01902	1.732 Head Diameter,0.020 Shorter than OEM.,W/ .2746 Stem Dia., 5.265 Overall Length.
	Exh	1996-97	01737	1.457 Head Diameter,5.142 Overall Length
		1998-00	01903	1.457 Head Diameter,0.020 Shorter than OEM.,W/ .2738 Stem Dia., 4.980 Overall Length.
Keeper	Both 1996-00	121-1090	1 RD Bead Type	
Stem Seal	Both	1996-97	122-1236	Positive Type,Viton Material,Ring & Band Style
		1998-00	122-1324	Positive Type,Viton Material,Top Hat Style
Guide	Int 1996-97	140-8536	0.2757 I.D.,2.770 Length,0.5828 O.D.	
	Exh 1996-97	140-8535	0.2757 I.D.,2.320 Length,0.5828 O.D.	
	Both 1998-00	140-3009	0.2763 I.D.,2.289 Length,0.5110 O.D.,NOTE: Some Castings May Require The Use of a +2 O/S (140-3009+2) W/ .513 O.D. As The Standard Replacement.	
Spring	Both	1996-97	160-1267	1.960 Length,Conical
		1998-00	160-1436	1.900 Length,Conical
Lifter	Both 1996-00	VL138	Hydraulic Roller Type	
Rocker Components	Both 1996-97	181-1063	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) Nut	
Push Rod	Both	1996-97	192-1513	7.458 Length
		1998-00	190-1539	7.515 Length
Head Bolt Set	1996-97	220-1025	Torque To Yield,VIN 4, Services Engine	
	1998-00	220-1088	Torque To Yeild,Services Engine	
Head Saver Shim	1996-00	230-2115	New Hgt.- 5.3150 - 5.3200; Min. Hgt.- 5.3050	

2238cc, (2.2L), OHV, DIESEL, FI, 8 Valve, Vin S "C223"
1981-87 L4 134 CID

C223 14
BORE - 88mm/3.47"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1981-87	SB1625-55	1 ⁵ / ₁₆ O.D.,1.333T I.D.,0.2370 Depth
	Exh 1981-87	SB1437-58	1 ⁷ / ₁₆ O.D.,1.095T I.D.,0.2370 Depth
Valve	Int 1981-87	10216	1.575 Head Diameter
	Exh 1981-87	10217	1.339 Head Diameter
Stem Seal	Both 1981-87	122-1137	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1981-87	140-7656	0.3145 I.D.,1.970 Length,0.5528 O.D.

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

15 2238cc, (2.2L), SOHC, DIESEL, FI, 8 Valve, Vin U "C223 TURBO" C223T
 1986-87 L4 137 CID BORE - 88mm/3.47"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1986-87	10214	1.496 Head Diameter
	Exh	1986-87	10215S	1.260 Head Diameter,Stellite Face
Stem Seal	Both	1986-87	122-1137	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1986-87	140-7656	0.3145 I.D.,1.970 Length,0.5528 O.D.

16 2254cc, (2.3L), SOHC, GAS, FI, 16 Valve, "F23A7 Honda" ISU-F23A7
 1998-99 L4 138 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-99	10541	1.339 Head Diameter
	Exh	1998-99	10542	1.142 Head Diameter,Inconel
Keeper	Both	1998-99	121-1060	1 RD Bead Type
Stem Seal	Int	1998-99	122-1201	Positive Type,Viton Material,Metal Clad Style
	Exh	1998-99	122-1202	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1998-99	140-8158	0.2173 I.D.,1.875 Length,0.4358 O.D.,W/ Snap Ring
	Exh	1998-99	140-8157	0.2173 I.D.,2.130 Length,0.4358 O.D.
Spring	Int	1998-99	160-1402	2.011 Length
	Exh	1998-99	160-1403	2.180 Length

17 2254cc, (2.3L), SOHC, GAS, CARB, FI, 8 Valve, Vin L "4ZD1" 4ZD1
 1986-95 L4 134 CID BORE - 89.4mm/3.52"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-95	SB1750-51	1 $\frac{3}{4}$ O.D.,1.410T I.D.,0.2800 Depth,Use W/ 1.663 Head Dia.
		1988-89	SB1812-51	1 $\frac{13}{16}$ O.D.,1.530T I.D.,0.3070 Depth,Use W/ 1.736 Head Dia.
	Exh	1986-95	SB1562-66	1 $\frac{9}{16}$ O.D.,1.265T I.D.,0.2800 Depth,Use W/ 1.413 Head Dia.
		1988-89	SB1625-54	1 $\frac{5}{8}$ O.D.,1.329 I.D.,0.2800 Depth,Use W/ 1.453 Head Dia.
Valve	Int	1986-95	10218	1.663 Head Diameter
		1988-89	10219	1.736 Head Diameter,Impulse
	Exh	1986-95	10220S	1.413 Head Diameter,Stellite Face
		1988-89	10221S	1.453 Head Diameter,Stellite Face,Impulse
Keeper	Both	1986-95	121-1047	1 SQ Bead Type
Stem Seal	Both	1986-95	122-1119	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1986-95	140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
	Exh	1986-95	140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available
Spring	Both	1986-95	160-1247	1.900 Length
Head Saver Shim		1986-95	230-2045	New Hgt.- 3.6673 - 3.6712; Min. Hgt.- 3.6513

18 2559cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin E "4ZE1" 4ZE1
 1988-97 L4 156 CID BORE - 92.6mm/3.65"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-97	SB1812-51	1 $\frac{13}{16}$ O.D.,1.530T I.D.,0.3070 Depth
	Exh	1988-97	SB1625-54	1 $\frac{5}{8}$ O.D.,1.329 I.D.,0.2800 Depth
Valve	Int	1988-97	10219	1.736 Head Diameter
	Exh	1988-97	10221S	1.453 Head Diameter,Stellite Face
Keeper	Both	1988-97	121-1047	1 SQ Bead Type
Stem Seal	Both	1988-97	122-1119	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	1988-97	140-7713	0.3145 I.D.,1.810 Length,0.4745 O.D.
	Exh	1988-97	140-7714	0.3145 I.D.,2.160 Length,0.4745 O.D.,+2 O/S Available
Spring	Both	1988-97	160-1247	1.900 Length
Head Saver Shim		1988-97	230-2041	New Hgt.- 3.6673 - 3.6712; Min. Hgt.- 3.6513

(Cont'd) ISUZU / PASSENGER CAR OR TRUCK**172 C.I., (2.8L), OHV, GAS, FI, 12 Valve, Vin R "GM LL2"**
1989-91 V6 172 CID**ISU2.8-LL2 19**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-91	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1989-91	
		SB1812-4	
		SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1989-91	1.718 Head Diameter, +15 O/S Stem Available
	Exh	1989-91	
		01481	
		01480	1.425 Head Diameter, +15 O/S Stem Available
Keeper	Both	1989-91	1 SQ Bead Type
Stem Seal	Both	1989-91	O-Ring Type, Nitrile Material, O-Ring Style
Guide	Both	1989-91	0.3440 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Cast Iron Head
Lifter	Both	1989-91	VL94 Hydraulic Type
Rocker Components	Both	1989-91	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
		1989-91	
		1989-91	
		1989-91	
		181-1016	
		183-1015	Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud
		184-1025	Stud, 10mm, Adjustable
		184-1032	Nut, 10mm, Adjustable
Push Rod	Both	1989-91	6.162 Length
Head Bolt Set		1989-91	Torque To Yield, Services Engine
Head Saver Shim		1989-91	New Hgt. - 3.5805 - 3.5950; Min. Hgt. - 3.5750, 2 Required

169 C.I., (2.8L), DOHC, GAS, FI, 16 Valve, Vin 8 "GM Vortec"
2006-06 L4 169 CID**ISU-2.8GM 20**
BORE - 92.96mm/3.66"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2006-06	1 ¹ / ₄ O.D., 0.965T I.D., ¹ / ₄ Depth, NOTE: Optional ¹ / ₄ Depth; Must Machine Insert To Achieve Correct Depth
		2006-06	
		SB1250-50	
		SB1250-65	1 ¹ / ₄ O.D., 1.030 I.D., 0.2150 Depth
Valve	Int	2006-06	1.457 Head Diameter
	Exh	2006-06	
		01998	
		01999	1.201 Head Diameter
Keeper	Both	2006-06	3 RD Bead Type
Stem Seal	Both	2006-06	Positive Type, Viton Material, Top Hat Style
Guide	Both	2006-06	0.2355 I.D., 1.735 Length, 0.4360 O.D.
Spring	Both	2006-06	1.770 Length
Lifter	Both	2006-06	VL175 Hydraulic Lash Adjuster Type
Rocker Components	Both	2006-06	Cam Follower
Head Bolt Set		2006-06	Torque To Yield, Services Engine

178 C.I., (2.9L), DOHC, GAS, FI, 16 Valve, Vin 9 "GM"
2007-08 L4 178 CID**ISU2.9-DC 21**
BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Valve	Int	2007-08	1.525 Head Diameter
	Exh	2007-08	
		13179	
		13046	1.323 Head Diameter
Keeper	Both	2007-08	3 RD Bead Type
Stem Seal	Both	2007-08	Positive Type, Viton Material, Top Hat Style
Guide	Both	2007-08	0.2355 I.D., 1.735 Length, 0.4360 O.D.
Spring	Both	2007-08	1.760 Length, Conical
Lifter	Both	2007-08	VL175 Hydraulic Lash Adjuster Type
Rocker Components	Both	2007-08	Cam Follower
Head Bolt Set		2007-08	Torque To Yield, Services Engine

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

21 178 C.I., (2.9L), DOHC, GAS, FI, 16 Valve, Vin 9 "GM" ISU2.9-DC
 (cont.) 2007-08 L4 178 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Head Saver Shim	2007-08	230-2181	New Hgt. - N/A; Min. Hgt. - N/A

22 3137cc, (3.1L), OHV, GAS, FI, 12 Valve, Vin Z ISU3.1-CPC
 1991-94 V6 191 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1991-94	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh 1991-94	SB1500-1	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1991-94	01481	1.718 Head Diameter, +15 O/S Stem Available
	Exh 1991-94	01480	1.425 Head Diameter, +15 O/S Stem Available
Keeper	Both 1991-94	121-1003	1 SQ Bead Type
Stem Seal	Int 1991-91	122-1198	Positive Type, Viton Material, Metal Clad Style
	Exh 1991-91	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
	Both 1992-94	122-1069	Positive Type, Viton Material, Ring & Band Style, W/ .314 Stem Dia.
Guide	Both 1991-94	140-8112	0.3155 I.D., 2.085 Length, 0.5530 O.D., W/ Snap Ring, Aluminum Head, +2 O/S Available
	1991-94	140-9560	0.3440 I.D., 2.000 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Cast Iron Head
Lifter	Both 1991-94	VL94	Hydraulic Type
Rocker Components	Both 1991-94	181-1016	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Smooth Ball, (1) 10mm Nut
	1991-94	183-1015	Smooth Ball, 10mm, Use W/ Metric Threaded Rocker Arm Stud
	1991-94	184-1025	Stud, 10mm, Adjustable
	1991-94	184-1032	Nut, 10mm, Adjustable
	1991-94	184-1033	Nut, 8mm, Non-Adjustable
Push Rod	Both 1991-94	192-1444	6.162 Length
Head Saver Shim	1991-94	230-2025	New Hgt. - 3.5850 - 3.5950; Min. Hgt. - 3.5750, 2 Required

23 3165cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin W "6VD1" 6VD1-DC
 1992-95 V6 193 CID BORE - 93.4mm/3.68"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1992-95	SB1437-67	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.2550 Depth
Keeper	Both 1992-95	121-1074	1 RD Bead Type
Stem Seal	Both 1992-95	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both 1992-95	140-8255	0.2345 I.D., 1.775 Length, 0.4355 O.D., I.D. Must Be Reamed To Size
Spring	Both 1992-95	160-1372	1.970 Length
Head Saver Shim	1992-95	230-2094	New Hgt. - 4.126, 2 Required

24 3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, Vin V "6VD1" 6VD1-SC
 1992-97 V6 193 CID BORE - 93.4mm/3.68"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1992-97	SB1437-67	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.2550 Depth
Valve	Int 1992-97	10502	1.339 Head Diameter
	Exh 1992-97	10503	1.181 Head Diameter
Keeper	Both 1992-97	121-1074	1 RD Bead Type
Stem Seal	Both 1992-97	122-1147	Positive Type, Viton Material, Metal Clad Style

(Cont'd) **ISUZU / PASSENGER CAR OR TRUCK**

3165cc, (3.2L), SOHC, GAS, FI, 24 Valve, Vin V "6VD1" **6VD1-SC 24**
1992-97 V6 193 CID **BORE - 93.4mm/3.68" (cont.)**

PART	YEARS	PART NO.	NOTES
Guide	Both 1992-97	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size
Spring	Both 1992-97	160-1372	1.970 Length
Lifter	Both 1992-97	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim	1992-97	230-2094	New Hgt.- 4.126, 2 Required

3165cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin W, "6VD1W" **6VD1W-DC 25**
1998-04 V6 193 CID **BORE - 93.4mm/3.68"**

PART	YEARS	PART NO.	NOTES
Valve	Int 1998-04 Exh 1998-04	10739 10740	1.338 Head Diameter 1.142 Head Diameter
Keeper	Both 1998-04	121-1074	1 RD Bead Type
Guide	Both 1998-04	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

3475cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin X, 6VE1 **6VE1 26**
1998-03 V6 212 CID **BORE - 93.4mm/3.68"**

PART	YEARS	PART NO.	NOTES
Valve	Int 1998-03 Exh 1998-03	10739 10740	1.338 Head Diameter 1.142 Head Diameter
Keeper	Both 1998-03	121-1074	1 RD Bead Type
Guide	Both 1998-03	140-8255	0.2345 I.D.,1.775 Length,0.4355 O.D.,I.D. Must Be Reamed To Size

211 C.I., (3.5L), DOHC, GAS, FI, 20 Valve, Vin 6 "GM Vortec" **ISU-3.5GM 27**
2006-06 L5 211 CID **BORE - 92.96mm/3.66"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 2006-06 2006-06	SB1250-50 SB1250-65	1¼ O.D.,0.965T I.D.,¼ Depth,NOTE: Optional ¼ Depth; Must Machine Insert To Achieve Correct Depth 1¼ O.D.,1.030 I.D.,0.2150 Depth
Valve	Int 2006-06 Exh 2006-06	01998 01999	1.457 Head Diameter 1.201 Head Diameter
Keeper	Both 2006-06	121-1098	3 RD Bead Type
Stem Seal	Both 2006-06	122-1349	Positive Type,Viton Material,Top Hat Style
Guide	Both 2006-06	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.
Spring	Both 2006-06	160-1480	1.770 Length
Lifter	Both 2006-06	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both 2006-06	180-1323	Cam Follower
Head Bolt Set	2006-06	220-1101	Torque To Yield,Services Engine
Head Saver Shim	2006-06	230-2183	New Hgt. - N/A; Min. Hgt. - N/A

223 C.I., (3.7L), DOHC, GAS, FI, 20 Valve, Vin E "GM" **ISU3.7-DC 28**
2007-08 L5 223 CID **BORE - 95.5mm/3.76"**

PART	YEARS	PART NO.	NOTES
Valve	Int 2007-08 Exh 2007-08	13179 13046	1.525 Head Diameter 1.323 Head Diameter
Keeper	Both 2007-08	121-1098	3 RD Bead Type
Stem Seal	Both 2007-08	122-1394	Positive Type,Viton Material,Top Hat Style
Guide	Both 2007-08	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

28 223 C.I., (3.7L), DOHC, GAS, FI, 20 Valve, Vin E "GM" ISU3.7-DC
 (cont.) 2007-08 L5 223 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES
Spring	Both	2007-08 160-1579	1.760 Length,Conical
Lifter	Both	2007-08 VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2007-08 180-1323	Cam Follower
Head Bolt Set		2007-08 220-1101	Torque To Yield,Services Engine
Head Saver Shim		2007-08 230-2184	New Hgt. - N/A; Min. Htg. - N/A

29 236 C.I., (3.9L), DIESEL, FI, Vin H, K, 4BD1/T, 4BD2/T, "Non Turbo & Turbo" 4BD1-2T
 1990-98 L4 236 CID BORE - 102mm/4.02"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1854E-1 SB1539E-2 SB1562-46N	1.854 O.D.,1.610T I.D.,0.2770 Depth,OEM # 9117156070 1.5395 O.D.,1.297T I.D.,0.2760 Depth,OEM # 5117110340 1 ¹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁹ / ₃₂ Depth,Alternate Universal Oversize
Valve	Int Exh	10725 10726 10728S	1.772 Head Diameter,OEM # 8970287020, 8970343790, 8941295500 1.476 Head Diameter,OEM # 8970287060, 5125520480, 8943331140, 8944619580, 4BD1 Non-Turbo 1.476 Head Diameter,Inconel, Stellite Face,OEM # 8970850662, 8970427240, 8970949940, 4BD2T Turbo Applications
Stem Seal	Both	122-1315	Positive Type,Viton Material,Metal Clad Style,OEM # 8971201670
Guide	Both	140-8023	0.3548 I.D.,2.365 Length,0.5525 O.D.,OEM # 5117210010
Spring	Both	160-1434 160-1435	2.059 Length,Inner, OEM # 8941255110 2.131 Length,Outer, OEM # 8941255120

30 256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S "GM Vortec" ISU-256GM
 2003-08 L6 256 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2003-06 SB1250-50 2003-06 SB1250-65	1 ¹ / ₄ O.D.,0.965T I.D., ¹ / ₄ Depth,NOTE: Optional ¹ / ₄ Depth; Must Machine Insert To Achieve Correct Depth 1 ¹ / ₄ O.D.,1.030 I.D.,0.2150 Depth
Valve	Int Exh	2003-06 01998 2007-08 13179 2003-06 01999 2007-08 13046	1.457 Head Diameter 1.525 Head Diameter 1.201 Head Diameter 1.323 Head Diameter
Keeper	Both	2003-08 121-1098	3 RD Bead Type
Stem Seal	Both	2003-06 122-1349 2007-08 122-1394	Positive Type,Viton Material,Top Hat Style Positive Type,Viton Material,Top Hat Style
Guide	Both	2003-08 140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.
Spring	Both	2003-05 160-1480 2006-08 160-1579	1.770 Length 1.760 Length,Conical
Lifter	Both	2003-08 VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2003-08 180-1323	Cam Follower
Head Bolt Set		2003-08 220-1101	Torque To Yield,Services Engine

31 290 C.I., (4.8L), DIESEL, FI, Vin 4, 5, " 4HE1 Turbo" 4HE1-TC
 1998-04 L4 290 CID BORE - 110.6mm/4.33"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	SB1894E-1	1.894 O.D.,1.570T I.D.,0.2920 Depth,OEM # 8943944620, W/1.830 Head Dia.

(Cont'd) ISUZU / PASSENGER CAR OR TRUCK**290 C.I., (4.8L), DIESEL, FI, Vin 4, 5, " 4HE1 Turbo"**
1998-04 L4 290 CID**4HE1-TC 31**
BORE - 110.6mm/4.33" (cont.)

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	SB2013E-1	2.013 O.D.,1.770T I.D.,0.2885 Depth,OEM # 8970884600, W/1.969 Head Dia.
	Exh	SB1697E-1	1.697 O.D.,1.450T I.D.,0.2760 Depth,OEM # 8943961720
Valve	Int	02237 02239	1.969 Head Diameter,OEM # 8943951131, 8970338642 1.830 Head Diameter,OEM # 8943994300, 8970338641
	Exh	02238	1.654 Head Diameter,OEM # 8943954620, 8970604150, 8971891140, 8972195092
Stem Seal	Both	122-1369	Positive Type,Viton Material,Metal Clad Style,OEM # 8943966092
Guide	Both	140-3054	0.3547 I.D.,2.365 Length,0.5526 O.D.,OEM # 8943965980
Spring	Int	160-1553 160-1554	2.083 Length,Conical,Inner, OEM # 8943933971, 8943952660, 8971209110 2.199 Length,Outer, OEM # 8943933961, 8943949960, 8971209120
	Exh	160-1551 160-1552	2.322 Length,Conical,Inner, OEM # 8971208990 2.491 Length,Barrel Shaped,Outer, OEM # 8971209050
Head Saver Shim		230-2152	New Hgt.- 4.6831 - 4.6870; Min. Hgt. N/A

317 C.I., (5.2L), DIESEL, FI, Vin 6, "4HK1 Turbo"
2005-12 L4 317 CID**4HK1 32**
BORE - 115mm/4.53"

PART	YEARS	PART NO.	NOTES
Valve	Int	13121	1.457 Head Diameter,OEM # 8943958820
	Exh	13122	1.456 Head Diameter,OEM # 8943958830, 8972098762, 8972098763
Stem Seal	Both	122-1137	Positive Type,Viton Material,Metal Clad Style,OEM # 5125690040
		122-1413	Positive Type,Viton Material,Top Hat Style,OEM # 8972107020
Guide	Both	140-3101	0.3150 I.D.,2.245 Length,0.5526 O.D.,OEM # 8943907800
Spring	Int	160-1570	2.386 Length,OEM # 8973528880
	Exh	160-1571	2.780 Length,OEM # 8972106820
Head Saver Shim		230-2166	New Hgt.- 4.6850; Min Hgt.-N/A; 1 Required; NOTE: This Shim Must Be Installed On Cylinder Head Side Of Gasket Due To Cylinder Sleeve Protrusion

323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin P, "GM LM4 Vortec 5300 Gen III Aluminum Block"

2003-04 V8 323 CID

ISU5.3-LM4 33
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2003-04 SB2062-50	2 ¹ / ₁₆ O.D.,1.750 I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2003-04 SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	2003-04 01934	1.890 Head Diameter
	Exh	2003-04 01935	1.551 Head Diameter
Keeper	Both	2003-04 121-1085	1 RD Bead Type
Stem Seal	Int	2003-04 122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2003-04 122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2003-04 140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2003-04 140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version

ISUZU / PASSENGER CAR OR TRUCK (Cont'd)

33 323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin P, "GM LM4 Vortec 5300 Gen III Aluminum Block"

ISU5.3-LM4

(cont.) 2003-04

V8 323 CID

BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Guide	Both	2003-04	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2003-04	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2003-04	160-1488	2.126 Length,Conical
Lifter	Both	2003-04	VL115	Hydraulic Roller Type,Always Rotate Oil Hole Up When Installing Lifter With Exception To Inline 4 Cylinder Applications. Oil Hole Is Positioned In Line With Line With Roller. ,Non-Active Fuel Management
Rocker Components	Both	2003-04	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2003-04	190-1537	7.397 Length
Head Bolt Set		2003-04	220-1102	Torque To Yield,NOTE: Services Engine

34 323 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Active Fuel Mgmt., Vin M "GM LH6 Vortec 5300 Gen IV Aluminum Block"

ISU5.3-LH6

2005-06

V8 323 CID

BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2005-06	SB1625-64	1 $\frac{5}{8}$ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	2005-06	02000	2.000 Head Diameter
	Exh	2005-06	01935	1.551 Head Diameter
Keeper	Both	2005-06	121-1085	1 RD Bead Type
Stem Seal	Int	2005-06	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2005-06	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-06	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2005-06	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2005-06	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2005-06	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2005-06	160-1488	2.126 Length,Conical
Lifter	Both	2005-06	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 8126395160; NOTE: It Is Recommended To Replace In Sets.
		2005-06	VL558FG	AFM Lifter Guide-Front Type,OEM # 8125715960; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2005-06	VL558RG	AFM Lifter Guide-Rear Type,OEM # 8125716080; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2005-06	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 8171224900; 8 Required
Rocker Components	Both	2005-06	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2005-06	190-1537	7.397 Length
Head Bolt Set		2005-06	220-1103	Torque To Yield,NOTE: Services Engine

(Cont'd) **ISUZU / PASSENGER CAR OR TRUCK**

5787cc, (5.8L), DIESEL, FI, Vin N, "6BD1 Turbo"
1990-91 L6 353 CID

6BD1 35
BORE - 102.24mm/4.03"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int		SB1854E-2	1.854 O.D.,1.609T I.D.,0.2775 Depth,OEM # 1117150540
	Exh		SB1539E-2	1.5395 O.D.,1.297T I.D.,0.2760 Depth,OEM # 1117110430
			SB1562-46N	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁹ / ₃₂ Depth,Alternate Universal Oversize
Valve	Int		13115	1.811 Head Diameter,OEM # 1125511390, 1125510830
	Exh		13120	1.476 Head Diameter,OEM # 1125520830
Stem Seal	Both		122-1315	Positive Type,Viton Material,Metal Clad Style,OEM # 8971201670
Guide	Both		140-8023	0.3548 I.D.,2.365 Length,0.5525 O.D.,OEM # 5117210010
Spring	Int		160-1555	1.955 Length,Conical,Inner, OEM # 1125620570, From 11/1989 To 12/1993
			160-1556	2.051 Length,Conical,Outer, OEM # 1125610890, From 11/1989 To 12/1993
	Exh		160-1557	2.133 Length,Conical,Inner, OEM # 1125620270, 1125620580, From 11/1989 To 12/1993
			160-1558	2.085 Length,Conical,Outer, OEM # 1125610380, 1125610900, From 11/1989 To 12/1993

7131cc, (7.1L), DIESEL, FI, Vin 2, "6HE1 Turbo"
1995-98 L6 435 CID

6HE1TC 36
BORE - 107.2mm/4.22"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int		SB1894E-1	1.894 O.D.,1.570T I.D.,0.2920 Depth,OEM # 8943944620, W/1.830 Head Dia.
			SB2013E-1	2.013 O.D.,1.770T I.D.,0.2885 Depth,OEM # 8970884600, W/1.969 Head Dia.
	Exh		SB1697E-1	1.697 O.D.,1.450T I.D.,0.2760 Depth,OEM # 8943961720
Valve	Int		02237	1.969 Head Diameter,OEM # 8943951131, 8970338642
	Exh		02239	1.830 Head Diameter,OEM # 8943994300, 8970338641
			02238	1.654 Head Diameter,OEM # 8943954620, 8970604150, 8971891140, 8972195092
Stem Seal	Both		122-1369	Positive Type,Viton Material,Metal Clad Style,OEM # 8943966092
Guide	Both		140-3054	0.3547 I.D.,2.365 Length,0.5526 O.D.,OEM # 8943965980
Spring	Int		160-1553	2.083 Length,Conical,Inner, OEM # 8943933971, 8943952660, 8971209110
			160-1554	2.199 Length,Outer, OEM # 8943933961, 8943949960, 8971209120
	Exh		160-1566	2.423 Length,Inner, OEM # 8943975000
			160-1567	2.789 Length,Barrel Shape,Outer, OEM # 8943933100

475 C.I., (7.8L), DIESEL, FI, Vin 3, "6HK1 Turbo"
1998-11 L6 475 CID

6HK1TC 37
BORE - 115mm/4.529"

PART		YEARS	PART NO.	NOTES
Valve	Int		13121	1.457 Head Diameter,OEM # 8943958820
	Exh		13122	1.456 Head Diameter,OEM # 8943958830, 8972098762, 8972098763
Stem Seal	Both		122-1137	Positive Type,Viton Material,Metal Clad Style,OEM # 8971203070
Guide	Both		140-3101	0.3150 I.D.,2.245 Length,0.5526 O.D.,OEM # 8943907800
Spring	Int		160-1549	2.618 Length,OEM # 8943958840
	Exh		160-1550	2.691 Length,OEM # 8943958850
Head Saver Shim			230-2197	New Hgt. - 4.6850" - Min. hgt. - N/A

ISUZU / INDUSTRIAL (Cont'd)

Engine	Models	Line No.
4 Cylinder		
145 C.I., (2.4L), C240 Isuzu Forklift		1
236 C.I., (3.9L), 4BD1T & 4BD2T Industrial		2
290 C.I., (4.8L), 4HE1TC Industrial		3
317 C.I., (5.2L), 4HK1 Industrial		4
6 Cylinder		
353 C.I., (5.8L), 6BD1T Industrial, 1986-93		5
435 C.I., (7.1L), 6HE1TC & 6HE1TCN		6
396 C.I., (6.5L), 6BG1 Industrial, 1986-93		7
475 C.I., (7.8L), 6HK1TCN & 6HK1TCS		8
513 C.I., (8.4L), 6SA1T & 6SA1TC Industrial		9

1 145 C.I., (2.4L), C240 Isuzu Forklift **C240**
L4 145 CID **BORE - 86mm/3.3858"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1625-55	1 $\frac{5}{8}$ O.D., 1.333T I.D., 0.2370 Depth, OEM # 5117110260
	Exh SB1437-58	1 $\frac{7}{16}$ O.D., 1.095T I.D., 0.2370 Depth, OEM # 5117150230
Valve	Int 10216	1.575 Head Diameter, OEM # 5125510280
	Exh 10217	1.339 Head Diameter, OEM # 5125520340
Stem Seal	Both 122-1137	Positive Type, Viton Material, Metal Clad Style, OEM # 5125690040
Guide	Both 140-7656	0.3145 I.D., 1.970 Length, 0.5528 O.D., OEM # 5117210160

2 236 C.I., (3.9L), 4BD1T & 4BD2T Industrial **IND-4BD1T**
L4 236 CID **BORE - 102mm/4.016"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1854E-1	1.854 O.D., 1.610T I.D., 0.2770 Depth, OEM # 9117156070
	Exh SB1539E-2	1.5395 O.D., 1.297T I.D., 0.2760 Depth, OEM # 5117110340
	SB1562-46N	1 $\frac{5}{16}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{9}{32}$ Depth, Alternate Universal Oversize
Valve	Int 10725	1.772 Head Diameter, OEM # 8970287020, 8970343790, 8941295500, 8944619570
	Exh 10726	1.476 Head Diameter, OEM # 8970287060, 5125520480, 8943331140, 8944619580, 4BD1 Non-Turbo
	10728S	1.476 Head Diameter, Inconel, Stellite Face, OEM # 8970850662, 8970427240, 8970949940, 4BD2T Turbo Applications
Stem Seal	Both 122-1315	Positive Type, Viton Material, Metal Clad Style, OEM # 1125690010
Guide	Both 140-8023	0.3548 I.D., 2.365 Length, 0.5525 O.D., OEM # 5117210010
Spring	Both 160-1434	2.059 Length, Inner, OEM # 8941255110
	160-1435	2.131 Length, Outer, OEM # 8941255120

3 290 C.I., (4.8L), 4HE1TC Industrial **IND-4HE1TC**
L4 290 CID **BORE - 110mm/4.3323"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1894E-1	1.894 O.D., 1.570T I.D., 0.2920 Depth, OEM # 8943944620, W/1.830 Head Dia.
	SB2013E-1	2.013 O.D., 1.770T I.D., 0.2885 Depth, OEM # 8970884600, W/1.969 Head Dia.
	Exh SB1697E-1	1.697 O.D., 1.450T I.D., 0.2760 Depth, OEM # 8943961720
Valve	Int 02237	1.969 Head Diameter, OEM # 8943951131, 8970338642
	02239	1.830 Head Diameter, OEM # 8943994300, 8970338641
	Exh 02238	1.654 Head Diameter, OEM # 8943954620, 8970604150, 8971891140, 8972195092

(Cont'd) ISUZU / INDUSTRIAL**290 C.I., (4.8L), 4HE1TC Industrial**
L4 290 CID**IND-4HE1TC 3**
BORE - 110mm/4.3323" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1369	Positive Type,Viton Material,Metal Clad Style,OEM # 8943966092
Guide	Both	140-3054	0.3547 I.D.,2.365 Length,0.5526 O.D.,OEM # 8943965980
Spring	Int	160-1553	2.083 Length,Conical,Inner, OEM # 8943933971, 8943952660, 8971209110
		160-1554	2.199 Length,Outer, OEM # 8943933961, 8943949960, 8971209120
	Exh	160-1551	2.322 Length,Conical,Inner, OEM # 8971208990
		160-1552	2.491 Length,Barrel Shaped,Outer, OEM # 8971209050
Head Saver Shim		230-2152	New Hgt.- 4.6831 - 4.6870; Min. Hgt. N/A

317 C.I., (5.2L), 4HK1 Industrial
L4 317 CID**IND-4HK1 4**
BORE - 115mm/4.53"

PART		PART NO.	NOTES
Valve	Int	13121	1.457 Head Diameter,OEM # 8943958820
	Exh	13122	1.456 Head Diameter,OEM # 8943958830, 8972098762, 8972098763
Stem Seal	Both	122-1137	Positive Type,Viton Material,Metal Clad Style,OEM # 5125690040
		122-1413	Positive Type,Viton Material,Top Hat Style,OEM # 8-97210-702-0
Guide	Both	140-3101	0.3150 I.D.,2.245 Length,0.5526 O.D.,OEM # 8-94390-780-0
Spring	Int	160-1570	2.386 Length,OEM # 8-97352-888-0
	Exh	160-1571	2.780 Length,OEM # 8-97210-692-0
Head Saver Shim		230-2166	New Hgt.- 4.6850; Min Hgt.-N/A; 1 Required; NOTE: This Shim Must Be Installed On Cylinder Head Side Of Gasket Due To Cylinder Sleeve Protrusion

353 C.I., (5.8L), 6BD1T Industrial, 1986-93
L6 353 CID**IND-6BD1T 5**
BORE - 102mm/4.016"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1854E-2	1.854 O.D.,1.609T I.D.,0.2775 Depth,OEM # 1117150540
	Exh	SB1539E-2	1.5395 O.D.,1.297T I.D.,0.2760 Depth,OEM # 1117110430
		SB1562-46N	1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁹ / ₃₂ Depth,Alternate Universal Oversize
Valve	Int	13115	1.811 Head Diameter,OEM # 1125511390, 1125510830
	Exh	13120	1.476 Head Diameter,OEM # 1125520830
Stem Seal	Both	122-1315	Positive Type,Viton Material,Metal Clad Style,OEM # 8971201670
Guide	Both	140-8023	0.3548 I.D.,2.365 Length,0.5525 O.D.,OEM # 5117210010
Spring	Int	160-1555	1.955 Length,Conical,Inner, OEM # 1125620570
		160-1556	2.051 Length,Conical,Outer, OEM # 1125610890
	Exh	160-1557	2.133 Length,Conical,Inner, OEM # 1125620270, 1125620580
		160-1558	2.085 Length,Conical,Outer, OEM # 1125610380, 1125610900

435 C.I., (7.1L), 6HE1TC & 6HE1TCN
L6 435 CID**IND-6HE1TC 6**
BORE - 107mm/4.2207"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1894E-1	1.894 O.D.,1.570T I.D.,0.2920 Depth,OEM # 8943944620, W/1.830 Head Dia.
		SB2013E-1	2.013 O.D.,1.770T I.D.,0.2885 Depth,OEM # 8970884600, W/1.969 Head Dia.
	Exh	SB1697E-1	1.697 O.D.,1.450T I.D.,0.2760 Depth,OEM # 8943961720
Valve	Int	02237	1.969 Head Diameter,OEM # 8943951131, 8970338642
		02239	1.830 Head Diameter,OEM # 8943994300, 8970338641
	Exh	02238	1.654 Head Diameter,OEM # 8943954620, 8970604150, 8971891140, 8972195092
Stem Seal	Both	122-1369	Positive Type,Viton Material,Metal Clad Style,OEM # 8943966092
Guide	Both	140-3054	0.3547 I.D.,2.365 Length,0.5526 O.D.,OEM # 8943965980

ISUZU / INDUSTRIAL (Cont'd)

6 435 C.I., (7.1L), 6HE1TC & 6HE1TCN IND-6HE1TC
 (cont.) L6 435 CID BORE - 107mm/4.2207"

PART		PART NO.	NOTES
Spring	Int	160-1553	2.083 Length,Conical,Inner, OEM # 8943933971, 8943952660, 8971209110
		160-1554	2.199 Length,Outer, OEM # 8943933961, 8943949960, 8971209120
	Exh	160-1566	2.423 Length,Inner, OEM # 8943975000
		160-1567	2.789 Length,Barrel Shape,Outer, OEM # 8943933100

7 396 C.I., (6.5L), 6BG1 Industrial, 1986-93 IND-6BG1
 L6 396 CID BORE - 105.04mm/4.135"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1854E-2	1.854 O.D.,1.609T I.D.,0.2775 Depth,OEM #1117150540
	Exh	SB1539E-2	1.5395 O.D.,1.297T I.D.,0.2760 Depth,OEM # 1117110430
Valve	Int	13115	1.811 Head Diameter,OEM # 1125511390, 1125510830
	Exh	13120	1.476 Head Diameter,OEM # 1125520830
Stem Seal	Both	122-1315	Positive Type,Viton Material,Metal Clad Style,OEM # 5125690010
Guide	Both	140-8023	0.3548 I.D.,2.365 Length,0.5525 O.D.,OEM # 5117210010
Spring	Int	160-1555	1.955 Length,Conical,Inner, OEM # 1125620570, From 11/1989 To 12/1993
		160-1556	2.051 Length,Conical,Outer, OEM # 1125610890, From 11/1989 To 12/1993
	Exh	160-1557	2.133 Length,Conical,Inner, OEM # 1125620270, 1125620580, From 11/1989 To 12/1993
		160-1558	2.085 Length,Conical,Outer, OEM # 1125610380, 1125610900, From 11/1989 To 12/1993

8 475 C.I., (7.8L), 6HK1TCN & 6HK1TCS IND-6HK1TCN
 L6 475 CID BORE 115mm/4.53"

PART		PART NO.	NOTES
Valve	Int	13121	1.457 Head Diameter,OEM # 8943958820
	Exh	13122	1.456 Head Diameter,OEM # 8943958830, 8972098762, 8972098763
Stem Seal	Both	122-1137	Positive Type,Viton Material,Metal Clad Style,OEM # 8971203070
Guide	Both	140-3101	0.3150 I.D.,2.245 Length,0.5526 O.D.,OEM # 8943907800
Spring	Int	160-1549	2.618 Length,OEM # 8943958840
	Exh	160-1550	2.691 Length,OEM # 8943958850
Head Saver Shim		230-2197	New Hgt. - 4.6850" - Min. hgt. - N/A

9 513 C.I., (8.4L), 6SA1T & 6SA1TC Industrial IND-6SA1T
 L6 513 CID BORE - 115mm/4.53"

PART		PART NO.	NOTES
Valve	Int	13117	1.929 Head Diameter,OEM # 1125511110, 1125511112
	Exh	13118S	1.815 Head Diameter,Stellite Face,OEM # 1125520630
Stem Seal	Both	122-1407	Positive Type,Viton Material,Metal Clad Style,OEM # 5125690160, 1987-90
Guide	Both	140-8024	0.3935 I.D.,2.360 Length,0.6315 O.D.,OEM # 1117210080
Spring	Int	160-1545	2.165 Length,Inner, OEM # 1125620080, From 8/1987 To 12/1990
		160-1546	2.300 Length,Outer, OEM # 1125610110, From 8/1987 To 12/1990
	Exh	160-1547	2.707 Length,Inner, OEM # 1125610480, 1125610730, From 8/1987 To 12/1990
		160-1548	3.117 Length,Barrel Shaped,Outer, OEM # 1125610470, 1125610720, From 8/1987 To 12/1990

JAGUAR / PASSENGER CAR

Engine	Models	Line No.		
6 Cylinder				
181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin A, F, W "Ford Duratec" (2000-08)	S-Type, X-Type	1		
231 C.I., (3.8L), DOHC, GAS, CARB (1959-67)	3.8, Mark IX, Mark X, XK150, XKE	2		
258 C.I., (4.2L), DOHC, GAS, CARB, FI, 12 Valve, Vin 2, 3, N (1964-87)	420, Mark X, Vanden Plas, XJ, XJ6, XKE	3		
12 Cylinder				
326 C.I., (5.3L), SOHC, GAS, CARB, FI, Vin 0, 8, V, X (1971-92)	V12, XJ12, XJS, XKE	4		
181 C.I., (3.0L), DOHC, GAS, FI, 24 Valve, Vin A, F, W "Ford Duratec" 2000-08	V6 181 CID	3.0-JAG 1 BORE - 89mm/3.50"		
PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2000-08 2000-08	02245 02246	1.378 Head Diameter 1.185 Head Diameter
Keeper	Both	2000-08	121-1103	1 RD Bead Type
Guide	Both	2000-08	140-3028	0.2175 I.D., 1.455 Length, 0.3774 O.D.
231 C.I., (3.8L), DOHC, GAS, CARB 1959-67	L6 231 CID		JAG-3.8 2 BORE - 87mm/3.43"	
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1959-67	SB1875-53	1 $\frac{7}{8}$ O.D., 1.505T I.D., 0.3800 Depth
258 C.I., (4.2L), DOHC, GAS, CARB, FI, 12 Valve, Vin 2, 3, N 1964-87	L6 258 CID		JAG-4.2 3 BORE - 92mm/3.63"	
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1964-79 1980-87	SB1875-53 SB2000-50	1 $\frac{7}{8}$ O.D., 1.505T I.D., 0.3800 Depth 2.000 O.D., 1.625T I.D., 0.3680 Depth
326 C.I., (5.3L), SOHC, GAS, CARB, FI, Vin 0, 8, V, X 1971-92	V12 326 CID		JAG-5.3 4 BORE - 90mm/3.54"	
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1971-81	SB1500-71	1 $\frac{1}{2}$ O.D., 1.240 I.D., 0.3170 Depth

JOHN DEERE / TRACTOR

Engine	Models	Line No.
2 Cylinder		
100.5 C.I., (1.6L), 100.5 Gas		5
113 C.I., (1.9L), 113 Gas		6
190 C.I., (3.1L)		29
321 C.I., (5.0L)		50
380 C.I., (6.2L), H2		58
3 Cylinder		
91 C.I., (1.5L), 3TNE84 "Yanmar", (3015D), 6 Valve, Diesel		1
91 C.I., (1.5L), 3TNV84/T "Yanmar", 6 Valve, Turbo/Non Turbo Diesel		2
100 C.I., (1.6L), 3TNE88 "Yanmar", 6 Valve, Diesel		3
100 C.I., (1.6L), 3TNV88 "Yanmar", 6 Valve, Diesel		4
135 C.I., (2.2L), 135 Gas		14
152 C.I., (2.5L), 152 Diesel		18

JOHN DEERE / TRACTOR (Cont'd)

Engine	Models	Line No.
3 Cylinder		
164 C.I., (2.7L), 164 Diesel		19
164 C.I., (2.7L), 164 Gas		20
179 C.I., (2.8L), 179D, 3179D Diesel		23
179 C.I., (2.9L), 179T, 3179T Turbo Diesel		24
179 C.I., (2.9L), 3029D Diesel "PowerTech"		25
179 C.I., (2.9L), 3029T/H Turbo Diesel "Power Tech"		26
4 Cylinder		
115 C.I., (1.9L), 115 Gas		7
122 C.I., (2.0L), 4TNE84 "Yanmar", (4020D), 8 Valve, Diesel		8
122 C.I., (2.0L), 4TNE84T "Yanmar", (4020T), 8 Valve, Turbo Diesel		9
122 C.I., (2.0L), 4TNV84 "Yanmar", 8 Valve, Diesel		10
122 C.I., (2.0L), 4TNV84T "Yanmar", 16 Valve, Turbo Diesel		11
134 C.I., (2.2L), 4TNE88 "Yanmar", 8 Valve, Diesel		12
134 C.I., (2.2L), 4TNV88 "Yanmar", 8 Valve, Diesel		13
145 C.I., (2.4L), 145 Gas		15
145 C.I., (2.4L), 145 Diesel, LP Gas		16
147 C.I., (2.4L), 4024, 8 Valve, Diesel, "Power Tech "		17
165 C.I., (2.7L), 165 Gas		21
165 C.I., (2.7L), 165 Diesel		22
180 C.I., (3.0L), 180 Gas		27
201 C.I., (3.3L), 201 Gas		30
202 C.I., (3.3L), 202 Diesel		31
219 C.I., (3.6L), 219 Diesel		34
227 C.I., (3.7L), 227 Gas & LPG		35
239 C.I., (3.9L), 239D, 4239D Diesel		36
239 C.I., (3.9L), 239T, 4239T Turbo Diesel		37
239 C.I., (3.9L), 4039 Diesel "PowerTech"		38
239 C.I., (3.9L), 276T, 4276T Turbo Diesel		39
241 C.I., (3.9L), 241, 4241 Gas & LPG		40
254 C.I., (4.2L), 254 Diesel		41
270 C.I., (4.4L), 270, 4270 Diesel		42
276 C.I., (4.5L), 276D, 4276D Diesel		43
276 C.I., (4.5L), 4045, 8 Valve, Diesel "Power Tech"		44
276 C.I., (4.5L), 4045T/H, 8 Valve, Turbo Diesel "Power Tech"		45
275 C.I., (4.5L), 4045, 16 Valve, Diesel "Tier 2-3 Power Tech Plus"	Tier 2, Tier 3 Engines	46
275 C.I., (4.5L), 4045, 16 Valve, Diesel "Tier 4 Power Tech Plus"	Tier 4 Engines	47
5 Cylinder		
186 C.I., (3.0L) 5030, 10 Valve, Diesel "Power Tech"		28
6 Cylinder		
217 C.I., (3.6L), 217 Gas 12 Valve		32

(Cont'd) JOHN DEERE / TRACTOR

Engine	Models	Line No.
6 Cylinder		
217 C.I., (3.6L), 217 LPG 12 Valve		33
301 C.I., (4.9L), 301 Gas 12 Valve		48
303 C.I., (5.0L), 303 Diesel 12 Valve		49
329 C.I., (5.4L), 329 Diesel 12 Valve		51
340 C.I., (5.6L), 340 Gas & LPG 12 Valve		52
341 C.I., (5.6L), 341 Gas & LPG 12 Valve		53
359 C.I., (5.9L), 6059 12 Valve Diesel "PowerTech"		54
359 C.I., (5.9L), 359D, 6359D Diesel 12 Valve		55
359 C.I., (5.9L), 359T, 6359T Turbo Diesel 12 Valve		56
362 C.I., (5.9L), 362, 6362 Gas & LPG 12 Valve		57
381 C.I., (6.2L), 381 Diesel 12 Valve		59
404 C.I., (6.6L), 404 Diesel 12 Valve		60
404 C.I., (6.6L), 404A I/C T-Diesel, 404T T-Diesel 12 Valve		61
414 C.I., (6.8L), 414D, 6414D Diesel 12 Valve		62
414 C.I., (6.8L), 414T, 6414T Turbo Diesel 12 Valve		63
414 C.I., (6.8L), 6068D, 12 Valve, Diesel "PowerTech"		64
414 C.I., (6.8L), 6068T/H, 12 Valve, Turbo Diesel "PowerTech"		65
414 C.I., (6.8L), 6068, 24 Valve, Diesel "Tier 2-3 Power Tech Plus"	Tier 2, Tier 3 Engines	66
414 C.I., (6.8L), 6068, 24 Valve, Diesel "Tier 4 Power Tech Plus"	Tier 4 Engines	67
466 C.I., (7.6L), 466D, 6466D 12 Valve Diesel		68
466 C.I., (7.6L), 466A, 6466T 12 Valve Intercooled Turbo Diesel		69
466 C.I., (7.6L), 6076A, 6076T 12 Valve Turbo Diesel		70
496 C.I., (8.1L), 6081, 12 Valve, Diesel "PowerTech"		71
531 C.I., (8.7L), 6531D 12 Valve Diesel		72
531 C.I., (8.7L), 6531A 12 Valve Intercooled Turbo Diesel		73
549 C.I., (9.0L), 6090, 24 Valve, Diesel "Power Tech Plus"		74
619 C.I., (10.1L), 6619T 12 Valve Intercooled Turbo Diesel		75
619 C.I., (10.1L), 6101A 12 Valve Turbo Diesel "500 Series"		76
644 C.I., (10.5L), 6105A, 24 Valve, Diesel "PowerTech"		77
766 C.I., (12.5L), 6125A, 24 Valve, Diesel "PowerTech"		78
824 C.I., (13.5L), 6135, 24 Valve, Diesel "Power Tech Plus"		79

91 C.I., (1.5L), 3TNE84 "Yanmar", (3015D), 6 Valve, Diesel	JON-3TNE84	1
L3 91 CID	BORE - 84mm/3.30"	

PART	PART NO.	NOTES
Valve	Int 13415	1.378 Head Diameter,OEM # M801220
	Exh 13416	1.181 Head Diameter,OEM # MIU800494
Keeper	Both 121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int 122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh 122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int 140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh 140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228

JOHN DEERE / TRACTOR (Cont'd)

1 91 C.I., (1.5L), 3TNE84 "Yanmar", (3015D), 6 Valve, Diesel JON-3TNE84
 (cont.) L3 91 CID BORE - 84mm/3.30"

PART	PART NO.		NOTES
Spring	Both	160-1665	1.760 Length,OEM # M801222

2 91 C.I., (1.5L), 3TNV84/T "Yanmar", 6 Valve, Turbo/Non Turbo Diesel JON-3TNV84/T
 L3 91 CID BORE - 84mm/3.30"

PART	PART NO.		NOTES
Valve	Int	13414	1.417 Head Diameter,OEM # MIU800446
	Exh	13416	1.181 Head Diameter,OEM # MIU800494
Keeper	Both	121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both	160-1665	1.760 Length,OEM # M801222

3 100 C.I., (1.6L), 3TNE88 "Yanmar", 6 Valve, Diesel JON-3TNE88
 L3 100 CID BORE - 88mm/3.46"

PART	PART NO.		NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # M801220
	Exh	13416	1.181 Head Diameter,OEM # MIU800494
Keeper	Both	121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both	160-1665	1.760 Length,OEM # M801222

4 100 C.I., (1.6L), 3TNV88 "Yanmar", 6 Valve, Diesel JON-3TNV88
 L3 100 CID BORE - 88mm/3.46"

PART	PART NO.		NOTES
Valve	Int	13413	1.496 Head Diameter,OEM # M811557
	Exh	13416	1.181 Head Diameter,OEM # MIU800494
Keeper	Both	121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both	160-1665	1.760 Length,OEM # M801222

5 100.5 C.I., (1.6L), 100.5 Gas JON100.5
 V2 100.5 CID BORE - 101.5mm/4.00"

PART	PART NO.		NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D., ¹ / ₄ Depth,+30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-1	1 ⁵ / ₈ O.D.,1 ¹ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1858	0.3750 I.D.,3.344 Length,0.6898 O.D.

(Cont'd) JOHN DEERE / TRACTOR**113 C.I., (1.9L), 113 Gas**

L2 113 CID

JON113

6

BORE - 107.9mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth 1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1625-1	
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1859	0.3750 I.D., 2.797 Length, 0.6898 O.D.

115 C.I., (1.9L), 115 Gas

L4 115 CID

JON115

7

BORE - 88.832mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material 1 ⁷ / ₁₆ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3	
Keeper	Both	121-1001	2 RD Bead Type
Guide	Both	140-1860	0.3437 I.D., 2.375 Length, 0.6277 O.D.

122 C.I., (2.0L), 4TNE84 "Yanmar", (4020D), 8 Valve, Diesel

L4 122 CID

JON-4TNE84

8

BORE - 84mm/3.30"

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter, OEM # M801220 1.181 Head Diameter, OEM # MIU800494
	Exh	13416	
Keeper	Both	121-1138	1 SQ Bead Type, OEM # AM878862
Stem Seal	Int	122-1483	Positive Type, Viton Material, Metal Clad Style, OEM # CH10450 Positive Type, Viton Material, Metal Clad Style, OEM # T110650
	Exh	122-1484	
Guide	Int	140-3190	0.3158 I.D., 1.930 Length, 0.5128 O.D., OEM # M801227 0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # M801228
	Exh	140-3191	
Spring	Both	160-1665	1.760 Length, OEM # M801222

122 C.I., (2.0L), 4TNE84T "Yanmar", (4020T), 8 Valve, Turbo Diesel

L4 122 CID

JON-4TNE84T

9

BORE - 84mm/3.30"

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter, OEM # M801220 1.181 Head Diameter, OEM # T110649
	Exh	13416	
Keeper	Both	121-1138	1 SQ Bead Type, OEM # AM878862
Stem Seal	Int	122-1483	Positive Type, Viton Material, Metal Clad Style, OEM # CH10450 Positive Type, Viton Material, Metal Clad Style, OEM # T110650
	Exh	122-1484	
Guide	Int	140-3190	0.3158 I.D., 1.930 Length, 0.5128 O.D., OEM # M801227 0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # M801228
	Exh	140-3191	
Spring	Both	160-1665	1.760 Length, OEM # M801222

122 C.I., (2.0L), 4TNV84 "Yanmar", 8 Valve, Diesel

L4 122 CID

JON-4TNV84

10

BORE - 84mm/3.30"

PART		PART NO.	NOTES
Valve	Int	13414	1.417 Head Diameter, OEM # MIU800446 1.181 Head Diameter, OEM # MIU800494
	Exh	13416	
Keeper	Both	121-1138	1 SQ Bead Type, OEM # AM878862
Stem Seal	Int	122-1483	Positive Type, Viton Material, Metal Clad Style, OEM # CH10450 Positive Type, Viton Material, Metal Clad Style, OEM # T110650
	Exh	122-1484	
Guide	Int	140-3190	0.3158 I.D., 1.930 Length, 0.5128 O.D., OEM # M801227 0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # M801228
	Exh	140-3191	

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10 122 C.I., (2.0L), 4TNV84 "Yanmar", 8 Valve, Diesel JON-4TNV84
 (cont.) L4 122 CID BORE - 84mm/3.30"

PART		PART NO.	NOTES
Spring	Both	160-1665	1.760 Length,OEM # M801222

11 122 C.I., (2.0L), 4TNV84T "Yanmar", 16 Valve, Turbo Diesel JON-4TNV84T-16V
 L4 122 CID BORE - 84mm/3.30"

PART		PART NO.	NOTES
Valve	Int	13407	1.102 Head Diameter,OEM # MIU800391
	Exh	13408	0.965 Head Diameter,OEM # MIU800392
Keeper	Both	121-1136	1 SQ Bead Type,OEM # M811844
Stem Seal	Int	122-1480	Positive Type,Viton Material,Metal Clad Style,OEM # M811850
	Exh	122-1481	Positive Type,Viton Material,Metal Clad Style,OEM # M811851
Guide	Both	140-3188	0.2365 I.D.,1.378 Length,0.3945 O.D.,OEM # M811855
Spring	Both	160-1662	1.462 Length,OEM # MIU800393

12 134 C.I., (2.2L), 4TNE88 "Yanmar", 8 Valve, Diesel JON-4TNE88
 L4 134 CID BORE - 88mm/3.46"

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # M801220
	Exh	13416	1.181 Head Diameter,OEM # MIU800494
Keeper	Both	121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both	160-1665	1.760 Length,OEM # M801222

13 134 C.I., (2.2L), 4TNV88 "Yanmar", 8 Valve, Diesel JON-4TNV88
 L4 134 CID BORE - 88mm/3.46"

PART		PART NO.	NOTES
Valve	Int	13413	1.496 Head Diameter,OEM # M811557
	Exh	13416	1.181 Head Diameter,OEM # MIU800494
Keeper	Both	121-1138	1 SQ Bead Type,OEM # AM878862
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # CH10450
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # T110650
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M801227
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M801228
Spring	Both	160-1665	1.760 Length,OEM # M801222

14 135 C.I., (2.2L), 135 Gas JON135
 L3 135 CID BORE - 98mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,OEM # 70843
	Exh	SB1562-4	1 ¹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ¹ / ₄ Depth,+10 O/S Available,OEM # 70843
Valve	Int	01306	1.772 Head Diameter,OEM # T23477T, T25466
	Exh	01305S	1.457 Head Diameter,Stellite Face,OEM # T25647
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.,Optional, Recommended

(Cont'd) JOHN DEERE / TRACTOR

135 C.I., (2.2L), 135 Gas **JON135 14**
 L3 135 CID **BORE - 98mm/3.80" (cont.)**

PART		PART NO.	NOTES
Guide	Both	140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125

145 C.I., (2.4L), 145 Gas **JON145 15**
 L4 145 CID **BORE - 91.4mm/3.60"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth
Keeper	Both	121-1001	2 RD Bead Type,Exc. Power Unit
Guide	Both	140-1896	0.3440 I.D.,2.859 Length,0.6277 O.D.,From S/N 10720
		140-1899	0.3440 I.D.,2.969 Length,0.6277 O.D.,To S/N 10719

145 C.I., (2.4L), 145 Diesel, LP Gas **JON145D_LP 16**
 L4 145 CID **BORE - 91.4mm/3.60"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹ / ₁₆ O.D.,1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth

147 C.I., (2.4L), 4024, 8 Valve, Diesel, "Power Tech " **4024_8V 17**
 L4 147 CID **BORE - 86.0mm/3.386"**

PART		PART NO.	NOTES
Valve	Int	13373	1.457 Head Diameter,OEM # R502454
	Exh	13374	1.339 Head Diameter,OEM # R502455
Stem Seal	Both	122-1470	Positive Type,Viton Material,Top Hat Style,OEM # RE520980, RE532712
Spring	Both	160-1649	1.810 Length,OEM # R502368, R522728

152 C.I., (2.5L), 152 Diesel **JON152 18**
 L3 152 CID **BORE - 98.044mm/3.80"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 ⁷ / ₈ O.D.,1 ⁵ / ₈ I.D., ⁷ / ₃₂ Depth
	Exh	SB1687-5N	1 ¹ / ₁₆ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth
Valve	Int	01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove Replaces Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Replaces Early Style W/O Seal Groove OEM# R73063, W/ 45 degree Seat Face
Keeper	Both	121-1007	1 SQ Bead Type, ³ / ₈ Stem Dia.
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.,Optional, Recommended
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125

164 C.I., (2.7L), 164 Diesel **JON164D 19**
 L3 164 CID **BORE - 102.108mm/4.00"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064, Exc. 300 Series
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734, Exc. 300 Series
Valve	Int	01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove, Exc. 300 Series RCP

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19 164 C.I., (2.7L), 164 Diesel JON164D
 (cont.) L3 164 CID BORE - 102.108mm/4.00"

PART		PART NO.	NOTES
Valve	Exh	01233	1.575 Head Diameter, OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063, W/ 45 degree Seat Face, Exc. 300 Series RCP
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1069	Positive Type, Viton Material, Ring & Band Style, 5/16 Stem Dia., OEM # RE31617
Guide	Both	140-7248 140-9115	0.3750 I.D., 2.750 Length, 0.5640 O.D., 3/8 Stem Only 0.3750 I.D., 2.750 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length, OEM # R26125, Exc. 300 Series

20 164 C.I., (2.7L), 164 Gas JON164G
 L3 164 CID BORE - 102.108mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 13/16 O.D., 1 1/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, OEM # 70843
	Exh	SB1562-4		1 1/16 O.D., 1 5/16 I.D., 1/4 Depth, +10 O/S Available, OEM # 70843
Valve	Int	01306	1.772 Head Diameter
	Exh	01305S	1.457 Head Diameter, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1015	Positive Type, Tef/Rub Material, 1-Ring Style, Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type, Poly Material, O-Ring Style, OEM # R87627
Guide	Both	140-7248	0.3750 I.D., 2.750 Length, 0.5640 O.D.
		140-9115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Spiral I.D. Conversion Guide

21 165 C.I., (2.7L), 165 Gas JON165
 L4 165 CID BORE - 98.4mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 11/16 O.D., 1 7/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N		1 7/16 O.D., 1 3/16 I.D., 7/32 Depth

22 165 C.I., (2.7L), 165 Diesel JON165D
 L4 165 CID BORE - 98.4mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 11/16 O.D., 1 7/16 I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N		1 7/16 O.D., 1 3/16 I.D., 7/32 Depth
Keeper	Both	121-1001	2 RD Bead Type
Guide	Both	140-1860	0.3437 I.D., 2.375 Length, 0.6277 O.D.

23 179 C.I., (2.8L), 179D, 3179D Diesel 3179D
 L3 179 CID BORE - 106.426mm/4.19"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D., 1.608 I.D., 0.2090 Depth, OEM # R73064
	Exh	SB1638E-1N		1.638 O.D., 1.412 I.D., 0.2180 Depth, OEM # R51734
Valve	Int	01234	1.772 Head Diameter, OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter, OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type, 3/8 Stem Dia.

(Cont'd) JOHN DEERE / TRACTOR

179 C.I., (2.8L), 179D, 3179D Diesel **3179D 23**
 L3 179 CID BORE - 106.426mm/4.19" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125

179 C.I., (2.9L), 179T, 3179T Turbo Diesel **3179T 24**
 L3 179 CID BORE - 106.426mm/4.19"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type, ³ / ₈ Stem Dia.
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125

179 C.I., (2.9L), 3029D Diesel "PowerTech" **3029D 25**
 L3 179 CID BORE - 106.5mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D.,1.550T I.D.,0.2570 Depth,+10 & +20 O/S Available,OEM # R98063, R106831, 30 Deg. Seat
	Exh	SB1695E-1	1.695 O.D.,1.348T I.D.,0.2430 Depth,+10 & +20 O/S Available,OEM # R85687, R106829, 30 Degree Seat
Valve	Int	01589	1.835 Head Diameter,OEM # R98062
	Exh	01588	1.673 Head Diameter,OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type,OEM # R91889
Stem Seal	Both	122-1069	Positive Type,Viton Material, Ring & Band Style,OEM # RE31617
Guide	Int	140-8674	0.3120 I.D.,2.209 Length,0.5020 O.D.
	Exh	140-8673	0.3120 I.D.,2.390 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Both	161-1042	OEM # RE60005
Injector Tubes and Components		240-1040RB	O-Ring, Bottom; Light Green
		240-1054	injector Tube,NOTE: Services Injector Sleeve In OEM Kit # RE527456: Requires (1) 240-1040RB O-Ring Sold Separately

179 C.I., (2.9L), 3029T/H Turbo Diesel "Power Tech" **3029T 26**
 L3 179 CID BORE - 106.5mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D.,1.550T I.D.,0.2570 Depth,+10 & +20 O/S Available,OEM # R98063, R106831, 30 Deg. Seat
	Exh	SB1695E-1	1.695 O.D.,1.348T I.D.,0.2430 Depth,+10 & +20 O/S Available,OEM # R85687, R106829, 30 Degree Seat
Valve	Int	01589	1.835 Head Diameter,OEM # R98062
	Exh	01588	1.673 Head Diameter,OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type,OEM # R91889
Stem Seal	Both	122-1069	Positive Type,Viton Material, Ring & Band Style,OEM # RE31617
Guide	Int	140-8674	0.3120 I.D.,2.209 Length,0.5020 O.D.
	Exh	140-8673	0.3120 I.D.,2.390 Length,0.5020 O.D.

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26 179 C.I., (2.9L), 3029T/H Turbo Diesel "Power Tech" 3029T
 (cont.) L3 179 CID BORE - 106.5mm/4.20"

PART		PART NO.	NOTES
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Both	161-1042	OEM # RE60005
Injector Tubes and Components		240-1040RB	O-Ring, Bottom; Light Green
		240-1054	injector Tube,NOTE: Services Injector Sleeve In OEM Kit # RE527456: Requires (1) 240-1040RB O-Ring Sold Separately

27 180 C.I., (3.0L), 180 Gas JON180
 L4 180 CID BORE - 98mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 ¹³ / ₁₆ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1562-4	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ¹ / ₄ Depth,+10 O/S Available
Valve	Int	01306	1.772 Head Diameter,OEM # T23477T, T25466
	Exh	01305S	1.457 Head Diameter,Stellite Face,OEM # T25467
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal		122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide		140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.,Optional, Recommended
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125

28 186 C.I., (3.0L) 5030, 10 Valve, Diesel "Power Tech" 5030_10V
 L5 186 CID BORE - 86.0mm/3.386"

PART		PART NO.	NOTES
Valve	Int	13373	1.457 Head Diameter,OEM # R502454
	Exh	13374	1.339 Head Diameter,OEM # R502455
Stem Seal	Both	122-1470	Positive Type,Viton Material,Top Hat Style,OEM # RE520980, RE532712
Spring	Both	160-1649	1.810 Length,OEM # R502368, R522728

29 190 C.I., (3.1L) JON190B
 H2 190 CID BORE - 119.05mm/4.687"

PART		PART NO.	NOTES
Guide	Both	140-1600	0.4390 I.D.,3.875 Length,0.8780 O.D.

30 201 C.I., (3.3L), 201 Gas JON201
 L4 201 CID BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.688 Valve Head Dia.
	Exh	SB1562-1N	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth
Valve	Int	00659	1.688 Head Diameter,OEM # R26109R
	Exh	00658	1.500 Head Diameter,OEM # R26108R
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal		122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-1897	0.3745 I.D.,2.938 Length,0.6255 O.D.,OEM # R28653R

(Cont'd) JOHN DEERE / TRACTOR**202 C.I., (3.3L), 202 Diesel**

L4 202 CID

JON202 **31**

BORE - 98mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1562-4	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ¹ / ₄ Depth, +10 O/S Available
Valve	Int	01306	1.772 Head Diameter, OEM # T23477T, T25466
	Exh	01305S	1.457 Head Diameter, Stellite Face, OEM # T25467
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1015	Positive Type, Tef/Rub Material, 1-Ring Style, Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type, Poly Material, O-Ring Style, OEM # R87627
Guide	Both	140-7248	0.3750 I.D., 2.750 Length, 0.5640 O.D., Optional, Recommended
		140-9115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length, OEM # R26125

217 C.I., (3.6L), 217 Gas 12 Valve

L6 217 CID

JON217 **32**

BORE - 91.4mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth

217 C.I., (3.6L), 217 LPG 12 Valve

L6 217 CID

JON217LP **33**

BORE - 91.4mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth

219 C.I., (3.6L), 219 Diesel

L4 219 CID

JON219 **34**

BORE - 102.108mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D., 1.608 I.D., 0.2090 Depth, OEM # R73064, Exc. 300 Series
	Exh	SB1638E-1N	1.638 O.D., 1.412 I.D., 0.2180 Depth, OEM # R51734, Exc. 300 Series
Valve	Int	01234	1.772 Head Diameter, OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove, Exc. 300 Series RCP
	Exh	01233	1.575 Head Diameter, OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063, W/ 45 degree Seat Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D., 2.750 Length, 0.5640 O.D., ³ / ₈ Stem Only
		140-9115	0.3750 I.D., 2.750 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length, OEM # R26125, Exc. 300 Series RCP

227 C.I., (3.7L), 227 Gas & LPG

L4 227 CID

JON227 **35**

BORE - 107.95mm/4.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.688 Valve Head Dia.
	Exh	SB1562-1N	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth
Valve	Int	00659	1.688 Head Diameter, OEM # R26109R
	Exh	00658	1.500 Head Diameter, OEM # R26108R
Keeper	Both	121-1000	2 RD Bead Type

JOHN DEERE / TRACTOR (Cont'd)

35 227 C.I., (3.7L), 227 Gas & LPG
(cont.) L4 227 CID

JON227
BORE - 107.95mm/4.25"

PART		PART NO.	NOTES
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-1897	0.3745 I.D.,2.938 Length,0.6255 O.D.,OEM # R28653R

36 239 C.I., (3.9L), 239D, 4239D Diesel
L4 239 CID

4239D
BORE - 106.426mm/4.19"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125

37 239 C.I., (3.9L), 239T, 4239T Turbo Diesel
L4 239 CID

4239T
BORE - 106.426mm/4.19"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01471S	1.821 Head Diameter,Stellite Face,OEM #'s R51735, R72611, R83071, R89219, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125

38 239 C.I., (3.9L), 4039 Diesel "PowerTech"
L4 239 CID

300_39
BORE - 106.5mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D.,1.550T I.D.,0.2570 Depth,+10 & +20 O/S Available,30 Degree Seat Angle, OEM # R98063
	Exh	SB1695E-1	1.695 O.D.,1.348T I.D.,0.2430 Depth,+10 & +20 O/S Available,30 Degree Seat, OEM # R85687
Valve	Int	01589	1.835 Head Diameter,OEM # R98062
	Exh	01588	1.673 Head Diameter,OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type
Stem Seal	Both	122-1069	Positive Type,Viton Material, Ring & Band Style,OEM # RE31617
Guide	Int	140-8674	0.3120 I.D.,2.209 Length,0.5020 O.D.
	Exh	140-8673	0.3120 I.D.,2.390 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Both	161-1042	OEM # RE60005

(Cont'd) JOHN DEERE / TRACTOR**239 C.I., (3.9L), 276T, 4276T Turbo Diesel****4276T 39**

L4 239 CID

BORE - 106.426mm/4.19"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
		01471S	1.821 Head Diameter,Stellite Face,OEM #'s R51735, R72611, R83071, R89219, Late Style W/ Seal Groove, Replaces Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125R
Rotator	Exh	161-1040	OEM # RE11410

241 C.I., (3.9L), 241, 4241 Gas & LPG**JON4241 40**

L4 241 CID

BORE - 107.95mm/4.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.688 Valve Head Dia.
	Exh	SB1562-1N	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	01402	1.688 Head Diameter,2 Groove,OEM # R41414
	Exh	01376S	1.500 Head Diameter,Stellite Face, 1 Groove,OEM # R41413
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-1898	0.3750 I.D.,3.313 Length,0.6255 O.D.,OEM # R28654R; For Castings W/ Factory Installed Guides; 140-1898+2 May Be Used W/ $\frac{5}{8}$ Reamer
Spring	Both	160-1205	2.173 Length,R26125

254 C.I., (4.2L), 254 Diesel**JON254D 41**

L4 254 CID

BORE - 104.7mm/4.122"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 $\frac{13}{16}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1625-1N	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{7}{32}$ Depth
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1898	0.3750 I.D.,3.313 Length,0.6255 O.D.,OEM # R28654R; For Castings W/ Factory Installed Guides; 140-1898+2 May Be Used W/ $\frac{5}{8}$ Reamer
Spring	Both	160-1205	2.173 Length,OEM # R26125

270 C.I., (4.4L), 270, 4270 Diesel**JON4270 42**

L4 270 CID

BORE - 107.95mm/4.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-1	1 $\frac{15}{16}$ O.D.,1 $\frac{11}{16}$ I.D., $\frac{1}{4}$ Depth
	Exh	SB1750-1N	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{1}{4}$ Depth
Valve	Int	01289	1.902 Head Diameter,2 Groove,OEM # R32034 & R44174, 6.245 Overall Length
		01336S	1.902 Head Diameter,Stellite Face,OEM # R41410 & R43883, 6.148 Overall Length, 1 Groove & 1 Seal Groove
	Exh	01288	1.715 Head Diameter,2 Groove,OEM # R32035 & R44175, 6.227 Overall Length
		01375	1.715 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # R41411 & R43679, 6.133 Overall Length, Single Groove

JOHN DEERE / TRACTOR (Cont'd)

42 270 C.I., (4.4L), 270, 4270 Diesel JON4270
 (cont.) L4 270 CID BORE - 107.95mm/4.25"

PART		PART NO.	NOTES
Valve	Exh	21375	1.715 Head Diameter,Alternative Austenitic Material,6.133 Overall Length, Single Groove
Keeper	Both	121-1000 121-1007	2 RD Bead Type,W/ .3717 Stem Dia. 1 SQ Bead Type,Use W/ 01336S & 01375, 3/8 Stem Dia.
Guide	Both	140-1898	0.3750 I.D.,3.313 Length,0.6255 O.D.,OEM # R28654R, For Castings W/ Factory Installed Guides; 140-1898+2 May Be Used W/ 5/8 Reamer
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410, Use W/ 1 Groove Valve

43 276 C.I., (4.5L), 276D, 4276D Diesel 4276D
 L4 276 CID BORE - 106.426mm/4.19"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1858E-1N SB1638E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064 1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01234 01471S	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove 1.821 Head Diameter,Stellite Face,OEM #'s R51735, R72611, R83071, R89219, Late Style W/ Seal Groove, Replaces Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248 140-9115	0.3750 I.D.,2.750 Length,0.5640 O.D. 0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410

44 276 C.I., (4.5L), 4045, 8 Valve, Diesel "Power Tech" 4045D
 L4 276 CID BORE - 106.5mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1856E-1 SB1695E-1	1.857 O.D.,1.550T I.D.,0.2570 Depth,+10 & +20 O/S Available,OEM # R98063, 30 Degree Seat 1.695 O.D.,1.348T I.D.,0.2430 Depth,+10 & +20 O/S Available,OEM # R85687, 30 Degree Seat
Valve	Int Exh	01589 01588	1.835 Head Diameter,OEM # R98062 1.673 Head Diameter,OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type,OEM # R91889
Stem Seal	Both	122-1069	Positive Type,Viton Material, Ring & Band Style,OEM # RE31617
Guide	Int Exh	140-8674 140-8673	0.3120 I.D.,2.209 Length,0.5020 O.D. 0.3120 I.D.,2.390 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Both	161-1042	OEM # RE60005
Injector Tubes and Components		240-1040RB 240-1054	O-Ring, Bottom; Light Green injector Tube,NOTE: Services Injector Sleeve In OEM Kit # RE527456: Requires (1) 240-1040RB O-Ring Sold Separately

(Cont'd) **JOHN DEERE / TRACTOR**

276 C.I., (4.5L), 4045T/H, 8 Valve, Turbo Diesel "Power Tech"

4045T/H 45

L4 276 CID

BORE - 106.5mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D.,1.550T I.D.,0.2570 Depth,+10 & +20 O/S Available,OEM # R98063, 30 Degree Seat
	Exh	SB1695E-1	1.695 O.D.,1.348T I.D.,0.2430 Depth,+10 & +20 O/S Available,OEM # R85687, 30 Degree Seat
Valve	Int	01589	1.835 Head Diameter,OEM # R98062
	Exh	01588	1.673 Head Diameter,OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type,OEM # R91889
Stem Seal	Both	122-1069	Positive Type,Viton Material, Ring & Band Style,OEM # RE31617
Guide	Int	140-8674	0.3120 I.D.,2.209 Length,0.5020 O.D.
	Exh	140-8673	0.3120 I.D.,2.390 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Both	161-1042	OEM # RE60005
Injector Tubes and Components		240-1040RB	O-Ring, Bottom; Light Green
		240-1054	injector Tube,NOTE: Services Injector Sleeve In OEM Kit # RE527456: Requires (1) 240-1040RB O-Ring Sold Separately

275 C.I., (4.5L), 4045, 16 Valve, Diesel "Tier 2-3 Power Tech Plus"

4045_16V-T3 46

L4 275 CID

BORE - 106.0mm/4.17"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1476E-2	1.476 O.D.,1.200T I.D.,0.2445 Depth,OEM # R504969, R515034, RE518082
	Exh	SB1437E-2	1.437 O.D.,1.125T I.D.,0.2365 Depth,OEM # R504968, R515033, RE518083
Valve	Int	13246	1.457 Head Diameter,OEM # R502369, RE518080, R518806, R536135; NOTE: With Letter "O" In Head; Services Valve Included in Kit # RE531221 & RE557890
	Exh	13417	1.417 Head Diameter,Inconel,OEM # R502370, RE518081, R527845, R536136, NOTE: With Letter "V" In Head, Services Valve In Kit # RE557891
Stem Seal	Both	122-1432	Positive Type,Viton Material,Metal Clad Style,OEM # RE526519; NOTE: For Use With Integral Guide Castings
		122-1485	Positive Type,Viton Material, Ring & Band Style,OEM # RE519115; NOTE: Green, For Use With integral Guide Castings
Guide	Both	140-3141	0.2777 I.D.,2.347 Length,0.5020 O.D.,NOTE: For Use With Integral Guide Castings
Spring	Both	160-1602	1.908 Length,Conical,OEM # R518872; NOTE: Part Of Kit # RE531223, With 0.135 Wire Dia., Services Spring With White Stripe
		160-1667	1.975 Length,OEM # R503906, RE516486; NOTE: With 0.120 Wire Dia., Services Spring With Light Green Stripe
Injector Tubes and Components		240-1040	Injector Tube,OEM # RE517435, RE543935
		240-1040RB	O-Ring, Bottom; Light Green,OEM # RE530609
		240-1040RT	O-Ring, Top; Dark Green,OEM # RE528349

275 C.I., (4.5L), 4045, 16 Valve, Diesel "Tier 4 Power Tech Plus"

4045_16V-T4 47

L4 275 CID

BORE - 106.0mm/4.17"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1476E-2	1.476 O.D.,1.200T I.D.,0.2445 Depth,OEM # R504969, R515034, RE518082
	Exh	SB1437E-2	1.437 O.D.,1.125T I.D.,0.2365 Depth,OEM # R504968, R515033, RE518083

JOHN DEERE / TRACTOR (Cont'd)

47 275 C.I., (4.5L), 4045, 16 Valve, Diesel "Tier 4 Power Tech Plus"
(cont.) L4 275 CID

4045_16V-T4
BORE - 106.0mm/4.17"

PART		PART NO.	NOTES
Stem Seal	Int	122-1488	Positive Type,Viton Material,Top Hat Style,OEM # RE536919; NOTE: Light Green; For Castings With Removable Guides
	Exh	122-1489	Positive Type,Viton Material,Top Hat Style,OEM # RE541360; NOTE: Dark Gray; For Castings With Removable Guides
Guide	Both	140-3196	0.2775 I.D.,2.345 Length,0.4725 O.D.,OEM # R529030, R537044; NOTE: W/ Seal Groove, Use With Top Hat Seals
		140-3197	0.2775 I.D.,2.345 Length,0.4725 O.D.,OEM # R545673; NOTE: W/O Seal Groove, Use With Top Hat Seals
Spring	Both	160-1674	1.998 Length,OEM # R528300; NOTE: With 0.135 Wire Dia., Services Spring W/ Pink Stripes
		160-1675	1.988 Length,OEM # R534236; NOTE: With 0.142 Wire Dia., Services Spring W/ No Stripe
Injector Tubes and Components		240-1040	Injector Tube,OEM # RE517435, RE543935
		240-1040RB	O-Ring, Bottom; Light Green,OEM # RE530609
		240-1040RT	O-Ring, Top; Dark Green,OEM # RE528349

48 301 C.I., (4.9L), 301 Gas 12 Valve
L6 301 CID

JON301
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.688 Valve Head Dia.
	Exh	SB1562-1N	1 $\frac{1}{16}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00659	1.688 Head Diameter,OEM # R26109R
	Exh	00658	1.500 Head Diameter,OEM # R26108R
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-1897	0.3745 I.D.,2.938 Length,0.6255 O.D.,OEM # R28653R

49 303 C.I., (5.0L), 303 Diesel 12 Valve
L6 303 CID

JON303
BORE - 98.044mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-6	1 $\frac{7}{8}$ O.D.,1 $\frac{5}{8}$ I.D., $\frac{7}{32}$ Depth
	Exh	SB1687-5N	1 $\frac{11}{16}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063, W/ 45 degree Seat Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-1857	0.5015 I.D.,3.875 Length,0.7525 O.D.,OEM # A5707R, Fits W/ 5.50" Bore Only
		140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.,Optional, Recommended
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125

50 321 C.I., (5.0L)

H2 321 CID

JON321
BORE - 139.7mm/5.50"

PART		PART NO.	NOTES
Guide	Both	140-1644	0.5010 I.D.,4.750 Length,0.8785 O.D.

(Cont'd) JOHN DEERE / TRACTOR**329 C.I., (5.4L), 329 Diesel 12 Valve**
L6 329 CIDJON329 **51**
BORE - 102.108mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734, Exc. 300 Series
Valve	Int	01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove, W/ 45 degree Seat Face, Exc. 300 Series RCP
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063, W/ 45 degree Seat Face
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125, Exc. 300 Series

340 C.I., (5.6L), 340 Gas & LPG 12 Valve
L6 340 CIDJON340 **52**
BORE - 107.95mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.688 Valve Head Dia.
	Exh	SB1562-1N	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00659	1.688 Head Diameter,OEM # R26109R
	Exh	00658	1.500 Head Diameter,OEM # R26108R
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-1897	0.3745 I.D.,2.938 Length,0.6255 O.D.,OEM # R28653R

341 C.I., (5.6L), 341 Gas & LPG 12 Valve
L6 341 CIDJON341 **53**
BORE - 107.95mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 $\frac{3}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.688 Valve Head Dia.
	Exh	SB1562-1N	1 $\frac{9}{16}$ O.D.,1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	00659	1.688 Head Diameter,OEM # R26109R
	Exh	00658	1.500 Head Diameter,OEM # R26108R
Keeper	Both	121-1000	2 RD Bead Type
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-1897	0.3745 I.D.,2.938 Length,0.6255 O.D.,OEM # R28653R

359 C.I., (5.9L), 6059 12 Valve Diesel "PowerTech"
L6 359 CID600_59 **54**
BORE - 106.5mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D.,1.550T I.D.,0.2570 Depth,+10 & +20 O/S Available,30 Deg. Seat Angle, OEM # R98063
	Exh	SB1695E-1	1.695 O.D.,1.348T I.D.,0.2430 Depth,+10 & +20 O/S Available,30 Degree Seat, OEM # R85687
Valve	Int	01589	1.835 Head Diameter,OEM # R98062
	Exh	01588	1.673 Head Diameter,OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type

JOHN DEERE / TRACTOR (Cont'd)

54 359 C.I., (5.9L), 6059 12 Valve Diesel "PowerTech"

600_59

(cont.) L6 359 CID

BORE - 106.5mm/4.20"

PART		PART NO.	NOTES
Stem Seal	Both	122-1069	Positive Type,Viton Material,Ring & Band Style,OEM # RE31617
Guide	Int	140-8674	0.3120 I.D.,2.209 Length,0.5020 O.D.
	Exh	140-8673	0.3120 I.D.,2.390 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Both	161-1042	OEM # RE60005

55 359 C.I., (5.9L), 359D, 6359D Diesel 12 Valve

6359D

L6 359 CID

BORE - 106.426mm/4.19"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01234	1.772 Head Diameter,OEM # R79623, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410

56 359 C.I., (5.9L), 359T, 6359T Turbo Diesel 12 Valve

6359T

L6 359 CID

BORE - 106.426mm/4.19"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01471S	1.821 Head Diameter,Stellite Face,OEM #'s R51735, R72611, R83071, R89219, Late Style W/ Seal Groove , Will Replace Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-9115	0.3750 I.D.,2.750 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410

57 362 C.I., (5.9L), 362, 6362 Gas & LPG 12 Valve

JON6362

L6 362 CID

BORE - 107.95mm/4.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 $\frac{1}{4}$ O.D.,1 $\frac{1}{2}$ I.D., $\frac{7}{32}$ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.688 Valve Head Dia.
	Exh	SB1562-1N	1 $\frac{1}{16}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth
Valve	Int	01402	1.688 Head Diameter,2 Groove,OEM # R41414
	Exh	01376S	1.500 Head Diameter,Stellite Face, 1 Groove,OEM # R41413
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-1898	0.3750 I.D.,3.313 Length,0.6255 O.D.,For Castings W/ Factory Installed Guides; OEM # R-28654-R; 140-1898+2 May Be Used W/ $\frac{5}{8}$ Reamer

(Cont'd) JOHN DEERE / TRACTOR**380 C.I., (6.2L), H2**

H2 380 CID

JON380 **58**

BORE - 149.2mm/5.875"

PART		PART NO.	NOTES
Guide	Both	140-1932	0.5640 I.D., 5.375 Length, 1.0030 O.D.

381 C.I., (6.2L), 381 Diesel 12 Valve

L6 381 CID

JON381D **59**

BORE - 104.7mm/4.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-4	1 ¹³ / ₁₆ O.D., 1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1625-1N	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., ⁷ / ₃₂ Depth
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1898	0.3750 I.D., 3.313 Length, 0.6255 O.D., For Castings W/ Factory Installed Guides; OEM # R-28654-R; 140-1898+2 May Be Used W/ ⁵ / ₈ Reamer
Spring	Both	160-1205	2.173 Length, OEM # R26125

404 C.I., (6.6L), 404 Diesel 12 Valve

L6 404 CID

JON404 **60**

BORE - 107.95mm/4.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-1	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ¹ / ₄ Depth
	Exh	SB1750-1N	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ¹ / ₄ Depth
Valve	Int	01289	1.902 Head Diameter, 2 Groove, OEM # R32034 & R44174, 6.245 Overall Length
		01336S	1.902 Head Diameter, Stellite Face, OEM # R41410 & R43883, 6.148 Overall Length, 1 Groove & 1 Seal Groove
	Exh	01288	1.715 Head Diameter, 2 Groove, OEM # R32035 & R44175, 6.227 Overall Length
		01375	1.715 Head Diameter, Recommended OEM Nickel Base Inconel Material, OEM # R41411 & R43679, 6.133 Overall Length, Single Groove
		21375	1.715 Head Diameter, Alternative Austenitic Material, 6.133 Overall Length, Single Groove
Keeper	Both	121-1000	2 RD Bead Type, Use W/ 01288 & 01289, ³ / ₈ Stem Dia.
		121-1007	1 SQ Bead Type, Use W/ 01336S & 01375, ³ / ₈ Stem Dia.
Stem Seal	Both	122-1015	Positive Type, Tef/Rub Material, 1-Ring Style, Opt., Machine Guide To .562 O.D.
		122-1023	O-Ring Type, Poly Material, O-Ring Style, OEM # R87627
Guide	Both	140-1898	0.3750 I.D., 3.313 Length, 0.6255 O.D., OEM # R28654R, For Castings W/ Factory Installed Guides; 140-1898+2 May Be Used W/ ⁵ / ₈ Reamer
Spring	Both	160-1205	2.173 Length, OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410, Use W/ 1 Groove Valve

404 C.I., (6.6L), 404A I/C T-Diesel, 404T T-Diesel 12 Valve

L6 404 CID

JON404AT **61**

BORE - 107.95mm/4.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-2	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1750-2N	1 ³ / ₄ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
Valve	Int	01403	1.715 Head Diameter, 2 Groove, OEM # R50358, 6.192 Overall Length
		01404	1.750 Head Diameter, 2 Groove, OEM # R43914, 6.128 Overall Length
	Exh	01377	1.715 Head Diameter, Recommended OEM Nickel Base Inconel Material, OEM # R50357, 6.208 Overall Length, Single Groove
		21377	1.715 Head Diameter, Alternative Austenitic Material, 6.208 Overall Length, Single Groove
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1017	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.594 O.D.

JOHN DEERE / TRACTOR (Cont'd)

61 404 C.I., (6.6L), 404A I/C T-Diesel, 404T T-Diesel 12 Valve

JON404AT

(cont.) L6 404 CID

BORE - 107.95mm/4.25"

PART		PART NO.	NOTES
Guide	Both	140-1898	0.3750 I.D.,3.313 Length,0.6255 O.D.,OEM # R28654R, For Castings W/ Factory Installed Guides; 140-1898+2 May Be Used W/ % Reamer
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410, Use W/ 1 Groove Valve

62 414 C.I., (6.8L), 414D, 6414D Diesel 12 Valve

6414D

L6 414 CID

BORE - 106.426mm/4.19"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01471S	1.821 Head Diameter,Stellite Face,OEM #'s R51735, R72611, R83071, R89219
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-7448	0.3745 I.D.,3.000 Length,0.5640 O.D.,Plain I.D. Conversion Guide,Optional
		140-9458	0.3740 I.D.,3.060 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Exh	161-1040	OEM # RE11410, Use W/ 1 Groove Valve

63 414 C.I., (6.8L), 414T, 6414T Turbo Diesel 12 Valve

6414T

L6 414 CID

BORE - 106.426mm/4.19"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1858E-1N	1.858 O.D.,1.608 I.D.,0.2090 Depth,OEM # R73064
	Exh	SB1638E-1N	1.638 O.D.,1.412 I.D.,0.2180 Depth,OEM # R51734
Valve	Int	01471S	1.821 Head Diameter,Stellite Face,OEM #'s R51735, R72611, R83071, R89219, Late Style W/ Seal Groove, Replaces Early Style W/O Seal Groove
	Exh	01233	1.575 Head Diameter,OEM # R79624, Late Style W/ Seal Groove, Will Replace Early Style W/O Seal Groove OEM # R73063
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-7448	0.3745 I.D.,3.000 Length,0.5640 O.D.,Plain I.D. Conversion Guide,Optional
		140-9458	0.3740 I.D.,3.060 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125R
Rotator	Exh	161-1040	OEM # RE11410

64 414 C.I., (6.8L), 6068D, 12 Valve, Diesel "PowerTech"

6068D

L6 414 CID

BORE - 106.5mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D.,1.550T I.D.,0.2570 Depth,+10 & +20 O/S Available,OEM # R98063, 30 Deg. Seat
	Exh	SB1695E-1	1.695 O.D.,1.348T I.D.,0.2430 Depth,+10 & +20 O/S Available,OEM # R85687, 30 Degree Seat
Valve	Int	01589	1.835 Head Diameter,OEM # R98062
	Exh	01588	1.673 Head Diameter,OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type,OEM # R91889
Stem Seal	Both	122-1069	Positive Type,Viton Material, Ring & Band Style,OEM # RE31617
Guide	Int	140-8674	0.3120 I.D.,2.209 Length,0.5020 O.D.

(Cont'd) JOHN DEERE / TRACTOR**414 C.I., (6.8L), 6068D, 12 Valve, Diesel "PowerTech"**
L6 414 CID**6068D 64**
BORE - 106.5mm/4.20" (cont.)

PART		PART NO.	NOTES
Guide	Exh	140-8673	0.3120 I.D.,2.390 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Both	161-1042	OEM # RE60005
Injector Tubes and Components		240-1054	injector Tube,NOTE: Services Injector Sleeve In OEM Kit # RE527456: Requires (1) 240-1040RB O-Ring Sold Separately

414 C.I., (6.8L), 6068T/H, 12 Valve, Turbo Diesel "PowerTech"
L6 414 CID**6068T/H 65**
BORE - 106.5mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1856E-1	1.857 O.D.,1.550T I.D.,0.2570 Depth,+10 & +20 O/S Available,OEM # R98063, 30 Degree Seat
	Exh	SB1695E-1	1.695 O.D.,1.348T I.D.,0.2430 Depth,+10 & +20 O/S Available,OEM # R85687, 30 Degree Seat
Valve	Int	01589	1.835 Head Diameter,OEM # R98062
	Exh	01588	1.673 Head Diameter,OEM # R90692
Keeper	Both	121-1078	1 RD Bead Type,OEM # R91889
Stem Seal	Both	122-1069	Positive Type,Viton Material,Ring & Band Style,OEM # RE31617
Guide	Int	140-8674	0.3120 I.D.,2.209 Length,0.5020 O.D.
	Exh	140-8673	0.3120 I.D.,2.390 Length,0.5020 O.D.
Spring	Both	160-1205	2.173 Length,OEM # R26125
Rotator	Both	161-1042	OEM # RE60005
Injector Tubes and Components		240-1040RB	O-Ring, Bottom; Light Green
		240-1040RB	O-Ring, Bottom; Light Green
		240-1054	injector Tube,NOTE: Services Injector Sleeve In OEM Kit # RE527456: Requires (1) 240-1040RB O-Ring Sold Separately

414 C.I., (6.8L), 6068, 24 Valve, Diesel "Tier 2-3 Power Tech Plus"
L6 414 CID**6068_24V-T3 66**
BORE - 106.0mm/4.17"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1476E-2	1.476 O.D.,1.200T I.D.,0.2445 Depth,OEM # R504969, R515034, RE518082
	Exh	SB1437E-2	1.437 O.D.,1.125T I.D.,0.2365 Depth,OEM # R504968, R515033, RE518083
Valve	Int	13246	1.457 Head Diameter,OEM # R502369, RE518080, R518806, R536135; NOTE: With Letter "O" In Head; Services Valve Included in Kit # RE531221 & RE557890
	Exh	13417	1.417 Head Diameter,Inconel,OEM # R502370, RE518081, R527845, R536136, NOTE: With Letter "V" In Head, Services Valve In Kit # RE557891
Stem Seal	Both	122-1432	Positive Type,Viton Material,Metal Clad Style,OEM # RE526519; NOTE: For Use With Integral Guide Castings
		122-1485	Positive Type,Viton Material,Ring & Band Style,OEM # RE519115; NOTE: Green, For Use With Integral Guide Castings
Guide	Both	140-3141	0.2777 I.D.,2.347 Length,0.5020 O.D.,NOTE: For Use With Integral Guide Castings
Spring	Both	160-1602	1.908 Length,Conical,OEM # R518872; NOTE: Part Of Kit # RE531223, With 0.135 Wire Dia., Services Spring With White Stripe
		160-1667	1.975 Length,OEM # R503906, RE516486; NOTE: With 0.120 Wire Dia., Services Spring With Light Green Stripe
Injector Tubes and Components		240-1040	Injector Tube,OEM # RE517435, RE543935

JOHN DEERE / TRACTOR (Cont'd)

66 414 C.I., (6.8L), 6068, 24 Valve, Diesel "Tier 2-3 Power Tech Plus" 6068_24V-T3
 (cont.) L6 414 CID BORE - 106.0mm/4.17"

PART	PART NO.	NOTES
Injector Tubes and Components	240-1040RB	O-Ring, Bottom; Light Green,OEM # RE530609
	240-1040RT	O-Ring, Top; Dark Green,OEM # RE528349

67 414 C.I., (6.8L), 6068, 24 Valve, Diesel "Tier 4 Power Tech Plus" 6068_24V-T4
 L6 414 CID BORE - 106.0mm/4.17"

PART	PART NO.	NOTES
Stem Seal	Int 122-1488	Positive Type,Viton Material,Top Hat Style,OEM # RE536919; NOTE: Light Green; For Castings With Removable Guides
	Exh 122-1489	Positive Type,Viton Material,Top Hat Style,OEM # RE541360; NOTE: Dark Gray; For Castings With Removable Guides
Guide	Both 140-3196	0.2775 I.D.,2.345 Length,0.4725 O.D.,OEM # R529030, R537044; NOTE: W/ Seal Groove, Use With Top Hat Seals
	140-3197	0.2775 I.D.,2.345 Length,0.4725 O.D.,OEM # R545673; NOTE: W/O Seal Groove, Use With Top Hat Seals
Spring	Both 160-1674	1.998 Length,OEM # R528300; NOTE: With 0.135 Wire Dia., Services Spring W/ Pink Stripes
	160-1675	1.988 Length,OEM # R534236; NOTE: With 0.142 Wire Dia., Services Spring W/ No Stripe
Injector Tubes and Components	240-1040	Injector Tube,OEM # RE517435, RE543935
	240-1040RB	O-Ring, Bottom; Light Green,OEM # RE530609
	240-1040RT	O-Ring, Top; Dark Green,OEM # RE528349

68 466 C.I., (7.6L), 466D, 6466D 12 Valve Diesel JON6466D
 L6 466 CID BORE - 115.89mm/4.50"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1937-17	1 ⁵ / ₁₆ O.D.,1 ¹ / ₁₆ I.D., ⁷ / ₃₂ Depth
	Exh SB1750-2N	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth
Valve	Int 01336S	1.902 Head Diameter,Stellite Face,OEM #'s R41410 & R43883, 1 Groove & 1 Seal Groove
	Exh 01375	1.715 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # R41411 & R43679, 6.133 Overall Length, Single Groove
	21375	1.715 Head Diameter,Alternative Austenitic Material,6.133 Overall Length, Single Groove
Keeper	Both 121-1007	1 SQ Bead Type
Stem Seal	Int 122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
	Both 122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Opt., Machine Guide To .562 O.D.
Guide	Both 140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
	140-7448	0.3745 I.D.,3.000 Length,0.5640 O.D.,Plain I.D. Conversion Guide,Optional
	140-9458	0.3740 I.D.,3.060 Length,0.5020 O.D.
Spring	Both 160-1205	2.173 Length,OEM # R26125
Rotator	Exh 161-1040	OEM # RE11410

69 466 C.I., (7.6L), 466A, 6466T 12 Valve Intercooled Turbo Diesel JON6466T
 L6 466 CID BORE - 115.89mm/4.50"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.715 Valve Head Dia.
	Exh SB1750-2N	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,W/ 1.715 Valve Head Dia.
Valve	Int 01403	1.715 Head Diameter,2 Groove,OEM # R50358

(Cont'd) JOHN DEERE / TRACTOR**466 C.I., (7.6L), 466A, 6466T 12 Valve Intercooled Turbo Diesel**
L6 466 CID**JON6466T 69**
BORE - 115.89mm/4.50" (cont.)

PART		PART NO.	NOTES
Valve	Exh	01377	1.715 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # R50357, Single Groove
		21377	1.715 Head Diameter,Alternative Austenitic Material,6.208 Overall Length, Single Groove
Keeper	Both	121-1007	1 SQ Bead Type
Guide	Both	140-7248	0.3750 I.D.,2.750 Length,0.5640 O.D.
		140-7448	0.3745 I.D.,3.000 Length,0.5640 O.D.,Plain I.D. Conversion Guide,Optional
Spring	Both	160-1205	2.173 Length,OEM # R26125, Exc. 6076 Eng.
Rotator	Both	161-1040	OEM # RE11410

466 C.I., (7.6L), 6076A, 6076T 12 Valve Turbo Diesel
L6 466 CID**JON6076T 70**
BORE - 116mm/4.57"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2051E-4	2.051 O.D.,1.744T I.D.,0.2410 Depth,OEM # R84977
	Exh	SB1933E-2	1.933 O.D.,1.454T I.D.,0.2410 Depth,OEM # R84976
Valve	Int	01587	2.008 Head Diameter,OEM # R84618, R504060
		01586	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # R84619, R504061
		21586	1.850 Head Diameter,Alternative Austenitic Material
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Exh	122-1392	Umbrella Type,Nylon Material,Umbrella Style,Oil Shield, OEM # R102882
Guide	Both	140-9458H	0.3740 I.D.,3.063 Length,0.5020 O.D.,Optional Hardened Conversion Guide
Spring	Both	160-1447	2.560 Length,OEM # R91822
Rotator	Both	161-1040	OEM # RE11410

496 C.I., (8.1L), 6081, 12 Valve, Diesel "PowerTech"
L6 496 CID**JON6081 71**
BORE - 116mm/4.57"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2051E-5	2.051 O.D.,1.744T I.D.,0.2410 Depth,OEM # R121193
	Exh	SB1933E-2	1.933 O.D.,1.454T I.D.,0.2410 Depth,OEM # R119132
Valve	Int	01587	2.008 Head Diameter,OEM # R84618, R504060
		01586	1.850 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # R84619, R504061
		21586	1.850 Head Diameter,Alternative Austenitic Material
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Exh	122-1392	Umbrella Type,Nylon Material,Umbrella Style,Oil Shield, OEM # R102882; NOTE: W/ Rotator & For Use W/ 160-1447 Valve Spring
		122-1443	Umbrella Type,Nylon Material,Oil Shield Style,Oil Shield, OEM # R501640; NOTE: W/O Rotator
Guide	Both	140-9458H	0.3740 I.D.,3.063 Length,0.5020 O.D.,Optional Hardened Conversion Guide
Spring	Both	160-1447	2.560 Length,OEM # R91822, NOTE: For Use On Some Engines Equipped W/ Rotators and W/O Rotators
		160-1615	2.330 Length,OEM # R502187; NOTE: W/O Rotator; For Use With R501640 Oil Shield
Rotator	Both	161-1040	OEM # RE11410; NOTE: For Use W/ 160-1447 Valve Spring & 122-1392 Oil Shield When Equipped W/ Rotators

JOHN DEERE / TRACTOR (Cont'd)

72 531 C.I., (8.7L), 6531D 12 Valve Diesel

6531D

L6 531 CID

BORE - 120.65mm/4.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2212E-1N	2.212 O.D.,1.960 I.D.,0.2500 Depth,OEM # R41868
	Exh	SB1919E-1N	1.919 O.D.,1.665 I.D.,0.2500 Depth,OEM # R41869
Valve	Int	01407	2.150 Head Diameter,OEM # R42182
	Exh	01406	1.875 Head Diameter,OEM # R45823
Keeper	Both	121-1009	1 SQ Bead Type
Guide	Both	140-8004	0.4375 I.D.,3.188 Length,0.7835 O.D.,OEM # R40357, R53192
Spring	Both	160-1448	2.320 Length,Inner, OEM # R49569, Late
		160-1449	2.520 Length,Outer, OEM # R49571, Late

73 531 C.I., (8.7L), 6531A 12 Valve Intercooled Turbo Diesel

6531A

L6 531 CID

BORE - 120.65mm/4.75"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2136E-1N	2.136 O.D.,1.705T I.D.,0.3190 Depth,+20 O/S Available,OEM # R48313 & R59894
	Exh	SB1991E-1N	1.991 O.D.,1.616T I.D.,0.3090 Depth,OEM #'s R48314 & R60537
Valve	Int	01409	2.031 Head Diameter,OEM # R49566; NOTE: Hardened Tip
	Exh	01408	1.875 Head Diameter,Inconel,OEM # R49567; NOTE: Hardened Tip
Keeper	Both	121-1009	1 SQ Bead Type
Stem Seal	Int	122-1023	O-Ring Type,Poly Material,O-Ring Style,OEM # R87627
Guide	Both	140-8004	0.4375 I.D.,3.188 Length,0.7835 O.D.,OEM # R40357, R53192; Use with 7/16 Valve Stem Dia.
Spring	Both	160-1448	2.320 Length,Inner, OEM # R49569
		160-1449	2.520 Length,Outer, OEM # R49571

74 549 C.I., (9.0L), 6090, 24 Valve, Diesel "Power Tech Plus"

6090_24V

L6 549 CID

BORE - 118.4mm/4.6614"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1638E-2	1.638 O.D.,1.400 I.D.,0.2180 Depth,OEM # R527285
		SB1638E-2T	1.638 O.D.,1.400 I.D.,0.2370 Depth,OEM # R522049; NOTE: Same As SB1638E-2 Except 0.019" Thicker
		SB1676E-1	1.676 O.D.,1.400T I.D.,0.2370 Depth,OEM # R527447
Valve	Int	13177S	1.575 Head Diameter,Stellite Face,OEM # R520223
	Exh	13178S	1.575 Head Diameter,Stellite Face,OEM # R520224
Keeper	Both	121-1078	1 RD Bead Type,OEM # R520798
Stem Seal	Both	122-1421	Positive Type,Viton Material,Top Hat Style,OEM # RE529187
Guide	Both	140-3131	0.3162 I.D.,2.465 Length,0.5335 O.D.,OEM # R527286
Spring	Both	160-1585	2.185 Length,OEM # R504235
Rotator	Both	161-1076	OEM # R530750
Injector Tubes and Components		240-1040	Injector Tube,OEM # RE517435, RE543935
		240-1040RB	O-Ring, Bottom; Light Green,OEM # RE530609
		240-1040RT	O-Ring, Top; Dark Green,OEM # RE528349

75 619 C.I., (10.1L), 6619T 12 Valve Intercooled Turbo Diesel

6619T

L6 619 CID

BORE - 130mm/5.12"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2136E-1N	2.136 O.D.,1.705T I.D.,0.3190 Depth,+20 O/S Available,Up To S/N 499,999, OEM # R48313 & R59894; NOTE: Some Castings Used as Int. & Exh.

(Cont'd) JOHN DEERE / TRACTOR**619 C.I., (10.1L), 6619T 12 Valve Intercooled Turbo Diesel****6619T 75**

L6 619 CID

BORE - 130mm/5.12" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1991E-1N	1.991 O.D.,1.616T I.D.,0.3090 Depth,Up To S/N 4999,999, OEM # R48314 & R60537
Valve	Int	01590S	2.031 Head Diameter,Stellite Face, $\frac{7}{16}$ Stem Dia. From S/N 021562, OEM # R81087, R75690 & R63981. Up To S/N 499,999.
	Exh	01412	1.875 Head Diameter,Recommended OEM Nickel Base Inconel Material, $\frac{7}{16}$ Stem Dia., From S/N 021562, OEM # R63982, Up To S/N 499,999
		21412	1.875 Head Diameter,Alternative Austenitic Material, $\frac{7}{16}$ Stem Dia., From S/N 021562, Up To S/N 499,999
Keeper	Both	121-1009	1 SQ Bead Type,Up To S/N 499,999, Use with $\frac{7}{16}$ Stem Dia..
Guide	Both	140-8004	0.4375 I.D.,3.188 Length,0.7835 O.D.,OEM # R40357, R53192; Up To S/N 499,999. Use with $\frac{7}{16}$ Valve Stem Dia.
Spring	Both	160-1448	2.320 Length,Inner, OEM # R49569
		160-1449	2.520 Length,Outer, OEM # R49571
Rotator	Both	161-1054	Up to S/N 499,999, Use with $\frac{7}{16}$ Valves, OEM # R81086

619 C.I., (10.1L), 6101A 12 Valve Turbo Diesel "500 Series"**6101A-T 76**

L6 619 CID

BORE - 130mm/5.12"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2136E-2PM	2.136 O.D.,1.705 I.D.,0.2950 Depth,From S/N 500,000, OEM # R102860
	Exh	SB2136E-3PM	2.136 O.D.,1.652 I.D.,0.3100 Depth,From S/N 500,000, OEM # R102859
Valve	Int	01717S	2.087 Head Diameter,Stellite Face,From S/N 500,000, OEM # R101304, 29 degree
	Exh	01716	2.087 Head Diameter,From S/N 500,000, OEM # R101305, 36.5 degree
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Exh	122-1392	Umbrella Type,Nylon Material,Umbrella Style,Oil Shield; OEM # R102882
Guide	Both	140-3027	0.3750 I.D.,3.189 Length,0.7833 O.D.,OEM # R108988
Spring	Both	160-1447	2.560 Length,OEM # R91822
Rotator	Both	161-1040	From S/N 500,000, OEM # RE11410

644 C.I., (10.5L), 6105A, 24 Valve, Diesel "PowerTech"**6105AH 77**

L6 644 CID

BORE - 138mm/5.43"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1951E-1	1.951 O.D.,1.510T I.D.,0.2900 Depth,+10 O/S Available,OEM # R502401, R504713
Valve	Both	01889	1.830 Head Diameter,Inconel ,OEM # R122035
Keeper	Both	121-1078	1 RD Bead Type,OEM # R91889
Stem Seal	Both	122-1415	Positive Type,Viton Material,Top Hat Style,OEM # RE66635
Guide	Both	140-3050	0.3570 I.D.,3.355 Length,0.5905 O.D.,OEM # R517011; +2 O/S Available
Spring	Both	160-1456	2.756 Length,OEM # R133891
Injector Tubes and Components		240-1037	Injector Tube,OEM # RE518339, RE531334; NOTE: W/ Two O-Ring Grooves, Requires One Top O-Ring, Black (240-1037RT) And One Bottom O-Ring, Purple (240-1037RB)
		240-1037RB	O-Ring, Bottom; Purple
		240-1037RT	O-Ring, Top; Black,OEM # T122075
		240-1038	Injector Tube,OEM # R501559, RE528634; NOTE: W/ Single O-Ring Groove, Requires One Black O-Ring (240-1037RT)

JOHN DEERE / TRACTOR (Cont'd)

78 766 C.I., (12.5L), 6125A, 24 Valve, Diesel "PowerTech"
L6 766 CID

6125AH
BORE - 165mm/6.50"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1951E-1	1.951 O.D.,1.510T I.D.,0.2900 Depth,+10 O/S Available,OEM # R502401, R504713
Valve	Both	01889	1.830 Head Diameter,Inconel ,OEM # R122035
Keeper	Both	121-1078	1 RD Bead Type,OEM # R91889
Stem Seal	Both	122-1415	Positive Type,Viton Material,Top Hat Style,OEM # RE66635
Guide	Both	140-3050	0.3570 I.D.,3.355 Length,0.5905 O.D.,OEM # R517011; +2 O/S Available
Spring	Both	160-1456	2.756 Length,OEM # R133891
Injector Tubes and Components		240-1037	Injector Tube,OEM # RE518339, RE531334; NOTE: W/ Two O-Ring Grooves, Requires One Top O-Ring, Black (240-1037RT) And One Bottom O-Ring, Purple (240-1037RB)
		240-1037RB	O-Ring, Bottom; Purple
		240-1037RT	O-Ring, Top; Black,OEM # T122075
		240-1038	Injector Tube,OEM # R501559, RE528634; NOTE: W/ Single O-Ring Groove, Requires One Black O-Ring (240-1037RT)

79 824 C.I., (13.5L), 6135, 24 Valve, Diesel "Power Tech Plus"
L6 824 CID

6135_24V
BORE - 132.0mm/5.20"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1832E-1	1.832 O.D.,1.510T I.D.,0.2410 Depth,OEM # R518327
Valve	Both	13176	1.732 Head Diameter,OEM # R518328
Keeper	Both	121-1078	1 RD Bead Type,OEM # R520798
Stem Seal	Both	122-1420	Positive Type,Viton Material,Top Hat Style,OEM # RE523985
Guide	Both	140-3050	0.3570 I.D.,3.355 Length,0.5905 O.D.,OEM # R517011; +2 O/S Available
Spring	Both	160-1456	2.756 Length,OEM # R133891; NOTE: Services One Valve Spring Contained In Kit # RE505499
Injector Tubes and Components		240-1037	Injector Tube,OEM # RE518339, RE531334; NOTE: Uses O-Rings 240-1037RT (Top) and 240-1037RB (Bottom) Sold Separately
		240-1037RB	O-Ring, Bottom; Purple
		240-1037RT	O-Ring, Top; Black,OEM # T122075
		240-1049	Injector Tube,OEM # RE539446, RE548489; NOTE, Uses O-Rings 240-1037RT (Top) and 240-1037RB (Bottom) Sold Separately

KIA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1493cc, (1.5L), DOHC, GAS, FI, 16 Valve "Hyundai G4FK Alpha" (2001-02)	Rio	1
1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 1, 5 "Hyundai G4FC Gamma MPI" (2010-13)	Soul	2
1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 2, 3, "Hyundai G4FD Gamma II GDi Direct Injected" (2012-16)	Rio, Soul	3
1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 1, 3 "Hyundai G4FJ Gamma GDi Direct Injected Turbo" (2014-16)	Forte Koup, Forte5, Optima	4
1594cc, (1.6L), DOHC, GAS, FI, 16 Valve "A6D" (2003-05)	Rio	5
1597cc, (1.6L), SOHC, GAS, FI, 16 Valve, Vin 1 "B6 Mazda" (1994-95)	Sephia	6
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 3, 4 "B6ZE Mazda" (1996-97)	Sephia	7

(Cont'd) KIA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 3 "Hyundai G4ED Alpha II" (2006-11)	Rio, Rio5	8
1793cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 1, 5, 5BP (1998-04)	Sephia, Spectra	9
1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 6 "Hyundai G4NB Nu MPI" (2014-16)	Forte	10
1839cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 5 "Mazda BPD" (1995-97)	Sephia	11
1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 1, 2, 4 "Hyundai G4GC Beta II" (2004-11)	Soul, Spectra, Spectra5, Sportage	12
1999cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 6 "Hyundai G4NA Nu MPI" (2012-13)	Soul	13
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 3, "FE Mazda" (1995-02)	Sportage	14
1998cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin 1 "FE Mazda" (1995-95)	Sportage	15
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 2, 6 "Hyundai G4KD Theta II MPI" (2010-13)	Forte, Forte Koup, Forte5, Soul	16
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 6 "Hyundai G4KF Theta MPI Turbo" (2011-13)	Optima, Sportage	17
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 6 "Hyundai G4KH Theta II GDi Turbo Direct Injected" (2014-15)	Optima, Sportage	18
1999cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 5, 7, 8 "Hyundai G4NC Nu GDI" (2014-16)	Forte, Forte Koup, Forte5, Soul	19
2351cc, (2.4L), DOHC, GAS, FI, Vin 6, S "Hyundai G4JS Sirius II" (2001-06)	Magentis, Optima	20
2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 1, 2, 3, 5, 6, 7, 8, 9 "Hyundai G4KE Theta II" (2006-13)	Forte, Forte Koup, Forte5, Magentis, Optima, Rondo, Sorento, Sportage	21
2359cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin D "Hyundai G4KK Theta II Hybrid" (2011-16)	Optima Hybrid	22
2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 3, 6, 7, C "Hyundai G4KJ Theta II GDi Direct Injected" (2014-16)	Optima, Sorento, Sportage	23
6 Cylinder		
2493cc, (2.5L), DOHC, GAS, FI, 24 Valve "Hyundai G6BV Delta" (2001-01)	Optima	24
2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin 3, 8 "Hyundai G6BA Delta" (2002-10)	Optima, Sportage	25
2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin 4, 6 "Hyundai G6EA Mu" (2007-10)	Magentis, Optima, Rondo	26
3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 5 "Hyundai G6DB Lambda" (2008-09)	Sorento	27
3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 1, 5, 7 "Hyundai G6DH Lambda II GDi Direct Injected" (2014-16)	Cadenza, Sedona, Sorento	28
3470cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin 2, 7 "Hyundai G6DB Lambda II" (2011-14)	Sedona, Sorento	29
3497cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin 1, 4 "Hyundai G6AU Sigma" (2002-06)	Amanti, Sedona, Sorento	30
3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin 3 "Hyundai G6DJ Lambda II GDi Direct Injected" (2015-16)	K900	31

KIA / PASSENGER CAR OR TRUCK (Cont'd)

Engine		Models			Line No.
6 Cylinder					
3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin 1, 3, 5, 6 "Hyundai G6DB Lambda II" (2006-10) Amanti, Borrego, Sedona, Sorento 32					
1	1493cc, (1.5L), DOHC, GAS, FI, 16 Valve "Hyundai G4FK Alpha"				KIA1.5-G4FK
2001-02	L4	91 CID	BORE - 75.5mm/2.97"		
PART	YEARS	PART NO.	NOTES		
Valve	Int	2001-02	02194	1.094 Head Diameter	
	Exh	2001-02	02195	0.980 Head Diameter	
Keeper	Both	2001-02	121-1108	1 RD Bead Type	
Stem Seal	Both	2001-02	122-1162	Positive Type,Viton Material,Metal Clad Style	
Guide	Both	2001-02	140-3129	0.2167 I.D.,1.660 Length,0.3760 O.D.	
Lifter	Both	2001-02	VL149	Hydraulic Bucket Type	
2	1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 1, 5 "Hyundai G4FC Gamma MPI"				KIA1.6-G4FC
2010-13	L4	97 CID	BORE - 77mm/3.03"		
PART	YEARS	PART NO.	NOTES		
Keeper	Both	2010-13	121-1060	1 RD Bead Type	
3	1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 2, 3, "Hyundai G4FD Gamma II GDi Direct Injected"				KIA1.6-G4FD
2012-16	L4	97 CID	BORE - 77mm/3.03"		
PART	YEARS	PART NO.	NOTES		
Keeper	Both	2012-16	121-1060	1 RD Bead Type	
4	1591cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 1, 3 "Hyundai G4FJ Gamma GDi Direct Injected Turbo"				KIA1.6-G4FJ
2014-16	L4	97 CID	BORE - 77mm/3.03"		
PART	YEARS	PART NO.	NOTES		
Keeper	Both	2014-16	121-1060	1 RD Bead Type	
5	1594cc, (1.6L), DOHC, GAS, FI, 16 Valve "A6D"				KIA-1.6A
2003-05	L4	97 CID	BORE - 78mm/3.07"		
PART	YEARS	PART NO.	NOTES		
Valve Seat Insert	Int	2003-05	SB1250-61	1¼ O.D.,0.976 I.D.,0.1800 Depth	
	Exh	2003-05	SB1125-51	1⅝ O.D.,0.854 I.D.,0.2370 Depth,Seat May Need To Be Machined In Order To Achieve Correct Depth	
Valve	Int	2003-05	13038	1.150 Head Diameter	
	Exh	2003-05	13039	1.015 Head Diameter	
Keeper	Both	2003-05	121-1108	1 RD Bead Type	
Stem Seal	Both	2003-05	122-1162	Positive Type,Viton Material,Metal Clad Style	
Guide	Both	2003-05	140-3129	0.2167 I.D.,1.660 Length,0.3760 O.D.	
Lifter	Both	2003-05	VL149	Hydraulic Bucket Type	
6	1597cc, (1.6L), SOHC, GAS, FI, 16 Valve, Vin 1 "B6 Mazda"				KIA-B6
1994-95	L4	97 CID	BORE - 78mm/3.07"		
PART	YEARS	PART NO.	NOTES		
Stem Seal	Both	1994-95	122-1285	Positive Type,Viton Material,Metal Clad Style	
Guide	Both	1994-95	140-8173	0.2370 I.D.,1.775 Length,0.4360 O.D.,W/ Snap Ring	
Lifter	Both	1994-95	VL146	Hydraulic Lash Adjuster Type	

(Cont'd) KIA / PASSENGER CAR OR TRUCK

1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 3, 4 "B6ZE Mazda" KIA-B6ZE 7
 1996-97 L4 97 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1996-97	SB1250-61	1¼ O.D.,0.976 I.D.,0.1800 Depth
	Exh	1996-97	SB1062-50	1⅞ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1996-97	10157	1.220 Head Diameter
	Exh	1996-97	10159	1.031 Head Diameter,Inconel
Stem Seal	Both	1996-97	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1996-97	140-8187	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring, Tapered End
	Exh	1996-97	140-8186	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring

1599cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin 3 "Hyundai G4ED Alpha II" KIA1.6-G4ED 8
 2006-11 L4 98 CID BORE - 76.5mm/3.01"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2006-11	13047	1.146 Head Diameter
	Exh	2006-11	10813	0.984 Head Diameter
Keeper	Both	2006-11	121-1102	1 RD Bead Type
Stem Seal	Both	2006-11	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2006-11	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
Lifter	Both	2006-11	VL568	Hydraulic Bucket Type
Head Saver Shim		2006-11	230-2190	New Hgt. - 2.496; Min. Htg. - N/A

1793cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 1, 5, 5BP 5BP 9
 1998-04 L4 109 CID BORE - 83mm/3.29"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1998-04	SB1312-52	1⅝ O.D.,1.060T I.D.,0.2400 Depth
	Exh	1998-04	SB1125-53	1⅞ O.D.,0.890T I.D.,0.2370 Depth
Valve	Int	1998-04	02196	1.240 Head Diameter
	Exh	1998-04	02197	1.063 Head Diameter
Stem Seal	Int	1998-04	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1998-04	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1998-04	140-8173	0.2370 I.D.,1.775 Length,0.4360 O.D.,W/ Snap Ring

1797cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 6 "Hyundai G4NB Nu MPI" KIA-1.8-G4NB 10
 2014-16 L4 110 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-16	121-1060	1 RD Bead Type

1839cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 5 "Mazda BPD" KIA-BPD 11
 1995-97 L4 112 CID BORE - 83mm/3.29"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1995-97	10234	1.298 Head Diameter
	Exh	1995-97	10235	1.103 Head Diameter
Stem Seal	Int	1995-97	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1995-97	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1995-97	140-8173	0.2370 I.D.,1.775 Length,0.4360 O.D.,W/ Snap Ring
Spring	Both	1995-97	160-1250	1.831 Length

KIA / PASSENGER CAR OR TRUCK (Cont'd)

12 1975cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 1, 2, 4 "Hyundai G4GC Beta II"
 2004-11 L4 120 CID KIA2.0-G4GC
 BORE - 82mm/3.23"

PART		YEARS	PART NO.	NOTES
Valve	Int	2004-11	10816	1.257 Head Diameter
	Exh	2004-11	10817	1.081 Head Diameter
Keeper	Both	2004-11	121-1102	1 RD Bead Type
Stem Seal	Both	2004-11	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-11	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	2004-11	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Head Saver Shim		2004-11	230-2136	New Hgt. - N/A

13 1999cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 6 "Hyunda G4NA Nu MPI"
 2012-13 L4 122 CID KIA2.0-G4NA
 BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2012-13	121-1102	1 RD Bead Type
Stem Seal	Both	2012-13	122-1440	Positive Type,Viton Material,Top Hat Style

14 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 3, "FE Mazda"
 1995-02 L4 122 CID KIA-FE16V
 BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1995-02	SB1437-75	1 ⁷ / ₁₆ O.D.,1.175 I.D.,0.2600 Depth
	Exh	1995-02	SB1250-58	1 ¹ / ₄ O.D.,0.955 I.D.,0.2550 Depth
Valve	Int	1995-02	10814	1.327 Head Diameter
	Exh	1995-02	10815	1.140 Head Diameter
Stem Seal	Both	1995-02	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1995-02	140-8187	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring, Tapered End
Head Saver Shim		1995-02	230-2154	New Hgt. 5.274-5.278; Min. Hgt. 5.274

15 1998cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin 1 "FE Mazda"
 1995-95 L4 122 CID KIA-FE8V
 BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1995-95	SB1812-50	1 ¹³ / ₁₆ O.D.,1.490T I.D.,0.3070 Depth
	Exh	1995-95	SB1500-54	1 ¹ / ₂ O.D.,1.180T I.D.,0.3070 Depth
Valve	Int	1995-95	10236	1.732 Head Diameter
	Exh	1995-95	10237	1.417 Head Diameter
Keeper	Both	1995-95	121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	1995-95	122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1995-95	140-8172	0.3180 I.D.,2.177 Length,0.5531 O.D.,W/ Snap Ring,+2 O/S Available
Spring		1995-95	160-1096	1.720 Length,Inner
		1995-95	160-1097	1.958 Length,Outer

16 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 2, 6 "Hyundai G4KD Theta II MPI"
 2010-13 L4 122 CID KIA2.0-G4KD
 BORE - 86mm/3.39"

PART		YEARS	PART NO.	NOTES
Valve	Int	2010-13	13255	1.378 Head Diameter
	Exh	2010-13	13256	1.142 Head Diameter
Keeper	Both	2010-13	121-1060	1 RD Bead Type
Stem Seal	Both	2010-13	122-1440	Positive Type,Viton Material,Top Hat Style

(Cont'd) KIA / PASSENGER CAR OR TRUCK

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 2, 6 "Hyundai G4KD Theta II MPI" **16**
 KIA2.0-G4KD (cont.)
 2010-13 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Guide	Both	2010-13 140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 6 "Hyundai G4KF Theta MPI Turbo" **17**
 KIA2.0-G4KF
 2011-13 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve	Int	2011-13 13255	1.378 Head Diameter
Keeper	Both	2011-13 121-1060	1 RD Bead Type
Stem Seal	Both	2011-13 122-1440	Positive Type,Viton Material,Top Hat Style

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 6 "Hyundai G4KH Theta II GDi Turbo Direct Injected" **18**
 HYU2.0-G4KH
 2014-15 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve	Int	2014-15 13255	1.378 Head Diameter
	Exh	2014-15 13256	1.142 Head Diameter
Keeper	Both	2014-15 121-1060	1 RD Bead Type
Stem Seal	Both	2014-15 122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-15 140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

1999cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 5, 7, 8 "Hyundai G4NC Nu GDi" **19**
 KIA2.0-G4NC
 2014-16 L4 122 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-16 121-1060	1 RD Bead Type
Stem Seal	Both	2014-15 122-1440	Positive Type,Viton Material,Top Hat Style

2351cc, (2.4L), DOHC, GAS, FI, Vin 6, S "Hyundai G4JS Sirius II" **20**
 KIA2.4-G4JS
 2001-06 L4 143 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve	Int	2001-06 10126A	1.339 Head Diameter,Nitride
		2001-06 10126R	1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter
	Exh	2001-06 10128A	1.201 Head Diameter,Nitride
		2001-06 10128R	1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	2001-05 121-1031	1 RD Bead Type
Stem Seal	Both	2001-06 122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-06 140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		2001-06 340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	2001-06 140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		2001-06 340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	2001-06 VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		2001-06 220-1114	Torque To Yield,Services Engine
Head Saver Shim		2001-06 230-2149	New Hgt. 5.197-5.200; Min. Hgt. N/A

KIA / PASSENGER CAR OR TRUCK (Cont'd)

21 2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 1, 2, 3, 5, 6, 7, 8, 9 "Hyundai G4KE Theta II" KIA2.4-G4KE
2006-13 L4 144 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2006-13	13255	1.378 Head Diameter
	Exh	2006-13	13256	1.142 Head Diameter
Keeper	Both	2006-13	121-1060	1 RD Bead Type
Stem Seal	Both	2006-13	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-13	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

22 2359cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin D "Hyundai G4KK Theta II Hybrid" KIA2.4-G4KK
2011-16 L4 143 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-16	13255	1.378 Head Diameter
	Exh	2011-16	13256	1.142 Head Diameter
Keeper	Both	2011-16	121-1060	1 RD Bead Type
Stem Seal	Both	2011-16	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-16	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

23 2359cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 3, 6, 7, C "Hyundai G4KJ Theta II GDi Direct Injected" KIA2.4-G4KJ
2014-16 L4 144 CID BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2014-16	13255	1.378 Head Diameter
	Exh	2014-16	13256	1.142 Head Diameter
Keeper	Both	2014-16	121-1060	1 RD Bead Type
Stem Seal	Both	2014-16	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-16	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

24 2493cc, (2.5L), DOHC, GAS, FI, 24 Valve " Hyundai G6BV Delta" KIA2.5-G6BV
2001-01 V6 152 CID BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-01	10808	1.260 Head Diameter
	Exh	2001-01	10809	1.083 Head Diameter
Keeper	Both	2001-01	121-1102	1 RD Bead Type
Stem Seal	Both	2001-01	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-01	140-8573	0.2360 I.D.,1.540 Length,0.4358 O.D.
	Exh	2001-01	140-8572	0.2360 I.D.,1.690 Length,0.4360 O.D.
Lifter	Both	2001-01	VL568	Hydraulic Bucket Type

25 2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin 3, 8 "Hyundai G6BA Delta" KIA2.7-G6BA
2002-10 V6 162 CID BORE - 86.7mm/3.41"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2002-10	10808	1.260 Head Diameter
	Exh	2002-10	10809	1.083 Head Diameter
Keeper	Both	2002-10	121-1102	1 RD Bead Type
Stem Seal	Both	2002-10	122-1366	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-10	140-8573	0.2360 I.D.,1.540 Length,0.4358 O.D.
	Exh	2002-10	140-8572	0.2360 I.D.,1.690 Length,0.4360 O.D.
Lifter	Both	2002-10	VL568	Hydraulic Bucket Type
Head Saver Shim		2002-10	230-2191L	Left,New Hgt. - 3.543; Min. Hgt. - 3.523

(Cont'd) KIA / PASSENGER CAR OR TRUCK

2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin 3, 8 "Hyundai G6BA Delta" KIA2.7-G6BA **25**
 2002-10 V6 162 CID BORE - 86.7mm/3.41" (cont.)

PART	YEARS	PART NO.	NOTES
Head Saver Shim	2002-10	230-2191R	Right,New Hgt. - 3.543; Min. Hgt. - 3.523

2656cc, (2.7L), DOHC, GAS, FI, 24 Valve, Vin 4, 6 "Hyundai G6EA Mu" kKIA2.7-G6EA **26**
 2007-10 V6 162 CID BORE - 86.7mm/3.41"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2007-10	121-1102	1 RD Bead Type
Stem Seal	Both	2007-10	122-1336	Positive Type,Viton Material,Top Hat Style

3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 5 "Hyundai G6DB Lambda" KIA3.3-G6DB **27**
 2008-09 V6 204 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2008-09	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2008-09	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2008-09	13286	1.417 Head Diameter
	Exh	2008-09	13287	1.220 Head Diameter
Keeper	Both	2008-09	121-1060	1 RD Bead Type
Stem Seal	Both	2008-09	122-1444	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-09	140-3152	0.2168 I.D.,1.655 Length,0.4348 O.D.

3342cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 1, 5, 7 "Hyundai G6DH Lambda II GDi Direct Injected" KIA3.3-G6DH **28**
 2014-16 V6 204 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2014-16	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2014-16	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2014-14	13286	1.417 Head Diameter
	Exh	2014-16	13287	1.220 Head Diameter
Keeper	Both	2014-16	121-1060	1 RD Bead Type
Stem Seal	Both	2014-16	122-1444	Positive Type,Viton Material,Top Hat Style
Guide	Both	2014-16	140-3152	0.2168 I.D.,1.655 Length,0.4348 O.D.

3470cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin 2, 7 "Hyundai G6DB Lambda II" KIA3.5-G6DB **29**
 2011-14 V6 212 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2011-14	SB1500-56	1½ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2011-14	SB1312-59	1⅝ O.D.,1.044 I.D.,0.2730 Depth,NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2011-14	13286	1.417 Head Diameter
	Exh	2011-14	13287	1.220 Head Diameter
Keeper	Both	2011-14	121-1060	1 RD Bead Type
Stem Seal	Both	2011-14	122-1444	Positive Type,Viton Material,Top Hat Style
Guide	Both	2011-14	140-3152	0.2168 I.D.,1.655 Length,0.4348 O.D.

KIA / PASSENGER CAR OR TRUCK (Cont'd)

30 3497cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin 1, 4 "Hyundai G6AU Sigma" KIA3.5-G6AU
 2002-06 V6 213 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2002-06	SB1312-64	1 ⁵ / ₁₆ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	2002-06	10810	1.378 Head Diameter
	Exh	2002-06	10811	1.201 Head Diameter
Keeper	Both	2002-06	121-1031	1 RD Bead Type
Stem Seal	Both	2002-06	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2002-06	140-8193	0.2600 I.D., 1.795 Length, 0.4755 O.D., +2 O/S Available
		2002-06	340-1013BR	0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide
	Exh	2002-06	140-8194	0.2600 I.D., 1.990 Length, 0.4755 O.D., +2 O/S Available
		2002-06	340-1014BR	0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide
Lifter	Both	2002-06	VL135	Hydraulic Lash Adjuster Type

31 3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin 3 "Hyundai G6DJ Lamda II
 GDi Direct Injected" KIA3.8-G6DJ
 2015-16 V6 230 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2015-16	13286	1.417 Head Diameter
	Exh	2015-16	13287	1.220 Head Diameter
Keeper	Exh	2015-16	121-1060	1 RD Bead Type

32 3778cc, (3.8L), DOHC, GAS, FI, 24 Valve, Vin 1, 3, 5, 6 "Hyundai G6DB
 Lambda II" KIA3.8-G6DB
 2006-10 V6 230 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2006-10	SB1500-56	1 ¹ / ₂ O.D., 1.275T I.D., 0.2500 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	2006-10	SB1312-59	1 ⁵ / ₁₆ O.D., 1.044 I.D., 0.2730 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	2006-10	13286	1.417 Head Diameter
	Exh	2006-10	13287	1.220 Head Diameter
Keeper	Both	2006-10	121-1060	1 RD Bead Type
Stem Seal	Both	2006-10	122-1444	Positive Type, Viton Material, Top Hat Style
Guide	Both	2006-10	140-3152	0.2168 I.D., 1.655 Length, 0.4348 O.D.

KOMATSU / HEAVY DUTY

Engine	Models	Line No.
3 Cylinder		
91 C.I., (1.5L), 3D84E, 1FB, 2FB, 3FB, "Yanmar", 6 Valve, Diesel		1
4 Cylinder		
122 C.I., (2.0L), 4D84E, 3FB, "Yanmar" 8 Valve, Diesel		2
169 C.I., (2.8L), 4D94E "Yanmar", 8 Valve, Diesel	Industrial Forklift	3
201 C.I., (3.3L), 4D95L, Diesel, Turbo, Direct Injected	Industrial 4D95L	4
201 C.I., (3.3L), 4D95LE-2A, Diesel, Turbo, Direct Injected	Industrial 4D95LE-2A	5
201 C.I., (3.3L), 4D95LE-3, Diesel, Turbo, Direct Injected	Industrial 4D95LE-3	6
201 C.I., (3.3L), 4D95S, Diesel, Turbo, Direct Injected	Industrial 4D95S	7
201 C.I., (3.3L), S4D95L, Diesel, Turbo, Direct Injected	Industrial S4D95L	8
201 C.I., (3.3L), S4D95LE, Diesel, Turbo, Direct Injected	Industrial S4D95LE	9
202 C.I., (3.3L), 4D98E "Yanmar", 8 Valve, Diesel	Industrial Forklift	10

(Cont'd) **KOMATSU / HEAVY DUTY**

Engine	Models	Line No.
4 Cylinder		
239 C.I., (3.9L), S4D102E, SA4D102E, "Cummins 4BT" 8 Valve, Turbo Diesel		11
269 C.I., (4.4L), 4D106 "Yanmar", 8 Valve, Diesel		12
269 C.I., (4.4L), 4D106T "Yanmar", 8 Valve, Turbo Diesel		13
495 C.I., (8.1L), 16 Valve Cummins OHV Diesel		18
6 Cylinder		
299 C.I., (4.9L), 6D95L, Diesel, Turbo, Direct Injected	Industrial 6D95L	14
299 C.I., (4.9L), S6D95L, Diesel, Turbo, Direct Injected	Industrial S6D95L	15
299 C.I., (4.9L), SA6D95L, Diesel, Turbo, Direct Injected	Industrial SA6D95L	16
359 C.I., (5.9L), S6D102E, SA6D102E, SAA6102E, "Cummins 6BT", 12 Valve, Turbo Diesel		17
674 C.I., (11.0L), 6D125-1, 24 Valve, Turbo/Non Turbo Diesel		19
674 C.I., (11.0L), S6D125-1, 24 Valve, Turbo/Non Turbo Diesel		20
674 C.I., (11.0L), SA6D125-1, 24 Valve, Turbo/Non Turbo Diesel		21
674 C.I., (11.0L), 6D125E-2, 24 Valve, Turbo/Non Turbo Diesel		22
674 C.I., (11.0L), S6D125E-2, 24 Valve, Turbo/Non Turbo Diesel		23
674 C.I., (11.0L), SA6D125E-2, 24 Valve, Turbo/Non Turbo Diesel		24
674 C.I., (11.0L), SAA6D125E-3, 24 Valve, Turbo/Non Turbo Diesel		25
743 C.I., (12.2L), 12 Valve Cummins OHV Turbo Diesel		26
855 C.I., (14.0L), 24 Valve Cummins OHV		27
1175 C.I., (19.2L), S6D155 Turbo Diesel 12 Valve		28
1175 C.I., (19.2L), SA6D155 Intercooled Turbo Diesel 12 Valve		29

91 C.I., (1.5L), 3D84E, 1FB, 2FB, 3FB, "Yanmar", 6 Valve, Diesel **3D84E 1**
L3 91 CID BORE - 84mm/3.30"

PART	PART NO.	NOTES
Valve	Int 13415	1.378 Head Diameter,OEM # M129100-11100
	Exh 13416	1.181 Head Diameter,OEM # M129100-11130
Keeper	Both 121-1138	1 SQ Bead Type,OEM # M27310-080001
Stem Seal	Int 122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # M124460-11340
	Exh 122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # M121400-11340
Guide	Int 140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M120130-11860
	Exh 140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M129150-11810
Spring	Both 160-1665	1.760 Length,OEM # M129795-11120

122 C.I., (2.0L), 4D84E, 3FB, "Yanmar" 8 Valve, Diesel **4D84E 2**
L4 122 CID BORE - 84mm/3.30"

PART	PART NO.	NOTES
Valve	Int 13415	1.378 Head Diameter,OEM # M129100-11100
	Exh 13416	1.181 Head Diameter,OEM # M129100-11130
Keeper	Both 121-1138	1 SQ Bead Type,OEM # M27310-080001
Stem Seal	Int 122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # M124460-11340

KOMATSU / HEAVY DUTY (Cont'd)

2 122 C.I., (2.0L), 4D84E, 3FB, "Yanmar" 8 Valve, Diesel 4D84E
(cont.) L4 122 CID BORE - 84mm/3.30"

PART		PART NO.	NOTES
Stem Seal	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # M121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # M120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M129150-11810
Spring	Both	160-1665	1.760 Length,OEM # M129795-11120

3 169 C.I., (2.8L), 4D94E "Yanmar", 8 Valve, Diesel 4D94E
L4 169 CID BORE - 94mm/3.701"

PART		PART NO.	NOTES
Valve	Int	13411	1.614 Head Diameter,OEM # YM129900-11100
	Exh	13412	1.378 Head Diameter,OEM # YM129900-11110
Keeper	Both	121-1138	1 SQ Bead Type,OEM # M27310-080001
Stem Seal	Both	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # M121400-11340
Guide	Both	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M129150-11810
Spring	Both	160-1664	1.880 Length,OEM # YM129900-11120

4 201 C.I., (3.3L), 4D95L, Diesel, Turbo, Direct Injected 4D95L
L4 201 CID BORE - 95.0mm/3.74"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-3	1.775 O.D.,1.450T I.D.,0.3330 Depth,OEM # 6207-11-1430
	Exh	SB1538E-2	1.5385 O.D.,1.240T I.D.,0.2550 Depth,OEM # 6204-11-1440
Valve	Int	13383	1.728 Head Diameter,OEM # 6207-41-4110
	Exh	13384	1.492 Head Diameter,OEM # 6204-41-4210
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310
Spring	Both	160-1653	2.255 Length,OEM # 6204-41-4431

5 201 C.I., (3.3L), 4D95LE-2A, Diesel, Turbo, Direct Injected 4D95LE-2A
L4 201 CID BORE - 95.0mm/3.74"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-3	1.775 O.D.,1.450T I.D.,0.3330 Depth,OEM # 6207-11-1430
	Exh	SB1538E-2	1.5385 O.D.,1.240T I.D.,0.2550 Depth,OEM # 6204-11-1440
Valve	Int	13383	1.728 Head Diameter,OEM # 6207-41-4110
	Exh	13384	1.492 Head Diameter,OEM # 6204-41-4210
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310
Spring	Both	160-1653	2.255 Length,OEM # 6204-41-4431

6 201 C.I., (3.3L), 4D95LE-3, Diesel, Turbo, Direct Injected 4D95LE-3
L4 201 CID BORE - 95.0mm/3.74"

PART		PART NO.	NOTES
Valve	Int	13383	1.728 Head Diameter,OEM # 6207-41-4110
	Exh	13384	1.492 Head Diameter,OEM # 6204-41-4210
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310
Spring	Both	160-1654	1.950 Length,OEM # 6204-41-4410

(Cont'd) KOMATSU / HEAVY DUTY**201 C.I., (3.3L), 4D95S, Diesel, Turbo, Direct Injected****4D95S 7**

L4 201 CID

BORE - 95.0mm/3.74"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-3	1.775 O.D.,1.450T I.D.,0.3330 Depth,OEM # 6207-11-1430
	Exh	SB1538E-2	1.5385 O.D.,1.240T I.D.,0.2550 Depth,OEM # 6204-11-1440
Valve	Int	13383	1.728 Head Diameter,OEM # 6207-41-4110
	Exh	13384	1.492 Head Diameter,OEM # 6204-41-4210
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310
Spring	Both	160-1654	1.950 Length,OEM # 6204-41-4410

201 C.I., (3.3L), S4D95L, Diesel, Turbo, Direct Injected**S4D95L 8**

L4 201 CID

BORE - 95.0mm/3.74"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-4	1.775 O.D.,1.450R I.D.,0.3330 Depth,OEM # 6209-11-1430
	Exh	SB1539E-5	1.5385 O.D.,1.240R I.D.,0.2540 Depth,OEM # 6207-11-1440
Valve	Int	13383	1.728 Head Diameter,OEM # 6207-41-4110
		13387	1.728 Head Diameter,OEM # 6209-41-4110
	Exh	13384	1.492 Head Diameter,OEM # 6204-41-4210
		13388S	1.492 Head Diameter,Stellite Face,OEM # 6209-41-4210
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310
Spring	Both	160-1653	2.255 Length,OEM # 6204-41-4431
		160-1654	1.950 Length,OEM # 6204-41-4410

201 C.I., (3.3L), S4D95LE, Diesel, Turbo, Direct Injected**S4D95LE 9**

L4 201 CID

BORE - 95.0mm/3.74"

PART		PART NO.	NOTES
Valve	Int	13383	1.728 Head Diameter,OEM # 6207-41-4110
	Exh	13384	1.492 Head Diameter,OEM # 6204-41-4210
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310
Spring	Both	160-1654	1.950 Length,OEM # 6204-41-4410

202 C.I., (3.3L), 4D98E "Yanmar", 8 Valve, Diesel**4D98E 10**

L4 202 CID

BORE - 98mm/3.858"

PART		PART NO.	NOTES
Valve	Int	13411	1.614 Head Diameter,OEM # YM129900-11100
	Exh	13412	1.378 Head Diameter,OEM # YM129900-11110
Keeper	Both	121-1138	1 SQ Bead Type,OEM # M27310-080001
Stem Seal	Both	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # M121400-11340
Guide	Both	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # M129150-11810
Spring	Both	160-1664	1.880 Length,OEM # YM129900-11120

239 C.I., (3.9L), S4D102E, SA4D102E, "Cummins 4BT" 8 Valve, Turbo Diesel**S4D102E 11**

L4 239 CID

BORE - 102mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D.,1.498T I.D.,0.2730 Depth,OEM # 6732-11-1180
	Exh	SB1722E-1	1.722 O.D.,1.357T I.D.,0.2650 Depth,OEM # 6732-11-1170

KOMATSU / HEAVY DUTY (Cont'd)

11 239 C.I., (3.9L), S4D102E, SA4D102E, "Cummins 4BT" 8 Valve, Turbo Diesel S4D102E
(cont.) L4 239 CID BORE - 102mm/4.00"

PART		PART NO.	NOTES
Valve	Int	01665	1.772 Head Diameter,OEM # 6736-41-4110; W/ 30 Degree Seat
	Exh	01664	1.654 Head Diameter,OEM # 6736-41-4210; W/ 45 Degree Seat
Keeper	Both	121-1079	1 RD Bead Type,OEM # 6732-41-4520
Stem Seal	Both	122-1269	Positive Type,Viton Material, Ring & Band Style, Orange Color Seal,OEM # 6732-41-4540
		122-1365	Positive Type,Viton Material, Top Hat Style
Guide	Int	140-8177	0.3162 I.D.,2.382 Length,0.5528 O.D.
		140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Exh	140-8178	0.3160 I.D.,2.052 Length,0.5528 O.D.
		140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Both	140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D.,W/O Seal Boss, Universal Length
Spring	Exh	160-1650	2.875 Length,Barrel Shaped,Note: W/ Exhaust Brake, 60lbs Additional Seat Pressure.
	Both	160-1527	2.518 Length,OEM # 6732-41-4430
Lifter	Both	VL156	Mechanical Type,OEM # 6732-41-2112
Push Rod	Both	190-1530	10.910 Length,OEM # 6732-41-3111

12 269 C.I., (4.4L), 4D106 "Yanmar", 8 Valve, Diesel 4D106
L4 269 CID BORE - 106mm/4.17"

PART		PART NO.	NOTES
Valve	Int	13409	1.752 Head Diameter,OEM # M123900-11100
	Exh	13410	1.535 Head Diameter,OEM # M123900-11110
Keeper	Both	121-1139	1 SQ Bead Type,OEM # M27310-090001
Stem Seal	Both	122-1482	Positive Type,Viton Material,Metal Clad Style,OEM # M121850-11150
Guide	Both	140-3189	0.3545 I.D.,1.990 Length,0.5325 O.D.,OEM # M119000-11810
Spring	Both	160-1663	2.006 Length,OEM # M123900-11120

13 269 C.I., (4.4L), 4D106T "Yanmar", 8 Valve, Turbo Diesel 4D106T
L4 269 CID BORE - 106mm/4.17"

PART		PART NO.	NOTES
Valve	Int	13409	1.752 Head Diameter,OEM # M123900-11100
	Exh	13410	1.535 Head Diameter,OEM # M123900-11110
Keeper	Both	121-1139	1 SQ Bead Type,OEM # M27310-090001
Stem Seal	Both	122-1482	Positive Type,Viton Material,Metal Clad Style,OEM # M121850-11150
Guide	Both	140-3189	0.3545 I.D.,1.990 Length,0.5325 O.D.,OEM # M119000-11810
Spring	Both	160-1663	2.006 Length,OEM # M123900-11120

14 299 C.I., (4.9L), 6D95L, Diesel, Turbo, Direct Injected 6D95L
L6 299 CID BORE - 95.0mm/3.74"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-3	1.775 O.D.,1.450T I.D.,0.3330 Depth,OEM # 6207-11-1430
	Exh	SB1538E-2	1.5385 O.D.,1.240T I.D.,0.2550 Depth,OEM # 6204-11-1440
Valve	Int	13383	1.728 Head Diameter,OEM # 6207-41-4110
	Exh	13384	1.492 Head Diameter,OEM # 6204-41-4210
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-41-4541
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310

(Cont'd) KOMATSU / HEAVY DUTY**299 C.I., (4.9L), S6D95L, Diesel, Turbo, Direct Injected****S6D95L 15**

L6 299 CID

BORE - 95.0mm/3.74"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-3	1.775 O.D.,1.450T I.D.,0.3330 Depth,OEM # 6207-11-1430; NOTE; 45 Deg.,Use W/ 13383
		SB1775E-4	1.775 O.D.,1.450R I.D.,0.3330 Depth,OEM # 6209-11-1430; NOTE: 30 Deg., Use W/ 13387
	Exh	SB1538E-2	1.5385 O.D.,1.240T I.D.,0.2550 Depth,OEM # 6204-11-1440; NOTE: Use W/ 13384
		SB1539E-5	1.5385 O.D.,1.240R I.D.,0.2540 Depth,OEM # 6207-11-1440; NOTE: Use W/ 13388S
Valve	Int	13383	1.728 Head Diameter,OEM # 6207-41-4110; NOTE: 45 Deg., W/ Letter "I" In Head, Use W/ SB1775E-3
		13387	1.728 Head Diameter,OEM # 6209-41-4110; NOTE: 30 Deg., W/ Letter "I3" In Head, Use W/ SB1775E-4
	Exh	13384	1.492 Head Diameter,OEM # 6204-41-4210; NOTE: W/ Letter "EX" In Head, Use W/ SB1538E-3
		13388S	1.492 Head Diameter,Stellite Face,OEM # 6209-41-4210; NOTE: W/ Letter "EM" In Head, Use W/ SB1539E-5
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-19-1310
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310
Spring	Both	160-1653	2.255 Length,OEM # 6204-41-4431, W / 2.255" Free Length
		160-1654	1.950 Length,OEM # 6204-41-4410, W/ 1.950" Free Length

299 C.I., (4.9L), SA6D95L, Diesel, Turbo, Direct Injected**SA6D95L 16**

L6 299 CID

BORE - 95.0mm/3.74"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1775E-4	1.775 O.D.,1.450R I.D.,0.3330 Depth,OEM # 6209-11-1430
	Both	SB1539E-5	1.5385 O.D.,1.240R I.D.,0.2540 Depth,OEM # 6207-11-1440
Valve	Int	13387	1.728 Head Diameter,OEM # 6209-41-4110
	Exh	13388S	1.492 Head Diameter,Stellite Face,OEM # 6209-41-4210
Keeper	Both	121-1134	1 SQ Bead Type,OEM # 6204-41-4520
Stem Seal	Both	122-1472	Positive Type,Viton Material,Metal Clad Style,OEM # 6204-19-1310
Guide	Both	140-3181	0.3150 I.D.,2.040 Length,0.4740 O.D.,OEM # 6204-19-1310
Spring	Both	160-1653	2.255 Length,OEM # 6204-41-4431

359 C.I., (5.9L), S6D102E, SA6D102E, SAA6102E, "Cummins 6BT", 12 Valve, Turbo Diesel**17****S6D102E**

L6 359 CID

BORE - 102mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1853E-1	1.853 O.D.,1.498T I.D.,0.2730 Depth,OEM # 6732-11-1180
		SB1853E-2	1.853 O.D.,1.495T I.D.,0.2710 Depth,20 Degree, Natural Gas
		SB1875-8	1 7/8 O.D.,1 1/2 T I.D., 7/32 Depth,Universal Size Seat For Head W/O OEM Seat
	Exh	SB1722E-1	1.722 O.D.,1.357T I.D.,0.2650 Depth,OEM # 6732-11-1170
		SB1722E-3	1.722 O.D.,1.382T I.D.,0.2650 Depth,20 Degree, Natural Gas
		SB1750-7	1 3/4 O.D.,1 3/8 I.D., 7/32 Depth,Universal Size Seat For Head W/O OEM Seat
		SB1750-8N	1 3/4 O.D.,1 3/8 I.D., 1/4 Depth,Universal Size Seat For Head W/O OEM Seat; NOTE: Alternative Star Series Material, Seat May Need To Be Machined In Order To Achieve Correct Depth
Valve	Int	01665	1.772 Head Diameter,5.084 Overall Length, W/ 30 Degree Seat, OEM # 6736-41-4110
		02257	1.772 Head Diameter,5.085 Overall Length, W/ 20 Degree Seat, Natural Gas
	Exh	01664	1.654 Head Diameter,5.081 Overall Length, W/ 45 Degree Seat, OEM # 6736-41-4210

KOMATSU / HEAVY DUTY (Cont'd)

17 359 C.I., (5.9L), S6D102E, SA6D102E, SAA6102E, "Cummins 6BT", 12 Valve,
(cont.) Turbo Diesel

L6 359 CID

S6D102E
BORE - 102mm/4.00"

PART		PART NO.	NOTES
Valve	Exh	01862	1.654 Head Diameter,5.081 Overall Length, W/ 20 Degree Seat, Natural Gas
Keeper	Both	121-1079	1 RD Bead Type,OEM # 6732-41-4520
Stem Seal	Both	122-1269	Positive Type,Viton Material, Ring & Band Style, Orange Color Seal, OEM # 6732-41-4540
		122-1365	Positive Type,Viton Material, Top Hat Style
Guide	Int	140-8177	0.3162 I.D.,2.382 Length,0.5528 O.D.
		140-8177SA	0.3162 I.D.,2.382 Length,0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Exh	140-8178	0.3160 I.D.,2.052 Length,0.5528 O.D.
		140-8178SA	0.3160 I.D.,2.052 Length,0.5528 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
	Both	140-8277	0.3162 I.D.,2.500 Length,0.4393 O.D., W/O Seal Boss, Universal Length
Spring	Exh	160-1650	2.875 Length, Barrel Shaped, Note: W/ Exhaust Brake, 60lbs Additional Seat Pressure.
	Both	160-1527	2.518 Length, OEM # 6732-41-4430
Lifter	Both	VL156	Mechanical Type, OEM # 6732-41-2112
Push Rod	Both	190-1530	10.910 Length, OEM # 6732-41-3111
Head Saver Shim		230-2174	New Hgt. - 3.747 - 3.749; Min. Hgt. - 3.700

18 495 C.I., (8.1L), 16 Valve Cummins OHV Diesel

L4 495 CID

KOM495
BORE - 130.2mm/5.125"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1847E-1	1.846 O.D., 1 ¹ / ₁₆ I.D., ⁹ / ₃₂ Depth
Valve	Exh	00326S	1.745 Head Diameter, Stellite Face
Keeper	Both	121-1000	2 RD Bead Type
Guide	Both	140-1969	0.4050 I.D., 3.438 Length, 0.7520 O.D., Std. O.D.

19 674 C.I., (11.0L), 6D125-1, 24 Valve, Turbo/Non Turbo Diesel

L6 674 CID

6D125-1
BORE - 125mm/4.920"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1874E-3	1.874 O.D., 1.525R I.D., 0.2950 Depth, OEM # 6151-11-1330
	Exh	SB1835E-1	1.835 O.D., 1.490R I.D., 0.2950 Depth, OEM # 6150-11-1320
Valve	Int	13385	1.776 Head Diameter, OEM # 6150-41-4111
	Exh	13386S	1.736 Head Diameter, Stellite Face, OEM # 6150-41-4210; 7.673 Overall Length
Keeper	Both	121-1135	1 RD Bead Type, OEM # 6136-42-4520
Stem Seal	Both	122-1473	Positive Type, ACM Material, Metal Clad Style, OEM # 6140-41-4540
Guide	Both	140-3183	0.3542 I.D., 2.670 Length, 0.6312 O.D., OEM # 6150-12-1351, 6150121341; Machined For Stem Seal
Spring	Both	160-1652	2.655 Length, OEM # 6150-41-4411
Injector Tubes and Components		240-1050	Injector Tube, OEM # 6136-11-1130

20 674 C.I., (11.0L), S6D125-1, 24 Valve, Turbo/Non Turbo Diesel

L6 674 CID

S6D125-1
BORE - 125mm/4.920"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1874E-3	1.874 O.D., 1.525R I.D., 0.2950 Depth, OEM # 6151-11-1330
	Exh	SB1835E-1	1.835 O.D., 1.490R I.D., 0.2950 Depth, OEM # 6150-11-1320

(Cont'd) KOMATSU / HEAVY DUTY**674 C.I., (11.0L), S6D125-1, 24 Valve, Turbo/Non Turbo Diesel**
L6 674 CID**S6D125-1 20**
BORE - 125mm/4.920" (cont.)

PART		PART NO.	NOTES
Valve	Int	13385	1.776 Head Diameter,OEM # 6150-41-4111
	Exh	13386S	1.736 Head Diameter,Stellite Face,OEM # 6150-41-4210; 7.673 Overall Length
		13391S	1.736 Head Diameter,Stellite Face,OEM # 6150-41-4230; NOTE: HA250 / HA270 Models, 6.770 Overall Length
Keeper	Both	121-1135	1 RD Bead Type,OEM # 6136-42-4520
Stem Seal	Both	122-1473	Positive Type,ACM Material,Metal Clad Style,OEM # 6140-41-4540
Guide	Both	140-3183	0.3542 I.D.,2.670 Length,0.6312 O.D.,OEM # 6150-12-1351, 6150121341; Machined For Stem Seal
Spring	Int	160-1651	2.440 Length,OEM # 6150-41-4420
	Exh	160-1652	2.655 Length,OEM # 6150-41-4411; NOTE: Intake And Exhaust For Models D65EX / PX-12
		160-1655	2.960 Length,OEM # 6150-41-4450; NOTE: HA250 / HA270 Models
Injector Tubes and Components		240-1050	Injector Tube,OEM # 6136-11-1130

674 C.I., (11.0L), SA6D125-1, 24 Valve, Turbo/Non Turbo Diesel
L6 674 CID**SA6D125-1 21**
BORE - 125mm/4.920"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1874E-3	1.874 O.D.,1.525R I.D.,0.2950 Depth,OEM # 6151-11-1330
	Exh	SB1835E-1	1.835 O.D.,1.490R I.D.,0.2950 Depth,OEM # 6150-11-1320
Valve	Int	13385	1.776 Head Diameter,OEM # 6150-41-4111
	Exh	13386S	1.736 Head Diameter,Stellite Face,OEM # 6150-41-4210; 7.673 Overall Length
Keeper	Both	121-1135	1 RD Bead Type,OEM # 6136-42-4520
Stem Seal	Both	122-1473	Positive Type,ACM Material,Metal Clad Style,OEM # 6140-41-4540
Guide	Both	140-3183	0.3542 I.D.,2.670 Length,0.6312 O.D.,OEM # 6150-12-1351, 6150121341; Machined For Stem Seal
Spring	Int	160-1651	2.440 Length,OEM # 6150-41-4420
	Exh	160-1652	2.655 Length,OEM # 6150-41-4411
Injector Tubes and Components		240-1050	Injector Tube,OEM # 6136-11-1130

674 C.I., (11.0L), 6D125E-2, 24 Valve, Turbo/Non Turbo Diesel
L6 674 CID**6D125E-2 22**
BORE - 125mm/4.920"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1874E-3	1.874 O.D.,1.525R I.D.,0.2950 Depth,OEM # 6151-11-1330
	Exh	SB1835E-1	1.835 O.D.,1.490R I.D.,0.2950 Depth,OEM # 6150-11-1320
Valve	Int	13389	1.776 Head Diameter,OEM # 6150-42-4110
	Exh	13390S	1.736 Head Diameter,Stellite Face,OEM # 6150-42-4210
Keeper	Both	121-1135	1 RD Bead Type,OEM # 6136-42-4520
Stem Seal	Both	122-1474	Positive Type,Viton Material,Metal Clad Style,OEM # 6150-41-4570
Guide	Both	140-3184	0.3540 I.D.,2.670 Length,0.6312 O.D.,Spiral I.D. Toward Cumbustion,OEM # 6150-12-1370
Spring	Both	160-1655	2.960 Length,OEM # 6150-41-4450
Injector Tubes and Components		240-1050	Injector Tube,OEM # 6136-11-1130

KOMATSU / HEAVY DUTY (Cont'd)

23 674 C.I., (11.0L), S6D125E-2, 24 Valve, Turbo/Non Turbo Diesel
L6 674 CID

S6D125E-2
BORE - 125mm/4.920"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1874E-3	1.874 O.D., 1.525R I.D., 0.2950 Depth, OEM # 6151-11-1330
	Exh	SB1835E-1	1.835 O.D., 1.490R I.D., 0.2950 Depth, OEM # 6150-11-1320
Valve	Int	13389	1.776 Head Diameter, OEM # 6150-42-4110
	Exh	13390S	1.736 Head Diameter, Stellite Face, OEM # 6150-42-4210
Keeper	Both	121-1135	1 RD Bead Type, OEM # 6136-42-4520
Stem Seal	Both	122-1474	Positive Type, Viton Material, Metal Clad Style, OEM # 6150-41-4570
Guide	Both	140-3184	0.3540 I.D., 2.670 Length, 0.6312 O.D., Spiral I.D. Toward Combustion, OEM # 6150-12-1370
Spring	Both	160-1655	2.960 Length, OEM # 6150-41-4450
Injector Tubes and Components		240-1050	Injector Tube, OEM # 6136-11-1130

24 674 C.I., (11.0L), SA6D125E-2, 24 Valve, Turbo/Non Turbo Diesel
L6 674 CID

SA6D125E-2
BORE - 125mm/4.920"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1874E-4N	1.874 O.D., 1.525R I.D., 0.2950 Depth, OEM # 6150-12-1380
	Exh	SB1835E-1	1.835 O.D., 1.490R I.D., 0.2950 Depth, OEM # 6150-11-1320
Valve	Int	13389	1.776 Head Diameter, OEM # 6150-42-4110
	Exh	13390S	1.736 Head Diameter, Stellite Face, OEM # 6150-42-4210
Keeper	Both	121-1135	1 RD Bead Type, OEM # 6136-42-4520
Stem Seal	Both	122-1474	Positive Type, Viton Material, Metal Clad Style, OEM # 6150-41-4570
Guide	Both	140-3184	0.3540 I.D., 2.670 Length, 0.6312 O.D., Spiral I.D. Toward Combustion, OEM # 6150-12-1370
Spring	Both	160-1655	2.960 Length, OEM # 6150-41-4450
Injector Tubes and Components		240-1050	Injector Tube, OEM # 6136-11-1130

25 674 C.I., (11.0L), SAA6D125E-3, 24 Valve, Turbo/Non Turbo Diesel
L6 674 CID

SAA6D125E-3
BORE - 125mm/4.920"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1874E-4N	1.874 O.D., 1.525R I.D., 0.2950 Depth, OEM # 6150-12-1380
	Exh	SB1835E-1	1.835 O.D., 1.490R I.D., 0.2950 Depth, OEM # 6150-11-1320
Valve	Int	13389	1.776 Head Diameter, OEM # 6150-42-4110
	Exh	13390S	1.736 Head Diameter, Stellite Face, OEM # 6150-42-4210
Keeper	Both	121-1135	1 RD Bead Type, OEM # 6136-42-4520
Stem Seal	Both	122-1474	Positive Type, Viton Material, Metal Clad Style, OEM # 6150-41-4570
Guide	Both	140-3184	0.3540 I.D., 2.670 Length, 0.6312 O.D., Spiral I.D. Toward Combustion, OEM # 6150-12-1370
Spring	Both	160-1655	2.960 Length, OEM # 6150-41-4450
Injector Tubes and Components		240-1050	Injector Tube, OEM # 6136-11-1130

26 743 C.I., (12.2L), 12 Valve Cummins OHV Turbo Diesel
L6 743 CID

KOM743
BORE - 130.2mm/5.125"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1847E-1	1.846 O.D., 1 $\frac{1}{16}$ I.D., $\frac{3}{32}$ Depth
Valve	Exh	00326S	1.745 Head Diameter, Stellite Face
Keeper	Both	121-1000	2 RD Bead Type

(Cont'd) **KOMATSU / HEAVY DUTY**

743 C.I., (12.2L), 12 Valve Cummins OHV Turbo Diesel

KOM743 26

L6 743 CID

BORE - 130.2mm/5.125" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
Guide	Both	140-1969	0.4050 I.D., 3.438 Length, 0.7520 O.D., Std. O.D.

855 C.I., (14.0L), 24 Valve Cummins OHV

KOM855_T 27

L6 855 CID

BORE - 139.7mm/5.50"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB2003E-1	2.003 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, OEM Replacement, OEM # 3017759
		SB2003E-1N	2.003 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, OEM # 127930, OEM Replacement for Turbo & High Heat Applications, Non-Magnetic
		SB2006E-1	2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 & +30 O/S Available, Also Available In Non-Magnetic (N) Material, OEM # 3032285, +3 Additional Press Fit Over OEM Replacement
		SB2006E-1N	2.006 O.D., 1 ¹¹ / ₁₆ I.D., ⁹ / ₃₂ Depth, +5, +10, +20 & +30 O/S Available, OEM # 127930, Turbo & High Heat Application
		SB2006E-5	2.006 O.D., 1.690 I.D., 0.2140 Depth, +10, +20 & +30 O/S Available, 1988 Big Cam IV, 91N14, OEM # 3054590 & 3054600
		SB2006E-6C	2.006 O.D., 1.630 I.D., 0.2800 Depth, OEM # 80610016 & 90210014, Stellite Material, Can Be Used W/ Natural Gas 15 & 20 Degree Valve
Valve	Int	00603	1.870 Head Diameter, Letter "O" in Head, Non Stellite Faced, OEM # 135957
	Exh	00602S	1.870 Head Diameter, Stellite Face, W/ Letter "S" or "J" In Head, OEM # 145701
	Both	00602	1.870 Head Diameter, Letter "N" In Head, Late Style OEM # 3040830
Keeper	Both	121-1006	2 RD Bead Type
Stem Seal	Both	122-1362	Positive Type, Viton Material, Ring & Spring Style, Cummins OEM # 156641, Use W/ 140-6452 Guide
Guide	Both	140-6452	0.4528 I.D., 3.195 Length, 0.7520 O.D., Machined For Seal; W/ Oil Relief Hole In Guide Wall
		140-7264	0.4530 I.D., 3.400 Length, 0.7620 O.D., +.010 O.D.
		140-7994	0.4530 I.D., 3.400 Length, 0.7518 O.D., +2 O/S Available, Current OEM # 3006456 W/O Sharp Top Edge & Replaces Earlier OEM # 3050369 W/ Sharp Top Edge
		140-7994SA	0.4530 I.D., 3.400 Length, 0.7518 O.D., "Special Alloy", For Ultra Low Sulfur Diesel
Spring	Both	160-1177	2.685 Length, W/O Exhaust Brake, Do Not Use W/ Old Spring Under The Same Cross Head. OEM # 211999
		160-1305	2.635 Length, OEM # 3035996 & 3081212 Big Cam IV Only
Rocker Components	Both	187-1051	Roll Pin, OEM # 118939, Big Cam I, II, III
		187-1062	Valve Roller Pin, OEM # 3013331, Big Cam I, II, III
		187-1066	Valve Cam Roller, OEM # 3036933, Big Cam I, II, III
		187-1052	Bridge Guide, OEM # 123558, Big Cam I, II, III
		187-1061	Injector Roller Pin, OEM # 3013330, Big Cam I, II, III
		187-1067	Injector Cam Roller, OEM # 3036934, Big Cam I, II, III
		187-1068	Injector Cam Roller, OEM # 3062096, Small Cam
Injector Tubes and Components		240-1009	Injector Tube, Thin Nose, OEM # 3011934, 3070486
		240-1009R	O-Ring, Black, OEM # 196641, 3007759
		240-1010	Injector Tube, Heavy Nose, OEM # 3011935, 3071147

1175 C.I., (19.2L), S6D155 Turbo Diesel 12 Valve

S6D155 28

L6 1175 CID

BORE - 155mm/6.107"

PART		PART NO.	NOTES
Guide	Both	140-8160	0.4335 I.D., 3.350 Length, 0.7100 O.D.

KOMATSU / HEAVY DUTY (Cont'd)

29 1175 C.I., (19.2L), SA6D155 Intercooled Turbo Diesel 12 Valve
L6 1175 CID

SA6D155
BORE - 155mm/6.107"

PART	PART NO.	NOTES
Guide	Both 140-8160	0.4335 I.D.,3.350 Length,0.7100 O.D.

KUBOTA / INDUSTRIAL

Engine	Models	Line No.
3 Cylinder		
55 C.I., (0.9L), Diesel, "D905"		1
69 C.I., (1.1L), Diesel, "D1105"		2
77 C.I., (1.3L), Diesel, "D1305"		5
85 C.I., (1.4L), Diesel, "D1403"		6
101 C.I., (1.6L), Diesel, "D1703"		7
4 Cylinder		
70 C.I., (1.2L), Diesel, "V1100"		3
75 C.I., (1.2L), Diesel, "V1200B"		4
106 C.I., (1.7L), Diesel, "V1702"		8
106 C.I., (1.7L), Diesel, "V1702B"		9
114 C.I., (1.9L), Diesel, "V1902"		10
114 C.I., (1.9L), Diesel, "V1902B"		11
114 C.I., (1.9L), Diesel, "V1903"		12
122 C.I., (2.0L), Diesel, "V2003 Turbo"		13
134 C.I., (2.2L), Diesel, "V2203"		14
134 C.I., (2.2L), Diesel, "V2203B"		15

1 55 C.I., (0.9L), Diesel, "D905" D905
L3 55 CID BORE - 72.01mm/2.835"

PART	PART NO.	NOTES
Stem Seal	Both 122-1375	Positive Type,Viton Material,Metal Clad Style,OEM # 1C010-13150

2 69 C.I., (1.1L), Diesel, "D1105" D1105
L3 69 CID BORE - 78.01mm/3.071"

PART	PART NO.	NOTES
Stem Seal	Both 122-1375	Positive Type,Viton Material,Metal Clad Style,OEM # 1C010-13150

3 70 C.I., (1.2L), Diesel, "V1100" V1100
L4 70 CID BORE - 72mm/2.835"

PART	PART NO.	NOTES
Valve	Int 13020 Exh 13021	1.225 Head Diameter,OEM # 15393-1311-0 1.084 Head Diameter,OEM # 15393-1312-0

4 75 C.I., (1.2L), Diesel, "V1200B" V1200B
L4 75 CID BORE - 75mm/2.953"

PART	PART NO.	NOTES
Valve	Int 13020 Exh 13021	1.225 Head Diameter,OEM # 15393-1311-0 1.084 Head Diameter,OEM # 15393-1312-0
Stem Seal	Both 122-1375	Positive Type,Viton Material,Metal Clad Style,OEM # 15261-1315-0, NOTE: Aftermarket Metal Clad Design
Guide	Int 140-3103 Exh 140-3104	0.2760 I.D.,1.575 Length,0.4341 O.D.,OEM # 15261-1354-0 0.2760 I.D.,1.575 Length,0.4341 O.D.,W/ Counterbore,OEM # 15261-1356-0

(Cont'd) KUBOTA / INDUSTRIAL

75 C.I., (1.2L), Diesel, "V1200B"			V1200B 4
			BORE - 75mm/2.953" (cont.)
PART	PART NO.		NOTES
Spring	Both	160-1495	1.397 Length,OEM # 15261-1324-0
77 C.I., (1.3L), Diesel, "D1305"			D1305 5
			BORE - 78.0mm/3.07"
PART	PART NO.		NOTES
Stem Seal	Both	122-1375	Positive Type,Viton Material,Metal Clad Style,OEM # 1C010-13150
85 C.I., (1.4L), Diesel, "D1403"			D1403 6
			BORE - 80mm/3.15"
PART	PART NO.		NOTES
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0
101 C.I., (1.6L), Diesel, "D1703"			D1703 7
			BORE - 87mm/3.43"
PART	PART NO.		NOTES
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1356-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0
106 C.I., (1.7L), Diesel, "V1702"			V1702 8
			BORE - 82mm/3.229"
PART	PART NO.		NOTES
Valve	Int	13022	1.299 Head Diameter,OEM # 15221-1311-0
	Exh	13023	1.063 Head Diameter,OEM # 15221-1312-0
Keeper	Both	121-1123	1 RD Bead Type,OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both	122-1372	Positive Type,Viton Material,Metal Clad Style,OEM # 15221-1315-0, 15221-1315-3
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0
Spring	Both	160-1493	1.668 Length,OEM # 15221-1324-0
106 C.I., (1.7L), Diesel, "V1702B"			V1702B 9
			BORE - 82mm/3.229"
PART	PART NO.		NOTES
Valve	Int	13022	1.299 Head Diameter,OEM # 15221-1311-0
	Exh	13023	1.063 Head Diameter,OEM # 15221-1312-0
Keeper	Both	121-1123	1 RD Bead Type,OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both	122-1372	Positive Type,Viton Material,Metal Clad Style,OEM # 15221-1315-0, 15221-1315-3
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0
Spring	Both	160-1493	1.668 Length,OEM # 15221-1324-0

KUBOTA / INDUSTRIAL (Cont'd)**10** 114 C.I., (1.9L), Diesel, "V1902"
L4 114 CIDV1902
BORE - 85mm/3.347"

PART		PART NO.	NOTES
Valve	Int	13022	1.299 Head Diameter,OEM # 15221-1311-0
	Exh	13023	1.063 Head Diameter,OEM # 15221-1312-0
Keeper	Both	121-1123	1 RD Bead Type,OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both	122-1372	Positive Type,Viton Material,Metal Clad Style,OEM # 15221-1315-0, 15221-1315-3
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0
Spring	Both	160-1493	1.668 Length,OEM # 15221-1324-0

11 114 C.I., (1.9L), Diesel, "V1902B"
L4 114 CIDV1902B
BORE - 85mm/3.347"

PART		PART NO.	NOTES
Valve	Int	13022	1.299 Head Diameter,OEM # 15221-1311-0
	Exh	13023	1.063 Head Diameter,OEM # 15221-1312-0
Keeper	Both	121-1123	1 RD Bead Type,OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both	122-1372	Positive Type,Viton Material,Metal Clad Style,OEM # 15221-1315-0, 15221-1315-3
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0
Spring	Both	160-1493	1.668 Length,OEM # 15221-1324-0

12 114 C.I., (1.9L), Diesel, "V1903"
L4 114 CIDV1903
BORE - 80mm/3.15"

PART		PART NO.	NOTES
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0

13 122 C.I., (2.0L), Diesel, "V2003 Turbo"
L4 122 CIDV2003
BORE - 83mm/3.27"

PART		PART NO.	NOTES
Valve	Int	13024	1.320 Head Diameter,OEM # 16484-1311-0
	Exh	13028	1.122 Head Diameter,OEM # 16419-1312-5
Keeper	Both	121-1123	1 RD Bead Type,OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both	122-1372	Positive Type,Viton Material,Metal Clad Style,OEM # 15221-1315-0, 15221-1315-3
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0
Spring	Both	160-1493	1.668 Length,OEM # 15221-1324-0

14 134 C.I., (2.2L), Diesel, "V2203"
L4 134 CIDV2203
BORE - 87mm/3.43"

PART		PART NO.	NOTES
Valve	Int	13024	1.320 Head Diameter,OEM # 16484-1311-0
	Exh	13025	1.122 Head Diameter,OEM # 16484-1312-0

(Cont'd) **KUBOTA / INDUSTRIAL**

134 C.I., (2.2L), Diesel, "V2203"
L4 134 CID

V2203 14
BORE - 87mm/3.43" (cont.)

PART		PART NO.	NOTES
Keeper	Both	121-1123	1 RD Bead Type,OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both	122-1372	Positive Type,Viton Material,Metal Clad Style,OEM # 15221-1315-0, 15221-1315-3
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0
Spring	Both	160-1493	1.668 Length,OEM # 15221-1324-0

134 C.I., (2.2L), Diesel, "V2203B"
L4 134 CID

V2203B 15
BORE - 87mm/3.43"

PART		PART NO.	NOTES
Valve	Int	13024	1.320 Head Diameter,OEM #'s 16415-13110, 16484-13110
	Exh	13025	1.122 Head Diameter,OEM #'s 16415-13120, 16484-13120
Keeper	Both	121-1123	1 RD Bead Type,OEM #'s 15221-1336-0, 15221-1398-0
Stem Seal	Both	122-1372	Positive Type,Viton Material,Metal Clad Style,OEM # 15221-1315-0, 15221-1315-3
Guide	Int	140-8347	0.3140 I.D.,1.890 Length,0.5160 O.D.,W/O Flange, +2 O/S Available,OEM # 15221-1358-0
	Exh	140-8348	0.3145 I.D.,1.850 Length,0.5158 O.D.,W/ Counterbore, W/O Flange, +2 O/S Available,OEM # 15221-1356-0
Spring	Both	160-1493	1.668 Length,OEM # 15221-1324-0

LAND ROVER / PASSENGER TRUCK

Engine	Models	Line No.
4 Cylinder		
1999cc, 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin G "Ford Ecoboost" (2012-17)	Discovery Sport, LR2, Range Rover Evoque	1
6 Cylinder		
4009cc, 245 C.I., (4.0L), SOHC, GAS, FI, 12 Valve, Vin 4 "Ford" (2005-09)	LR3	2

1999cc, 122 C.I., (2.0L), DOHC, GAS, FI, 16 Valve, Vin G "Ford Ecoboost" LRV2.0-ECO **1**
2012-17 L4 122 CID BORE - 87.5mm/3.44"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2012-16	121-1104	1 RD Bead Type
Stem Seal	Int	2012-16	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2012-16	122-1411	Positive Type,Viton Material,Top Hat Style

4009cc, 245 C.I., (4.0L), SOHC, GAS, FI, 12 Valve, Vin 4 "Ford" LRV-4.0 **2**
2005-09 V6 245 CID BORE - 100.3mm/3.95"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2005-09	SB1875-50	1 $\frac{7}{8}$ O.D.,1.640 I.D.,0.2800 Depth,Note: Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	2005-09	SB1625-54	1 $\frac{5}{8}$ O.D.,1.329 I.D.,0.2800 Depth
Valve	Int	2005-09	01913	1.811 Head Diameter
	Exh	2005-09	01914	1.535 Head Diameter
Keeper	Both	2005-08	121-1084	3 RD Bead Type
Stem Seal	Both	2005-09	122-1348	Positive Type,Viton Material,Top Hat Style
Guide	Both	2005-09	140-8663	0.2761 I.D.,1.740 Length,0.4724 O.D.,W/ Snap Ring

LAND ROVER / PASSENGER TRUCK (Cont'd)

2 4009cc, 245 C.I., (4.0L), SOHC, GAS, FI, 12 Valve, Vin 4 "Ford" LRV-4.0
 (cont.) 2005-09 V6 245 CID BORE - 100.3mm/3.95"

PART	YEARS	PART NO.	NOTES	
Spring	Both	2005-09	160-1504	1.696 Length
Lifter	Both	2005-09	VL176	Hydraulic Lash Adjuster Type
Rocker Components	Both	2005-09	180-1325	Roller Cam Follower
Head Bolt Set	2005-09	220-1106		Torque To Yield, Services Engine

LEXUS / PASSENGER CAR OR TRUCK

Engine Models Line No.

4 Cylinder

1798cc, (1.8L), DOHC, ELECTRIC/GAS, FI, 16 Valve, "Toyota 2ZRFXE" (2011-16)	CT200h	1
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, 8ARFTS (2015-16)	NX200t	2
2362cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, "Toyota 2AZFXE" (2010-12)	HS250h	3
2494cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 2ARFXE Hybrid (2013-16)	ES300h Hybrid	4

6 Cylinder

2499cc, (2.5L), DOHC, GAS, FI, 24 Valve, 4GRFSE (2006-15)	IS250	5
2508cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, 2VZFE "Toyota" (1990-91)	ES250	6
2959cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin V, 3VZFE "Toyota" (1992-93)	ES300	7
2994cc, (3.0L), DOHC, GAS, FI, 24 Valve, 3GRFSE "Toyota" (2006-06)	GS300	8
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin F, G, 1MZFE "Toyota" (1994-03)	ES300, RX300	9
2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin D, J, 2JZGE "Toyota" (1992-05)	GS300, IS300, SC300	10
3300cc, (3.3L), DOHC, ELECTRIC/GAS, GAS, FI, 24 Valve, Toyota 3MZFE (2004-08)	ES330, RX330, RX400h Hybrid	11
3456cc, (3.5L), DOHC, GAS, FI, 24 Valve, 2GRFE (2007-16)	ES350, RX350	12
3456cc, (3.5L), DOHC, ELECTRIC/GAS, GAS, FI, 24 Valve, "Toyota 2GRFSE" (2006-16)	GS350, GS450h, IS300, IS350, RC300, RC350	13
3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 2GRFXE (2010-16)	GS450h, RX450h	14
4477cc, (4.5L), DOHC, GAS, FI, 24 Valve, Vin J, 1FZFE "Toyota" (1996-97)	LX450	17

8 Cylinder

3969cc, (4.0L), DOHC, GAS, FI, 32 Valve, Vin H, U, 1UZFE "Toyota" (1990-00)	GS400, LS400, SC400	15
4293cc, (4.3L), DOHC, GAS, FI, 32 Valve, 3UZFE "Toyota" (2001-10)	GS430, LS430, SC430	16
4608cc, (4.6L), DOHC, GAS, FI, 32 Valve, 1URFE (2010-16)	GX460	18
4608cc, (4.6L), DOHC, GAS, FI, 32 Valve, 1URFSE (2007-16)	GS460, LS460	19
4663cc, (4.7L), DOHC, GAS, FI, 32 Valve, "Toyota 2UZFE" (1998-09)	GX470, LX470	20

(Cont'd) **LEXUS / PASSENGER CAR OR TRUCK**

Engine	Models	Line No.		
8 Cylinder				
4969cc, (5.0L), DOHC, GAS, FI, 32 Valve, 2URGSE (2008-16)	GS F, IS F, RC F	21		
4968cc, (5.0L), DOHC, ELECTRIC/GAS, FI, 32 Valve, 2URFSE (2008-16)	LS600h	22		
5663cc, (5.7L), DOHC, GAS, FI, 32 Valve, 3URFE "Toyota i-Force" (2008-16)	LX570	23		
1798cc, (1.8L), DOHC, ELECTRIC/GAS, FI, 16 Valve, "Toyota 2ZRFXE"		LEX-2ZRFXE 1		
2011-16	L4 110 CID	BORE - 80.5mm/3.17"		
PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-16	13365	1.260 Head Diameter
	Exh	2011-16	13366	1.084 Head Diameter
Keeper	Both	2011-16	121-1100	1 RD Bead Type
Stem Seal	Int	2011-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2011-16	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2011-16	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2011-16	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, 8ARFTS		LEX-8ARFTS 2		
2015-16	L4 122 CID	BORE - 86mm/3.40"		
PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-16	121-1100	1 RD Bead Type
2362cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, "Toyota 2AZFXE"		LEX-2AZFXE 3		
2010-12	L4 144 CID	BORE - 88.5mm/3.48"		
PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-12	10798	1.339 Head Diameter
	Exh	2010-12	10799	1.161 Head Diameter
Keeper	Both	2010-12	121-1100	1 RD Bead Type
Stem Seal	Int	2010-12	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2010-12	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2010-12	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.
Head Saver Shim		2010-12	230-2143	New Hgt. - 5.090; Min. Hgt. - N/A
2494cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 2ARFXE Hybrid		LEX-2ARFXE 4		
2013-16	L4 152 CID	BORE - 90mm/3.54"		
PART	YEARS	PART NO.	NOTES	
Keeper	Both	2013-16	121-1100	1 RD Bead Type
Stem Seal	Int	2013-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2013-16	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2013-16	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2013-16	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available
2499cc, (2.5L), DOHC, GAS, FI, 24 Valve, 4GRFSE		LEX-4GRFSE 5		
2006-15	V6 152 CID	BORE - 83mm/3.27"		
PART	YEARS	PART NO.	NOTES	
Keeper	Both	2006-15	121-1100	1 RD Bead Type
Stem Seal	Int	2006-15	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2006-15	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2006-15	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2006-15	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

LEXUS / PASSENGER CAR OR TRUCK (Cont'd)

6 2508cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, 2VZFE "Toyota" LEX-2VZFE
 1990-91 V6 153 CID BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-91	SB1375-50	1 $\frac{3}{8}$ O.D., 1.109T I.D., 0.2550 Depth
	Exh	1990-91	SB1187-53	1 $\frac{3}{16}$ O.D., 0.935 I.D., 0.2350 Depth
Keeper	Both	1990-91	121-1058	1 RD Bead Type
Stem Seal	Both	1990-91	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1990-91	140-8038	0.2371 I.D., 1.595 Length, 0.4350 O.D., W/ Snap Ring, +2 O/S Available
Lifter	Both	1990-91	VL119	Mechanical Bucket Type
Head Bolt Set		1990-91	220-1048	Torque To Yield, Services Engine

7 2959cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin V, 3VZFE "Toyota" LEX-3VZFE
 1992-93 V6 181 CID BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-93	SB1437-72	1 $\frac{7}{16}$ O.D., 1.150T I.D., 0.2570 Depth
	Exh	1992-93	SB1187-53	1 $\frac{3}{16}$ O.D., 0.935 I.D., 0.2350 Depth
Valve	Int	1992-93	10305	1.339 Head Diameter
	Exh	1992-93	10306S	1.073 Head Diameter, Stellite Face
Keeper	Both	1992-93	121-1058	1 RD Bead Type
Stem Seal	Int	1992-93	122-1165	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1992-93	140-8038	0.2371 I.D., 1.595 Length, 0.4350 O.D., W/ Snap Ring, +2 O/S Available

8 2994cc, (3.0L), DOHC, GAS, FI, 24 Valve, 3GRFSE "Toyota" LEX-3GRFSE
 2006-06 V6 183 CID BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2006-06	121-1100	1 RD Bead Type
Stem Seal	Int	2006-06	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2006-06	122-1282	Positive Type, Viton Material, Metal Clad Style

9 2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin F, G, 1MZFE "Toyota" LEX-1MZFE
 1994-03 V6 183 CID BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-03	SB1437-72	1 $\frac{7}{16}$ O.D., 1.150T I.D., 0.2570 Depth
	Exh	1994-03	SB1187-53	1 $\frac{3}{16}$ O.D., 0.935 I.D., 0.2350 Depth
Valve	Int	1994-03	10552	1.339 Head Diameter
	Exh	1994-03	10553S	1.073 Head Diameter, Stellite Face
Keeper	Both	1994-03	121-1100	1 RD Bead Type
Stem Seal	Int	1994-03	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	1994-03	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1994-03	140-8584	0.2175 I.D., 1.360 Length, 0.4073 O.D.
	Exh	1994-03	140-8585	0.2175 I.D., 1.590 Length, 0.4075 O.D., +2 O/S Available

10 2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin D, J, 2JZGE "Toyota" LEX-2JZGE
 1992-05 L6 183 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-05	SB1437-72	1 $\frac{7}{16}$ O.D., 1.150T I.D., 0.2570 Depth
	Exh	1992-05	SB1250-58	1 $\frac{1}{4}$ O.D., 0.955 I.D., 0.2550 Depth
Valve	Int	1992-05	10518	1.319 Head Diameter
	Exh	1992-05	10519	1.142 Head Diameter
Stem Seal	Both	1992-05	122-1246	Positive Type, Viton Material, Metal Clad Style

(Cont'd) **LEXUS / PASSENGER CAR OR TRUCK**

2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin D, J, 2JZGE "Toyota" LEX-2JZGE 10
1992-05 L6 183 CID BORE - 86mm/3.39" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Int	1992-05	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
	Exh	1992-05	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available

3300cc, (3.3L), DOHC, ELECTRIC/GAS, GAS, FI, 24 Valve, Toyota 3MZFE LEX-3MZFE 11
2004-08 V6 202 CID BORE - 91.95mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-08	10552	1.339 Head Diameter
	Exh	2004-08	10553S	1.073 Head Diameter,Stellite Face
Keeper	Both	2004-08	121-1100	1 RD Bead Type
Stem Seal	Int	2004-08	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2004-08	122-1282	Positive Type,Viton Material,Metal Clad Style

3456cc, (3.5L), DOHC, GAS, FI, 24 Valve, 2GRFE LEX-2GRFE 12
2007-16 V6 211 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-15	13086	1.496 Head Diameter
	Exh	2007-16	13087	1.260 Head Diameter
Keeper	Both	2007-16	121-1100	1 RD Bead Type
Stem Seal	Int	2007-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2007-16	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2007-16	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2007-16	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

3456cc, (3.5L), DOHC, ELECTRIC/GAS, GAS, FI, 24 Valve, "Toyota 2GRFSE" LEX-2GRFSE 13
2006-16 V6 211 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2006-15	13086	1.496 Head Diameter
	Exh	2006-16	13087	1.260 Head Diameter
Keeper	Both	2006-16	121-1100	1 RD Bead Type
Stem Seal	Int	2006-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2006-16	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2006-15	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2006-16	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 2GRFXE LEX-2GRFXE 14
2010-16 V6 211 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-15	13086	1.496 Head Diameter
	Exh	2011-16	13087	1.260 Head Diameter
Keeper	Both	2011-16	121-1100	1 RD Bead Type
Stem Seal	Int	2011-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2011-16	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2011-15	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2011-16	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

3969cc, (4.0L), DOHC, GAS, FI, 32 Valve, Vin H, U, 1UZFE "Toyota" LEX-1UZFE 15
1990-00 V8 242 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-97	SB1437-72	17/16 O.D.,1.150T I.D.,0.2570 Depth

LEXUS / PASSENGER CAR OR TRUCK (Cont'd)

15 3969cc, (4.0L), DOHC, GAS, FI, 32 Valve, Vin H, U, 1UZFE "Toyota" LEX-1UZFE
(cont.) 1990-00 V8 242 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1990-97	SB1250-58	1¼ O.D.,0.955 I.D.,0.2550 Depth
Valve	Int 1998-00	13273	1.358 Head Diameter
	Exh 1998-00	13274S	1.142 Head Diameter,Stellite Face
Keeper	Both 1990-00	121-1058	1 RD Bead Type
Stem Seal	Both 1990-97	122-1147	Positive Type,Viton Material,Metal Clad Style
	1998-00	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1998-00	140-8584	0.2175 I.D.,1.360 Length,0.4073 O.D.
	Exh 1998-00	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.,+2 O/S Available
	Both 1990-97	140-8273	0.2365 I.D.,1.890 Length,0.4353 O.D.,W/ Snap Ring

16 4293cc, (4.3L), DOHC, GAS, FI, 32 Valve, 3UZFE "Toyota" LEX-3UZFE
2001-10 V8 262 CID BORE - 91mm/3.58"

PART	YEARS	PART NO.	NOTES
Valve	Int 2001-10	13273	1.358 Head Diameter
	Exh 2001-10	13274S	1.142 Head Diameter,Stellite Face
Keeper	Both 2001-10	121-1100	1 RD Bead Type
Stem Seal	Both 2001-10	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2001-10	140-8584	0.2175 I.D.,1.360 Length,0.4073 O.D.
	Exh 2001-10	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.

17 4477cc, (4.5L), DOHC, GAS, FI, 24 Valve, Vin J, 1FZFE "Toyota" LEX-1FZFE
1996-97 L6 273 CID BORE - 100mm/3.94"

PART	YEARS	PART NO.	NOTES
Stem Seal	Both 1996-97	122-1130	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1996-97	140-8586	0.2765 I.D.,1.660 Length,0.4548 O.D.,+2 O/S Available

18 4608cc, (4.6L), DOHC, GAS, FI, 32 Valve, 1URFE LEX-1URFE
2010-16 V8 281 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve	Int 2010-15	13086	1.496 Head Diameter
	Exh 2010-16	13087	1.260 Head Diameter
Keeper	Both 2010-16	121-1100	1 RD Bead Type
Stem Seal	Int 2010-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh 2010-16	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2010-16	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh 2010-16	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

19 4608cc, (4.6L), DOHC, GAS, FI, 32 Valve, 1URFSE LEX-1URFSE
2007-16 V8 281 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve	Exh 2007-13	13087	1.260 Head Diameter
Keeper	Both 2007-16	121-1100	1 RD Bead Type
Stem Seal	Int 2007-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh 2007-16	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2007-16	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh 2007-16	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

(Cont'd) **LEXUS / PASSENGER CAR OR TRUCK**

4663cc, (4.7L), DOHC, GAS, FI, 32 Valve, "Toyota 2UZFE"
1998-09 V8 285 CID

LEX-2UZFE 20
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-09	13273	1.358 Head Diameter
	Exh	1998-09	13274S	1.142 Head Diameter,Stellite Face
Keeper	Both	1998-09	121-1100	1 RD Bead Type
Stem Seal	Both	1998-09	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1998-09	140-8584	0.2175 I.D.,1.360 Length,0.4073 O.D.
	Exh	1998-09	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.
Head Saver Shim		1998-09	230-2195L	Left,New Hgt. - 4.805 - 4.808; Min. Hgt. - N/A
		1998-09	230-2195R	Right,New Hgt. - 4.805 - 4.808; Min. Hgt. - N/A

4969cc, (5.0L), DOHC, GAS, FI, 32 Valve, 2URGSE
2008-16 V8 303 CID

LEX-2URGSE 21
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2008-16	121-1100	1 RD Bead Type
Stem Seal	Int	2008-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-16	122-1282	Positive Type,Viton Material,Metal Clad Style

4968cc, (5.0L), DOHC, ELECTRIC/GAS, FI, 32 Valve, 2URFSE
2008-16 V8 303 CID

LEX-2URFSE 22
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2008-16	13087	1.260 Head Diameter
Keeper	Both	2008-16	121-1100	1 RD Bead Type
Stem Seal	Int	2008-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-16	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2008-16	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2008-16	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

5663cc, (5.7L), DOHC, GAS, FI, 32 Valve, 3URFE "Toyota i-Force"
2008-16 V8 345 CID

LEX-3URFE 23
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-15	13086	1.496 Head Diameter
	Exh	2008-16	13087	1.260 Head Diameter
Keeper	Both	2008-16	121-1100	1 RD Bead Type
Stem Seal	Int	2008-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-16	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2008-16	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2008-16	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

MACK / HEAVY DUTY

Engine	Models	Line No.
6 Cylinder		
209.5 C.I., (3.4L), EN-11 12 Valve		1
226 C.I., (3.7L), EN-12 12 Valve		2
661 C.I., (10.8L), MP7, 24 VALVE, SOHC, TURBO, DIESEL		3
672 C.I., (11.0L), E6350-2 Valve Diesel		4
672 C.I., (11.0L), E6350-4 Valve Diesel		5
672 C.I., (11.0L), END673, ENDT673, ET673, ETA673 "12 Valve" Diesel & Turbo Diesel		6
672 C.I., (11.0L), ENDT675, ETSX675 "12 Valve" Diesel		7

MACK / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
6 Cylinder		
672 C.I., (11.0L), ENDT676, ETSX676 "12 Valve"		8
707 C.I., (11.6L), END707, END711 "12 Valve"		9
707 C.I., (11.6L), E9 Diesel 12 Valve		10
707 C.I., (11.6L), EM9 Diesel 12 Valve		11
672 C.I., (12.0L), E7-4 Valve Diesel PLN Engines		12
672 C.I., (12.0L), E7-ETECH & ASET 4 Valve Diesel		13
780 C.I., (12.8L), MP8, 24 VALVE, SOHC, TURBO, DIESEL		14
8 Cylinder		
864 C.I., (14.2L), EN-864 Diesel		15

1 209.5 C.I., (3.4L), EN-11 12 Valve **EN11**
L6 209.5 CID **BORE - 80.9mm/3.1875"**

PART	PART NO.	NOTES
Valve	Exh 00210	1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh 121-1003	1 SQ Bead Type

2 226 C.I., (3.7L), EN-12 12 Valve **EN12**
L6 226 CID **BORE - 84.07mm/3.3125"**

PART	PART NO.	NOTES
Valve	Exh 00210	1.328 Head Diameter, 1 Groove, W/ Rotator
Keeper	Exh 121-1003	1 SQ Bead Type

3 661 C.I., (10.8L), MP7, 24 VALVE, SOHC, TURBO, DIESEL **MP7**
L6 661 CID **BORE - 123.0mm/4.8425"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1658E-1C Exh SB1579E-1C	1.6585 O.D., 1.300R I.D., 0.2880 Depth, OEM # 20737849 1.5775 O.D., 1.210R I.D., 0.2525 Depth, OEM # 20732758
Valve	Int 13375S Exh 13376S	1.575 Head Diameter, Inconel, Stellite Face, OEM # 20737856 1.496 Head Diameter, Stellite Face, OEM # 20564020, 21430918
Keeper	Both 121-1024	3 RD Bead Type, OEM # 20510747
Stem Seal	Both 122-1469	Positive Type, Viton Material, Metal Clad Style, OEM # 20864662, 21990221
Guide	Both 140-3157	0.3157 I.D., 3.285 Length, 0.5905 O.D., OEM # 20904074, 20905400, 20919484
Spring	Both 160-1619 160-1620	2.765 Length, OEM # 3183211; Inner 3.035 Length, OEM # 3183210, 21310068; Outer
Injector Tubes and Components	240-1046 240-1046R 240-1053	Injector Tube, OEM # 3183368, 21098621, 21351717, 85104134, 85124276; NOTE: Early Copper, Check Casting To Confirm Material. O-Ring, Black, OEM # 3165747, 20536487 Injector Tube, OEM # 21401136, 85137065; NOTE: Late Stainless Steel; (Use W/ 240-1046R O-Ring)

4 672 C.I., (11.0L), E6350-2 Valve Diesel **E6350-2V**
L6 672 CID **BORE - 123.73mm/4.875"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2444E-1 Exh SB2088E-1	2.444 O.D., 2.046 I.D., 0.2990 Depth, +15, +30 & +62 O/S Available, OEM # 13GC2234P1 2.088 O.D., 1.692 I.D., 0.2990 Depth, +15 & +30 O/S Available, OEM # 13GC2247P1
Valve	Int 01415S	2.245 Head Diameter, Stellite Face, OEM # 690GC2193, 2 Valve Head, Late Style, W/ .137 Wide Lock Groove

(Cont'd) MACK / HEAVY DUTY**672 C.I., (11.0L), E6350-2 Valve Diesel**
L6 672 CID**E6350-2V 4**
BORE - 123.73mm/4.875" (cont.)

PART		PART NO.	NOTES
Valve	Exh	01446	1.889 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC337A, 2 Valve Head, Late Style, W/.137 Wide Lock Groove
		21446	1.889 Head Diameter,Alternative Austenitic Material,2 Valve Head, Late Style, W/.137 Wide Lock Groove
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 54GC126, W/ .137 Wide Groove
Stem Seal	Exh	122-1322	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC279, Late Style
Guide	Both	140-1810	0.5015 I.D.,3.500 Length,0.6886 O.D.,OEM # 714GB1309, For Use W/ Valve # 01415S & 01446
		140-7592	0.4940 I.D.,3.500 Length,0.6884 O.D.,OEM # 714GB210P2
Spring	Both	160-1170	3.030 Length,Inner, Late Style OEM # 575GC31. Can Be Used To Replace Early Style OEM # 575GC172. W/O Stem Seal. 0.762 I.D.
		160-1171	3.543 Length,Outer, Late Style OEM # 575GC1100. Can Be Used To Replace Early Style OEM # 575GC173. W/O Stem Seal, 1.576 I.D.
		160-1295	3.036 Length,OEM # 575GC172, Inner W/ Stem Seal, .794 I.D.
		160-1296	3.468 Length,OEM # 575GC146, Outer, W/ Stem Seal. 1.206 I.D.
Rotator	Both	161-1023	OEM # 722GC226

672 C.I., (11.0L), E6350-4 Valve Diesel
L6 672 CID**E6350-4V 5**
BORE - 123.73mm/4.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1831E-1	1.831 O.D.,1.555 I.D.,0.2800 Depth,+5, +15 & +30 O/S Available,OEM # 13GC2251P1, Use W/ 30 Degree Intake Valve (01571S)
	Exh	SB1692E-1N	1.693 O.D.,1.430 I.D.,0.2480 Depth,+5, +15 & +30 O/S Available,OEM # 13GC2264P1
Valve	Int	01571S	1.694 Head Diameter,Stellite Face,4 Valve Head, Late Style W/ .3725 Stem. Use W/ 30 degree, SB1831E-1 Intake Seat. Valve Can Replace $\frac{7}{16}$ Stem OEM # 688GC2373 & 690GC2200. The Manufacturer Recommends Replacement of The Valves, Guides, Spring Retainers & Keepers W/ $\frac{3}{8}$ Components.
		13307S	1.694 Head Diameter,Stellite Face,OEM # 690GC410, 690GC425, 690GC432; NOTE: 7.051 Overall Length W/20 Degree Seat; 1.694 Head dia; Note With Letter "J" In Head
	Exh	01570	1.573 Head Diameter,Recommended OEM Nickel Base Inconel Material,W/.3715 Stem. This Valve Can Be Used To Replace Early $\frac{7}{16}$ Stem OEM # 688GC2373 & 690GC2200. The Manufacturer Recommends Replacement of The Valves, Guides, Spring Retainers And Keepers With $\frac{3}{8}$ Components.
		01750	1.573 Head Diameter,Recommended OEM Nickel Base Inconel Material,4 Valve Head, 6.887 Overall Length, W/ Letter " Y " In Head, OEM # 688GC2389
		21570	1.573 Head Diameter,Alternative Austenitic Material,W/.3715 Stem. This Valve Can Be Used To Replace Early $\frac{7}{16}$ Stem. The Manufacturer Recommends Replacement of The Valves, Guides, Spring Retainers And Keepers With $\frac{3}{8}$ Components.
		21750	1.573 Head Diameter,Alternative Austenitic Material,4 Valve Head, 6.887 Overall Length
Keeper	Both	121-1094	1 SQ Bead Type,OEM # 54GC25, 20705437
Stem Seal	Both	122-1274	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC296, Use W/ Valve Guide # 140-8010
Guide	Both	140-8007	0.4313 I.D.,3.146 Length,0.6884 O.D.,Unfinished I.D., Ream To Size
		140-8008	0.4375 I.D.,3.146 Length,0.6884 O.D.,OEM # 714GB217P2, Use W/ Early Style .4375 Stem Valve
		140-8010	0.3750 I.D.,3.155 Length,0.6884 O.D.,OEM # 714GB222P2, Use W/ Late Style .3715 Stem Valves.

MACK / HEAVY DUTY (Cont'd)

5 672 C.I., (11.0L), E6350-4 Valve Diesel E6350-4V
 (cont.) L6 672 CID BORE - 123.73mm/4.875"

PART	PART NO.	NOTES
Guide	Both 140-8105	0.4375 I.D.,3.406 Length,0.6886 O.D.,OEM # 714GB26P2
Spring	Both 160-1189	2.710 Length,OEM # 575GC213
Injector Tubes and Components	240-1020	Injector Tube,OEM # 12GC212A

6 672 C.I., (11.0L), END673, ENDT673, ET673, ETA673 "12 Valve" Diesel & Turbo Diesel END673
 L6 672 CID BORE - 123.73mm/4.875"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2444E-1	2.444 O.D.,2.046 I.D.,0.2990 Depth,+15, +30 & +62 O/S Available,OEM # 13GC1239P1
	Exh SB2088E-1	2.088 O.D.,1.692 I.D.,0.2990 Depth,+15 & +30 O/S Available,OEM # 13GC1238P1
Valve	Int 01036S	2.245 Head Diameter,OEM # 690GC2187, 2 Valve Head, Early Style, W/.293 Wide Lock Groove
	Exh 01037	1.890 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC2325, 2 Valve Head, Early Style, W/.293 Wide Lock Groove
	21037	1.889 Head Diameter,Alternative Austenitic Material,2 Valve Head, Early Style, W/.293 Wide Lock Groove
Keeper	Both 121-1045	No Bead Bead Type,0.293 Wide Groove,OEM # 54GC19
Stem Seal	Exh 122-1322	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC279, Late Style
Guide	Both 140-1809	0.5000 I.D.,3.500 Length,0.6886 O.D.,Plain I.D.,OEM # 714-GB-1308-P2, For Use W/ Valve # 01036S & 01037
	140-7592	0.4940 I.D.,3.500 Length,0.6884 O.D.,OEM # 714GB210P2
	140-7903	0.5000 I.D.,3.500 Length,0.6886 O.D.,Spiral I.D. Version Of 140-1809
Spring	Both 160-1170	3.030 Length,Inner, Late Style OEM # 575GC31. Can Be Used To Replace Early Style OEM # 575GC172. W/O Stem Seal. 0.762 I.D.
	160-1171	3.543 Length,Outer, Late Style OEM # 575GC1100. Can Be Used To Replace Early Style OEM # 575GC173. W/O Stem Seal, 1.576 I.D.
	160-1295	3.036 Length,OEM # 575GC172, Inner W/ Stem Seal, .794 I.D.
	160-1296	3.468 Length,OEM # 575GC146, Outer, W/ Stem Seal. 1.206 I.D.
Injector Tubes and Components	240-1021	Injector Tube,OEM # 12GC129

7 672 C.I., (11.0L), ENDT675, ETSX675 "12 Valve" Diesel ENDT675
 L6 672 CID BORE - 123.73mm/4.875"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB2444E-1	2.444 O.D.,2.046 I.D.,0.2990 Depth,+15, +30 & +62 O/S Available,OEM # 13GC1239P1
	Exh SB2088E-1	2.088 O.D.,1.692 I.D.,0.2990 Depth,+15 & +30 O/S Available,OEM # 13GC1238P1
Valve	Int 01036S	2.245 Head Diameter,OEM # 690GC2187, 2 Valve Head, Early Style, W/.293 Wide Lock Groove
	01415S	2.245 Head Diameter,Stellite Face,OEM # 690GC2193, 2 Valve Head, Late Style, W/.137 Wide Lock Groove
	Exh 01037	1.890 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC2325, 2 Valve Head, Early Style, W/.293 Wide Lock Groove
	01446	1.889 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC337, 2 Valve Head, Late Style, W/.137 Wide Lock Groove
	21037	1.889 Head Diameter,Alternative Austenitic Material,2 Valve Head, Early Style, W/.293 Wide Lock Groove

(Cont'd) MACK / HEAVY DUTY**672 C.I., (11.0L), ENDT675, ETSX675 "12 Valve" Diesel**
L6 672 CID**ENDT675 7**
BORE - 123.73mm/4.875" (cont.)

PART		PART NO.	NOTES
Valve	Exh	21446	1.889 Head Diameter,Alternative Austenitic Material,2 Valve Head, Late Style, W/.137 Wide Lock Groove
Keeper	Both	121-1009 121-1045	1 SQ Bead Type,OEM # 54GC126, W/ .137 Wide Groove No Bead Bead Type,0.293 Wide Groove,OEM # 54GC19
Stem Seal	Exh	122-1322	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC279, Late Style
Guide	Both	140-1809	0.5000 I.D.,3.500 Length,0.6886 O.D.,Plain I.D.,OEM # 714-GB-1308-P2, For Use W/ Valve # 01036S & 01037
		140-1810	0.5015 I.D.,3.500 Length,0.6886 O.D.,OEM # 714GB1309, For Use W/ Valve # 01415S & 01446
		140-7592	0.4940 I.D.,3.500 Length,0.6884 O.D.,OEM # 714GB210P2
		140-7903	0.5000 I.D.,3.500 Length,0.6886 O.D.,Spiral I.D. Version Of 140-1809
Spring	Both	160-1170	3.030 Length,Inner, Late Style OEM # 575GC31. Can Be Used To Replace Early Style OEM # 575GC172. W/O Stem Seal. 0.762 I.D.
		160-1171	3.543 Length,Outer, Late Style OEM # 575GC1100. Can Be Used To Replace Early Style OEM # 575GC173. W/O Stem Seal, 1.576 I.D.
		160-1295	3.036 Length,OEM # 575GC172, Inner W/ Stem Seal, .794 I.D.
		160-1296	3.468 Length,OEM # 575GC146, Outer, W/ Stem Seal. 1.206 I.D.
Rotator	Both	161-1023	OEM # 722GC226, Use W/.137 Keeper Groove
Injector Tubes and Components		240-1021	Injector Tube,OEM # 12GC129

672 C.I., (11.0L), ENDT676, ETSX676 "12 Valve"
L6 672 CID**EN676 8**
BORE - 123.73mm/4.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2444E-1	2.444 O.D.,2.046 I.D.,0.2990 Depth,+15, +30 & +62 O/S Available,OEM # 13GC1239P1
	Exh	SB2088E-1	2.088 O.D.,1.692 I.D.,0.2990 Depth,+15 & +30 O/S Available,OEM # 13GC1238P1
Valve	Int	01415S	2.245 Head Diameter,Stellite Face,OEM # 690GC331A, 2 Valve Head, Late Style, W/.137 Wide Lock Groove
	Exh	01446	1.889 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC2364, 2 Valve Head, Late Style, W/.137 Wide Lock Groove
		21446	1.889 Head Diameter,Alternative Austenitic Material,2 Valve Head, Late Style, W/.137 Wide Lock Groove
Keeper	Both	121-1009	1 SQ Bead Type,OEM # 54GC126, W/ .137 Wide Groove
Stem Seal	Exh	122-1322	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC279, Late Style
Guide	Both	140-1809	0.5000 I.D.,3.500 Length,0.6886 O.D.,Plain I.D.,OEM # 714-GB-1308-P2
		140-1810	0.5015 I.D.,3.500 Length,0.6886 O.D.,OEM # 714GB1309, For Use W/ Valve # 01415S & 01446
		140-7592	0.4940 I.D.,3.500 Length,0.6884 O.D.,OEM # 714GB210P2
		140-7903	0.5000 I.D.,3.500 Length,0.6886 O.D.,Spiral I.D. Version Of 140-1809
Rotator	Both	161-1023	OEM # 722GC226
Injector Tubes and Components		240-1021	Injector Tube,OEM # 12GC129

707 C.I., (11.6L), END707, END711 "12 Valve"
L6 707 CID**END711 9**
BORE - 126.9mm/5.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2444E-1	2.444 O.D.,2.046 I.D.,0.2990 Depth,+15, +30 & +62 O/S Available,OEM # 13GC2234P1
	Exh	SB2088E-1	2.088 O.D.,1.692 I.D.,0.2990 Depth,+15 & +30 O/S Available,OEM # 13GC2233

MACK / HEAVY DUTY (Cont'd)

9 707 C.I., (11.6L), END707, END711 "12 Valve" END711
 (cont.) L6 707 CID BORE - 126.9mm/5.00"

PART		PART NO.	NOTES
Valve	Int	01036S	2.245 Head Diameter, OEM # 690GC2187, 2 Valve Head ,Early Style, W/.293 Wide Lock Groove
	Exh	01037	1.890 Head Diameter, Recommended OEM Nickel Base Inconel Material, OEM # 688GC2325, 2 Valve Head ,Early Style, W/.293 Wide Lock Groove
		21037	1.889 Head Diameter, Alternative Austenitic Material, 2 Valve Head ,Early Style, W/.293 Wide Lock Groove
Keeper	Both	121-1045	No Bead Bead Type, 0.293 Wide Groove, OEM # 54GC19
Stem Seal	Exh	122-1322	Positive Type, Viton Material, Metal Clad Style, OEM # 446GC279, Late Style
Guide	Both	140-1809	0.5000 I.D., 3.500 Length, 0.6886 O.D., Plain I.D., OEM # 714-GB-1308-P2, For Use W/ Valve # 01036S & 01037
		140-7592	0.4940 I.D., 3.500 Length, 0.6884 O.D., OEM # 714GB210P2
		140-7903	0.5000 I.D., 3.500 Length, 0.6886 O.D., Spiral I.D. Version Of 140-1809
Spring	Both	160-1170	3.030 Length, Inner, Late Style OEM # 575GC31. Can Be Used To Replace Early Style OEM # 575GC172. W/O Stem Seal. 0.762 I.D.
		160-1171	3.543 Length, Outer, Late Style OEM # 575GC1100. Can Be Used To Replace Early Style OEM # 575GC173. W/O Stem Seal, 1.576 I.D.
		160-1295	3.036 Length, OEM # 575GC172, Inner W/ Stem Seal, .794 I.D.
		160-1296	3.468 Length, OEM #575GC146, Outer, W/ Stem Seal. 1.206 I.D.

10 707 C.I., (11.6L), E9 Diesel 12 Valve E9
 L6 707 CID BORE - 126.9mm/5.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1841E-1	1.841 O.D., 1.560 I.D., 0.2510 Depth, OEM # 13GC2248P1
	Exh	SB1725E-2N	1.725 O.D., 1.460 I.D., 0.2510 Depth, OEM # 13GC2226
Valve	Int	01573S	1.771 Head Diameter, Stellite Face, OEM # 690-GC-339
	Exh	01572	1.654 Head Diameter, Inconel, OEM # 688-GC-339
Guide	Both	140-8007	0.4313 I.D., 3.146 Length, 0.6884 O.D., Unfinished I.D., Ream To Size
		140-8010	0.3750 I.D., 3.155 Length, 0.6884 O.D., Use W/ .3715 Stem Valves.
		140-8105	0.4375 I.D., 3.406 Length, 0.6886 O.D.
Spring	Both	160-1189	2.710 Length, OEM # 575GC213

11 707 C.I., (11.6L), EM9 Diesel 12 Valve EM9
 L6 707 CID BORE - 126.9mm/5.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1841E-1	1.841 O.D., 1.560 I.D., 0.2510 Depth, OEM # 13GC2248P1
	Exh	SB1725E-2N	1.725 O.D., 1.460 I.D., 0.2510 Depth, OEM # 13GC2226
Valve	Int	01573S	1.771 Head Diameter, Stellite Face, OEM # 690-GC-339
	Exh	01572	1.654 Head Diameter, Inconel, OEM # 688-GC-339
Guide	Both	140-8007	0.4313 I.D., 3.146 Length, 0.6884 O.D., Unfinished I.D., Ream To Size
		140-8010	0.3750 I.D., 3.155 Length, 0.6884 O.D., Use W/ .3715 Stem Valves.
		140-8105	0.4375 I.D., 3.406 Length, 0.6886 O.D.
Spring	Both	160-1189	2.710 Length, OEM # 575GC213

12 672 C.I., (12.0L), E7-4 Valve Diesel PLN Engines E7_4V-PLN
 L6 728 CID BORE - 123.86mm/4.876"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1831E-1	1.831 O.D., 1.555 I.D., 0.2800 Depth, +5, +15 & +30 O/S Available, OEM # 13GC2251P1, 30 Degree
	Exh	SB1692E-1N	1.693 O.D., 1.430 I.D., 0.2480 Depth, +5, +15 & +30 O/S Available, OEM # 13GC2264P1, 30 Degree

(Cont'd) MACK / HEAVY DUTY**672 C.I., (12.0L), E7-4 Valve Diesel PLN Engines**

L6 728 CID

E7_4V-PLN 12

BORE - 123.86mm/4.876" (cont.)

PART		PART NO.	NOTES
Valve	Int	01571S	1.694 Head Diameter,Stellite Face,OEM # 688GC2373 & 690GC2210; NOTE: Late Style W/.3725 Stem, W/ 30 degree, This Valve Can Replace 7/16 Stem, The Mfg. Recommends Replacement of The Valves, Guides, Spring Retainers & Keepers W/ 3/8 Components.
	Exh	01570	1.573 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC2378; NOTE: 6.867 Overall Length, W/.3715 Stem Dia. This Valve Can Be Used To Replace Early 7/16 Stem. The Mfg. Recommends Replacement of The Valves, Guides, Spring Retainers And Keepers With 3/8 Components.
		01750	1.573 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC2389; NOTE: 6.887 Overall Length, W/ Letter " Y " In Head, 30 Degree
		21570	1.573 Head Diameter,Alternative Austenitic Material,6.867 Overall Length, W/.3715 Stem Dia. This Valve Can Be Used To Replace Early 7/16 Stem. The Mfg. Recommends Replacement of The Valves, Guides, Spring Retainers And Keepers With 3/8 Components.
		21750	1.573 Head Diameter,Alternative Austenitic Material,6.887 Overall Length
Keeper	Both	121-1094	1 SQ Bead Type,OEM # 54GC25, 20705437
Stem Seal	Both	122-1274	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC296, 446GC328
Guide	Both	140-8007	0.4313 I.D.,3.146 Length,0.6884 O.D.,Unfinished I.D., Ream To Size
		140-8008	0.4375 I.D.,3.146 Length,0.6884 O.D.,OEM # 714GB217P2, Use W/ Early Style 7/16 Stem Valve
		140-8010	0.3750 I.D.,3.155 Length,0.6884 O.D.,OEM # 714GB3103P2, Use W/ Late Style 3/8 Stem Valves
		140-8105	0.4375 I.D.,3.406 Length,0.6886 O.D.,OEM # 714GB26P2
Spring	Exh	160-1624	2.940 Length,OEM # 575GC35, 575GC36, 20706558; NOTE: W/ Stealth , Use With Lower Rotator 161-1052
	Both	160-1189	2.710 Length,OEM # 575GC213; NOTE: Both W/O Stealth, Intake ONLY W/Stealth, Use With Lower Rotator 722GC235
Rotator	Exh	161-1052	OEM # 722GC313A, 722GC314, 25100204; NOTE: W/Stealth, Lower Spring Rotator For Use W/ Spring OEM # 575GC35, 575GC36
	Both	161-1074	Retainer,OEM# 25502378 Note: Replaces Early Castings Using Upper Rotator; Used W/ Lower Rotators For Single & Dual Springs
Injector Tubes and Components		240-1020	Injector Tube,OEM # 12GC212A

672 C.I., (12.0L), E7-ETECH & ASET 4 Valve Diesel

L6 728 CID

E7-ETECH 13

BORE - 123.86mm/4.876"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1831E-2	1.831 O.D.,1.550 I.D.,0.2530 Depth,+5, +15 & +30 O/S Available,OEM # 13GC38, 20706194, 20 Degree
	Exh	SB1692E-1N	1.693 O.D.,1.430 I.D.,0.2480 Depth,+5, +15 & +30 O/S Available,OEM # 13GC2264P1, 30 Degree
Valve	Int	01910S	1.694 Head Diameter,Stellite Face,OEM # 690GC417, 690GC411; NOTE: 6.956 Overall Length, 20 Degree
		13307S	1.694 Head Diameter,Stellite Face,OEM # 690GC410, 690GC425, 690GC432; NOTE: 7.051 Overall Length W/20 Degree Seat; 1.694 Head dia; Note With Letter "J" In Head
	Exh	02095	1.573 Head Diameter,Recommended OEM Nickel Base Inconel Material,OEM # 688GC344, 20706223; NOTE: 6.992 Overall Length, 30 Degree
		22095	1.573 Head Diameter,Alternative Austenitic Material,6.992 Overall Length, 30 Degree
Keeper	Both	121-1094	1 SQ Bead Type,OEM # 54GC25, 20705437

MACK / HEAVY DUTY (Cont'd)

13 672 C.I., (12.0L), E7-E TECH & ASET 4 Valve Diesel E7-E TECH
(cont.) L6 728 CID BORE - 123.86mm/4.876"

PART		PART NO.	NOTES
Stem Seal	Both	122-1274	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC328, Use with 140-8010 Guide
		122-1361	Positive Type,Viton Material,Metal Clad Style,OEM # 446GC332,25633189, "ASET" Version, Use W/ 140-3043 Valve Guide
Guide	Both	140-3043	0.3750 I.D.,3.110 Length,0.6884 O.D.,OEM # 714GB3113A, "ASET" Version, Use W/ 122-1361 Stem Seal
		140-8010	0.3750 I.D.,3.155 Length,0.6884 O.D.,OEM # 714GB3103P2 & 714GB3107P2, Use with Single Spring
Spring	Both	160-1466	2.875 Length,OEM # 575GC1115; NOTE: Inner For Dual Spring Used W/ Outer Spring 575GC35 & 575GC36
		160-1624	2.940 Length,OEM # 575GC35, 575GC36, 20706558; NOTE: W/ Single Spring & Used As Outer W/ Dual Spring Set Up
Rotator	Both	161-1052	OEM # 722GC313A, 722GC314, 25100204; NOTE: Lower Spring Rotator For Single Spring Set Up Only
		161-1056	OEM # 722GC320; NOTE: Lower Spring Rotator For Dual Spring Set Up Only
		161-1074	Retainer,OEM# 25502378 Note: Replaces Early Castings Using Upper Rotator; Used W/ Lower Rotators For Single & Dual Springs
Injector Tubes and Components		240-1023	Injector Tube,OEM # 12GC412, ASET Engine

14 780 C.I., (12.8L), MP8, 24 VALVE, SOHC, TURBO, DIESEL MP8
L6 780 CID BORE - 131.0mm/5.160"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1776E-1C	1.7765 O.D.,1.340R I.D.,0.2975 Depth,OEM # 2074084; NOTE: With 0.2975" Depth
	Exh	SB1697E-2	1.6955 O.D.,1.300R I.D.,0.2950 Depth,OEM # 20530103; NOTE: With 0.2950" Depth
Valve	Int	13377S	1.654 Head Diameter,Inconel, Stellite Face,OEM # 20740798
	Exh	13378S	1.575 Head Diameter,Stellite Face,OEM # 20768519
Keeper	Both	121-1024	3 RD Bead Type,OEM # 20510747
Stem Seal	Both	122-1469	Positive Type,Viton Material,Metal Clad Style,OEM # 20864662, 21990221
Guide	Both	140-3157	0.3157 I.D.,3.285 Length,0.5905 O.D.,OEM # 20904074, 20905400, 20919484
Spring	Exh	160-1619	2.765 Length,OEM # 3183211; NOTE: Inner Spring For Exhaust
	Both	160-1620	3.035 Length,OEM # 3183210, 21310068; Single Spring For Intake, Outer For Exhaust
Injector Tubes and Components		240-1046	Injector Tube,OEM # 3183368, 21098621, 85104134, 85124276; NOTE: Early Copper, Check Casting To Confirm Material; Does Not Use Internal Washer
		240-1046R	O-Ring, Black,OEM # 3165747, 20536487
		240-1052	Injector Tube,OEM # 20981856, 21274700, 21351717, 85125557; NOTE: Late Copper, Check Casting To Confirm Material; This Sleeve Requires The Use Of An Internal Washer OEM # 21261987; (Use W/ 240-1046R O-Ring)
		240-1053	Injector Tube,OEM # 21401136, 85137065; NOTE: Late Stainless Steel; (Use W/ 240-1046R O-Ring)

15 864 C.I., (14.2L), EN-864 Diesel EN864
V8 864 CID BORE - 126.9mm/5.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2444E-1	2.444 O.D.,2.046 I.D.,0.2990 Depth,+15, +30 & +62 O/S Available,OEM # 13GC2234P1

864 C.I., (14.2L), EN-864 Diesel
V8 864 CID

EN864 **15**
BORE - 126.9mm/5.00" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB2088E-1	2.088 O.D.,1.692 I.D.,0.2990 Depth,+15 & +30 O/S Available,OEM # 13GC2247P1
Spring	Both	160-1170	3.030 Length,Inner, Late Style OEM # 575GC31. Can Be Used To Replace Early Style OEM # 575GC172. W/O Stem Seal. 0.762 I.D.
		160-1171	3.543 Length,Outer, Late Style OEM # 575GC1100. Can Be Used To Replace Early Style OEM # 575GC173. W/O Stem Seal, 1.576 I.D.
		160-1295	3.036 Length,OEM # 575GC172, Inner W/ Stem Seal, .794 I.D.
		160-1296	3.468 Length,OEM # 575GC146, Outer, W/ Stem Seal. 1.206 I.D.

MASSEY FERGUSON / TRACTOR

Engine	Models	Line No.
3 Cylinder		
152 C.I., (2.5L), Perkins, A3.152, 6 Valve, Diesel		6
152 C.I., (2.5L), Perkins, G3.152, 6 Valve, Gas		7
152 C.I., (2.5L), Perkins, T3.152, 6 Valve, Turbo Diesel		8
152 C.I., (2.5L), Perkins, 3.152.4, 6 Valve, Diesel		9
152 C.I., (2.5L), Perkins, D3.152, 6 Valve, Diesel		10
201 C.I., (3.3L), Perkins, 1103A-33, 6 Valve, Diesel "1100 Series"	1100 Series	12
4 Cylinder		
107 C.I., (1.8L), Perkins, 4.108, 8 Valve, Diesel		1
120 C.I., (2.0L), Continental, Z120, 8 Valve, Gas		2
129 C.I., (2.1L), Continental, Z129, 8 Valve, Gas		3
134 C.I., (2.2L), Continental, Z134, 8 Valve, Gas		4
145 C.I., (2.4L), Continental, Z145, 8 Valve, Gas		5
176 C.I., (2.9L), Continental, G176, 8 Valve, Gas		11
203 C.I., (3.3L), Perkins, 4.203 / D4.203, 8 Valve, Diesel		13
203 C.I., (3.3L), Perkins, 4.203.2, 8 Valve		14
212 C.I., (3.5L), Perkins, 4.212, 8 Valve, Diesel		15
236 C.I., (3.9L), Perkins, 4.236, 8 Valve, Diesel		16
236 C.I., (3.9L), Perkins, G4.236, 8 Valve, Gas		17
236 C.I., (3.9L), Perkins, C4.236, 8 Valve, Diesel		18
236 C.I., (3.9L), Perkins, A4.236, 8 Valve, Diesel		19
236 C.I., (3.9L), Perkins, T4.236, 8 Valve, Turbo, Diesel		20
243 C.I., (4.0L), Perkins, 4.401 / T4.401, 8 Valve, Turbo & Naturally Aspirated, Diesel		21
243 C.I., (4.0L), Perkins, 1004.40, 8 Valve, Diesel		22
243 C.I., (4.0L), Perkins, 1004.40T, 8 Valve, Turbo, Diesel		23
248 C.I., (4.2L), Perkins, 4.248, 8 Valve, Diesel		24
248 C.I., (4.2L), Perkins, 4.248.2, 8 Valve, Diesel		25
258 C.I., (4.2L), Perkins, 1004.42 / 4.421, 8 Valve, Diesel		26
318 C.I., (5.2L), Perkins, 4.318 / A4.318 / 4.318.2, 8 Valve, Diesel		27
6 Cylinder		
354 C.I., (5.8L), Perkins, 6.354.1, 12 Valve, Diesel		28

MASSEY FERGUSON / TRACTOR (Cont'd)

Engine	Models	Line No.
6 Cylinder		
354 C.I., (5.8L), Perkins, 6.354.2, 12 Valve, Diesel		29
354 C.I., (5.8L), Perkins, 6.354, 12 Valve, Diesel		30
354 C.I., (5.8L), Perkins, T6.354, 12 Valve, Turbo, Diesel		31
354 C.I., (5.8L), Perkins, T6.354.4, 12 Valve, Turbo, Diesel		32
354 C.I., (5.8L), Perkins, 6.354.4, 12 Valve, Diesel		33
365 C.I., (6.0L), Perkins, T6.601 / 6.601, 12 Valve, Turbo & Naturally Aspirated, Diesel		34
365 C.I., (6.0L), Perkins, 1006.60, 12 Valve, Diesel		35
365 C.I., (6.0L), Perkins, 1006.60T, 12 Valve, Turbo, Diesel		36
372 C.I., (6.1L), Perkins, 6.372, 12 Valve, Diesel		37
372 C.I., (6.1L), Perkins, 6.372.4, 12 Valve, Diesel		38
403 C.I., (6.6L), Perkins, 1106-E60TA, 12 Valve, Diesel "1100 Series"		39

1 107 C.I., (1.8L), Perkins, 4.108, 8 Valve, Diesel **MF-4.108**
L4 107 CID **BORE - 79.4mm/3.125"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1562-7 Exh SB1312-4	1 ⁹ / ₁₆ O.D., 1 ¹ / ₄ I.D., 1/4 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth 1 ⁵ / ₁₆ O.D., 1.000 I.D., 1/4 Depth, NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int 13099 Exh 13100	1.412 Head Diameter, OEM # 910060, 910064 1.190 Head Diameter, OEM # 910061
Keeper	Both 121-1051	1 RD Bead Type, OEM #'S 230001, 731155M1
Stem Seal	Both 122-1412	Umbrella Type, Viton Material, Umbrella Style
Guide	Int 140-3099 Exh 140-1956	0.3148 I.D., 2.127 Length, 0.5025 O.D., OEM # 3313E001, 732921M2 0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM #'S 33261723, 732445M1
Spring	Both 160-1540 160-1541	2.050 Length, Inner, OEM # 780143, 732104M1 2.418 Length, Outer, OEM # 780144, 732105M1

2 120 C.I., (2.0L), Continental, Z120, 8 Valve, Gas **MF-Z120**
L4 120 CID **BORE - 80.96mm/3.1875"**

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1125-1	1 ¹ / ₈ O.D., 7/8 I.D., 7/32 Depth
Valve	Both 00234 00489	1.015 Head Diameter, Drilled Stem, OEM #'S 830726M91, 1751518M1, 1751519M1 1.015 Head Diameter, 1.015 Head Diameter, W/Rotator & Late Style Valve Keeper
Keeper	Both 121-1010 121-1011	PIN Bead Type, OEM # 18291A; Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130" 1 SQ Bead Type
Stem Seal	Both 322-1002	Positive Type, Teflon Material, All Teflon Style, OEM # 1750062M1; NOTE: Machine Guide To 0.531 O.D.
Guide	Both 140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D., OEM # 830490M1
Spring	Both 160-1401	2.063 Length, OEM # 21176A

3 129 C.I., (2.1L), Continental, Z129, 8 Valve, Gas **MF-Z129**
L4 129 CID **BORE - 82.55mm/ 3.25"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1375-4	1 ³ / ₈ O.D., 1 ¹ / ₈ I.D., 3/16 Depth

(Cont'd) MASSEY FERGUSON / TRACTOR**129 C.I., (2.1L), Continental, Z129, 8 Valve, Gas**

L4 129 CID

MF-Z129 **3**

BORE - 82.55mm/ 3.25" (cont.)

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1250-1	1¼ O.D., 1.000 I.D., 7/32 Depth
Valve	Int	00343	1.278 Head Diameter, Drilled Stem, OEM # 1750070M1
	Exh	00486	1.140 Head Diameter, 1 Groove, OEM # 1750072M1; NOTE: W/ Rotocap. New Design, Does Not Require Lash Cap
Keeper	Int	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Exh	121-1011	1 SQ Bead Type
Stem Seal	Both	322-1002	Positive Type, Teflon Material, All Teflon Style, OEM # 1750062M1; NOTE: Machine Guide To 0.531 O.D.
Guide	Both	140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D., OEM # 830490M1
Spring	Both	160-1401	2.063 Length, OEM # S 21176A, 840754M91

134 C.I., (2.2L), Continental, Z134, 8 Valve, Gas

L4 134 CID

MF-Z134 **4**

BORE - 85.725mm/3.346"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-4	1¾ O.D., 1⅛ I.D., 3/16 Depth
	Exh	SB1250-1	1¼ O.D., 1.000 I.D., 7/32 Depth
Valve	Int	00343	1.278 Head Diameter, Drilled Stem, OEM # 1750070M1
	Exh	00486	1.140 Head Diameter, 1 Groove, OEM # 1750072M1; W/ Rotocap. New Design, Does Not Require Lash Cap
Keeper	Int	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Exh	121-1011	1 SQ Bead Type
Stem Seal	Both	322-1002	Positive Type, Teflon Material, All Teflon Style, OEM # 1750062M1; NOTE: Machine Guide To 0.531 O.D.
Guide	Both	140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D., OEM # 830490M1
Spring	Both	160-1401	2.063 Length, OEM # 21176A

145 C.I., (2.4L), Continental, Z145, 8 Valve, Gas

L4 145 CID

MF-Z145 **5**

BORE - 85.725mm/3.346"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1375-4	1¾ O.D., 1⅛ I.D., 3/16 Depth
	Exh	SB1250-1	1¼ O.D., 1.000 I.D., 7/32 Depth
Valve	Int	00343	1.278 Head Diameter, Drilled Stem, OEM # 1750070M1
	Exh	00486	1.140 Head Diameter, 1 Groove, OEM # 1750072M1; W/ Rotocap. New Design, Does Not Require Lash Cap
Keeper	Int	121-1010	PIN Bead Type, Pin For Drilled Stem: Pin Length 0.5020"; Pin Diameter 0.130"
	Exh	121-1011	1 SQ Bead Type
Stem Seal	Both	322-1002	Positive Type, Teflon Material, All Teflon Style, OEM # 1750062M1; Machine Guide To 0.531 O.D.
Guide	Both	140-1717	0.3170 I.D., 1.813 Length, 0.5643 O.D., OEM # 830490M91
Spring	Both	160-1401	2.063 Length, OEM # 21176A

152 C.I., (2.5L), Perkins, A3.152, 6 Valve, Diesel

L3 152 CID

MF-A3.152 **6**

BORE - 91.44mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1⅝ O.D., 1⅝ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Universal Size Seat For Heads W/O Factory Installed Seat

MASSEY FERGUSON / TRACTOR (Cont'd)

6 152 C.I., (2.5L), Perkins, A3.152, 6 Valve, Diesel MF-A3.152
 (cont.) L3 152 CID BORE - 91.44mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1880E-1	1.880 O.D., 1 ¹³ / ₃₂ I.D., ⁷ / ₃₂ Depth, OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-1	1.681 O.D., 1-13/64 I.D., ⁵ / ₁₆ Depth, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter, OEM #'s 31431261, 731151M1
	Exh	00873	1.315 Head Diameter, OEM #'s 910002, 731152M1
Keeper	Both	121-1051	1 RD Bead Type, OEM #'s 230001, 735115M1
Stem Seal	Both	122-1212	Positive Type, Viton Material, Ring & Band Style, Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type, Teflon Material, All Teflon Style, From S/N C10001
Guide	Both	140-1956	0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM #'s 33261723, 732445M1
Spring	Both	160-1542	1.345 Length, OEM # 780007, 731153M1; NOTE: Inner Spring For Dual Spring Setup
		160-1543	1.836 Length, OEM # 780006, 731154M1; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

7 152 C.I., (2.5L), Perkins, G3.152, 6 Valve, Gas MF-G3.152
 L3 152 CID BORE - 91.478mm/3.6015"

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter, OEM # 31431741; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter, OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter, OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter, Stellite Face, OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
		13112	1.315 Head Diameter, OEM # 31431011, 31431991; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type, OEM # 230001, 731155M1
Guide	Both	140-3099	0.3148 I.D., 2.127 Length, 0.5025 O.D., OEM # 3313E001
Spring	Both	160-1542	1.345 Length, OEM # 780007, 731153M1; NOTE: Inner Spring For Dual Spring Setup
		160-1543	1.836 Length, OEM # 780006, 731154M1; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

8 152 C.I., (2.5L), Perkins, T3.152, 6 Valve, Turbo Diesel MF-T3.152
 L3 152 CID BORE - 91.478mm/3.6015"

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter, OEM # 31431741; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter, OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter, OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter, Stellite Face, OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
		13112	1.315 Head Diameter, OEM # 31431011, 31431991; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type, OEM # 230001, 731155M1
Guide	Int	140-3100	0.3148 I.D., 2.227 Length, 0.5025 O.D., OEM # 33261727, 745533M1
	Exh	140-1956	0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM # 33261723, 732445M1
Spring	Both	160-1542	1.345 Length, Inner, OEM # 780007, 731153M1

(Cont'd) **MASSEY FERGUSON / TRACTOR**

152 C.I., (2.5L), Perkins, T3.152, 6 Valve, Turbo Diesel MF-T3.152 **8**
L3 152 CID BORE - 91.478mm/3.6015" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1543	1.836 Length,Outer, OEM # 780006, 731154M1

152 C.I., (2.5L), Perkins, 3.152.4, 6 Valve, Diesel MF-3.152.4 **9**
L3 152 CID BORE - 91.478mm/3.6015"

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter,OEM # 31431741, 745534M1; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter,OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter,Stellite Face,OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991, 747581M1; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001, 731155M1
Guide	Int	140-3100	0.3148 I.D.,2.227 Length,0.5025 O.D.,OEM # 33261727, 745533M1
	Exh	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723, 732445M1
Spring	Both	160-1542	1.345 Length,Inner, OEM # 780007, 731153M1
		160-1543	1.836 Length,Outer, OEM # 780006, 731154M1

152 C.I., (2.5L), Perkins, D3.152, 6 Valve, Diesel MF-D3.152 **10**
L3 152 CID BORE - 91.44mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1880E-1	1.880 O.D.,1 ¹³ / ₃₂ I.D., ⁷ / ₃₂ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-1	1.681 O.D.,1-13/64 I.D., ⁵ / ₁₆ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter,OEM # 31431261, 31431281, 732811M1; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter,OEM # 31431681, 31431981, 739060M1; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431271, 31431591, 737640M1; NOTE: 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991, 747581M1; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001, 731155M1
Stem Seal	Both	122-1212	Positive Type,Viton Material,Ring & Band Style,Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type,Teflon Material,All Teflon Style,From S/N C10001
Guide	Both	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723, 732445M1
Spring	Both	160-1542	1.345 Length,OEM # 780007, 731153M1; NOTE: Inner Spring For Dual Spring Setup
		160-1543	1.836 Length,OEM # 780006, 731154M1; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

MASSEY FERGUSON / TRACTOR (Cont'd)

11 176 C.I., (2.9L), Continental, G176, 8 Valve, Gas

L4 176 CID

MF-G176

BORE - 90.8mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1437-3	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1348E-1N	1.348 O.D., 1.087 I.D., 0.2000 Depth, +10 O/S Available
Valve	Int	13105	1.328 Head Diameter, NOTE: Except LPG
	Exh	13106S	1.203 Head Diameter, Stellite Face, NOTE: Includes LPG
Guide	Both	140-1833	0.3432 I.D., 1.813 Length, 0.6575 O.D., OEM #'s 1019739M1, 830762M91
Spring	Both	160-1544	1.996 Length

12 201 C.I., (3.3L), Perkins, 1103A-33, 6 Valve, Diesel "1100 Series"

L3 201 CID

MF-1103A-33

BORE - 105mm/4.133"

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter, OEM # 3142H071
	Exh	13138	1.634 Head Diameter, OEM # 3142A151
Keeper	Both	121-1118	1 RD Bead Type, OEM # 3142W004
Guide	Both	140-3059	0.3555 I.D., 2.018 Length, 0.5135 O.D., OEM # 3313A012
Spring	Both	160-1569	1.729 Length, Conical, OEM # 3174A016; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type, OEM # 31434163, 740671M1

13 203 C.I., (3.3L), Perkins, 4.203 / D4.203, 8 Valve, Diesel

L4 203 CID

MF-4.203

BORE - 91.44mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1880E-1	1.880 O.D., 1 ¹³ / ₃₂ I.D., ⁷ / ₃₂ Depth, OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-1	1.681 O.D., 1-13/64 I.D., ⁵ / ₁₆ Depth, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter, OEM #'S 31431261, 731151M1, 31431281, 732811M1; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter, OEM # 31431681, 31431981, 739060M1; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter, OEM # 31431591, 910002, 737640M1; NOTE: 45 Degree Valve
		13112	1.315 Head Diameter, OEM # 31431011, 31431991, 746008M1; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type, OEM #'S 230001, 731155M1
Stem Seal	Both	122-1212	Positive Type, Viton Material, Ring & Band Style, Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type, Teflon Material, All Teflon Style, From S/N C10001
Guide	Int	140-3100	0.3148 I.D., 2.227 Length, 0.5025 O.D., OEM # 33261727, 745533M1
	Both	140-1956	0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM #'S 33261723, 732445M1
Spring	Both	160-1542	1.345 Length, Inner, OEM # 780007, 731153M1
		160-1543	1.836 Length, Outer, OEM # 780006, 731154M1

14 203 C.I., (3.3L), Perkins, 4.203.2, 8 Valve

L4 203 CID

MF-4.203.2

BORE - 91.44mm/3.60"

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter, OEM # 31431741; NOTE: 45 Degree Valve

(Cont'd) MASSEY FERGUSON / TRACTOR**203 C.I., (3.3L), Perkins, 4.203.2, 8 Valve**
L4 203 CIDMF-4.203.2 **14**
BORE - 91.44mm/3.60" (cont.)

PART		PART NO.	NOTES
Valve	Int	13103	1.535 Head Diameter,OEM # 31431681, 31431981, 745534M1; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter,Stellite Face,OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991, 746008M1; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM #S 230001, 731155M1
Guide	Int	140-3100	0.3148 I.D.,2.227 Length,0.5025 O.D.,OEM #S, 33261727, 745533M1
	Exh	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM #S 33261723, 732445M1
Spring	Both	160-1542	1.345 Length,Inner, OEM # 780007, 731153M1
		160-1543	1.836 Length,Outer, OEM # 780006, 731154M1

212 C.I., (3.5L), Perkins, 4.212, 8 Valve, Diesel
L4 212 CIDMF-4.212 **15**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve	Int	00883	1.744 Head Diameter,OEM #S 31431641, 739027M1
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108, 746543M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM# 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121, 735521M91
		160-1301	2.000 Length,Inner, OEM # 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

236 C.I., (3.9L), Perkins, 4.236, 8 Valve, Diesel
L4 236 CIDMF-4.236 **16**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve	Int	00883	1.744 Head Diameter,OEM #S 31431641, 739027M1
		01783	1.741 Head Diameter,OEM # 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #S 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #S 31745121, 735525M91
		160-1301	2.000 Length,Inner, OEM #S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

236 C.I., (3.9L), Perkins, G4.236, 8 Valve, Gas
L4 236 CIDMF-G4.236 **17**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1/8 O.D.,1/16 I.D.,7/32 Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1/16 O.D.,1/4 I.D.,7/32 Depth,Universal Size Seat For Heads W/O Factory Installed Seat

MASSEY FERGUSON / TRACTOR (Cont'd)

17 236 C.I., (3.9L), Perkins, G4.236, 8 Valve, Gas

MF-G4.236

(cont.) L4 236 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1681E-3	1.681 O.D., 1.251 I.D., 3/8 Depth, NOTE: Stepped I.D., OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D., 1.251 I.D., 3/8 Depth, NOTE: Stepped I.D., OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter, OEM #'S 31431871, 31431315, 735820M1, 741092M1
	Exh	01798	1.441 Head Diameter, OEM #'S 31431701, 739177M1
Keeper	Both	121-1018	1 RD Bead Type, OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM #'S 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length, OEM #'S 31745121, 735521M91; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup
		160-1301	2.000 Length, OEM #'S 31744131, 735525M91, NOTE: Inner
Lifter	Both	VL549	Mechanical Type, OEM # 31434163, 740671M1

18 236 C.I., (3.9L), Perkins, C4.236, 8 Valve, Diesel

MF-C4.236

L4 236 CID

BORE - 98-425mm/3.875"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter, OEM #'S 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type, OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM #'S 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length, Outer, OEM #'S 31745121, 735521M91
		160-1301	2.000 Length, Inner, OEM #'S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type, OEM # 31434163, 740671M1

19 236 C.I., (3.9L), Perkins, A4.236, 8 Valve, Diesel

MF-A4.236

L4 236 CID

BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 7/8 O.D., 1 1/16 I.D., 7/32 Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D., 1.589 I.D., 0.2825 Depth, OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 1/16 O.D., 1 1/4 I.D., 7/32 Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D., 1.251 I.D., 3/8 Depth, NOTE: Stepped I.D., OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00883	1.744 Head Diameter, OEM # 31431641, 739027M1
		01887	1.772 Head Diameter, OEM # 3142L071, 3637042M1
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
		01784	1.473 Head Diameter, OEM # 3142A051, 748309M1
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108, 736453M1
Stem Seal	Both	122-1015	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D.
		122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117, 3637041M1

(Cont'd) **MASSEY FERGUSON / TRACTOR**

236 C.I., (3.9L), Perkins, A4.236, 8 Valve, Diesel
L4 236 CID

MF-A4.236 **19**
BORE - 98.425mm/3.875" (cont.)

PART		PART NO.	NOTES
Guide	Int	140-1976	0.3755 I.D.,2.281 Length,0.6265 O.D.,OEM # 33261732
	Exh	140-1977	0.3755 I.D.,2.406 Length,0.6265 O.D.,OEM # 33261752
Spring	Both	160-1291	2.578 Length,Single Spring To S/N 236UA-19816, Outer From S/N 236UA-19817
		160-1301	2.000 Length,Inner, From S/N 236UA-19817

236 C.I., (3.9L), Perkins, T4.236, 8 Valve, Turbo, Diesel
L4 236 CID

MF-T4.236 **20**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM #S 31431315, 735820M1; NOTE: 45 Degree Valve
		13135	1.740 Head Diameter,OEM # 3142H002; NOTE: 30 Degree Valve
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #S 33173108, 736453M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #S 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #S 31745121, 735521M91
		160-1301	2.000 Length,Inner, OEM #S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

243 C.I., (4.0L), Perkins, 4.401 / T4.401, 8 Valve, Turbo & Naturally Aspirated, Diesel
L4 243 CID

MF-1004.40/40T **21**
BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve	Int	05001	1.693 Head Diameter,OEM # 3142D041, 45 Degree
		13136	1.693 Head Diameter,OEM # 3142L081, 30 Degree
	Exh	05002S	1.620 Head Diameter,Stellite Face,OEM # 3142D031, 45 Degree
		13219	1.616 Head Diameter,OEM # 3142D051, 30 Degree
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 2418M506, 2418M507
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 2418M505
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
Spring	Both	160-1498	1.847 Length,OEM # 3174P409
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

243 C.I., (4.0L), Perkins, 1004.40, 8 Valve, Diesel
L4 243 CID

MF-1004.40 **22**
BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM #S 3142L051, 748413M1
	Exh	01784	1.473 Head Diameter,OEM #S 3142A051, 748309M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #S 3343J002, 748420M1
Spring	Both	160-1496	1.672 Length,Inner, OEM # 31744133, 740465M1
		160-1497	1.809 Length,Outer, OEM # 31745122, 740467M1
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

MASSEY FERGUSON / TRACTOR (Cont'd)

23 243 C.I., (4.0L), Perkins, 1004.40T, 8 Valve, Turbo, Diesel
L4 243 CID

MF-1004.40T
BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter, OEM #'S 3142L071, 3637042M1, 45 Degree
		05000	1.772 Head Diameter, OEM # 3142L072, 30 Degree
	Exh	01784	1.473 Head Diameter, OEM #'S 3142A051, 749309M1
Keeper	Both	121-1018	1 RD Bead Type, OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM #'S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM #'S 3343J002, 748420M1, W/ Counterbore
Spring	Both	160-1496	1.672 Length, Inner, OEM # 31744133, 740465M1
		160-1497	1.809 Length, Outer, OEM # 31745122, 740467M1
Lifter	Both	VL549	Mechanical Type, OEM # 31434163, 740671M1

24 248 C.I., (4.2L), Perkins, 4.248, 8 Valve, Diesel
L4 248 CID

MF-4.248
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D., 1 $\frac{9}{16}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D., 1.589 I.D., 0.2825 Depth, OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D., 1.251 I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D., 1.251 I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00883	1.744 Head Diameter, OEM #'s 31431641, 739027M1
		01783	1.741 Head Diameter, OEM # 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type, OEM #'s 33173108, 763453M1
Stem Seal	Both	122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM #'s 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length, Outer, OEM #'S 31745121, 735521M91
		160-1301	2.000 Length, Inner, OEM #'S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type, OEM # 31434163, 740671M1

25 248 C.I., (4.2L), Perkins, 4.248.2, 8 Valve, Diesel
L4 248 CID

MF-4.248.2
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter, OEM #'S 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type, OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM #'S 3343F002, 3637056M1
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length, Outer, OEM #'S 31745121, 735521M91
		160-1301	2.000 Length, Inner, OEM #'S 31744131, 735525M91 Inner, OEM #'S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type, OEM # 31434163, 740671M1

(Cont'd) **MASSEY FERGUSON / TRACTOR**

258 C.I., (4.2L), Perkins, 1004.42 / 4.421, 8 Valve, Diesel
L4 258 CID

MF-1004.42 26
BORE - 103mm/4.0551"

PART		PART NO.	NOTES
Valve	Int	05003	1.772 Head Diameter,OEM # 3142H041
	Exh	05004	1.654 Head Diameter,OEM # 3142D061
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
Spring	Both	160-1499	1.674 Length,OEM # 3174P412
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

318 C.I., (5.2L), Perkins, 4.318 / A4.318 / 4.318.2, 8 Valve, Diesel
L4 318 CID

MF-4.318.2 27
BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve	Int	02167	1.845 Head Diameter,OEM #S 31431154, 738095M1
	Exh	02166	1.594 Head Diameter,OEM #S 31431671, 738944M91
Keeper	Both	121-1018	1 RD Bead Type,OEM #S 33173108, 736453M1
Guide	Both	140-7450	0.3750 I.D.,2.650 Length,0.6265 O.D.,OEM #S 33432532, 738094M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #S 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM #S 31744131, 735525M91

354 C.I., (5.8L), Perkins, 6.354.1, 12 Valve, Diesel
L6 354 CID

MF-6.354.1 28
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251 I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251 I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed
Valve	Int	01783	1.741 Head Diameter,OEM #S 31431315, 735820M1
	Exh	13111	1.440 Head Diameter,OEM # 31431931
Keeper	Both	121-1018	1 RD Bead Type,OEM #S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #S 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM #S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

354 C.I., (5.8L), Perkins, 6.354.2, 12 Valve, Diesel
L6 354 CID

MF-6.354.2 29
BORE - 98.476mm/3.8770"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108, 736453M1

MASSEY FERGUSON / TRACTOR (Cont'd)

29 354 C.I., (5.8L), Perkins, 6.354.2, 12 Valve, Diesel
(cont.) L6 354 CID

MF-6.354.2
BORE - 98.476mm/3.8770"

PART		PART NO.	NOTES
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM # 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

30 354 C.I., (5.8L), Perkins, 6.354, 12 Valve, Diesel
L6 354 CID

MF-6.354
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D.,1 $\frac{9}{16}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251 I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251 I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter,OEM #'S 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881, 741466M1, 747552M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #'S 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM #'S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

31 354 C.I., (5.8L), Perkins, T6.354, 12 Valve, Turbo, Diesel
L6 354 CID

MF-T6.354
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D.,1 $\frac{9}{16}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251 I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251 I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315, 735820M1
	Exh	00882A	1.440 Head Diameter
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108, 736453M1
Stem Seal	Both	122-1037	Umbrella Type,Poly Material,Umbrella Style
		122-1270	Umbrella Type,Viton Material,Umbrella Style
		122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002, 748420M1

(Cont'd) **MASSEY FERGUSON / TRACTOR**

354 C.I., (5.8L), Perkins, T6.354, 12 Valve, Turbo, Diesel MF-T6.354 **31**
L6 354 CID BORE - 98.425mm/3.875" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM # 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

354 C.I., (5.8L), Perkins, T6.354.4, 12 Valve, Turbo, Diesel MF-T6.354.4 **32**
L6 354 CID BORE - 98.476mm/3.8770"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315, 735820M1
	Exh	01784	1.473 Head Diameter,OEM # 3142A051, 748309M1
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM # 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

354 C.I., (5.8L), Perkins, 6.354.4, 12 Valve, Diesel MF-6.354.4 **33**
L6 354 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315, 735082M1
	Exh	01784	1.473 Head Diameter,OEM # 3142A051, 748309M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #S 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM #S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

365 C.I., (6.0L), Perkins, T6.601 / 6.601, 12 Valve, Turbo & Naturally Aspirated, Diesel MF-T6.601 **34**
L6 365 CID BORE - 100.0mm/3.937"

PART		PART NO.	NOTES
Valve	Int	05001	1.693 Head Diameter,OEM # 3142D041, 45 Degree
		13136	1.693 Head Diameter,OEM # 3142L081, 30 Degree
	Exh	05002S	1.620 Head Diameter,Stellite Face,OEM # 3142D031, 45 Degree
		13219	1.616 Head Diameter,OEM # 3142D051, 30 Degree
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 2418M506, 2418M507
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 2418M505
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
Spring	Both	160-1498	1.847 Length,OEM # 3174P409

365 C.I., (6.0L), Perkins, 1006.60, 12 Valve, Diesel MF-1006.60 **35**
L6 365 CID BORE - 100.0mm/3.937"

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM #S 3142L051, 748413M1
	Exh	01784	1.473 Head Diameter,OEM #S 3142A051, 748309M1

MASSEY FERGUSON / TRACTOR (Cont'd)

35 365 C.I., (6.0L), Perkins, 1006.60, 12 Valve, Diesel MF-1006.60
 (cont.) L6 365 CID BORE - 100.0mm/3.937"

PART		PART NO.	NOTES
Keeper	Both	121-1018	1 RD Bead Type,OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1
Spring	Both	160-1496	1.672 Length,Inner, OEM # 31744133, 740465M1
		160-1497	1.809 Length,Outer, OEM # 31745122, 740467M1
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

36 365 C.I., (6.0L), Perkins, 1006.60T, 12 Valve, Turbo, Diesel MF-1006.60T
 L6 365 CID BORE - 100.0mm/3.937"

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM # 3142L071, 3637042M1, 45 Degree NOTE: To ESN 557976X
		05000	1.772 Head Diameter,OEM # 3142L072, 30 Degree, NOTE: From ESN 557977X,
	Exh	01784	1.473 Head Diameter,OEM #'S 3142A051, 748390M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1, W/Counterbore
Spring	Both	160-1496	1.672 Length,Inner, OEM # 31744133, 740465M1
		160-1497	1.809 Length,Outer, OEM # 31745122, 740467M1
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

37 372 C.I., (6.1L), Perkins, 6.372, 12 Valve, Diesel MF-6.372
 L6 372 CID BORE - 97.993mm/3.8580"

PART		PART NO.	NOTES
Valve	Int	00883	1.744 Head Diameter,OEM #'S 31431641, 739027M1
	Exh	00882A	1.440 Head Diameter,OEM # 31431891, 3142A052
Keeper	Both	121-1018	1 RD Bead Type,OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #'S 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM #'S 31744131, 735525M91
Lifter	Both	VL549	Mechanical Type,OEM #31434163, 740671M1

38 372 C.I., (6.1L), Perkins, 6.372.4, 12 Valve, Diesel MF-6.372.4
 L6 372 CID BORE - 97.993mm/3.8580"

PART		PART NO.	NOTES
Valve	Int	00883	1.744 Head Diameter,OEM #'S 31431641, 739027M1
	Exh	01784	1.473 Head Diameter,OEM #'S 3142A051, 748309M1
Keeper	Both	121-1018	1 RD Bead Type,OEM #'S 33173108, 736453M1
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117, 3637041M1
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM #'S 3343F002, 736297M1
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM #'S 3343J002, 748420M1
Spring	Both	160-1291	2.578 Length,Outer, OEM #'S 31745121, 735521M1
		160-1301	2.000 Length,Inner, OEM #'S 31744131, 735525M91

(Cont'd) **MASSEY FERGUSON / TRACTOR**

372 C.I., (6.1L), Perkins, 6.372.4, 12 Valve, Diesel
L6 372 CID

MF-6.372.4 **38**
BORE - 97.993mm/3.8580" (cont.)

PART		PART NO.	NOTES
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

403 C.I., (6.6L), Perkins, 1106-E60TA, 12 Valve, Diesel "1100 Series" MF-1106-E60TA **39**
L6 403 CID BORE - 100.0mm/3.937"

PART		PART NO.	NOTES
Valve	Int Exh	13136 05002S	1.693 Head Diameter,OEM # 3142L081 1.620 Head Diameter,Stellite Face,OEM # 3142D031
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int Exh	122-1395 122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 2418M506, 2418M507 Positive Type,Viton Material,All Rubber Style,OEM # 2418M505
Guide	Int Exh	140-3059 140-3060	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012 0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
Spring	Both	160-1498	1.847 Length,OEM # 3174P409
Lifter	Both	VL549	Mechanical Type,OEM # 31434163, 740671M1

MAZDA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1272cc, (1.3L), SOHC, GAS, CARB, 8 Valve "TC" (1976-78)	GLC, Mizer	1
1415cc, (1.4L), SOHC, GAS, CARB, 8 Valve "UC" (1979-80)	GLC	2
1489cc, (1.5L), DOHC, GAS, FI, 16 Valve "Z5" (1995-98)	Protege	3
1490cc, (1.5L), SOHC, GAS, CARB, 8 Valve "E5" (1981-85)	GLC	4
1498cc, (1.5L), DOHC, GAS, FI, 16 Valve, Vin Y, Z, "MZR" (2011-14)	2	5
1587cc, (1.6L), SOHC, GAS, CARB (1971-77)	616, 808, B1600	6
1589cc, (1.6L), DOHC, GAS, FI, 16 Valve "ZM" (1999-01)	Protege	7
1597cc, (1.6L), SOHC, GAS, FI, 8 Valve "B6" (1986-94)	323	8
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, B6T "TURBO" (1988-89)	323	9
1597cc, (1.6L), SOHC, GAS, FI, 16 Valve "B6" (1992-93)	MX-3	10
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve "B6" (1990-95)	Miata, MX-3	11
1796cc, (1.8L), SOHC, GAS, CARB, 8 Valve "VB" (1977-78)	B1800	12
1839cc, (1.8L), SOHC, GAS, FI, 16 Valve "BPO12" (1990-94)	323, Protege	13
1839cc, (1.8L), DOHC, GAS, FI, 16 Valve "BP" (1990-05)	Miata, Protege	14
1839cc, (1.8L), DOHC, GAS, FI, 16 Valve "FP" (1999-00)	Protege	15
1970cc, (2.0L), SOHC, GAS, CARB, 8 Valve "MA" (1979-84)	626, B2000	17
1991cc, (2.0L), DOHC, GAS, FI, 16 Valve "FS-DE" (1993-03)	626, MX-6, Protege, Protege5	18
1991cc, (2.0L), DOHC, GAS, FI, 16 Valve "FS-DE Turbo" (2003-03)	Protege MazdaSpeed Turbo	19
1991cc, (2.0L), DOHC, GAS, FI, 16 Valve "FORD ZETEC" (2001-04)	Tribute	20
1998cc, (2.0L), SOHC, GAS, CARB, 8 Valve "FE" (1984-87)	626, B2000	21
1998cc, (2.0L), SOHC, GAS, FI, 8 Valve "FE" (1986-87)	626	22
1998cc, (2.0L), SOHC, DIESEL, FI, 8 Valve "RF" (1984-85)	626	23
1998cc, (2.0L), SOHC, GAS, FI, 8 Valve "FE Turbo" (1986-87)	626 Turbo	24

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 7, 8, E, P "SkyActiv-G" (2012-16)	3, 3 Sport, CX-3, CX-5, MX-5 Miata	25
2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, G (2004-13)	3, 3 Sport, MX-5 Miata	26
2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F "W/ Auto Trans." (2009-15)	MX-5 Miata W/ Auto Trans.	27
2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F "W/ Standard Trans." (2009-15)	MX-5 Miata W/ Standard Trans.	28
2184cc, (2.2L), SOHC, GAS, CARB, 8 Valve F2" (1987-92)	B2200	29
2184cc, (2.2L), SOHC, GAS, FI, 8 Valve "F2" (1990-93)	B2200	30
2184cc, (2.2L), SOHC, GAS, FI, 12 Valve "F2 TURBO" (1988-92)	626 Turbo, MX-6 Turbo	31
2184cc, (2.2L), SOHC, GAS, FI, 12 Valve "F2" (1988-92)	626, MX-6	32
2260cc, (2.3L), DOHC, GAS, FI, 16 Valve, Vin 3, 4, L "MZR" (2003-10)	3, 5, 6	34
2260cc, (2.3L), DOHC, GAS, FI, 16 Valve, Vin 3, 4, L, M, "TURBO MZR" (2006-13)	3, 6, CX-7	35
2295cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin A "FORD" (1994-97)	B2300	36
2300cc, (2.3L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, Vin D, H, Z "DURATEC" (2001-09)	B2300, Tribute	37
2492cc, (2.5L), SOHC, GAS, FI, 8 Valve, Vin C "FORD" (1998-01)	B2500	38
2488cc, (2.5L), DOHC, GAS, FI, 16 Valve, Vin 5, 6, 7, A, H, L, M "DURATEC" (2009-15)	3, 3 Sport, 5, 6, CX-7, Tribute	41
2488cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 3 "DURATEC" (2009-10)	Tribute Hybrid	42
2488cc, (2.5L), DOHC, GAS, FI, 16 Valve, Vin 3, 5, 6, Y "SkyActiv-G" (2014-16)	3, 3 Sport, 6, CX-5, CX-9	43
2555cc, (2.6L), SOHC, GAS, CARB, 12 Valve "CE26 Mitsubishi" (1987-88)	B2600	44
2606cc, (2.6L), SOHC, GAS, FI, 12 Valve "G6" (1989-93)	B2600	45
2606cc, (2.6L), SOHC, GAS, FI, 12 Valve "G60" (1989-94)	MPV	46
6 Cylinder		
1845cc, (1.8L), DOHC, GAS, FI, 24 Valve "K8" (1992-94)	MX-3	16
2254cc, (2.3L), DOHC, GAS, FI, 24 Valve "KJ" (1995-02)	Millenia	33
2497cc, (2.5L), DOHC, GAS, FI, 24 Valve "KL" (1993-02)	626, Millenia, MX-6	39
2497cc, (2.5L), DOHC, GAS, FI, 24 Valve, GY, "FORD DURATEC" (2000-01)	MPV	40
2954cc, (3.0L), SOHC, GAS, FI, 18 Valve, "CE, E30, JE39" (1988-98)	929, MPV	47
2954cc, (3.0L), DOHC, SOHC, GAS, FI, 18 Valve, "JE27, JE48, JE74" (1990-95)	929	48
2968cc, (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, D, G, "FORD DURATEC" (2001-11)	6, MPV, Tribute	49
182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin U, V "FORD VULCAN" (1994-07)	B3000	50
3496cc, (3.5L), DOHC, GAS, FI, 24 Valve "FORD DURATEC" (2007-07)	CX-9	51

(Cont'd) **MAZDA / PASSENGER CAR OR TRUCK**

Engine	Models	Line No.		
6 Cylinder				
3726cc, (3.7L), DOHC, GAS, FI, 24 Valve, Vin A, B, V "FORD DURATEC" (2008-15)	6, CX-9	52		
4016cc, (4.0L), OHV, GAS, FI, 12 Valve, Vin X "VEGE FORD" (1991-00)	B4000, Navajo	53		
4016cc, (4.0L), SOHC, GAS, FI, 12 Valve, Vin E "FORD" (2001-10)	B4000	54		
1272cc, (1.3L), SOHC, GAS, CARB, 8 Valve "TC"		TC 1		
1976-78	L4 78 CID	BORE - 73mm/2.87"		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1976-78	SB1562-57	1 $\frac{1}{16}$ O.D., 1.246T I.D., 0.2300 Depth
	Exh	1976-78	SB1375-54	1 $\frac{3}{8}$ O.D., 1.022T I.D., 0.2300 Depth
Keeper	Exh	1976-78	121-1026	1 RD Bead Type, 0.090 Bead Dia.
Guide	Both	1976-78	140-9557	0.3180 I.D., 2.000 Length, 0.5535 O.D., W/ Snap Ring
1415cc, (1.4L), SOHC, GAS, CARB, 8 Valve "UC"		UC 2		
1979-80	L4 86 CID	BORE - 77mm/3.03"		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1979-80	SB1562-57	1 $\frac{1}{16}$ O.D., 1.246T I.D., 0.2300 Depth
	Exh	1979-80	SB1375-54	1 $\frac{3}{8}$ O.D., 1.022T I.D., 0.2300 Depth
Keeper	Exh	1979-80	121-1026	1 RD Bead Type, 0.090 Bead Dia.
Guide	Both	1979-80	140-8200	0.3165 I.D., 1.992 Length, 0.5538 O.D., W/ Snap Ring
1489cc, (1.5L), DOHC, GAS, FI, 16 Valve "Z5"		MAZ1.5-DC 3		
1995-98	L4 91 CID	BORE - 75.3mm/2.97"		
PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	1995-98	122-1201	Positive Type, Viton Material, Metal Clad Style
	Exh	1995-98	122-1202	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1995-98	140-8587	0.2170 I.D., 1.750 Length, 0.4355 O.D., W/ Snap Ring
1490cc, (1.5L), SOHC, GAS, CARB, 8 Valve "E5"		E5 4		
1981-85	L4 91 CID	BORE - 77mm/3.03"		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-85	SB1562-57	1 $\frac{1}{16}$ O.D., 1.246T I.D., 0.2300 Depth
	Exh	1981-85	SB1375-54	1 $\frac{3}{8}$ O.D., 1.022T I.D., 0.2300 Depth
Keeper	Exh	1981-85	121-1026	1 RD Bead Type, 0.090 Bead Dia.
Stem Seal	Both	1981-85	122-1132	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1981-85	140-8200	0.3165 I.D., 1.992 Length, 0.5538 O.D., W/ Snap Ring
Spring	Both	1981-85	160-1095	1.700 Length
1498cc, (1.5L), DOHC, GAS, FI, 16 Valve, Vin Y, Z, "MZR"		MAZ1.5-MZR 5		
2011-14	L4 91 CID	BORE - 78mm/3.07"		
PART	YEARS	PART NO.	NOTES	
Keeper	Both	2011-14	121-1104	1 RD Bead Type
Stem Seal	Int	2011-14	122-1410	Positive Type, Viton Material, Top Hat Style
	Exh	2011-14	122-1411	Positive Type, Viton Material, Top Hat Style
1587cc, (1.6L), SOHC, GAS, CARB		NA 6		
1971-77	L4 97 CID	BORE - 78mm/3.07"		
PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1971-77	SB1500-57	1 $\frac{1}{2}$ O.D., 1.100T I.D., 0.3160 Depth

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

6 1587cc, (1.6L), SOHC, GAS, CARB NA
 (cont.) 1971-77 L4 97 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1971-77	10061	1.656 Head Diameter
	Exh	1971-77	10060S	1.297 Head Diameter,Stellite Face
Keeper	Exh	1971-77	121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	1971-77	122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1971-77	140-9557	0.3180 I.D.,2.000 Length,0.5535 O.D.,W/ Snap Ring

7 1589cc, (1.6L), DOHC, GAS, FI, 16 Valve "ZM" ZM
 1999-01 L4 97 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	1999-01	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1999-01	122-1285	Positive Type,Viton Material,Metal Clad Style

8 1597cc, (1.6L), SOHC, GAS, FI, 8 Valve "B6" B6SC-8V
 1986-94 L4 97 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-94	SB1625-62	1 $\frac{5}{8}$ O.D.,1.320 I.D.,0.3000 Depth
	Exh	1986-94	SB1437-66	1 $\frac{7}{16}$ O.D.,1.120 I.D.,0.3000 Depth
Stem Seal	Both	1986-94	122-1149	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1986-94	140-8205	0.2755 I.D.,1.990 Length,0.4745 O.D.,W/ Snap Ring
Lifter	Both	1986-94	VL146	Hydraulic Lash Adjuster Type

9 1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, B6T "TURBO" B6T
 1988-89 L4 97 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-89	SB1250-61	1 $\frac{1}{4}$ O.D.,0.976 I.D.,0.1800 Depth
	Exh	1988-89	SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1988-89	10157	1.220 Head Diameter
	Exh	1988-89	10159	1.031 Head Diameter,Inconel
Stem Seal	Both	1988-89	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1988-89	140-8187	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring, Tapered End
	Exh	1988-89	140-8186	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring
Lifter	Both	1988-89	VL149	Hydraulic Bucket Type
Head Saver Shim		1988-89	230-2048	New Hgt. - 5.2680 - 5.2767; Min Hgt. - 5.2677

10 1597cc, (1.6L), SOHC, GAS, FI, 16 Valve "B6" B6SC-16V
 1992-93 L4 97 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1992-93	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-93	140-8173	0.2370 I.D.,1.775 Length,0.4360 O.D.,W/ Snap Ring
Lifter	Both	1992-93	VL146	Hydraulic Lash Adjuster Type

11 1597cc, (1.6L), DOHC, GAS, FI, 16 Valve "B6" B6DC-16V
 1990-95 L4 97 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-95	SB1250-61	1 $\frac{1}{4}$ O.D.,0.976 I.D.,0.1800 Depth
	Exh	1990-95	SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1990-95	10157	1.220 Head Diameter
	Exh	1990-95	10159	1.031 Head Diameter,Inconel
Stem Seal	Int	1994-95	122-1246	Positive Type,Viton Material,Metal Clad Style

(Cont'd) **MAZDA / PASSENGER CAR OR TRUCK**

1597cc, (1.6L), DOHC, GAS, FI, 16 Valve "B6"
1990-95 L4 97 CID

B6DC-16V 11
BORE - 78mm/3.07" (cont.)

PART	YEARS	PART NO.	NOTES
Stem Seal	Exh 1990-95	122-1285	Positive Type,Viton Material,Metal Clad Style,Both 1990-93 Miata, Exhaust Only 1994-95 MX-3
Guide	Int 1990-95	140-8187	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring, Tapered End
	Exh 1990-95	140-8186	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring
Lifter	Both 1990-95	VL149	Hydraulic Bucket Type
Head Saver Shim	1990-93	230-2048	New Hgt.- 5.2680 - 5.2767; Min. Hgt. 5.2677, Except MX-3 1993-95

1796cc, (1.8L), SOHC, GAS, CARB, 8 Valve "VB"
1977-78 L4 110 CID

VB 12
BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1977-78	SB1500-57	1½ O.D.,1.100T I.D.,0.3160 Depth
Valve	Int 1977-78	10061	1.656 Head Diameter
	Exh 1977-78	10060S	1.297 Head Diameter,Stellite Face
Keeper	Exh 1977-78	121-1026	1 RD Bead Type,0.090 Bead Dia.

1839cc, (1.8L), SOHC, GAS, FI, 16 Valve "BPO12"
1990-94 L4 112 CID

BPO12 13
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1990-94	SB1250-65	1¼ O.D.,1.030 I.D.,0.2150 Depth
	Exh 1990-94	SB1125-55	1⅝ O.D.,0.830 I.D.,0.2400 Depth
Stem Seal	Both 1990-94	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1990-94	140-8187	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring, Tapered End
	Exh 1990-94	140-8186	0.2371 I.D.,1.920 Length,0.4355 O.D.,W/ Snap Ring
Lifter	Both 1990-94	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim	1990-94	230-2050	New Hgt.- 4.2280 - 4.2360; Min. Hgt - 4.2200

1839cc, (1.8L), DOHC, GAS, FI, 16 Valve "BP"
1990-05 L4 112 CID

BP 14
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1990-05	SB1437-74	17/16 O.D.,1.162 I.D.,0.2300 Depth
	Exh 1990-05	SB1250-56	1¼ O.D.,0.905T I.D.,0.2300 Depth
Valve	Int 1990-97	10234	1.298 Head Diameter,3.990 Overall Length
	1998-00	10788S	1.299 Head Diameter,Stellite Face,4.014 Overall Length, Miata 1998-00, Protege 1998 Only
	Exh 1990-97	10235	1.103 Head Diameter,3.997 Overall Length
Stem Seal	Int 1996-05	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh 1996-05	122-1285	Positive Type,Viton Material,Metal Clad Style
	Both 1990-95	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1990-05	140-8173	0.2370 I.D.,1.775 Length,0.4360 O.D.,W/ Snap Ring
Spring	Both 1990-97	160-1250	1.831 Length
Lifter	Both 1990-97	VL149	Hydraulic Bucket Type
Head Saver Shim	1990-00	230-2011	New Hgt.- 5.2680 - 5.2760; Min. Hgt.- 5.2677

1839cc, (1.8L), DOHC, GAS, FI, 16 Valve "FP"
1999-00 L4 112 CID

FP 15
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int 1999-00	10562	1.240 Head Diameter

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

15 1839cc, (1.8L), DOHC, GAS, FI, 16 Valve "FP" FP
 (cont.) 1999-00 L4 112 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	1999-00	10563	1.089 Head Diameter
Stem Seal	Int	1999-00	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1999-00	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1999-00	140-8561	0.2370 I.D., 1.490 Length,0.4358 O.D.,W/ Snap Ring
Head Bolt Set		1999-00	220-1028	Torque To Yield,Services Engine
Head Saver Shim		1999-00	230-2089	New Hgt.- 4.900; Min. Hgt.- 4.894

16 1845cc, (1.8L), DOHC, GAS, FI, 24 Valve "K8" K8
 1992-94 V6 113 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1992-94	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-94	140-8561	0.2370 I.D., 1.490 Length,0.4358 O.D.,W/ Snap Ring
Lifter	Both	1992-94	VL149	Hydraulic Bucket Type

17 1970cc, (2.0L), SOHC, GAS, CARB, 8 Valve "MA" MA
 1979-84 L4 120 CID BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1979-84	SB1500-57	1½ O.D.,1.100T I.D.,0.3160 Depth
Valve	Int	1979-84	10061	1.656 Head Diameter
	Exh	1979-84	10060S	1.297 Head Diameter,Stellite Face
Keeper	Exh	1979-84	121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	1979-84	122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1979-84	140-9557	0.3180 I.D.,2.000 Length,0.5535 O.D.,W/ Snap Ring

18 1991cc, (2.0L), DOHC, GAS, FI, 16 Valve "FS-DE" FS-DE
 1993-03 L4 122 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1993-03	10562	1.240 Head Diameter
	Exh	1993-03	10563	1.089 Head Diameter
Stem Seal	Int	1994-03	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1994-03	122-1285	Positive Type,Viton Material,Metal Clad Style
	Both	1993-93	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1993-03	140-8561	0.2370 I.D., 1.490 Length,0.4358 O.D.,W/ Snap Ring
Lifter	Both	1993-97	VL149	Hydraulic Bucket Type
Head Bolt Set		1993-03	220-1028	Torque To Yield,Services Engine
Head Saver Shim		1993-03	230-2089	New Hgt.- 4.900; Min. Hgt.- 4.894

19 1991cc, (2.0L), DOHC, GAS, FI, 16 Valve "FS-DE Turbo" FS-DET
 2003-03 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2003-03	10562	1.240 Head Diameter
Stem Seal	Int	2003-03	122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	2003-03	122-1285	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2003-03	140-8561	0.2370 I.D., 1.490 Length,0.4358 O.D.,W/ Snap Ring

(Cont'd) **MAZDA / PASSENGER CAR OR TRUCK**

1991cc, (2.0L), DOHC, GAS, FI, 16 Valve "FORD ZETEC"
2001-04 L4 121 CID

MAZ2.0-DC-TRU 20
BORE - 84.8mm/3.34"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2001-04	SB1339E-2 34mm O.D.,26mm I.D.,8.5mm Depth,Note: Adjustable Cutter Required Due To Insufficient Room Between Intake Seats
	Exh	2001-04		SB1187-51 1^{3}/_{16} O.D.,0.905 I.D.,0.2570 Depth
Valve	Int	2001-04	01745 1.260 Head Diameter
	Exh	2001-04	01746 1.102 Head Diameter
Keeper	Both	2001-04	121-1101 1 RD Bead Type
Stem Seal	Both	2001-04	122-1342 Positive Type,Viton Material,Top Hat Style
Guide	Both	2001-04	140-8662 0.2390 I.D.,1.420 Length,0.4727 O.D.
Spring	Int	2001-04	160-1580 1.694 Length,Conical
	Exh	2001-04	160-1581 1.691 Length,Conical
Head Bolt Set		2001-04	220-1121 Torque To Yield,Services Engine
Head Saver Shim		2001-04	230-2082 New Hgt. - 5.230 - 5.236; Min. Hgt. - 5.225

1998cc, (2.0L), SOHC, GAS, CARB, 8 Valve "FE"
1984-87 L4 122 CID

FE-CA 21
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-87	SB1812-50 1 ¹³ / ₁₆ O.D.,1.490T I.D.,0.3070 Depth
	Exh	1984-87		SB1500-54 1^{1}/_{2} O.D.,1.180T I.D.,0.3070 Depth
Valve	Int	1984-87	10236 1.732 Head Diameter
	Exh	1984-87	10237 1.417 Head Diameter
Keeper	Exh	1984-87	121-1026 1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	1984-87	122-1132 Positive Type,Viton Material,Metal Clad Style
Guide	Both	1984-87	140-8172 0.3180 I.D.,2.177 Length,0.5531 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1984-87	160-1096 1.720 Length,Inner
		1984-87	160-1097 1.958 Length,Outer
Head Saver Shim		1984-87	230-2086 New Hgt. - 3.6200 - 3.6240; Min. Hgt.- 3.6120

1998cc, (2.0L), SOHC, GAS, FI, 8 Valve "FE"
1986-87 L4 122 CID

FE-FI 22
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-87	SB1812-50 1 ¹³ / ₁₆ O.D.,1.490T I.D.,0.3070 Depth
	Exh	1986-87		SB1500-54 1^{1}/_{2} O.D.,1.180T I.D.,0.3070 Depth
Valve	Int	1986-87	10236 1.732 Head Diameter
	Exh	1986-87	10237 1.417 Head Diameter
Keeper	Exh	1986-87	121-1026 1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	1986-87	122-1132 Positive Type,Viton Material,Metal Clad Style
Guide	Both	1986-87	140-8172 0.3180 I.D.,2.177 Length,0.5531 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1986-87	160-1096 1.720 Length,Inner
		1986-87	160-1097 1.958 Length,Outer
Head Saver Shim		1986-87	230-2086 New Hgt. - 3.6200 - 3.6240; Min. Hgt.- 3.6120

1998cc, (2.0L), SOHC, DIESEL, FI, 8 Valve "RF"
1984-85 L4 122 CID

RF 23
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-85	SB1687-57 1 ¹¹ / ₁₆ O.D.,1.335T I.D.,0.2750 Depth
	Exh	1984-85		SB1500-72 1^{1}/_{2} O.D.,1.182T I.D.,0.2750 Depth
Stem Seal	Both	1984-85	122-1132 Positive Type,Viton Material,Metal Clad Style

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

24 1998cc, (2.0L), SOHC, GAS, FI, 8 Valve "FE Turbo"
1986-87 L4 122 CID

FE-T
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-87	SB1812-50	1 ¹³ / ₁₆ O.D.,1.490T I.D.,0.3070 Depth
	Exh	1986-87	SB1500-54	1 ¹ / ₂ O.D.,1.180T I.D.,0.3070 Depth
Valve	Int	1986-87	10236	1.732 Head Diameter
	Exh	1986-87	10237	1.417 Head Diameter
Keeper	Exh	1986-87	121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	1986-87	122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1986-87	140-8172	0.3180 I.D.,2.177 Length,0.5531 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1986-87	160-1096	1.720 Length,Inner
		1986-87	160-1097	1.958 Length,Outer

25 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 7, 8, E, P "SkyActiv-G"
2012-16 L4 122 CID

2.0DC-SKYG
BORE - 83.5mm/3.29"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2012-16	121-1104	1 RD Bead Type

26 2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, G
2004-13 L4 122 CID

MAZ2.0-DC
BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-13	02006	1.378 Head Diameter
	Exh	2004-13	02007	1.181 Head Diameter
Keeper	Both	2004-13	121-1104	1 RD Bead Type
Stem Seal	Int	2004-13	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2004-13	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2004-13	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2004-13	160-1568	1.908 Length,Conical,Except Miata W/ Standard Trans. 2009-Up.
Head Bolt Set		2004-13	220-1111	Torque To Yield,Services Engine
Head Saver Shim		2004-13	230-2144	New Hgt. - Min. Hgt. N/A

27 2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F "W/ Auto Trans."
2009-15 L4 122 CID

MAZ2.0-MX5_1A
BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-15	02006	1.378 Head Diameter
	Exh	2009-15	02007	1.181 Head Diameter
Keeper	Both	2009-15	121-1104	1 RD Bead Type
Stem Seal	Int	2009-15	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2009-15	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-15	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Spring	Both	2009-15	160-1568	1.908 Length,Conical,W/ Auto Trans.
Head Bolt Set		2009-15	220-1111	Torque To Yield
Head Saver Shim		2009-15	230-2144	New Hgt. - Min. Hgt. N/A

28 2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F "W/ Standard Trans."
2009-15 L4 122 CID

MAZ2.0-MX5_2S
BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-15	02006	1.378 Head Diameter
	Exh	2009-15	02007	1.181 Head Diameter
Keeper	Both	2009-15	121-1104	1 RD Bead Type

(Cont'd) MAZDA / PASSENGER CAR OR TRUCK

2000cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F "W/ Standard Trans." MAZ2.0-MX5_2S **28**
 2009-15 L4 122 CID BORE - 87.5mm/3.44" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2009-15	122-1410	Positive Type,Viton Material,Top Hat Style
	Exh	2009-15	122-1411	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-15	140-3070	0.2170 I.D.,1.535 Length,0.4345 O.D.
Head Bolt Set		2009-15	220-1111	Torque To Yield
Head Saver Shim		2009-15	230-2144	New Hgt. - Min. Hgt. N/A

2184cc, (2.2L), SOHC, GAS, CARB, 8 Valve F2" F2-8VCA **29**
 1987-92 L4 134 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-92	SB1812-50	1 ¹³ / ₁₆ O.D.,1.490T I.D.,0.3070 Depth
	Exh	1987-92	SB1500-54	1 ¹ / ₂ O.D.,1.180T I.D.,0.3070 Depth
Valve	Int	1987-92	10236	1.732 Head Diameter
	Exh	1987-92	10237	1.417 Head Diameter
Keeper	Exh	1987-92	121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	1987-92	122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1987-92	140-8172	0.3180 I.D.,2.177 Length,0.5531 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1987-92	160-1096	1.720 Length,Inner
		1987-92	160-1097	1.958 Length,Outer
Lifter	Both	1987-92	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1987-92	230-2086	New Hgt.- 3.6200 - 3.6240; Min. Hgt.- 3.6120

2184cc, (2.2L), SOHC, GAS, FI, 8 Valve "F2" F2-8VFI **30**
 1990-93 L4 134 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-93	SB1812-50	1 ¹³ / ₁₆ O.D.,1.490T I.D.,0.3070 Depth
	Exh	1990-93	SB1500-54	1 ¹ / ₂ O.D.,1.180T I.D.,0.3070 Depth
Valve	Int	1990-93	10236	1.732 Head Diameter
	Exh	1990-93	10237	1.417 Head Diameter
Keeper	Exh	1990-93	121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Both	1990-93	122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1990-93	140-8142	0.2765 I.D.,2.088 Length,0.4760 O.D.,W/ Snap Ring
Spring	Both	1990-93	160-1096	1.720 Length,Inner
		1990-93	160-1097	1.958 Length,Outer
Lifter	Both	1990-93	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1990-93	230-2086	New Hgt.- 3.6200 - 3.6240; Min. Hgt.- 3.6120

2184cc, (2.2L), SOHC, GAS, FI, 12 Valve "F2 TURBO" F2-12VT **31**
 1988-92 L4 133 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-92	SB1375-56	1 ³ / ₈ O.D.,1.102 I.D.,0.2600 Depth
	Exh	1988-92	SB1437-75	1 ⁷ / ₁₆ O.D.,1.175 I.D.,0.2600 Depth
Valve	Int	1988-92	10162	1.280 Head Diameter
	Exh	1988-92	10164	1.339 Head Diameter,Inconel
Guide	Both	1988-92	140-8142	0.2765 I.D.,2.088 Length,0.4760 O.D.,W/ Snap Ring
Lifter	Both	1988-92	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1988-92	230-2086	New Hgt.- 3.6200 - 3.6240; Min. Hgt.- 3.6120

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

32 2184cc, (2.2L), SOHC, GAS, FI, 12 Valve "F2"
1988-92 L4 133 CID

F2-12V
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-92	SB1375-56	1 ³ / ₈ O.D., 1.102 I.D., 0.2600 Depth
	Exh	1988-92	SB1437-75	1 ⁷ / ₁₆ O.D., 1.175 I.D., 0.2600 Depth
Valve	Int	1988-92	10162	1.280 Head Diameter
	Exh	1988-92	10163	1.339 Head Diameter
Stem Seal	Both	1988-92	122-1149	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1988-92	140-8142	0.2765 I.D., 2.088 Length, 0.4760 O.D., W/ Snap Ring
Lifter	Both	1988-92	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim		1988-92	230-2086	New Hgt. - 3.6200 - 3.6240; Min. Hgt. - 3.6120

33 2254cc, (2.3L), DOHC, GAS, FI, 24 Valve "KJ"
1995-02 V6 137 CID

KJ
BORE - 80.3mm/3.16"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	1995-02	122-1246	Positive Type, Viton Material, Metal Clad Style
	Exh	1995-02	122-1285	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1995-02	140-8187	0.2371 I.D., 1.920 Length, 0.4355 O.D., W/ Snap Ring, Tapered End
	Exh	1995-02	140-8186	0.2371 I.D., 1.920 Length, 0.4355 O.D., W/ Snap Ring

34 2260cc, (2.3L), DOHC, GAS, FI, 16 Valve, Vin 3, 4, L "MZR"
2003-10 L4 138 CID

MAZ2.3-MZR
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	2003-10	SB1250-62	1 ¹ / ₄ O.D., 1.000 I.D., 0.3050 Depth
Valve	Int	2003-10	02006	1.378 Head Diameter
	Exh	2003-10	02007	1.181 Head Diameter
Keeper	Both	2003-10	121-1104	1 RD Bead Type
Stem Seal	Int	2003-10	122-1410	Positive Type, Viton Material, Top Hat Style
	Exh	2003-10	122-1411	Positive Type, Viton Material, Top Hat Style
Guide	Both	2003-10	140-3070	0.2170 I.D., 1.535 Length, 0.4345 O.D.
Head Bolt Set		2003-10	220-1111	Torque To Yield, Services Engine
Head Saver Shim		2003-10	230-2144	New Hgt. - 4.8818; Min. Hgt. N/A

35 2260cc, (2.3L), DOHC, GAS, FI, 16 Valve, Vin 3, 4, L, M, "TURBO MZR"
2006-13 L4 138 CID

MAZ2.3T-MZR
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2006-13	13305	1.378 Head Diameter
	Exh	2006-13	13306	1.181 Head Diameter, Inconel
Keeper	Both	2006-13	121-1104	1 RD Bead Type
Stem Seal	Int	2006-13	122-1454	Positive Type, Viton Material, Top Hat Style
	Exh	2006-13	122-1455	Positive Type, Viton Material, Top Hat Style
Guide	Both	2006-13	140-3162	0.2372 I.D., 1.535 Length, 0.4352 O.D.
Head Bolt Set		2006-13	220-1111	Torque To Yield, Services Engine
Head Saver Shim		2006-13	230-2144	New Hgt. - 4.8818; Min. Hgt. N/A

36 2295cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin A "FORD"
1994-97 L4 140 CID

MAZ140-A
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-97	SB1812-2	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth

(Cont'd) **MAZDA / PASSENGER CAR OR TRUCK**

2295cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin A "FORD"
1994-97 L4 140 CID

MAZ140-A 36
BORE - 87.4mm/3.44" (cont.)

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1994-97	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ¹⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int 1994-94	01598	1.735 Head Diameter, W/ .3419 Stem Dia., 4 Groove
	1995-97	01743	1.735 Head Diameter, W/ 7mm Stem Dia., 3 Groove
	Exh 1994-94	01597	1.500 Head Diameter, W/ .3414 Stem Dia., 4 Groove
	1995-97	01744	1.500 Head Diameter, W/ 7mm Stem Dia., 3 Groove
Keeper	Both 1994-94	121-1019	4 RD Bead Type, W/ .341 Stem Dia.
	1995-97	121-1084	3 RD Bead Type, W/ 7mm Stem Dia.
Stem Seal	Int 1994-94	122-1200	Positive Type, Viton Material, Metal Clad Style, W/ .341 Stem Dia.
	Exh 1994-94	122-1199	Positive Type, Viton Material, Metal Clad Style, W/ .341 Stem Dia.
	Both 1994-94	122-1075	Positive Type, Viton Material, Ring & Band Style, W/ .341 Stem Dia.
	1995-97	122-1226	Positive Type, Viton Material, Metal Clad Style, W/ 7mm Stem Dia.
Guide	Int 1994-94	140-9206	0.3440 I.D., 2.188 Length, 0.5020 O.D., Flanged, W/ .341 Stem Dia.
	Exh 1994-94	140-9846	0.3440 I.D., 2.313 Length, 0.5020 O.D., Flanged, W/ .341 Stem Dia., -5 U/S I.D. Available (140-9846U)
	Both 1995-97	140-8274	0.2765 I.D., 1.930 Length, 0.4953 O.D., W/ 7mm Stem Dia., +2, +3 O/S Available
Spring	Both 1995-97	160-1383	2.020 Length
Lifter	Both 1994-97	VL83	Hydraulic Lash Adjuster Type
Head Bolt Set	1994-94	220-1006	Torque To Yield, Services Engine

2300cc, (2.3L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, Vin D, H, Z
"DURATEC"

2001-09 L4 140 CID

MAZ140-D 37
BORE - 87.4mm/3.44"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 2001-09	SB1250-62	1 ¹ / ₄ O.D., 1.000 I.D., 0.3050 Depth
Valve	Int 2001-09	02006	1.378 Head Diameter
	Exh 2001-09	02007	1.181 Head Diameter
Keeper	Both 2001-09	121-1104	1 RD Bead Type
Stem Seal	Int 2001-09	122-1410	Positive Type, Viton Material, Top Hat Style
	Exh 2001-09	122-1411	Positive Type, Viton Material, Top Hat Style
Guide	Both 2001-09	140-3070	0.2170 I.D., 1.535 Length, 0.4345 O.D.
Spring	Both 2001-06	160-1506	1.776 Length, Conical
	2007-09	160-1568	1.908 Length, Conical
Head Bolt Set	2001-09	220-1111	Torque To Yield, Services Engine
Head Saver Shim	2001-09	230-2144	New Hgt. - Min. Hgt. N/A

2492cc, (2.5L), SOHC, GAS, FI, 8 Valve, Vin C "FORD"
1998-01 L4 152 CID

MAZ2.5C 38
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Valve	Int 1998-01	01743	1.735 Head Diameter
	Exh 1998-01	01744	1.500 Head Diameter
Keeper	Both 1998-01	121-1084	3 RD Bead Type
Stem Seal	Both 1998-01	122-1226	Positive Type, Viton Material, Metal Clad Style

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

38 2492cc, (2.5L), SOHC, GAS, FI, 8 Valve, Vin C "FORD" MAZ2.5C
 (cont.) 1998-01 L4 152 CID BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Guide	Both	1998-01	140-8274	0.2765 I.D., 1.930 Length, 0.4953 O.D.
Spring	Both	1998-01	160-1383	2.020 Length
Lifter	Both	1998-01	VL83	Hydraulic Lash Adjuster Type

39 2497cc, (2.5L), DOHC, GAS, FI, 24 Valve "KL" KL
 1993-02 V6 152 CID BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve	Int	1993-02	10550	1.260 Head Diameter
	Exh	1993-02	10551	1.086 Head Diameter
Stem Seal	Int	1993-02	122-1246	Positive Type, Viton Material, Metal Clad Style
	Exh	1993-02	122-1285	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1993-02	140-8561	0.2370 I.D., 1.490 Length, 0.4358 O.D., W/ Snap Ring
Lifter	Both	1993-97	VL149	Hydraulic Bucket Type

40 2497cc, (2.5L), DOHC, GAS, FI, 24 Valve, GY, "FORD DURATEC" MAZ2.5-GY
 2000-01 V6 152 CID BORE - 82.3mm/3.24"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2000-01	SB1375-55	1 $\frac{3}{8}$ O.D., 1.120 I.D., 0.3250 Depth
	Exh	2000-01	SB1125-52	1 $\frac{1}{8}$ O.D., 0.825T I.D., 0.2850 Depth, W/ 1.023 Valve Head Dia.
Valve	Int	2000-01	01728	1.260 Head Diameter
	Exh	2000-01	01729	1.023 Head Diameter
Keeper	Both	2000-01	121-1082	3 RD Bead Type
Stem Seal	Both	2000-01	122-1229	Positive Type, Viton Material, Top Hat Style
Guide	Both	2000-01	140-8560	0.2370 I.D., 1.880 Length, 0.4953 O.D.
Spring	Both	2000-01	160-1490	1.847 Length
Lifter	Both	2000-01	VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	2000-01	180-1333	Roller Cam Follower

41 2488cc, (2.5L), DOHC, GAS, FI, 16 Valve, Vin 5, 6, 7, A, H, L, M "DURATEC" MAZ2.5-DC
 2009-15 L4 152 CID BORE - 88.9mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve	Int	2009-15	02006	1.378 Head Diameter
	Exh	2009-15	02007	1.181 Head Diameter
Keeper	Both	2009-15	121-1104	1 RD Bead Type
Stem Seal	Int	2009-15	122-1410	Positive Type, Viton Material, Top Hat Style
	Exh	2009-15	122-1411	Positive Type, Viton Material, Top Hat Style
Guide	Both	2009-15	140-3070	0.2170 I.D., 1.535 Length, 0.4345 O.D.
Spring	Both	2009-15	160-1568	1.908 Length, Conical

42 2488cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 3 "DURATEC" MAZ2.5-DCE
 2009-10 L4 152 CID BORE - 88.9mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve	Int	2009-10	02006	1.378 Head Diameter
	Exh	2009-10	02007	1.181 Head Diameter
Keeper	Both	2009-10	121-1104	1 RD Bead Type
Stem Seal	Int	2009-10	122-1410	Positive Type, Viton Material, Top Hat Style
	Exh	2009-10	122-1411	Positive Type, Viton Material, Top Hat Style
Guide	Both	2009-10	140-3070	0.2170 I.D., 1.535 Length, 0.4345 O.D.

(Cont'd) **MAZDA / PASSENGER CAR OR TRUCK**

2488cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin 3 "DURATEC" MAZ2.5-DCE 42
2009-10 L4 152 CID BORE - 88.9mm/3.50" (cont.)

PART	YEARS	PART NO.	NOTES
Spring	Both 2009-10	160-1568	1.908 Length,Conical

2488cc, (2.5L), DOHC, GAS, FI, 16 Valve, Vin 3, 5, 6, Y "SkyActiv-G" MAZ2.5-SKYG 43
2014-16 L4 152 CID BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2014-16	121-1104	1 RD Bead Type

2555cc, (2.6L), SOHC, GAS, CARB, 12 Valve "CE26 Mitsubishi" MAZ-CE26 44
1987-88 L4 156 CID BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1987-88 Exh 1987-88	SB1875-51 SB1625-56	1 $\frac{7}{8}$ O.D.,1.575T I.D.,0.3170 Depth 1 $\frac{5}{8}$ O.D.,1.298T I.D.,0.3170 Depth,+10, +30 O/S Available
Valve	Int 1987-88 Exh 1987-88	10145 10146	1.810 Head Diameter,Round Groove 1.493 Head Diameter,Round Groove
Keeper	Both 1987-88	121-1039	1 RD Bead Type
Stem Seal	Both 1987-88 1987-88	122-1075 122-1086	Positive Type,Viton Material,Ring & Band Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 1987-88 Exh 1987-88	140-7574 140-7575	0.3150 I.D.,1.848 Length,0.5145 O.D.,+2 O/S Available 0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both 1987-88	160-1079	1.960 Length
Lifter	Both 1987-88	VL141	Hydraulic Lash Adjuster Type

2606cc, (2.6L), SOHC, GAS, FI, 12 Valve "G6" G6 45
1989-93 L4 159 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1989-93 Exh 1989-93	SB1437-74 SB1500-80	1 $\frac{7}{16}$ O.D.,1.162 I.D.,0.2300 Depth 1 $\frac{1}{2}$ O.D.,1.250 I.D.,0.2300 Depth
Valve	Int 1989-93 Exh 1989-93	10243 10244	1.312 Head Diameter 1.417 Head Diameter
Guide	Both 1989-93	140-8142	0.2765 I.D.,2.088 Length,0.4760 O.D.,W/ Snap Ring
Lifter	Both 1989-93	VL146	Hydraulic Lash Adjuster Type
Head Saver Shim	1989-93	230-2053	New Hgt.- 3.5413 - 3.5452; Min. Hgt.- 3.533

2606cc, (2.6L), SOHC, GAS, FI, 12 Valve "G60" G60 46
1989-94 L4 159 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1989-94 Exh 1989-94	SB1437-74 SB1500-80	1 $\frac{7}{16}$ O.D.,1.162 I.D.,0.2300 Depth 1 $\frac{1}{2}$ O.D.,1.250 I.D.,0.2300 Depth
Valve	Int 1989-94 Exh 1989-94	10243 10244	1.312 Head Diameter 1.417 Head Diameter
Stem Seal	Both 1989-94	122-1149	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1989-94	140-8142	0.2765 I.D.,2.088 Length,0.4760 O.D.,W/ Snap Ring
Lifter	Both 1989-94	VL146	Hydraulic Lash Adjuster Type

2954cc, (3.0L), SOHC, GAS, FI, 18 Valve, "CE, E30, JE39" JE-SC18V 47
1988-98 V6 180 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1988-98 Exh 1988-98	SB1437-66 SB1625-62	1 $\frac{7}{16}$ O.D.,1.120 I.D.,0.3000 Depth 1 $\frac{5}{8}$ O.D.,1.320 I.D.,0.3000 Depth

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

47 2954cc, (3.0L), SOHC, GAS, FI, 18 Valve, "CE, E30, JE39" JE-SC18V
 (cont.) 1988-98 V6 180 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Keeper	Exh	1988-98 121-1026	1 RD Bead Type,0.090 Bead Dia.
Stem Seal	Int	1988-98 122-1149	Positive Type,Viton Material,Metal Clad Style
	Exh	1988-98 122-1132	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1988-98 140-8205	0.2755 I.D.,1.990 Length,0.4745 O.D.,W/ Snap Ring
Lifter	Both	1988-98 VL146	Hydraulic Lash Adjuster Type

48 2954cc, (3.0L), DOHC, SOHC, GAS, FI, 18 Valve, "JE27, JE48, JE74" JE-DC24V
 1990-95 V6 180 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-95 SB1437-75	1 ⁷ / ₁₆ O.D.,1.175 I.D.,0.2600 Depth
	Exh	1990-95 SB1312-57	1 ⁵ / ₁₆ O.D.,1.060 I.D.,0.2800 Depth
Valve	Int	1990-95 10247	1.366 Head Diameter
	Exh	1990-95 10248	1.217 Head Diameter
Stem Seal	Int	1993-95 122-1246	Positive Type,Viton Material,Metal Clad Style
	Exh	1993-95 122-1285	Positive Type,Viton Material,Metal Clad Style
	Both	1990-91 122-1149	Positive Type,Viton Material,Metal Clad Style
		1992-92 122-1147	Positive Type,Viton Material,Metal Clad Style

49 2968cc, (3.0L), DOHC, FLEX, GAS, FI, 24 Valve, Vin 1, D, G, "FORD DURATEC" MAZ3.0-DC
 2001-11 V6 181 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2001-11 SB1250-56	1 ¹ / ₄ O.D.,0.905T I.D.,0.2300 Depth
Valve	Int	2001-11 01787	1.378 Head Diameter
	Exh	2001-11 01788	1.181 Head Diameter
Keeper	Both	2001-11 121-1082	3 RD Bead Type
Stem Seal	Both	2001-11 122-1229	Positive Type,Viton Material,Top Hat Style
Guide	Both	2001-11 140-8560	0.2370 I.D.,1.880 Length,0.4953 O.D.
Spring	Both	2001-08 160-1490	1.847 Length
Lifter	Both	2001-11 VL107	Hydraulic Lash Adjuster Type
Rocker Components	Both	2001-11 180-1333	Roller Cam Follower
Head Saver Shim	2001-11	230-2130L	Left,New Hgt. - 5.1550 - 5.1630; Min. Hgt. N/A
	2001-11	230-2130R	Right,New Hgt. - 5.1550 - 5.1630; Min. Hgt. N/A

50 182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin U, V "FORD VULCAN" MAZ3.0-TRU
 1994-07 V6 182 CID BORE - 89mm/3.5039"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1994-07 SB1750-2	1 ³ / ₄ O.D.,1 ¹ / ₂ I.D., ⁷ / ₃₂ Depth,+10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1994-07 SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth
Valve	Int	1994-99 01536	1.661 Head Diameter,0.3130 Stem Dia., +15 O/S Stem Available
		2000-07 02046	1.661 Head Diameter,7mm Stem Dia.
	Exh	1994-99 01535	1.371 Head Diameter,0.3125 Stem Dia., +15 O/S Stem Available
		2000-07 02047	1.371 Head Diameter,7mm Stem Dia.
Keeper	Both	1994-99 121-1024	3 RD Bead Type,Use With ⁵ / ₁₆ Stem Dia.
		2000-07 121-1084	3 RD Bead Type,Use W/ 7mm Stem Dia.
Stem Seal	Int	1994-99 122-1065	Positive Type,Viton Material, Ring & Band Style,Use With ⁵ / ₁₆ Stem Dia.

(Cont'd) **MAZDA / PASSENGER CAR OR TRUCK**

182 C.I., (3.0L), OHV, FLEX, GAS, FI, 12 Valve, Vin U, V "FORD VULCAN" MAZ3.0-TRU 50
1994-07 V6 182 CID BORE - 89mm/3.5039" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2000-07	122-1357	Positive Type,Viton Material,Ring & Band Style,Green,Use W/ 7mm Stem Dia.
	Exh	1994-99	122-1066	Positive Type,Viton Material,Ring & Band Style,Use With 5/16 Stem Dia.
		2000-07	122-1358	Positive Type,Viton Material,Ring & Band Style,Orange,Use W/7mm Stem Dia.
Guide	Both	1994-99	140-9204	0.3150 I.D.,2.200 Length,0.4390 O.D.,Use With 5/16 Stem Dia.
		2000-07	140-3048	0.2768 I.D.,2.500 Length,0.4747 O.D.,Use W/ 7mm Stem Dia., W/ Seal Boss; NOTE: W/.4747 O.D.
		2000-07	140-3066	0.2768 I.D.,2.200 Length,0.4390 O.D.,Use W/ 7mm Stem Dia., W/O Seal Boss; NOTE: W/.4390 O.D.
Spring	Both	1994-99	160-1072	1.840 Length
		2000-07	160-1437	1.834 Length,Conical
Lifter	Both	1994-07	VL100	Hydraulic Roller Type
Rocker Components	Both	1994-07	180-1315	Rocker Arm
Push Rod	Both	1994-96	190-1524	5.332 Length
		1997-07	190-1541	5.297 Length
Head Bolt Set		1994-98	220-1005	Torque To Yield,Services Engine; To 7/13/98
		1998-07	220-1096	Torque To Yield,Services Engine; From 7/14/98

3496cc, (3.5L), DOHC, GAS, FI, 24 Valve "FORD DURATEC" MAZ3.5-DC 51
2007-07 V6 213 CID BORE - 92.5mm/3.64"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-07	13225	1.457 Head Diameter
	Exh	2007-07	13226	1.220 Head Diameter
Keeper	Both	2007-07	121-1104	1 RD Bead Type
Stem Seal	Both	2007-07	122-1427	Positive Type,Viton Material,Top Hat Style
Spring	Both	2007-07	160-1599	1.910 Length,Conical

3726cc, (3.7L), DOHC, GAS, FI, 24 Valve, Vin A, B, V "FORD DURATEC" MAZ3.7-DC 52
2008-15 V6 227 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-15	13225	1.457 Head Diameter
	Exh	2008-15	13226	1.220 Head Diameter
Keeper	Both	2008-15	121-1104	1 RD Bead Type
Stem Seal	Both	2008-15	122-1427	Positive Type,Viton Material,Top Hat Style
Spring	Both	2008-14	160-1599	1.910 Length,Conical

4016cc, (4.0L), OHV, GAS, FI, 12 Valve, Vin X "VGE4 FORD" MAZ-245X 53
1991-00 V6 245 CID BORE - 100.4mm/3.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-00	SB1812-4	1 ³ / ₁₆ O.D.,1 ¹ / ₁₆ I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1991-00	SB1437-2	1 ⁷ / ₁₆ O.D.,1 ⁷ / ₃₂ I.D.,7/32 Depth,Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	1991-00	10387	1.712 Head Diameter,+15 O/S Stem Available
	Exh	1991-00	10388	1.358 Head Diameter,+15 O/S Stem Available
Keeper	Int	1991-00	121-1011	1 SQ Bead Type
	Exh	1991-00	121-1024	3 RD Bead Type
Stem Seal	Both	1991-00	122-1067	Positive Type,Viton Material,Metal Clad Style

MAZDA / PASSENGER CAR OR TRUCK (Cont'd)

53 4016cc, (4.0L), OHV, GAS, FI, 12 Valve, Vin X "VGE4 FORD" MAZ-245X
 (cont.) 1991-00 V6 245 CID BORE - 100.4mm/3.95"

PART	YEARS	PART NO.	NOTES	
Guide	Both	1991-00	140-7198	0.3175 I.D.,2.000 Length,0.5020 O.D.,Plain I.D. Conversion Guide
		1991-00	140-9198	0.3174 I.D.,2.000 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	1991-00	160-1264	2.130 Length
Lifter	Both	1991-00	VL150	Hydraulic Roller Type
Rocker Components	Both	1991-00	180-1008	Rocker Arm
Push Rod	Both	1991-00	190-0471	5.475 Length
Head Bolt Set		1991-00	220-1016	Torque To Yield,Services Engine
Head Saver Shim		1991-00	230-2114L	Left,New Hgt. - N/A; Min. Hgt. - N/A
		1991-00	230-2114R	Right,New Hgt. - N/A; Min. Hgt. - N/A

54 4016cc, (4.0L), SOHC, GAS, FI, 12 Valve, Vin E "FORD" MAZ-245E
 2001-10 V6 245 CID BORE - 100.4mm/3.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2001-10	SB1875-50	1 $\frac{7}{8}$ O.D.,1.640 I.D.,0.2800 Depth,Note: Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	2001-10	SB1625-54	1 $\frac{5}{8}$ O.D.,1.329 I.D.,0.2800 Depth
Valve	Int	2001-10	01913	1.811 Head Diameter,Includes Flex-Fuel
	Exh	2001-10	01914	1.535 Head Diameter,Includes Flex-Fuel
Keeper	Both	2001-10	121-1084	3 RD Bead Type
Stem Seal	Both	2001-10	122-1348	Positive Type,Viton Material,Top Hat Style
Guide	Both	2001-10	140-8663	0.2761 I.D.,1.740 Length,0.4724 O.D.,W/ Snap Ring
Spring	Both	2001-10	160-1504	1.696 Length,NOTE: Aftermarket Version Using Non-Ovate Wire, Must Replace All Springs
Lifter	Both	2001-10	VL176	Hydraulic Lash Adjuster Type
Rocker Components	Both	2001-10	180-1325	Roller Cam Follower
Head Bolt Set		2001-10	220-1106	Torque To Yield,Services Engine
Head Saver Shim		2001-10	230-2137L	Left,New Hgt. - 4.864" - Min. Hgt. - N/A
		2001-10	230-2137R	Right,New Hgt. - 4.864" - Min. Hgt. - N/A

MAZDA / INDUSTRIAL

Engine	Models	Line No.
4 Cylinder		
90 C.I., (1.5L), E5 Forklift Mazda		1
91 C.I., (1.5L), D5 Forklift Mazda		2
91 C.I., (1.5L), UA Forklift Mazda		3
121 C.I., (2.0L), VA Forklift Mazda		4
122 C.I., (2.0L), FE Forklift Mazda		5
133 C.I., (2.2L), F2 Forklift Yale		6

1 90 C.I., (1.5L), E5 Forklift Mazda IND-E5
 L4 90 CID BORE - 76.987mm/3.031"

PART	PART NO.	NOTES	
Valve Seat Insert	Int	SB1562-67	1 $\frac{1}{16}$ O.D.,1.255T I.D.,0.3190 Depth
	Exh	SB1375-54	1 $\frac{3}{8}$ O.D.,1.022T I.D.,0.2300 Depth
Guide	Both	140-8200	0.3165 I.D.,1.992 Length,0.5538 O.D.,W/ Snap Ring,OEM # 817323090

(Cont'd) MAZDA / INDUSTRIAL

90 C.I., (1.5L), E5 Forklift Mazda **IND-E5 1**
 L4 90 CID **BORE - 76.987mm/3.031" (cont.)**

PART		PART NO.	NOTES
Spring	Both	160-1095	1.700 Length,OEM # 901274805

91 C.I., (1.5L), D5 Forklift Mazda **D5 2**
 L4 91 CID **BORE - 77mm/3.031"**

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1562-57 SB1375-54	1 $\frac{1}{16}$ O.D.,1.246T I.D.,0.2300 Depth 1 $\frac{3}{8}$ O.D.,1.022T I.D.,0.2300 Depth
Guide	Both	140-8200	0.3165 I.D.,1.992 Length,0.5538 O.D.,W/ Snap Ring,OEM # 817323090
Spring	Both	160-1095	1.700 Length,OEM # 901274805

91 C.I., (1.5L), UA Forklift Mazda **UA 3**
 L4 91 CID **BORE - 75mm/2.953"**

PART		PART NO.	NOTES
Valve	Int Exh	13061 13062S	1.476 Head Diameter,OEM # 0107-12-111 1.181 Head Diameter,Stellite Face,OEM # 0107-12-121
Stem Seal	Both	122-1382	Positive Type,Viton Material,Metal Clad Style,OEM # 0552-12-127
Guide	Both	140-8171	0.3180 I.D.,2.520 Length,0.5918 O.D.,OEM # 0552-10-104
Spring	Both	160-1513	1.962 Length,OEM # 0552-12-114

121 C.I., (2.0L), VA Forklift Mazda **VA 4**
 L4 121 CID **BORE - 82mm/3.228"**

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1625-2 SB1375-3N	1 $\frac{5}{8}$ O.D.,1 $\frac{3}{8}$ I.D., $\frac{1}{4}$ Depth,Also Available In Non-Magnetic (N) Material 1 $\frac{3}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{3}{16}$ Depth
Valve	Int Exh	10744 10745	1.553 Head Diameter,OEM # 0552-12-111 1.181 Head Diameter,OEM # 0552-12-121
Stem Seal	Both	122-1382	Positive Type,Viton Material,Metal Clad Style,OEM # 0552-12-127
Guide	Both	140-8171	0.3180 I.D.,2.520 Length,0.5918 O.D.,OEM # 0552-10-104
Spring	Both	160-1513	1.962 Length,OEM # 0552-12-114

122 C.I., (2.0L), FE Forklift Mazda **IND-FE 5**
 L4 122 CID **BORE - 86mm/3.386"**

PART		PART NO.	NOTES
Valve	Int Exh	10236 10237	1.732 Head Diameter,OEM # F8012111A, W/ 45 Degree Seat Angle 1.417 Head Diameter,OEM # F80112121A, W/ 45 Degree Seat Angle
Stem Seal	Both	122-1132	Positive Type,Viton Material,Metal Clad Style,OEM # 901274801
Guide	Both	140-8172	0.3180 I.D.,2.177 Length,0.5531 O.D.,W/ Snap Ring,OEM # F8012390
Spring	Both	160-1096 160-1097	1.720 Length,Inner, OEM # 901294805 1.958 Length,Outer, OEM # 901294804

133 C.I., (2.2L), F2 Forklift Yale **IND-F2 6**
 L4 133 CID **BORE - 86.106mm/3.39"**

PART		PART NO.	NOTES
Valve	Int Exh	10236 10237	1.732 Head Diameter,OEM # F80112111A 1.417 Head Diameter,OEM # F80112121A
Stem Seal	Both	122-1132	Positive Type,Viton Material,Metal Clad Style,OEM # 901274801
Guide	Both	140-8172	0.3180 I.D.,2.177 Length,0.5531 O.D.,W/ Snap Ring,OEM # F80123090
Spring	Both	160-1096 160-1097	1.720 Length,Inner, OEM # 901294805 1.958 Length,Outer, OEM # 901294804

MERCEDES BENZ / PASSENGER CAR

Engine	Models	Line No.
6 Cylinder		
2746cc, (2.8L), DOHC, GAS, CARB, FI (1973-80)	280, 280C, 280CE, 280E, 280S, 280SE	1
2987cc, (3.0L), DOHC, TURBO, DIESEL, FI, 24 Valve, OM642 (2007-13)	E320, E350, R320, R350, S350	2
8 Cylinder		
3504cc, (3.5L), GAS, FI (1970-71)	280SE, 300SEL	3
3839cc, (3.8L), SOHC, GAS, FI, 16 Valve (1981-85)	380SE, 380SEC, 380SEL, 380SL, 380SLC	4
4520cc, (4.5L), SOHC, GAS, FI (1972-80)	280SE, 280SEL, 300SEL, 350SL, 450SE, 450SEL, 450SL, 450SLC	5

1	2746cc, (2.8L), DOHC, GAS, CARB, FI	MBZ-2.8
1973-80	L6 168 CID	BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1973-80	SB1625-64	1 $\frac{5}{8}$ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Non-Magnetic (N) Material

2	2987cc, (3.0L), DOHC, TURBO, DIESEL, FI, 24 Valve, OM642	MBZ-3.0-OM642
2007-13	V6 182 CID	BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int 2007-13	13356	1.122 Head Diameter
	Exh 2007-13	13357	1.000 Head Diameter
Keeper	Both 2007-13	121-1098	3 RD Bead Type
Stem Seal	Both 2007-13	122-1456	Positive Type, Viton Material, Metal Clad Style
Spring	Int 2007-13	160-1639	1.830 Length
	Exh 2007-13	160-1640	1.835 Length
Lifter	Both 2007-13	VL561	Hydraulic Lash Adjuster Type
Rocker Components	Both 2007-13	180-1338	Roller Cam Follower

3	3504cc, (3.5L), GAS, FI	JAG-3.5
1970-71	V8 213 CID	BORE - 92mm/3.60"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1970-71	SB1625-64	1 $\frac{5}{8}$ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Non-Magnetic (N) Material

4	3839cc, (3.8L), SOHC, GAS, FI, 16 Valve	JAG-3.8
1981-85	V8 234 CID	BORE - 88mm/3.46"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Both 1981-85	SB1625-64	1 $\frac{5}{8}$ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Non-Magnetic (N) Material, Intake Seat For Engine #M116.963 Only

5	4520cc, (4.5L), SOHC, GAS, FI	MBZ-4.5
1972-80	V8 276 CID	BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1972-80	SB1625-64	1 $\frac{5}{8}$ O.D., 1.335T I.D., 0.4200 Depth, Also Available In Non-Magnetic (N) Material

MERCEDES-BENZ / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
4249cc, 259 C.I., (4.3L), OHV, 12 Valve, Direct Injection, Turbo Diesel, "OM904"		1

(Cont'd) **MERCEDES-BENZ / HEAVY DUTY**

Engine	Models	Line No.
4 Cylinder		
4801cc, 292 C.I., (4.8L), OHV, 12 Valve, Direct Injection, Turbo Diesel, "OM924"		2
6 Cylinder		
5657cc, 345 C.I., (5.7L), Direct Injected Diesel "OM352"	Unimog U1100, U1300, Mercedes Benz 353.961	3
6374cc, 389 C.I., (6.4L), OHV, 18 Valve, Direct Injection, Turbo Diesel, "OM906"		4
7201cc, 439 C.I., (7.2L), OHV, 18 Valve, Direct Injection, Turbo Diesel, "OM926"		5
12,798cc, 781 C.I., (12.8L), OHV, 24 Valve, Direct Injected, Turbo Diesel, "MBE4000 W/O EGR"	W/O EGR	6
12,798cc, 781 C.I., (12.8L), OHV, 24 Valve, Direct Injected, Turbo Diesel, "MBE4000 With EGR"	With EGR	7
4249cc, 259 C.I., (4.3L), OHV, 12 Valve, Direct Injection, Turbo Diesel, "OM904" OM904 L4 259 CID		1 BORE - 102.0mm/4.02"

PART	PART NO.	NOTES
Valve	Int 13360	1.339 Head Diameter,OEM # A9060500326
	Exh 13361	1.496 Head Diameter,OEM # A9060500327
Keeper	Both 121-1132	1 RD Bead Type,OEM # A1020530026
Stem Seal	Both 122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # A9060530358
Guide	Both 140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # A9060530130
Spring	Int 160-1643	1.961 Length,OEM # A9060530120
	Exh 160-1644	2.466 Length,OEM # A9060530020
Injector Tubes and Components	240-1047	Injector Tube,OEM # A9060170488
	240-1047R	O-Ring, Silver,OEM # A5419970345

4801cc, 292 C.I., (4.8L), OHV, 12 Valve, Direct Injection, Turbo Diesel, "OM924" OM924 L4 292 CID		2 BORE - 106.0mm/4.17"
PART	PART NO.	NOTES
Valve	Int 13360	1.339 Head Diameter,OEM # A9060500326
	Exh 13361	1.496 Head Diameter,OEM # A9060500327
Keeper	Both 121-1132	1 RD Bead Type,OEM # A1020530026
Stem Seal	Both 122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # A9060530358
Guide	Both 140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # A9060530130
Spring	Int 160-1643	1.961 Length,OEM # A9060530120
	Exh 160-1644	2.466 Length,OEM # A9060530020
Injector Tubes and Components	240-1047	Injector Tube,OEM # A9060170488
	240-1047R	O-Ring, Silver,OEM # A5419970345
5657cc, 345 C.I., (5.7L), Direct Injected Diesel "OM352" L6 345 CID		3 OM352 BORE - 97.0mm/3.8189"

PART	PART NO.	NOTES
Guide	Int 140-3071	0.3550 I.D.,2.835 Length,0.5920 O.D.,OEM # 3520531229
	Exh 140-3072	0.3940 I.D.,2.640 Length,0.5920 O.D.,OEM # A3660530230

6374cc, 389 C.I., (6.4L), OHV, 18 Valve, Direct Injection, Turbo Diesel, "OM906" OM906 L6 389 CID		4 BORE - 102.0mm/4.02"
PART	PART NO.	NOTES
Valve	Int 13360	1.339 Head Diameter,OEM # A9060500326

MERCEDES-BENZ / HEAVY DUTY (Cont'd)

4 6374cc, 389 C.I., (6.4L), OHV, 18 Valve, Direct Injection, Turbo Diesel, "OM906" OM906
(cont.) L6 389 CID BORE - 102.0mm/4.02"

PART		PART NO.	NOTES
Valve	Exh	13361	1.496 Head Diameter,OEM # A9060500327
Keeper	Both	121-1132	1 RD Bead Type,OEM # A1020530026
Stem Seal	Both	122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # A9060530358
Guide	Both	140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # A9060530130
Spring	Int	160-1643	1.961 Length,OEM # A9060530120
	Exh	160-1644	2.466 Length,OEM # A9060530020
Injector Tubes and Components		240-1047	Injector Tube,OEM # A9060170488
		240-1047R	O-Ring, Silver,OEM # A5419970345

5 7201cc, 439 C.I., (7.2L), OHV, 18 Valve, Direct Injection, Turbo Diesel, "OM926" OM926
L6 439 CID BORE - 106.0mm/4.17"

PART		PART NO.	NOTES
Valve	Int	13360	1.339 Head Diameter,OEM # A9060500326
	Exh	13361	1.496 Head Diameter,OEM # A9060500327
Keeper	Both	121-1132	1 RD Bead Type,OEM # A1020530026
Stem Seal	Both	122-1462	Positive Type,Viton Material,Metal Clad Style,OEM # A9060530358
Guide	Both	140-3176	0.3150 I.D.,2.362 Length,0.5527 O.D.,OEM # A9060530130
Spring	Int	160-1643	1.961 Length,OEM # A9060530120
	Exh	160-1644	2.466 Length,OEM # A9060530020
Injector Tubes and Components		240-1047	Injector Tube,OEM # A9060170488
		240-1047R	O-Ring, Silver,OEM # A5419970345

6 12,798cc, 781 C.I., (12.8L), OHV, 24 Valve, Direct Injected, Turbo Diesel, "MBE4000 W/O EGR" MBE4000
L6 781 CID BORE - 128.0mm/5.04"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1882E-1C	1.882 O.D.,1.595 I.D.,0.3190 Depth,OEM # A5410532531
	Exh	SB1696E-3	1.6965 O.D.,1.350R I.D.,0.3190 Depth,OEM # A5410530532
Valve	Int	13379	1.791 Head Diameter,OEM # A4570530001, A4600530001
	Exh	13424	1.618 Head Diameter,OEM # A5410227A; NOTE: 45 Degree
Keeper	Both	121-1142	1 RD Bead Type,OEM # A5410530126
Stem Seal	Both	122-1491	Positive Type,Viton Material,Metal Clad Style,Orange,OEM # A0000535858
Guide	Both	140-3175	0.3547 I.D.,2.402 Length,0.5920 O.D.,OEM # A5410532730; NOTE: Without Internal O-Ring
Spring	Both	160-1648	2.788 Length,OEM # A5410530020
Injector Tubes and Components		240-1047	Injector Tube,OEM # A9060170488
		240-1047R	O-Ring, Silver,OEM # A5419970345

7 12,798cc, 781 C.I., (12.8L), OHV, 24 Valve, Direct Injected, Turbo Diesel, "MBE4000 With EGR" MBE4000-EGR
L6 781 CID BORE - 128.0mm/5.04"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1882E-1C	1.882 O.D.,1.595 I.D.,0.3190 Depth,OEM # A5410532531
	Exh	SB1696E-4	1.6965 O.D.,1.350R I.D.,0.3055 Depth,OEM # A4570531332
Valve	Int	13379	1.791 Head Diameter,OEM # A4570530001, A4600530001
	Exh	13380	1.661 Head Diameter,OEM # A4570500327; NOTE: 36 Degree

(Cont'd) **MERCEDES-BENZ / HEAVY DUTY**

12,798cc, 781 C.I., (12.8L), OHV, 24 Valve, Direct Injected, Turbo Diesel,
"MBE4000 With EGR"

7

MBE4000-EGR (cont.)

L6 781 CID

BORE - 128.0mm/5.04"

PART		PART NO.	NOTES
Keeper	Both	121-1142	1 RD Bead Type,OEM # A5410530126
Stem Seal	Both	122-1492	Positive Type,Viton Material,Metal Clad Style,Green,OEM # A40000533558
Guide	Both	140-3175	0.3547 I.D.,2.402 Length,0.5920 O.D.,OEM # A5410532730; NOTE: Without Internal O-Ring
Spring	Both	160-1648	2.788 Length,OEM # A5410530020
Injector Tubes and Components		240-1047	Injector Tube,OEM # A9060170488
		240-1047R	O-Ring, Silver,OEM # A5419970345

MERCEDES-BENZ TRUCK / PASSENGER TRUCK

Engine	Models	Line No.
6 Cylinder		
2987cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, OM642 (2007-17)	GL320, GL350, GLE350d, GLS350d, ML320, ML350, Sprinter 2500, Sprinter 3500	1

2987cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, OM642 **MBT-OM642 1**
2007-17 V6 182 CID BORE - 83mm/3.27"

PART		YEARS	PART NO.	NOTES
Valve	Int	2007-16	13356	1.122 Head Diameter,OEM # A6420530401
	Exh	2007-16	13357	1.000 Head Diameter,OEM # A6420500527, NOTE Except 642.826 Engine Version
Keeper	Both	2007-16	121-1098	3 RD Bead Type,OEM # A0000531126
Stem Seal	Both	2007-16	122-1456	Positive Type,Viton Material,Metal Clad Style,OEM # A0000535658
Spring	Int	2007-16	160-1639	1.830 Length,OEM # A6680530020
	Exh	2007-16	160-1640	1.835 Length,OEM # A6420530320
Lifter	Both	2007-16	VL561	Hydraulic Lash Adjuster Type,OEM # A6420500080
Rocker Components	Both	2007-16	180-1338	Roller Cam Follower,OEM # A6420500133

MERCURY / MARINE

Engine	Models	Line No.
4 Cylinder		
153 C.I., (2.5L), 153 Mercruiser GM	110, 120	1
181 C.I., (3.0L), 181 Mercruiser	140	2
224 C.I., (3.7L), 224 Mercruiser	470	3
6 Cylinder		
230 C.I., (3.8L), 230 Mercruiser Chevrolet 12 Valve	150	4
250 C.I., (4.1L), 250 Mercruiser Chevrolet 12 Valve	140, 160, 165	5
8 Cylinder		
283 C.I., (4.6L), 283 Mercruiser Chevrolet	190	6
302 C.I., (5.0L), 302 Mercruiser Ford		7
302 C.I., (5.0L), 302 Mercruiser Chevrolet		8
305 C.I., (5.0L), 305 Mercruiser Chevrolet	228	9
350 C.I., (5.7L), 350 Mercruiser Chevrolet		10

MERCURY / MARINE (Cont'd)

Engine	Models	Line No.
8 Cylinder		
351 C.I., (5.8L), 351 Mercruiser Ford		11
454 C.I., (7.4L), 454 Mercruiser Chevrolet		12
496 C.I., (8.1L), 496 Mercruiser Chevrolet "Vortec" 8100		13
502 C.I., (8.2L), 502 Mercruiser Chevrolet		14

1 153 C.I., (2.5L), 153 Mercruiser GM **MER153**
L4 153 CID **BORE - 98.425mm/3.80"**

PART		PART NO.	NOTES	
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth	
	Exh	SB1562-9	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material	
Valve	Int	01193	1.720 Head Diameter, +3 & +15 O/S Stem Available	
	Exh	01206S	1.500 Head Diameter, Stellite Face, +15 O/S Stem Available, To S/N 3377340	
		01646S	1.500 Head Diameter, Inconel, Stellite Face, W/ .3719 Stem Dia., Optional	
Keeper	Both	121-1003	1 SQ Bead Type	
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style	
		122-1037	Umbrella Type, Poly Material, Umbrella Style	
		122-1043	O-Ring Type, Nitrile Material, O-Ring Style, Machine Guide To 0.562 O.D.	
		122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems	
		122-1270	Umbrella Type, Viton Material, Umbrella Style	
Guide	Int	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)	
	Exh	140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)	
Spring	Both	160-1117	2.030 Length, 1st Design W/O Rotator	
		160-1125	2.050 Length, W/ Damper, 2nd Design, W/O Rotator	
Lifter	Both	VL37	Hydraulic Type	
Rocker Components	Both	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut	
		184-1038		Nut, ³ / ₈
		183-1024		Smooth Ball, ³ / ₈
Push Rod	Both	192-1330	9.682 Length	

2 181 C.I., (3.0L), 181 Mercruiser **MER181**
L4 181 CID **BORE - 101.6mm/4.00"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2000-7	2.000 O.D., 1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth
	Exh	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
Valve	Int	01195	1.940 Head Diameter, +3 & +15 O/S Stem Available
	Exh	00919	1.600 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1077	Positive Type, Viton Material, Ring & Band Style
		122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	140-7459	0.3430 I.D., 2.375 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		140-9459	0.3430 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Exh	140-7946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Plain I.D. Conversion Guide
		140-9946	0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
Spring	Both	160-1125	2.050 Length, W/ Damper

(Cont'd) MERCURY / MARINE**181 C.I., (3.0L), 181 Mercruiser**
L4 181 CID**MER181 2**
BORE - 101.6mm/4.00" (cont.)

PART		PART NO.	NOTES
Lifter	Both	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		VL73	Hydraulic Type
Rocker Components	Both	181-1012 184-1038 183-1024	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut, 3/8 Smooth Ball, 3/8
Push Rod	Both	192-1330	9.682 Length

224 C.I., (3.7L), 224 Mercruiser
L4 224 CID**MER224 3**
BORE - 110.74mm/4.30"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-1	2 1/4 O.D., 1 15/16 I.D., 3/16 Depth
	Exh	SB1750-2	1 3/4 O.D., 1 1/2 I.D., 7/32 Depth, +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.680 Valve Head Dia.
Valve	Int	01272	2.083 Head Diameter,Can Be Used To Replace Early Valve W/ Shorter Tip To Groove Length, Must Use Late Spring, +15 O/S Stem Available
	Exh	01271	1.654 Head Diameter,Can Be Used To Replace Early Valve W/ Shorter Tip To Groove Length, Must Use Late Spring, +15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Guide	Both	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	160-1161	2.068 Length,From S/N 4208730. Can Be Used To Replace Long Spring In Full Sets As Long As Late Valves Are Installed.
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1233	Rocker Arm, Stamped
		181-1034	Rocker Arm Kit, Includes (1) Stamped R. Arm, (1) Fulcrum, (1) 5/16 Bolt, 5/16
		184-1034	Fulcrum
		183-1022	
Push Rod	Both	190-1425	8.550 Length,+60 O/S (190-1425+60) Available

230 C.I., (3.8L), 230 Mercruiser Chevrolet 12 Valve
L6 230 CID**MER230 4**
BORE - 98.425mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 15/16 O.D., 1 1/2 I.D., 7/32 Depth
	Exh	SB1562-9	1 9/16 O.D., 1 5/16 I.D., 7/32 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style,1986 - Early 1987 Guide Height 5.8mm
		122-1074	Positive Type,Viton Material,Ring & Band Style,1986 - Early 1987 Guide Height 5.8mm
		122-1075	Positive Type,Viton Material,Ring & Band Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 1/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
Spring	Both	160-1125	2.050 Length,W/ Damper,W/ Rotator
		160-1148	1.900 Length,W/O Rotator
Lifter	Both	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		VL73	Hydraulic Type
Rocker Components	Both	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut

MERCURY / MARINE (Cont'd)

4 230 C.I., (3.8L), 230 Mercruiser Chevrolet 12 Valve MER230
 (cont.) L6 230 CID BORE - 98.425mm/3.80"

PART		PART NO.	NOTES
Rocker Components	Both	184-1038	Nut, 3/8
		183-1024	Smooth Ball, 3/8
Push Rod	Both	192-1330	9.682 Length

5 250 C.I., (4.1L), 250 Mercruiser Chevrolet 12 Valve MER250
 L6 250 CID BORE - 98.425mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth
	Exh	SB1562-9	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	01193	1.720 Head Diameter, +3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter, Stellite Face, +15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style, 1986 - Early 1987 Guide Height 5.8mm
		122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia.; Use W/ Factory Guide Boss
		122-1074	Positive Type, Viton Material, Ring & Band Style
		122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	160-1125	2.050 Length, W/ Damper, W/ Rotator
		160-1148	1.900 Length, W/O Rotator
Lifter	Both	VL117RH	Hydraulic High Performance Type, NOTE: Must be used with adjustable valve train.
		VL73	Hydraulic Type
Rocker Components	Both	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		184-1038	
		183-1024	
Push Rod	Both	192-1330	9.682 Length

6 283 C.I., (4.6L), 283 Mercruiser Chevrolet MER283
 V8 283 CID BORE - 98.425mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth
	Exh	SB1562-9	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	01193	1.720 Head Diameter, +3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter, Stellite Face, +15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
		122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		122-1048	Positive Type, Poly Material, 2-Ring Style, Use W/ Factory Guide Boss
		122-1074	Positive Type, Viton Material, Ring & Band Style
		122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		322-1003	Positive Type, Teflon Material, All Teflon Style

(Cont'd) MERCURY / MARINE**283 C.I., (4.6L), 283 Mercruiser Chevrolet**
V8 283 CID**MER283 6**
BORE - 98.425mm/3.80" (cont.)

PART		PART NO.	NOTES
Guide	Int	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	160-1117	2.030 Length,W/ 1.220 O.D.
		160-1125	2.050 Length,W/ Damper
		160-1144	2.048 Length,W/ Damper
		160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	180-1228	Rocker Arm
		180-1239	Rocker Arm, Stamped, Long Slot
		180-1283	Rocker Arm, Rail Type,Optional
		181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		184-1038	Nut, 3/8
183-1017	Smooth Ball, 3/8		
183-1032	Grooved Ball, 3/8		
Push Rod	Both	192-1331	7.798 Length

302 C.I., (5.0L), 302 Mercruiser Ford
V8 302 CID**MER302F 7**
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.461 Valve Head Dia.
		SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.541 Valve Head Dia.
Valve	Int	01328	1.782 Head Diameter,From S/N 4167000, +3 & +15 O/S Stem Available
	Exh	01237	1.541 Head Diameter,To S/N 4166999, +15 O/S Stem Available
		01327	1.461 Head Diameter,From S/N 4167000 To S/N 4615129
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
		122-1038	Umbrella Type,Poly Material,Umbrella Style
		122-1074	Positive Type,Viton Material,Ring & Band Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		322-1003	Positive Type,Teflon Material,All Teflon Style
322-1004	Positive Type,Teflon Material,All Teflon Style		
Guide	Both	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	160-1004	2.060 Length
	Exh	160-1024	1.923 Length,W/ Rotator, W/ .185 Wire Dia.
	Both	160-1041	1.965 Length
		160-1151	1.970 Length
Lifter	Both	VL35	Hydraulic Type

MERCURY / MARINE (Cont'd)

7 302 C.I., (5.0L), 302 Mercruiser Ford MER302F
 (cont.) V8 302 CID BORE - 101.6mm/4.00"

PART	PART NO.	NOTES	
Rocker Components	Both	180-1234	Rocker Arm, Stamped
		180-1238	Rocker Arm, Cast, Rail Type
		181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt
		181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) 3/8 Nut, (1) 5/16 Nut
		184-1021	Stud, 5/16
		184-1022	+6 Oversize Stud, 5/16
		184-1035	Bolt W/Washer, 5/16, From S/N BEO,001
		184-1038	Nut, 3/8
		184-1039	Nut, 5/16
		183-1020	Grooved Ball, 3/8
		183-1022	Fulcrum
	183-1030	Smooth Ball, 3/8	
Push Rod	Both	192-1409	6.876 Length, - 60 U/S (192-1409U60) Available

8 302 C.I., (5.0L), 302 Mercruiser Chevrolet MER302GM
 V8 302 CID BORE - 101.6mm/4.00"

PART	PART NO.	NOTES	
Valve Seat Insert	Int	SB1812-3	1 19/16 O.D., 1 1/2 T I.D., 7/32 Depth
	Exh	SB1562-9	1 1/16 O.D., 1 5/16 T I.D., 7/32 Depth, Also Available In Non-Magnetic (N) Material
Valve	Int	01193	1.720 Head Diameter, +3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter, Stellite Face, +15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
		122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia.; Use W/ Factory Guide Boss
		122-1074	Positive Type, Viton Material, Ring & Band Style
		122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 1/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
	Exh	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	160-1144	2.048 Length, W/ Damper, Exc. 1976-77 Exh
		160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Lifter	Both	VL37	Hydraulic Type
		VL63	Mechanical High Performance Type
Rocker Components	Both	180-1228	Rocker Arm
		180-1239	Rocker Arm, Stamped, Long Slot
		180-1283	Rocker Arm, Rail Type, Optional
		181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut, High Perf., W/ 1.5:1 Ratio
		181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		184-1038	Nut, 3/8
		183-1017	Smooth Ball, 3/8
		183-1032	Grooved Ball, 3/8
Push Rod	Both	192-1331	7.798 Length
Head Bolt Set		220-1018	This bolt is NOT Torque to Yield, 1967-69, 2 Required

(Cont'd) MERCURY / MARINE**305 C.I., (5.0L), 305 Mercruiser Chevrolet**
V8 305 CID**MER305 9**
BORE - 94.894mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth, W/ 1.720 Valve Head Dia.
		SB1937-17	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.840 Valve Head Dia.
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		SB1562-9	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, From S/N 4765100
Valve	Int	01193	1.720 Head Diameter, +3 & +15 O/S Stem Available
		01393	1.840 Head Diameter, +3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter, Stellite Face, W/ .341 Stem Dia., +15 O/S Stem Available
		01294S	1.500 Head Diameter, Stellite Face, W/ .3718T Stem Dia., +15 O/S Stem Available
		01646S	1.500 Head Diameter, Inconel, Stellite Face, W/ .3719 Stem Dia., Optional
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Exh	122-1234	Umbrella Type, Nylon Material, Umbrella Style
	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
		122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia.; Use W/ Factory Guide Boss
		122-1074	Positive Type, Viton Material, Ring & Band Style
		122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
Spring	Exh	160-1009	1.910 Length, W/ Damper
	Both	160-1144	2.048 Length, W/ Damper, Exc. 1976-77 Exh
		160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	180-1228	Rocker Arm
		180-1239	Rocker Arm, Stamped, Long Slot
		180-1283	Rocker Arm, Rail Type, Optional
		181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) ³ / ₈ Nut, High Perf., W/ 1.5:1 Ratio
		181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) ³ / ₈ Nut, Optional
		184-1038	Nut, ³ / ₈
		183-1017	Smooth Ball, ³ / ₈
		183-1032	Grooved Ball, ³ / ₈
Push Rod	Both	192-1331	7.798 Length

350 C.I., (5.7L), 350 Mercruiser Chevrolet
V8 350 CID**MER350 10**
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth, W/ 1.720 Valve Head Dia.
		SB2000-7	2.000 O.D., 1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.940 Valve Head Dia.
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		SB1562-1N	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, Optional "N" Material
		SB1562-9	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
		SB1625-3N	1 ⁵ / ₈ O.D., 1 ⁵ / ₁₆ I.D., ¹ / ₄ Depth, For Vortec Heads W/ Factory Installed Seats
Valve	Int	01193	1.720 Head Diameter, 0.342 Stem Dia., +3 & +15 O/S Stem Available

MERCURY / MARINE (Cont'd)

10 350 C.I., (5.7L), 350 Mercruiser Chevrolet
(cont.) V8 350 CID

MER350
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve	Int	01195	1.940 Head Diameter,+3 & +15 O/S Stem Available
		01762R	1.940 Head Diameter,Vortec Heads
	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
		01294S	1.500 Head Diameter,Stellite Face,Chrome Plated, W/ .3718T Stem Dia., +15 O/S Stem Available
		01646S 01807S	1.500 Head Diameter,Inconel, Stellite Face,W/ .3719 Stem Dia., Optional 1.500 Head Diameter,Stellite Face,W/O Seal Groove, Vortec Heads, +15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
		122-1037	Umbrella Type,Poly Material,Umbrella Style
		122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		122-1048	Positive Type,Poly Material,2-Ring Style,W/ .341 Stem Dia.; Use W/ Factory Guide Boss
		122-1074	Positive Type,Viton Material,Ring & Band Style
		122-1234	Umbrella Type,Nylon Material,Umbrella Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		122-1270	Umbrella Type,Viton Material,Umbrella Style
		322-1003 322-1004	Positive Type,Teflon Material,All Teflon Style,With 0.500 Guide Boss Positive Type,Teflon Material,All Teflon Style,With 0.531 Guide Boss
Guide	Int	140-9867	0.3440 I.D.,2.125 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9867U)
		Exh	140-7999	0.3740 I.D.,2.200 Length,0.6205 O.D.,W/ Replaceable Exh. Guide, Use Caution When Removing Stepped O.D., NOTE: Drive Guide Out Toward Spring Seat
	Both		140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
		140-8180	0.3430 I.D.,2.275 Length,0.5577 O.D.,Aluminum Heads, +2 O/S Available
Spring	Exh Both	160-1009	1.910 Length,W/ Damper
		160-1144	2.048 Length,W/ Damper,Exc. 1973-80 Exh
		160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Rotator	Exh	161-1012	
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	180-1228	Rocker Arm
		180-1239	Rocker Arm, Stamped, Long Slot
		180-1283	Rocker Arm, Rail Type,Optional
		181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		184-1038	Nut, 3/8
		183-1017	Smooth Ball, 3/8
		183-1032	Grooved Ball, 3/8
Push Rod	Both	192-1331	7.798 Length

11 351 C.I., (5.8L), 351 Mercruiser Ford
V8 351 CID

MER351
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-17	1 ¹⁵ / ₁₆ O.D.,1 ¹¹ / ₁₆ I.D.,7/32 Depth
	Exh	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material

(Cont'd) MERCURY / MARINE**351 C.I., (5.8L), 351 Mercruiser Ford**
V8 351 CID**MER351 11**
BORE - 101.6mm/4.00" (cont.)

PART		PART NO.	NOTES
Valve	Int	01238	1.842 Head Diameter,+15 O/S Stem Available
	Exh	01237	1.541 Head Diameter,+15 O/S Stem Available
Keeper	Exh	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
		122-1047	Positive Type,Poly Material,2-Ring Style
		122-1074	Positive Type,Viton Material,Ring & Band Style
		322-1003	Positive Type,Teflon Material,All Teflon Style
Guide	Both	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Int	160-1044	2.040 Length
	Exh	160-1024	1.923 Length
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1234	Rocker Arm, Stamped
		180-1238	Rocker Arm, Cast, Rail Type
		181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt
		181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) 3/8 Nut, (1) 5/16 Nut
		184-1021	Stud, 5/16
		184-1035	Bolt W/Washer, 5/16,From S/N BEO,001
		184-1039	Nut, 5/16
		183-1020	Grooved Ball, 3/8,W/ Cast Rocker Arms, 3/8 & 5/16 Nuts
		183-1022	Fulcrum
		183-1030	Smooth Ball, 3/8,W/ Cast Rocker Arms, 3/8 & 5/16 Nuts
Push Rod	Both	190-1443	8.182 Length,W/ Stamped Rocker Arms
		192-1399	8.152 Length,W/ Cast Iron Rocker Arms

454 C.I., (7.4L), 454 Mercruiser Chevrolet
V8 454 CID**MER454 12**
BORE - 107.95mm/4.20"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2250-35	2 1/4 O.D., 1 15/16 I.D., 7/32 Depth
	Exh	SB1812-4N	1 3/16 O.D., 1 1/16 I.D., 7/32 Depth,W/ 1.720 Valve Head Dia.
		SB2000-3N	2.000 O.D., 1 5/8 I.D., 19/64 Depth,Universal Oversize To Replace Factory Installed Seat W/ 1.881 Valve Head Dia.
Valve	Int	01164	2.190 Head Diameter,From S/N 4501641 To S/N 4623114
	Exh	01261S	1.720 Head Diameter,Stellite Face,+15 O/S Stem Available
		01578S	1.720 Head Diameter,Inconel, Stellite Face,Optional
		01600	1.881 Head Diameter,Inconel
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
		122-1031	Positive Type,Poly Material,2-Ring Style
		122-1045	Umbrella Type,Poly Material,Umbrella Style,For Use W/ Single Spring
Guide	Int	140-1973	0.3735 I.D.,2.420 Length,0.6255 O.D.
	Exh	140-1972	0.3740 I.D.,2.630 Length,0.6203 O.D.,Cast Iron Heads, Use Caution When Removing Stepped O.D.
Spring	Both	160-1003	2.120 Length,Dual Spring,111# @1.880 / 331# @1.380
		160-1011	2.078 Length,W/ Damper,Single Spring
		160-1141	2.050 Length,W/ Damper
		160-1507	2.162 Length,Conical
		360-1017	2.244 Length,Dual Spring,111# @1.880 / 350# @1.380
Rotator	Exh	161-1013	

MERCURY / MARINE (Cont'd)

12 454 C.I., (7.4L), 454 Mercruiser Chevrolet MER454
(cont.) V8 454 CID BORE - 107.95mm/4.20"

PART		PART NO.	NOTES
Lifter	Both	VL163 VL37 VL63 VL73	Hydraulic Roller Type Hydraulic Type Mechanical High Performance Type Hydraulic Type, Gen V
Rocker Components	Both	180-1229 181-1014 181-1048 184-1040 183-1026	Rocker Arm Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf. Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut, High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More Nut, 7/16 Grooved Ball, 7/16
Push Rod	Int Exh	192-1337 192-1336	8.280 Length, First Design, 0.375 Dia. 9.252 Length, First Design, 0.375 Dia.

13 496 C.I., (8.1L), 496 Mercruiser Chevrolet "Vortec" 8100 MER496
V8 496 CID BORE - 108mm/4.25"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2250-1 SB1784E-1N	2 1/4 O.D., 1 15/16 I.D., 3/16 Depth, Non-Tapered I.D., Must Machine I.D. To Fit 1.784 O.D., 1.417T I.D., 0.2920 Depth, W/ Factory Installed Exh. Seat, Due To Seat Pocket Variances, Seat May Need To Be Topped
Valve	Int Exh	01164 02101 02126S	2.190 Head Diameter, Stainless Steel Alternate 2.187 Head Diameter 1.720 Head Diameter, Inconel, Stellite Face
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1345	Positive Type, Viton Material, Metal Clad Style
Guide	Int Exh	140-3025 140-3024	0.3735 I.D., 2.250 Length, 0.6265 O.D., Replaces Factory Integral Guide 0.3735 I.D., 2.620 Length, 0.6203 O.D., Guide MUST Be Removed From Spring Side Toward Combustion Chamber Of Cylinder Head
Spring	Both	160-1610	2.190 Length, Conical, OEM # 881672, 881672001
Rotator	Exh	161-1053	
Lifter	Both	VL163	Hydraulic Roller Type
Rocker Components	Both	180-1328 183-1035 184-1033	Rocker Arm, Stamped Smooth Ball, 7/16 Nut, 8mm
Push Rod	Int Exh	192-1510 192-1509	8.190 Length 9.132 Length
Head Bolt Set	Both	220-1084	Torque To Yield, 2 Required

14 502 C.I., (8.2L), 502 Mercruiser Chevrolet MER502
V8 502 CID BORE - 114mm/4.47"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB2250-35 SB1812-4N SB2000-3N	2 1/4 O.D., 1 15/16 I.D., 7/32 Depth 1 13/16 O.D., 1 9/16 I.D., 7/32 Depth, W/ 1.720 Valve Head Dia. 2.000 O.D., 1 5/8 I.D., 19/64 Depth, Universal Oversize To Replace Factory Installed Seat W/ 1.881 Valve Head Dia.
Valve	Int Exh	01164 01261S 01578S 01600	2.190 Head Diameter 1.720 Head Diameter, Stellite Face, +15 O/S Stem Available 1.720 Head Diameter, Inconel, Stellite Face, Optional 1.881 Head Diameter, Inconel
Keeper	Both	121-1007	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style

502 C.I., (8.2L), 502 Mercruiser Chevrolet
V8 502 CID

MER502 14
BORE - 114mm/4.47" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1031	Positive Type,Poly Material,2-Ring Style
		122-1045	Umbrella Type,Poly Material,Umbrella Style,For Use W/ Single Spring
Guide	Int	140-1973	0.3735 I.D.,2.420 Length,0.6255 O.D.
	Exh	140-1972	0.3740 I.D.,2.630 Length,0.6203 O.D.,Cast Iron Heads, Use Caution When Removing Stepped O.D.
		140-8256	0.3740 I.D.,2.755 Length,0.6205 O.D.,Gen VI
Spring	Both	160-1003	2.120 Length,Dual Spring,111# @1.880 / 331# @1.380
		160-1011	2.078 Length,W/ Damper,Single Spring
		160-1141	2.050 Length,W/ Damper
		160-1507	2.162 Length,Conical
		360-1017	2.244 Length,Dual Spring,111# @1.880 / 350# @1.380
Rotator	Exh	161-1013	
Lifter	Both	VL163	Hydraulic Roller Type
		VL37	Hydraulic Type
		VL63	Mechanical High Performance Type
		VL73	Hydraulic Type,Gen V
Rocker Components	Both	180-1229	Rocker Arm
		181-1014	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf.
		181-1048	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 7/16 Nut,High Perf., ZL-1 Eng. W/ .560 Camshaft Lift Or More
		184-1040	Nut, 7/16
		183-1026	Grooved Ball, 7/16
Push Rod	Int	192-1337	8.280 Length,First Design, 0.375 Dia.
	Exh	192-1336	9.252 Length,First Design, 0.375 Dia.

MINI / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1600cc, (1.6L), SOHC, GAS, FI, 16 Valve, W10B16A (2002-08)	Cooper	1
1600cc, (1.6L), SOHC, GAS, FI, 16 Valve, W11B16A "Supercharged" (2002-08)	Cooper S	2
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N12B16A (2007-10)	Cooper	3
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N14B16A "Turbocharged" (2007-10)	Cooper S, Cooper S Clubman	4
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N14B16C (2009-12)	Cooper	5
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N16B16A (2011-16)	Cooper, Cooper Countryman, Cooper Paceman	6
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N18B16A "Turbocharged" (2011-16)	Cooper, Cooper Countryman, Cooper Paceman	7
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N18B16C "Turbocharged" (2013-16)	Cooper, Cooper Countryman, Cooper Paceman	8

1600cc, (1.6L), SOHC, GAS, FI, 16 Valve, W10B16A
2002-08 L4 98 CID

W10B16A 1
BORE - 77mm/3.03"

PART		YEARS	PART NO.	NOTES
Valve	Int	2002-06	13222	1.191 Head Diameter
		2007-08	13321	1.181 Head Diameter

MINI / PASSENGER CAR (Cont'd)

1 1600cc, (1.6L), SOHC, GAS, FI, 16 Valve, W10B16A W10B16A
 (cont.) 2002-08 L4 98 CID BORE - 77mm/3.03"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2002-06	13223	0.915 Head Diameter, Inconel
		2007-08	13322S	0.990 Head Diameter, Stellite Face
Keeper	Both	2002-06	121-1087	3 RD Bead Type
		2007-08	121-1131	3 RD Bead Type
Stem Seal	Both	2002-06	122-1251	Positive Type, Viton Material, Top Hat Style
		2007-08	122-1453	Positive Type, Viton Material, Top Hat Style
Guide	Both	2002-06	140-3168	0.2361 I.D., 1.655 Length, 0.4355 O.D.
Spring	Both	2002-06	160-1601	2.017 Length
		2007-08	160-1625	1.700 Length, Conical
Head Saver Shim		2002-08	230-2167	New Hgt. 3.820

2 1600cc, (1.6L), SOHC, GAS, FI, 16 Valve, W11B16A "Supercharged" W11B16A
 2002-08 L4 98 CID BORE - 77mm/3.03"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2002-06	13222	1.191 Head Diameter
		2007-08	13323	1.134 Head Diameter
	Exh	2002-06	13223	0.915 Head Diameter, Inconel
		2007-08	13325SN	1.031 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2002-06	121-1087	3 RD Bead Type
		2007-08	121-1131	3 RD Bead Type
Stem Seal	Both	2002-06	122-1251	Positive Type, Viton Material, Top Hat Style
		2007-08	122-1453	Positive Type, Viton Material, Top Hat Style
Guide	Both	2002-06	140-3168	0.2361 I.D., 1.655 Length, 0.4355 O.D.
		2007-08	140-3169BR	0.1970 I.D., 1.750 Length, 0.3560 O.D.
Spring	Both	2002-06	160-1601	2.017 Length
		2007-08	160-1625	1.700 Length, Conical
Head Saver Shim		2002-08	230-2167	New Hgt. 3.820

3 1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N12B16A N12B16A
 2007-10 L4 98 CID BORE - 77mm/3.03"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-10	13321	1.181 Head Diameter
	Exh	2007-10	13322S	0.990 Head Diameter, Stellite Face
Keeper	Both	2007-10	121-1131	3 RD Bead Type
Stem Seal	Both	2007-10	122-1453	Positive Type, Viton Material, Top Hat Style
Spring	Both	2007-10	160-1625	1.700 Length, Conical

4 1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N14B16A "Turbocharged" N14B16A
 2007-10 L4 97 CID BORE - 77mm/3.03"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-10	13323	1.134 Head Diameter
	Exh	2007-10	13325SN	1.031 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2007-10	121-1131	3 RD Bead Type
Stem Seal	Both	2007-10	122-1453	Positive Type, Viton Material, Top Hat Style
Guide	Both	2007-10	140-3169BR	0.1970 I.D., 1.750 Length, 0.3560 O.D.
Spring	Both	2007-10	160-1625	1.700 Length, Conical
Head Saver Shim		2007-10	230-2168	New Hgt. N/A

(Cont'd) **MINI / PASSENGER CAR**

1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N14B16C **N14B16C 5**
2009-12 L4 97 CID BORE - 77mm/3.03"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-10	13323	1.134 Head Diameter
		2011-12	13324	1.169 Head Diameter
	Exh	2009-12	13325SN	1.031 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2009-12	121-1131	3 RD Bead Type
Stem Seal	Both	2009-12	122-1453	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-12	140-3169BR	0.1970 I.D.,1.750 Length,0.3560 O.D.
Spring	Both	2009-12	160-1625	1.700 Length,Conical
Head Saver Shim		2009-12	230-2168	New Hgt. N/A

1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N16B16A **N16B16A 6**
2011-16 L4 97 CID BORE - 77mm/3.03"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-16	13321	1.181 Head Diameter
	Exh	2011-16	13322S	0.990 Head Diameter,Stellite Face
Keeper	Both	2011-16	121-1131	3 RD Bead Type
Stem Seal	Both	2011-16	122-1453	Positive Type,Viton Material,Top Hat Style
Spring	Both	2011-16	160-1625	1.700 Length,Conical

1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N18B16A "Turbocharged" **N18B16A 7**
2011-16 L4 97 CID BORE - 77mm/3.03"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-16	13324	1.169 Head Diameter
	Exh	2011-16	13325SN	1.031 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2011-16	121-1131	3 RD Bead Type
Stem Seal	Both	2011-16	122-1453	Positive Type,Viton Material,Top Hat Style
Spring	Both	2011-16	160-1625	1.700 Length,Conical

1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, N18B16C "Turbocharged" **N18B16C 8**
2013-16 L4 97 CID BORE - 77mm/3.03"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2013-16	13324	1.169 Head Diameter
	Exh	2013-16	13325SN	1.031 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-16	121-1131	3 RD Bead Type
Stem Seal	Both	2013-16	122-1453	Positive Type,Viton Material,Top Hat Style
Spring	Both	2013-16	160-1625	1.700 Length,Conical

MINNEAPOLIS MOLINE / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
220 C.I., (3.6L)		1
283 C.I., (4.6L)		2
336 C.I., (5.5L), 336-4		3
403 C.I., (6.6L), 403-4		4
6 Cylinder		
425 C.I., (7.0L), LPG 12 Valve		5
605 C.I., (9.9L), 605-6A 12 Valve		6
800 C.I., (13.1L), HD800-6A 12 Valve	From S/N 27000 000	7

MINNEAPOLIS MOLINE / HEAVY DUTY (Cont'd)

Engine		Models		Line No.
12 Cylinder		1210 C.I., (19.8L), 1210-12A		8
1 220 C.I., (3.6L)		L4 220 CID		220_4A BORE - 95.3mm/3.75"
PART		PART NO.	NOTES	
Guide	Both	140-1974	0.3445 I.D., 2.310 Length, 0.6260 O.D.	
2 283 C.I., (4.6L)		L4 283 CID		283_A4 BORE - 107.9mm/4.20"
PART		PART NO.	NOTES	
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material	
	Exh	SB1625-1N	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth	
Valve	Int	00160	1.718 Head Diameter, OEM # KE283B	
	Exh	00159	1.594 Head Diameter, OEM # KE284B	
Keeper	Both	121-1006	2 RD Bead Type, OEM # 10A6555	
Stem Seal	Both	122-1225	Positive Type, Tef/Rub Material, 1-Ring Style, OEM # 10A27215	
Guide	Both	140-1914	0.4370 I.D., 3.125 Length, 0.7515 O.D., OEM # 10A6912	
		140-7371	0.4365 I.D., 3.000 Length, 0.7510 O.D., Machined For Seal, OEM # 10A26421	
3 336 C.I., (5.5L), 336-4		L4 336 CID		336_4 BORE - 117.4mm/4.625"
PART		PART NO.	NOTES	
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material	
	Exh	SB1625-1N	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth	
Valve	Int	00160	1.718 Head Diameter, OEM # KE283B	
	Exh	00159	1.594 Head Diameter, OEM # 10A10073	
Keeper	Both	121-1006	2 RD Bead Type, OEM # 10A6555	
Stem Seal	Both	122-1225	Positive Type, Tef/Rub Material, 1-Ring Style, OEM # 10A27215	
Guide	Both	140-1914	0.4370 I.D., 3.125 Length, 0.7515 O.D., OEM # 10A6912	
		140-7371	0.4365 I.D., 3.000 Length, 0.7510 O.D., Machined For Seal, OEM # 10A26421	
4 403 C.I., (6.6L), 403-4		L4 403 CID		403_4 BORE - 117.4mm/4.625"
PART		PART NO.	NOTES	
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material	
	Exh	SB1750-9	1 ³ / ₄ O.D., 1 ³ / ₈ I.D., 5/16 Depth	
Valve	Int	00160	1.718 Head Diameter, OEM # KE283B	
	Exh	00159	1.594 Head Diameter, OEM # KE284B	
Keeper	Both	121-1006	2 RD Bead Type, OEM # 10A6555	
Stem Seal	Both	122-1225	Positive Type, Tef/Rub Material, 1-Ring Style, OEM # 10A27215	
Guide	Both	140-1914	0.4370 I.D., 3.125 Length, 0.7515 O.D., OEM # 10A6912	
		140-7371	0.4365 I.D., 3.000 Length, 0.7510 O.D., Machined For Seal, OEM # 10A26421	

(Cont'd) **MINNEAPOLIS MOLINE / HEAVY DUTY**

425 C.I., (7.0L), LPG 12 Valve **425_6_A 5**
L6 425 CID **BORE - 107.9mm/4.20"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-1N	1 ¹ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth
Valve	Int	00160	1.718 Head Diameter, OEM # 10R35
	Exh	00159	1.594 Head Diameter, OEM # 10R36
Keeper	Both	121-1006	2 RD Bead Type, OEM # 10A6555
Stem Seal	Both	122-1225	Positive Type, Tef/Rub Material, 1-Ring Style, OEM # 10A27215
Guide	Int	140-7421	0.4370 I.D., 4.375 Length, 0.7510 O.D., OEM # 10A29502
	Exh	140-7420	0.4370 I.D., 3.875 Length, 0.7510 O.D., OEM # 10A29501

605 C.I., (9.9L), 605-6A 12 Valve **605_6A 6**
L6 605 CID **BORE - 117.4mm/4.625"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-1N	1 ¹ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth
Valve	Int	00160	1.718 Head Diameter, OEM # 10R35
	Exh	00159	1.594 Head Diameter, OEM # 10R36
Keeper	Both	121-1006	2 RD Bead Type, OEM # 10A6555
Stem Seal	Both	122-1225	Positive Type, Tef/Rub Material, 1-Ring Style, OEM # 10A27215
Guide	Both	140-1914	0.4370 I.D., 3.125 Length, 0.7515 O.D., OEM # 10A6912
		140-7371	0.4365 I.D., 3.000 Length, 0.7510 O.D., Machined For Seal, OEM # 10A26421

800 C.I., (13.1L), HD800-6A 12 Valve **HD800_6A 7**
L6 800 CID **BORE - 134.925mm/5.312"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2562-1	2 ⁹ / ₁₆ O.D., 2 ³ / ₁₆ I.D., 1/4 Depth
	Exh	SB2187-1C	2 ³ / ₁₆ O.D., 1 ¹³ / ₁₆ I.D., 1/4 Depth, Stellite
Valve	Int	00983	2.375 Head Diameter, From S/N 27000000, OEM # 10A20408
	Exh	00982S	2.000 Head Diameter, Stellite Face, From S/N 27000000 45 Degree Seat, OEM # 10A19206
Stem Seal	Both	122-1207	Positive Type, Tef/Rub Material, 1-Ring Style, OEM # 10A20420
Guide	Both	140-7372	0.4990 I.D., 3.500 Length, 0.8135 O.D., OEM # 10A26467
Spring	Both	160-1429	3.302 Length, OEM # 10A19116

1210 C.I., (19.8L), 1210-12A **1210_12A 8**
V12 1210 CID **BORE - 117.4mm/4.625"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., 1/4 Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1625-1N	1 ¹ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth
Valve	Int	00160	1.718 Head Diameter, OEM # 10R35
	Exh	00159	1.594 Head Diameter, OEM # 10R36
Keeper	Both	121-1006	2 RD Bead Type, OEM # 10A6555
Stem Seal	Both	122-1225	Positive Type, Tef/Rub Material, 1-Ring Style, OEM # 10A27215
Guide	Both	140-1914	0.4370 I.D., 3.125 Length, 0.7515 O.D., OEM # 10A6912
		140-7371	0.4365 I.D., 3.000 Length, 0.7510 O.D., Machined For Seal, OEM # 10A26421

MITSUBISHI / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1468cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin K "G15B" (1985-88)	Mirage	1
1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin X "4G15" (1989-90)	Mirage	2
1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin J "G4DJ" (1990-94)	Precis	3
1468cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin A, "4G15" (1991-02)	Mirage	4
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Z "4G61 TURBO" (1989-89)	Mirage Turbo	5
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Y "4G61" (1991-92)	Mirage	6
1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin F "G32B TURBO" (1985-88)	Mirage Turbo	7
1755cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, T "4G37" (1990-94)	Eclipse	8
1795cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin 4, "G62B" (1983-83)	Cordia, Tredia	9
1795cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin G, "G62B Turbo" (1984-88)	Cordia, Tredia	10
1834cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin C, D, 4G93 (1992-02)	Expo LRV, Mirage	11
1997cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin 5, D, "G63B" (1983-89)	Cordia, Mighty Max, Tredia	12
1997cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin V "4G63" (1989-92)	Galant	13
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin E, R "4G63" (1989-94)	Eclipse, Galant	14
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, U, "4G63 TURBO" (1990-99)	Eclipse, Galant	15
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y, 420A "Chrysler" (1995-99)	Eclipse	16
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin C, D, "4G63 TURBO" (2003-06)	Lancer	17
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin U, "4B11 MIVEC" (2008-16)	Lancer, Outlander Sport, RVR	18
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin V, "4B11 MIVEC TURBO" (2008-15)	Lancer Turbo	19
1999cc, (2.0L), SOHC, GAS, FI, 16 Valve, Vin E, 4G94 (2002-07)	Lancer	20
2346cc, (2.3L), SOHC, DIESEL, FI, 8 Valve, Vin 9, J "4D55" (1983-85)	Mighty Max	21
2351cc, (2.4L), SOHC, GAS, FI, 12 Valve, Vin L "G64B" (1985-88)	Galant, Van	22
2351cc, (2.4L), DOHC, GAS, FI, 16 Valve "4G64" (1994-95)	Galant	23
2351cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin G, W, "4G64" (1989-94)	Expo, Mighty Max, Van	24
2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G, "4G64" (1993-05)	Eclipse, Expo, Expo LRV, Galant, Lancer, Montero Sport, Outlander	25

(Cont'd) **MITSUBISHI / PASSENGER CAR OR TRUCK**

Engine	Models	Line No.
4 Cylinder		
2360cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin W, "4B12 MIVEC" (2008-16)	Lancer, Outlander, Outlander Sport	26
2378cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin F, 4G69 (2005-12)	Eclipse, Galant, Lancer, Outlander	27
2555cc, (2.6L), SOHC, GAS, CARB, 8 Valve, Vin 7, E "G54B" (1983-89)	Mighty Max, Montero	28
2555cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin H, N "G54B TURBO" (1986-89)	Starion Turbo	29
6 Cylinder		
2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin H, S, "6G72" (1988-99)	3000GT, Diamante, Galant, Mighty Max, Montero, Montero Sport, Sigma	30
2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin B, J, "6G72" (1991-99)	3000GT, Diamante	31
2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, K, "6G72 TURBO" (1991-99)	3000GT	32
2972cc, (3.0L), SOHC, GAS, FI, 24 Valve, Vin H, L, P, "6G72" (1995-05)	Eclipse, Galant, Montero, Montero Sport	33
2998cc, (3.0L), SOHC, GAS, FI, 24 Valve, Vin X, 6B31 "6B31 MIVEC" (2007-16)	Outlander	34
3497cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin M "6G74" (1994-96)	Montero	35
3497cc, (3.5L), SOHC, GAS, FI, 24 Valve, Vin P, R, 6G74 (1997-04)	Diamante, Montero, Montero Sport	36
226 C.I., (3.7L), SOHC, GAS, FI, 12 Valve, Vin K "Chrysler" (2006-09)	Raider	37
3828cc, (3.8L), SOHC, GAS, FI, 24 Valve, Vin S, T, 6G75 (2003-12)	Eclipse, Endeavor, Galant, Montero	38
8 Cylinder		
285 C.I., (4.7L), SOHC, GAS, FI, 16 Valve, Vin N "Chrysler" (2006-07)	Raider	39

1468cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin K "G15B" **G15B** **1**
1985-88 **L4** **90 CID** **BORE - 75.5mm/2.97"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-88	SB1437-51	17/16 O.D.,1.130T I.D.,0.2500 Depth
	Exh	1985-88	SB1312-53	15/16 O.D.,0.980T I.D.,0.2930 Depth
Keeper	Both	1985-88	121-1031	1 RD Bead Type
Stem Seal	Both	1985-88	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1985-88	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin X "4G15" **4G15-8V** **2**
1989-90 **L4** **90 CID** **BORE - 75.5mm/2.97"**

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-90	SB1437-63	17/16 O.D.,1.181T I.D.,0.2800 Depth
	Exh	1989-90	SB1312-53	15/16 O.D.,0.980T I.D.,0.2930 Depth
Keeper	Both	1989-90	121-1031	1 RD Bead Type
Stem Seal	Both	1989-90	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Exh	1989-90	140-7589	0.2600 I.D.,1.950 Length,0.4755 O.D.

MITSUBISHI / PASSENGER CAR OR TRUCK (Cont'd)

3 1468cc, (1.5L), SOHC, GAS, FI, 8 Valve, Vin J "G4DJ"
1990-94 L4 90 CID

MIT-G4DJ
BORE - 75.5mm/2.97"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-94	SB1437-63	1 ⁷ / ₁₆ O.D., 1.181T I.D., 0.2800 Depth
	Exh	1990-94	SB1312-53	1 ⁵ / ₁₆ O.D., 0.980T I.D., 0.2930 Depth
Keeper	Both	1990-94	121-1031	1 RD Bead Type
Stem Seal	Both	1990-94	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Exh	1990-94	140-7589	0.2600 I.D., 1.950 Length, 0.4755 O.D.

4 1468cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin A, "4G15"
1991-02 L4 90 CID

4G15-12V
BORE - 75.5mm/2.97"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-02	SB1125-52	1 ¹ / ₈ O.D., 0.825T I.D., 0.2850 Depth, Use W/ Valve # 10495
	Exh	1991-02	SB1312-62	1 ⁵ / ₁₆ O.D., 1.065T I.D., 0.2850 Depth, Use W/ Valve # 10496
		1991-02	SB1437-61	1 ⁷ / ₁₆ O.D., 1.162 I.D., 0.3100 Depth
Valve	Int	1991-02	10495	1.023 Head Diameter
	Exh	1991-02	10496	1.220 Head Diameter
		1991-02	10497	1.299 Head Diameter
Keeper	Both	1991-02	121-1031	1 RD Bead Type
Stem Seal	Both	1991-02	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Exh	1991-02	140-7589	0.2600 I.D., 1.950 Length, 0.4755 O.D.

5 1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Z "4G61 TURBO"
1989-89 L4 98 CID

4G61-T
BORE - 76.9mm/3.03"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-89	SB1437-68	1 ⁷ / ₁₆ O.D., 1.135T I.D., 0.3160 Depth
	Exh	1989-89	SB1312-64	1 ⁵ / ₁₆ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1989-89	10126A	1.339 Head Diameter, Nitride
		1989-89	10126R	1.378 Head Diameter, Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1989-89	10128A	1.201 Head Diameter, Nitride
		1989-89	10128R	1.221 Head Diameter, Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1989-89	121-1031	1 RD Bead Type
Stem Seal	Both	1989-89	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1989-89	140-8193	0.2600 I.D., 1.795 Length, 0.4755 O.D., +2 O/S Available
		1989-89	340-1013BR	0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide
	Exh	1989-89	140-8194	0.2600 I.D., 1.990 Length, 0.4755 O.D., +2 O/S Available
		1989-89	340-1014BR	0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide
Lifter	Both	1989-89	VL135	Hydraulic Lash Adjuster Type

6 1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Y "4G61"
1991-92 L4 98 CID

4G61
BORE - 76.9mm/3.03"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-92	SB1437-68	1 ⁷ / ₁₆ O.D., 1.135T I.D., 0.3160 Depth
	Exh	1991-92	SB1312-64	1 ⁵ / ₁₆ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1991-92	10126A	1.339 Head Diameter, Nitride
		1991-92	10126R	1.378 Head Diameter, Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1991-92	10128A	1.201 Head Diameter, Nitride
		1991-92	10128R	1.221 Head Diameter, Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1991-92	121-1031	1 RD Bead Type

(Cont'd) MITSUBISHI / PASSENGER CAR OR TRUCK**1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin Y "4G61"**
1991-92 L4 98 CID**4G61 6****BORE - 76.9mm/3.03" (cont.)**

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1991-92	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-92	140-8193	0.2600 I.D.,1.795 Length,0.4755 O.D.,+2 O/S Available
		1991-92	340-1013BR	0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1991-92	140-8194	0.2600 I.D.,1.990 Length,0.4755 O.D.,+2 O/S Available
		1991-92	340-1014BR	0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1991-92	VL135	Hydraulic Lash Adjuster Type

1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin F "G32B TURBO"
1985-88 L4 98 CID**G32BT 7****BORE - 76.9mm/3.03"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1985-88	SB1562-50	1 $\frac{1}{16}$ O.D.,1.260T I.D.,0.2800 Depth
	Exh	1985-88	SB1375-51	1 $\frac{3}{8}$ O.D.,1.060T I.D.,0.2800 Depth
Valve	Int	1985-88	10127	1.496 Head Diameter,Round Groove
	Exh	1985-88	10129	1.220 Head Diameter,Round Groove
Keeper	Both	1985-88	121-1039	1 RD Bead Type
Stem Seal	Both	1985-88	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1985-88	140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh	1985-88	140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1985-88	160-1030	1.822 Length

1755cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, T "4G37"
1990-94 L4 107 CID**4G37 8****BORE - 80.6mm/3.17"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-94	SB1750-59	1 $\frac{3}{4}$ O.D.,1.360T I.D.,0.3150 Depth
	Exh	1990-94	SB1500-75	1 $\frac{1}{2}$ O.D.,1.180 I.D.,0.3000 Depth
Keeper	Both	1990-94	121-1039	1 RD Bead Type
Stem Seal	Both	1990-94	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-94	140-7576	0.3150 I.D.,1.735 Length,0.5145 O.D.
	Exh	1990-94	140-7577	0.3150 I.D.,1.890 Length,0.5143 O.D.,W/ Snap Ring,+2 O/S Available
Lifter	Both	1990-94	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1990-94	230-2085	New Hgt.- 3.484; Min. Hgt. 3.476

1795cc, (1.8L), SOHC, GAS, CARB, 8 Valve, Vin 4, "G62B"
1983-83 L4 109 CID**G62B 9****BORE - 81mm/3.19"**

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-83	SB1750-61	1 $\frac{3}{4}$ O.D.,1.445T I.D.,0.3100 Depth
	Exh	1983-83	SB1500-62	1 $\frac{1}{2}$ O.D.,1.220T I.D.,0.3100 Depth
Valve	Int	1983-83	10141	1.693 Head Diameter
	Exh	1983-83	10142	1.378 Head Diameter
Keeper	Both	1983-83	121-1039	1 RD Bead Type
Stem Seal	Both	1983-83	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1983-83	140-7574	0.3150 I.D.,1.848 Length,0.5145 O.D.,+2 O/S Available
	Exh	1983-83	140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1983-83	160-1031	1.875 Length

MITSUBISHI / PASSENGER CAR OR TRUCK (Cont'd)

10 1795cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin G, "G62B Turbo"
1984-88 L4 109 CID

G62BT
BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-88	SB1750-61	1¾ O.D.,1.445T I.D.,0.3100 Depth
	Exh	1984-88	SB1500-62	1½ O.D.,1.220T I.D.,0.3100 Depth
Valve	Int	1984-88	10141	1.693 Head Diameter
	Exh	1984-88	10142	1.378 Head Diameter
Keeper	Both	1984-88	121-1039	1 RD Bead Type
Stem Seal	Both	1984-88	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1984-88	140-7574	0.3150 I.D.,1.848 Length,0.5145 O.D.,+2 O/S Available
	Exh	1984-88	140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1984-85	160-1031	1.875 Length
		1985-88	160-1079	1.960 Length

11 1834cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin C, D, 4G93
1992-02 L4 112 CID

4G93
BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-02	SB1250-60	1¼ O.D.,1.023T I.D.,0.2730 Depth
	Exh	1992-92	SB1187-51	1⅝ O.D.,0.905 I.D.,0.2570 Depth
		1993-02	SB1187-54	1⅝ O.D.,0.880 I.D.,0.2800 Depth
Valve	Int	1992-02	10498	1.181 Head Diameter
	Exh	1992-02	10499	1.063 Head Diameter
Keeper	Both	1992-02	121-1096	1 RD Bead Type
Stem Seal	Both	1992-02	122-1252	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-02	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	1992-02	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both	1992-02	VL141	Hydraulic Lash Adjuster Type
Head Bolt Set		1992-02	220-1046	Torque To Yield,Services Engine
Head Saver Shim		1992-96	230-2081	New Hgt.- 4.209 - 4.217

12 1997cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin 5, D, "G63B"
1983-89 L4 122 CID

G63B
BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-89	SB1750-61	1¾ O.D.,1.445T I.D.,0.3100 Depth
	Exh	1983-89	SB1500-62	1½ O.D.,1.220T I.D.,0.3100 Depth
Valve	Int	1983-89	10141	1.693 Head Diameter
	Exh	1983-89	10142	1.378 Head Diameter
Keeper	Both	1983-89	121-1039	1 RD Bead Type
Stem Seal	Both	1983-89	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1983-89	140-7574	0.3150 I.D.,1.848 Length,0.5145 O.D.,+2 O/S Available
	Exh	1983-89	140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1983-84	160-1031	1.875 Length
		1984-89	160-1079	1.960 Length
Lifter	Both	1983-89	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1983-89	230-2001	New Hgt.- 3.5430; Min. Hgt.- 3.5230

13 1997cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin V "4G63"
1989-92 L4 122 CID

4G63-SC
BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-92	SB1750-61	1¾ O.D.,1.445T I.D.,0.3100 Depth

(Cont'd) MITSUBISHI / PASSENGER CAR OR TRUCK**1997cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin V "4G63"**
1989-92 L4 122 CID**4G63-SC 13**
BORE - 85mm/3.35" (cont.)

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1989-92	SB1500-62	1½ O.D., 1.220T I.D., 0.3100 Depth
Valve	Int	1989-92	10141	1.693 Head Diameter
	Exh	1989-92	10142	1.378 Head Diameter
Keeper	Both	1989-92	121-1039	1 RD Bead Type
Stem Seal	Both	1989-92	122-1086	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1989-92	140-7574	0.3150 I.D., 1.848 Length, 0.5145 O.D., +2 O/S Available
	Exh	1989-92	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, +2 & +6 O/S Available
Spring	Both	1989-92	160-1079	1.960 Length
Lifter	Both	1989-92	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-92	230-2001	New Hgt. - 3.5430; Min. Hgt. - 3.5230

1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin E, R "4G63"
1989-94 L4 122 CID**4G63-DC 14**
BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-94	SB1437-68	17/16 O.D., 1.135T I.D., 0.3160 Depth
	Exh	1989-94	SB1312-64	19/16 O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1989-94	10126A	1.339 Head Diameter, Nitride
		1989-94	10126R	1.378 Head Diameter, Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1989-94	10128A	1.201 Head Diameter, Nitride
		1989-94	10128R	1.221 Head Diameter, Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1989-94	121-1031	1 RD Bead Type
Stem Seal	Both	1989-94	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1989-94	140-8193	0.2600 I.D., 1.795 Length, 0.4755 O.D., +2 O/S Available
		1989-94	340-1013BR	0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide
	Exh	1989-94	140-8194	0.2600 I.D., 1.990 Length, 0.4755 O.D., +2 O/S Available
		1989-94	340-1014BR	0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide
Lifter	Both	1989-94	VL135	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-94	230-2001	New Hgt. - 5.1968 - 5.2010; Min. Hgt. - 5.1880

1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, U, "4G63 TURBO"
1990-99 L4 122 CID**4G63-DCT 15**
BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-99	SB1437-68	17/16 O.D., 1.135T I.D., 0.3160 Depth
	Exh	1990-99	SB1312-64	19/16 O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1990-99	10126A	1.339 Head Diameter, Nitride
		1990-99	10126R	1.378 Head Diameter, Performance Version W/ 1.0mm Larger Head Diameter
	Exh	1990-99	10128A	1.201 Head Diameter, Nitride
		1990-99	10128R	1.221 Head Diameter, Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	1990-99	121-1031	1 RD Bead Type
Stem Seal	Both	1990-99	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1990-99	140-8193	0.2600 I.D., 1.795 Length, 0.4755 O.D., +2 O/S Available
		1990-99	340-1013BR	0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide
	Exh	1990-99	140-8194	0.2600 I.D., 1.990 Length, 0.4755 O.D., +2 O/S Available
		1990-99	340-1014BR	0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide
Lifter	Both	1990-99	VL135	Hydraulic Lash Adjuster Type

MITSUBISHI / PASSENGER CAR OR TRUCK (Cont'd)

15 1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin F, U, "4G63 TURBO" 4G63-DCT
 (cont.) 1990-99 L4 122 CID BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES
Head Saver Shim	1990-99	230-2001	New Hgt.- 5.1970; Min. Hgt.- 5.1890

16 1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y, 420A "Chrysler" 420A
 1995-99 L4 122 CID BORE - 87.5mm/3.44"

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	1995-99 1995-99	01730 01731	1.370 Head Diameter,1 Groove 1.201 Head Diameter,1 Groove
Keeper	Both	1995-99	121-1086	1 RD Bead Type
Stem Seal	Both	1995-99	122-1251	Positive Type,Viton Material,Top Hat Style
Guide	Both	1995-99	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.,+2 O/S Available
Spring	Both	1995-99	160-1347	1.840 Length
Lifter	Both	1995-99	VL173	Hydraulic Lash Adjuster Type
Rocker Components	Both	1995-99	180-1324	Roller Cam Follower
Head Bolt Set		1995-99	220-1072	Torque To Yield,Services Engine
Head Saver Shim		1995-99	230-2083	New Hgt.- 5.4115 - 5.4193; Min. Hgt. 5.4035

17 1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin C, D, "4G63 TURBO" 2.0-EVO
 2003-06 L4 122 CID BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2003-06 2003-06 2003-06 2003-06	10126A 10126R 10128A 10128R	1.339 Head Diameter,Nitride 1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter 1.201 Head Diameter,Nitride 1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter
Keeper	Both	2003-06	121-1031	1 RD Bead Type
Stem Seal	Both	2003-06	122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int Exh	2003-06 2003-06 2003-06 2003-06	140-8193 340-1013BR 140-8194 340-1014BR	0.2600 I.D.,1.795 Length,0.4755 O.D. 0.2598 I.D.,1.795 Length,0.4760 O.D.,Optional Bronze Guide 0.2600 I.D.,1.990 Length,0.4755 O.D. 0.2598 I.D.,1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	2003-06	VL135	Hydraulic Lash Adjuster Type

18 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin U, "4B11 MIVEC" 4B11
 2008-16 L4 122 CID BORE - 86mm/3.40"

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2008-16 2008-16	13255 13256	1.378 Head Diameter 1.142 Head Diameter
Keeper	Both	2008-16	121-1060	1 RD Bead Type
Stem Seal	Both	2008-16	122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-16	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

19 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin V, "4B11 MIVEC TURBO" 4B11T
 2008-15 L4 122 CID BORE - 86mm/3.40"

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	2008-15 2008-15	13255 13397	1.378 Head Diameter 1.142 Head Diameter
Keeper	Both	2008-15	121-1060	1 RD Bead Type
Stem Seal	Both	2008-15	122-1440	Positive Type,Viton Material,Top Hat Style

(Cont'd) **MITSUBISHI / PASSENGER CAR OR TRUCK**

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin V, "4B11 MIVEC TURBO" 4B11T **19**
2008-15 L4 122 CID BORE - 86mm/3.40" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both 2008-15	140-3154	0.2168 I.D.,1.740 Length,0.4358 O.D.

1999cc, (2.0L), SOHC, GAS, FI, 16 Valve, Vin E, 4G94 4G94 **20**
2002-07 L4 122 CID BORE - 81.5mm/3.21"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2002-07 Exh 2002-07	SB1250-60 SB1187-54	1¼ O.D.,1.023T I.D.,0.2730 Depth 1⅜ O.D.,0.880 I.D.,0.2800 Depth
Valve	Int 2002-07 Exh 2002-07	10498 10499	1.181 Head Diameter 1.063 Head Diameter
Keeper	Both 2002-07	121-1096	1 RD Bead Type
Stem Seal	Both 2002-07	122-1252	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2002-07 Exh 2002-07	140-8554 140-8571	0.2355 I.D.,1.790 Length,0.4360 O.D. 0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both 2002-07	VL141	Hydraulic Lash Adjuster Type
Head Bolt Set	2002-07	220-1046	Torque To Yield,Services Engine

2346cc, (2.3L), SOHC, DIESEL, FI, 8 Valve, Vin 9, J "4D55" 4D55 **21**
1983-85 L4 143 CID BORE - 90.9mm/3.58"

PART	YEARS	PART NO.	NOTES
Keeper	Both 1983-83 1984-85	121-1034 121-1039	1 SQ Bead Type 1 RD Bead Type
Stem Seal	Both 1983-85	122-1086	Positive Type,Viton Material,Metal Clad Style

2351cc, (2.4L), SOHC, GAS, FI, 12 Valve, Vin L "G64B" G64B **22**
1985-88 L4 143 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1985-88 Exh 1985-88	SB1875-51 SB1625-56	1⅞ O.D.,1.575T I.D.,0.3170 Depth 1⅝ O.D.,1.298T I.D.,0.3170 Depth,+10, +30 O/S Available
Valve	Int 1985-88 Exh 1985-88	10143 10144	1.811 Head Diameter 1.496 Head Diameter
Keeper	Both 1985-88	121-1039	1 RD Bead Type
Stem Seal	Both 1985-88	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1985-88 Exh 1985-88	140-7574 140-7575	0.3150 I.D.,1.848 Length,0.5145 O.D.,+2 O/S Available 0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both 1985-88	160-1079	1.960 Length
Lifter	Both 1985-88	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim	1985-88	230-2004	New Hgt.- 3.5430 - 3.5440; Min. Hgt.- 3.5230

2351cc, (2.4L), DOHC, GAS, FI, 16 Valve "4G64" 4G64-DC **23**
1994-95 L4 143 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1994-95 Exh 1994-95	SB1437-68 SB1312-64	1⅞ O.D.,1.135T I.D.,0.3160 Depth 1⅝ O.D.,1.045 I.D.,0.3160 Depth
Valve	Int 1994-95 1994-95 Exh 1994-95 1994-95	10126A 10126R 10128A 10128R	1.339 Head Diameter,Nitride 1.378 Head Diameter,Performance Version W/ 1.0mm Larger Head Diameter 1.201 Head Diameter,Nitride 1.221 Head Diameter,Performance Version W/ 0.5mm Larger Head Diameter

MITSUBISHI / PASSENGER CAR OR TRUCK (Cont'd)

23 2351cc, (2.4L), DOHC, GAS, FI, 16 Valve "4G64" 4G64-DC
 (cont.) 1994-95 L4 143 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1994-95 121-1031	1 RD Bead Type
Stem Seal	Both	1994-95 122-1114	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1994-95 140-8193	0.2600 I.D., 1.795 Length,0.4755 O.D.
		1994-95 340-1013BR	0.2598 I.D., 1.795 Length,0.4760 O.D.,Optional Bronze Guide
	Exh	1994-95 140-8194	0.2600 I.D., 1.990 Length,0.4755 O.D.
		1994-95 340-1014BR	0.2598 I.D., 1.990 Length,0.4755 O.D.,Optional Bronze Guide
Lifter	Both	1994-95 VL135	Hydraulic Lash Adjuster Type

24 2351cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin G, W, "4G64" 4G64-SC8V
 1989-94 L4 143 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-94 SB1875-51	1 $\frac{7}{8}$ O.D.,1.575T I.D.,0.3170 Depth
	Exh	1989-94 SB1625-56	1 $\frac{5}{8}$ O.D.,1.298T I.D.,0.3170 Depth,+10, +30 O/S Available
Valve	Int	1989-94 10143	1.811 Head Diameter
	Exh	1989-94 10144	1.496 Head Diameter
Stem Seal	Both	1989-94 122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1989-94 140-7574	0.3150 I.D., 1.848 Length,0.5145 O.D.,+2 O/S Available
	Exh	1989-94 140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1989-94 160-1079	1.960 Length
Lifter	Both	1989-94 VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1989-94 230-2004	New Hgt.- 3.5430 - 3.5440; Min. Hgt.- 3.5230

25 2351cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin G, "4G64" 4G64-SC16V
 1993-05 L4 143 CID BORE - 86.5mm/3.41"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1993-05 SB1375-62	1 $\frac{3}{8}$ O.D.,1.100T I.D.,0.3000 Depth
	Exh	1993-05 SB1250-59	1 $\frac{1}{4}$ O.D.,0.982 I.D.,0.3290 Depth
Valve	Int	1993-05 10534A	1.299 Head Diameter,Nitride
	Exh	1993-05 10535A	1.142 Head Diameter,Nitride
Keeper	Both	1993-05 121-1096	1 RD Bead Type
Stem Seal	Both	1993-05 122-1252	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1993-05 140-8554	0.2355 I.D., 1.790 Length,0.4360 O.D.,+2 O/S Available
	Exh	1993-05 140-8571	0.2360 I.D., 1.990 Length,0.4360 O.D.
Lifter	Both	1993-05 VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1993-98 230-2080	New Hgt. 4.720 - 4.730; Min. Hgt.- 4.712; NOTE: Except 1997-98 Montero
		1999-05 230-2149	New Hgt. 4.720-4.730; Min. Hgt. 4.712

26 2360cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin W, "4B12 MIVEC" 4B12
 2008-16 L4 144 CID BORE - 88mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int	2008-16 13255	1.378 Head Diameter
	Exh	2008-16 13256	1.142 Head Diameter
Keeper	Both	2008-16 121-1060	1 RD Bead Type
Stem Seal	Both	2008-16 122-1440	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-16 140-3154	0.2168 I.D., 1.740 Length,0.4358 O.D.

(Cont'd) **MITSUBISHI / PASSENGER CAR OR TRUCK**

2378cc, (2.4L), SOHC, GAS, FI, 16 Valve, Vin F, 4G69
2005-12 L4 145 CID

4G69 27
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-12	13199	1.338 Head Diameter
	Exh	2005-12	13200	1.200 Head Diameter
Keeper	Both	2005-12	121-1096	1 RD Bead Type
Stem Seal	Both	2005-12	122-1252	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2005-12	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh	2005-12	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Head Saver Shim		2005-09	230-2158	New Hgt.- 4.7244; Min. Hgt.- 4.7165

2555cc, (2.6L), SOHC, GAS, CARB, 8 Valve, Vin 7, E "G54B"
1983-89 L4 156 CID

G54B 28
BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-89	SB1875-51	17/8 O.D.,1.575T I.D.,0.3170 Depth
	Exh	1983-89	SB1625-56	15/8 O.D.,1.298T I.D.,0.3170 Depth,+10, +30 O/S Available
Valve	Int	1985-89	10145	1.810 Head Diameter,Round Groove
	Exh	1985-89	10146	1.493 Head Diameter,Round Groove,Optional Non-Stellite
		1985-89	10146S	1.493 Head Diameter,Stellite Face, Round Groove
Keeper	Both	1983-84	121-1034	1 SQ Bead Type
		1985-89	121-1039	1 RD Bead Type
Stem Seal	Both	1983-89	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1983-89	140-7574	0.3150 I.D.,1.848 Length,0.5145 O.D.,+2 O/S Available
	Exh	1983-89	140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	05/84-89	160-1079	1.960 Length
		1983-04/84	160-1031	1.875 Length
Lifter	Both	1983-89	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1983-89	230-2005	New Hgt.- 3.5430; Min. Hgt.- 3.5230

2555cc, (2.6L), SOHC, GAS, FI, 8 Valve, Vin H, N "G54B TURBO"
1986-89 L4 156 CID

G54B-T 29
BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-89	SB1875-51	17/8 O.D.,1.575T I.D.,0.3170 Depth
	Exh	1986-89	SB1625-56	15/8 O.D.,1.298T I.D.,0.3170 Depth,+10, +30 O/S Available
Valve	Int	1986-89	10145	1.810 Head Diameter,Round Groove
	Exh	1986-89	10146S	1.493 Head Diameter,Stellite Face, Round Groove,Except Intercooled Turbo
Keeper	Both	1986-89	121-1039	1 RD Bead Type
Stem Seal	Both	1986-89	122-1086	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1986-89	140-7574	0.3150 I.D.,1.848 Length,0.5145 O.D.,+2 O/S Available
	Exh	1986-89	140-7575	0.3150 I.D.,2.046 Length,0.5145 O.D.,W/ Snap Ring,+2 & +6 O/S Available
Spring	Both	1986-89	160-1079	1.960 Length
Lifter	Both	1986-89	VL141	Hydraulic Lash Adjuster Type
Head Saver Shim		1986-89	230-2005	New Hgt.- 3.5430; Min. Hgt.- 3.5230

2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin H, S, "6G72"
1988-99 V6 181 CID

6G72-SC12V 30
BORE - 89mm/3.59"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-99	SB1750-61	13/4 O.D.,1.445T I.D.,0.3100 Depth

MITSUBISHI / PASSENGER CAR OR TRUCK (Cont'd)

30 2972cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin H, S, "6G72"
(cont.) 1988-99 V6 181 CID

6G72-SC12V
BORE - 89mm/3.59"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1988-99	SB1562-69	1 ¹ / ₁₆ O.D., 1.219 I.D., 0.3170 Depth, Also Available In Non-Magnetic (N) Material
		1988-99	SB1562-69N	1 ¹ / ₁₆ O.D., 1.219 I.D., 0.3170 Depth, Optional LPG
Valve	Int	1988-99	10147	1.693 Head Diameter, 0.030 Shorter Than OEM
		1988-99	10624	1.693 Head Diameter, OEM Length
	Exh	1988-99	10148	1.378 Head Diameter, 0.030 Shorter Than OEM
		1988-99	10625	1.378 Head Diameter, OEM Length
Keeper	Both	1988-99	121-1039	1 RD Bead Type
Stem Seal	Both	1988-99	122-1086	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1988-99	140-7576	0.3150 I.D., 1.735 Length, 0.5145 O.D.
	Exh	1988-99	140-7577	0.3150 I.D., 1.890 Length, 0.5143 O.D., W/ Snap Ring, +2 O/S Available
Spring	Both	1988-99	160-1079	1.960 Length
Lifter	Both	1988-99	VL141	Hydraulic Lash Adjuster Type
Rocker Components	Both	1988-99	180-1207	Roller Rocker Arm
Head Bolt Set		1988-99	220-1021	Torque To Yield, Services Engine
Head Saver Shim		1988-94	230-2006	New Hgt. - 3.3030 - 3.3110; Min. Hgt. - 3.2950, 2 Required

31 2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin B, J, "6G72"
1991-99 V6 181 CID

6G72-DC
BORE - 91.1mm/3.59"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-99	SB1437-59	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.3050 Depth
	Exh	1991-99	SB1312-64	1 ⁵ / ₁₆ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1991-99	10500	1.375 Head Diameter
	Exh	1991-99	10501	1.200 Head Diameter
Keeper	Both	1991-99	121-1031	1 RD Bead Type
Stem Seal	Both	1991-99	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1991-99	140-8193	0.2600 I.D., 1.795 Length, 0.4755 O.D., +2 O/S Available
		1991-99	340-1013BR	0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide
	Exh	1991-99	140-8194	0.2600 I.D., 1.990 Length, 0.4755 O.D., +2 O/S Available
		1991-99	340-1014BR	0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide
Lifter	Both	1991-99	VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		1991-99	220-1021	Torque To Yield, Services Engine
Head Saver Shim		1991-99	230-2007	New Hgt. - 5.2000 - 5.2100; Min. Hgt. - 5.1888, 2 Required

32 2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, K, "6G72 TURBO"
1991-99 V6 181 CID

6G72DC-T
BORE - 91.1mm/3.59"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1991-99	SB1437-59	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.3050 Depth
	Exh	1991-99	SB1312-64	1 ⁵ / ₁₆ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1991-99	10500	1.375 Head Diameter
	Exh	1991-99	10501	1.200 Head Diameter
Keeper	Both	1991-99	121-1031	1 RD Bead Type
Stem Seal	Both	1991-99	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1991-99	140-8193	0.2600 I.D., 1.795 Length, 0.4755 O.D., +2 O/S Available
		1991-99	340-1013BR	0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide
	Exh	1991-99	140-8194	0.2600 I.D., 1.990 Length, 0.4755 O.D., +2 O/S Available
		1991-99	340-1014BR	0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide

(Cont'd) MITSUBISHI / PASSENGER CAR OR TRUCK

2972cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, K, "6G72 TURBO" 6G72DC-T 32
 1991-99 V6 181 CID BORE - 91.1mm/3.59" (cont.)

PART	YEARS	PART NO.	NOTES	
Lifter	Both	1991-99	VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		1991-99	220-1021	Torque To Yield,Services Engine
Head Saver Shim		1991-99	230-2007	New Hgt. - 5.1968

2972cc, (3.0L), SOHC, GAS, FI, 24 Valve, Vin H, L, P, "6G72" 6G72-SC24V 33
 1995-05 V6 181 CID BORE - 91.1mm/3.59"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-05	SB1375-62	1 $\frac{3}{8}$ O.D., 1.100T I.D., 0.3000 Depth
	Exh	1995-05	SB1250-59	1 $\frac{1}{4}$ O.D., 0.982 I.D., 0.3290 Depth
Valve	Int	1995-05	10534A	1.299 Head Diameter, Nitride
	Exh	1995-05	10535A	1.142 Head Diameter, Nitride
Keeper	Both	1995-05	121-1096	1 RD Bead Type
Stem Seal	Int	1995-05	122-1252	Positive Type, Viton Material, Metal Clad Style
	Exh	1995-05	122-1253	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1995-05	140-8554	0.2355 I.D., 1.790 Length, 0.4360 O.D.
	Exh	1995-05	140-8569	0.2360 I.D., 1.990 Length, 0.4360 O.D., W/ Snap Ring
Lifter	Both	1995-05	VL141	Hydraulic Lash Adjuster Type

2998cc, (3.0L), SOHC, GAS, FI, 24 Valve, Vin X, 6B31 "6B31 MIVEC" 6B31 34
 2007-16 V6 182 CID BORE - 87.6mm/3.45"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2007-16	121-1096	1 RD Bead Type
Stem Seal	Int	2007-16	122-1252	Positive Type, Viton Material, Metal Clad Style
	Exh	2007-16	122-1253	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2007-16	140-8554	0.2355 I.D., 1.790 Length, 0.4360 O.D.
	Exh	2007-16	140-8571	0.2360 I.D., 1.990 Length, 0.4360 O.D.
Lifter	Both	2007-16	VL141	Hydraulic Lash Adjuster Type

3497cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin M "6G74" 6G74-DC 35
 1994-96 V6 213 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-96	SB1437-59	1 $\frac{7}{16}$ O.D., 1.180T I.D., 0.3050 Depth
	Exh	1994-96	SB1312-64	1 $\frac{5}{16}$ O.D., 1.045 I.D., 0.3160 Depth
Valve	Int	1994-96	10500	1.375 Head Diameter, 0.258 (6.5mm) Stem Dia.
	Exh	1994-96	10501	1.200 Head Diameter, 0.258 (6.5mm) Stem Dia.
Keeper	Both	1994-96	121-1031	1 RD Bead Type
Stem Seal	Both	1994-96	122-1114	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1994-96	140-8193	0.2600 I.D., 1.795 Length, 0.4755 O.D., For .258 Stem Dia., +2 O/S Also Available
	Exh	1994-96	340-1013BR	0.2598 I.D., 1.795 Length, 0.4760 O.D., Optional Bronze Guide
		1994-96	140-8194	0.2600 I.D., 1.990 Length, 0.4755 O.D., For .258 Stem Dia., +2 O/S Also Available
		1994-96	340-1014BR	0.2598 I.D., 1.990 Length, 0.4755 O.D., Optional Bronze Guide
Lifter	Both	1994-96	VL135	Hydraulic Lash Adjuster Type
Head Bolt Set		1994-96	220-1021	Torque To Yield, Services Engine

3497cc, (3.5L), SOHC, GAS, FI, 24 Valve, Vin P, R, 6G74 6G74-SC24V 36
 1997-04 V6 215 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1997-04	SB1375-62	1 $\frac{3}{8}$ O.D., 1.100T I.D., 0.3000 Depth

MITSUBISHI / PASSENGER CAR OR TRUCK (Cont'd)

36 3497cc, (3.5L), SOHC, GAS, FI, 24 Valve, Vin P, R, 6G74 6G74-SC24V
 (cont.) 1997-04 V6 215 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1997-04	SB1250-59	1¼ O.D.,0.982 I.D.,0.3290 Depth
Valve	Int 1997-04	10534A	1.299 Head Diameter,Nitride
	Exh 1997-04	10535A	1.142 Head Diameter,Nitride
Keeper	Both 1997-04	121-1096	1 RD Bead Type
Stem Seal	Int 1997-04	122-1252	Positive Type,Viton Material,Metal Clad Style
	Exh 1997-04	122-1253	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1997-04	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh 1997-04	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both 1997-04	VL141	Hydraulic Lash Adjuster Type

37 226 C.I., (3.7L), SOHC, GAS, FI, 12 Valve, Vin K "Chrysler" MIT3.7
 2006-09 V6 226 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2006-09	SB2000-51	2.000 O.D.,1.690T I.D.,0.2700 Depth
	Exh 2006-09	SB1500-50	1½ O.D.,1.203T I.D.,0.2800 Depth,Also Available In Non-Magnetic (N) Material,Seat May Need To Be Machined In Order To Achieve Correct Depth
	2006-09	SB1562-66	1⅞ O.D.,1.265T I.D.,0.2800 Depth,NOTE: Alternate O.D., Check Casting Before Use
Valve	Int 2006-09	01918	1.915 Head Diameter
	Exh 2006-09	02036	1.457 Head Diameter
Keeper	Both 2006-09	121-1093	3 RD Bead Type
Stem Seal	Both 2006-09	122-1344	Positive Type,Viton Material,Top Hat Style
Guide	Both 2006-09	140-3026	0.2752 I.D.,1.702 Length,0.4720 O.D.,+2 O/S Available
Spring	Int 2006-09	160-1612	1.907 Length,Conical
	Exh 2006-09	160-1614	1.898 Length,Conical, W/ External Shroud
Lifter	Both 2006-09	VL562	Hydraulic Lash Adjuster Type
Head Bolt Set	2006-09	220-1097	Torque To Yield,Services Engine
Head Saver Shim	2006-09	230-2133	New Hgt. - 4.592; 2 Required

38 3828cc, (3.8L), SOHC, GAS, FI, 24 Valve, Vin S, T, 6G75 6G75
 2003-12 V6 230 CID BORE - 95mm/3.74"

PART	YEARS	PART NO.	NOTES
Valve	Int 2003-12	13347	1.437 Head Diameter,NOTE: W/ 4.344 Length
	2006-12	13349	1.437 Head Diameter,NOTE: W/ 4.303 Length
	Exh 2003-12	13348	1.260 Head Diameter,NOTE: W/ 4.414 Length
	2006-12	13350	1.260 Head Diameter,NOTE: W/ 4.468 Length
Keeper	Both 2003-12	121-1096	1 RD Bead Type
Stem Seal	Int 2003-12	122-1252	Positive Type,Viton Material,Metal Clad Style
	Exh 2003-12	122-1253	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2003-12	140-8554	0.2355 I.D.,1.790 Length,0.4360 O.D.
	Exh 2003-12	140-8571	0.2360 I.D.,1.990 Length,0.4360 O.D.
Lifter	Both 2003-12	VL141	Hydraulic Lash Adjuster Type

39 285 C.I., (4.7L), SOHC, GAS, FI, 16 Valve, Vin N "Chrysler" MIT4.7
 2006-07 V8 285 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 2006-07	SB2000-51	2.000 O.D.,1.690T I.D.,0.2700 Depth

(Cont'd) **MITSUBISHI / PASSENGER CAR OR TRUCK**

285 C.I., (4.7L), SOHC, GAS, FI, 16 Valve, Vin N "Chrysler"
2006-07 V8 285 CID

MIT4.7 **39**
BORE - 93mm/3.66" (cont.)

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	2006-07	1½ O.D., 1.203T I.D., 0.2800 Depth, Also Available In Non-Magnetic (N) Material, Seat May Need To Be Machined To Achieve Correct Depth 1⅞ O.D., 1.265T I.D., 0.2800 Depth, NOTE: Alternate O.D., Check Casting Before Use
		2006-07	
Valve	Int	2006-07	1.915 Head Diameter
	Exh	2006-07	1.457 Head Diameter
Keeper	Both	2006-07	121-1093 3 RD Bead Type
Stem Seal	Both	2006-07	122-1344 Positive Type, Viton Material, Top Hat Style
Guide	Both	2006-07	140-3026 0.2752 I.D., 1.702 Length, 0.4720 O.D., +2 O/S Available
Spring	Both	2006-07	160-1432 1.929 Length, Conical
Lifter	Both	2006-07	VL107 Hydraulic Lash Adjuster Type
Head Bolt Set		2006-07	220-1098 Torque To Yield, Services Engine
Head Saver Shim		2006-07	230-2125 New Hgt. 4.592; 2 Req.

MITSUBISHI / INDUSTRIAL

Engine	Models	Line No.
4 Cylinder		
88 C.I., (1.5L), Mitsubishi 4G33 Forklift		1
98 C.I., (1.6L), Mitsubishi 4G32, Forklift		2
122 C.I., (2.0L), Mitsubishi 4G52		3
122 C.I., (2.0L), Mitsubishi 4G63		4
143 C.I., (2.4L), Mitsubishi 4G64		5
156 C.I., (2.6L), Mitsubishi 4G54		6
159 C.I., (2.6L), Mitsubishi S4E Forklift		7
203 C.I., (3.3L), Mitsubishi S4S Forklift		9
6 Cylinder		
181 C.I., (3.0L), Mitsubishi 6G72 Forklift		8
239 C.I., (3.9L), Mitsubishi S6E Forklift		10
305 C.I., (5.0L), Mitsubishi S6S Forklift		11

88 C.I., (1.5L), Mitsubishi 4G33 Forklift 4G33 **1**
L4 87.9 CID BORE - 73mm/2.874"

PART	PART NO.	NOTES
Valve Seat Insert	Int	SB1562-50
	Exh	SB1375-51
Valve	Int	10076
		10127
	Exh	10083
		10129
Keeper	Both	121-1034
		121-1039
Stem Seal	Both	122-1075
		122-1086
Guide	Int	140-7576

MITSUBISHI / INDUSTRIAL (Cont'd)

1 88 C.I., (1.5L), Mitsubishi 4G33 Forklift **4G33**
 (cont.) L4 87.9 CID **BORE - 73mm/2.874"**

PART		PART NO.	NOTES
Guide	Exh	140-7577	0.3150 I.D., 1.890 Length, 0.5143 O.D., W/ Snap Ring, OEM # MD000471, +2 O/S Available
Spring	Both	160-1584	1.825 Length, OEM # MM130054

2 98 C.I., (1.6L), Mitsubishi 4G32, Forklift **4G32**
L4 98 CID **BORE - 76.901mm/3.0276"**

PART		PART NO.	NOTES
Valve	Int	10127	1.496 Head Diameter, Round Groove, OEM # MD075924, MD750925; Round Groove
	Exh	10129	1.220 Head Diameter, Round Groove, OEM # MD075927; Round Groove
Keeper	Both	121-1039	1 RD Bead Type, OEM # MD061895
Stem Seal	Both	122-1086	Positive Type, Viton Material, Metal Clad Style, OEM #'S MD197467, MD000508
Guide	Int	140-7576	0.3150 I.D., 1.735 Length, 0.5145 O.D., OEM # MD000461
	Exh	140-7577	0.3150 I.D., 1.890 Length, 0.5143 O.D., W/ Snap Ring, OEM # MD000471
Spring	Both	160-1584	1.825 Length, OEM # MM130054

3 122 C.I., (2.0L), Mitsubishi 4G52 **4G52**
L4 122 CID **BORE - 83.998mm/3.307"**

PART		PART NO.	NOTES
Valve	Int	10065	1.689 Head Diameter, Square Groove, OEM # MD020580
		10141	1.693 Head Diameter, OEM # MD070691
	Exh	10064	1.376 Head Diameter, Square Groove, OEM # MD040539
		10142	1.378 Head Diameter, OEM # MD070693
Keeper	Both	121-1039	1 RD Bead Type, OEM # MD061895; NOTE: For Use With Valves 10141 and 10142
Stem Seal	Both	122-1086	Positive Type, Viton Material, Metal Clad Style, OEM #'S MD197467, MD000508
Guide	Int	140-7574	0.3150 I.D., 1.848 Length, 0.5145 O.D., OEM # MD020551
	Exh	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, OEM # MD020561
Spring	Both	160-1016	1.830 Length, OEM # MM130062

4 122 C.I., (2.0L), Mitsubishi 4G63 **IND-4G63**
L4 122 CID **BORE - 85.001mm/3.3465"**

PART		PART NO.	NOTES
Valve	Int	10141	1.693 Head Diameter, OEM # MD070691
		10143	1.811 Head Diameter, OEM # MD085253
	Exh	10142	1.378 Head Diameter, OEM # MD070693, MD070694
		10144	1.496 Head Diameter, OEM # MD085254
Keeper	Both	121-1039	1 RD Bead Type, OEM # MD061895
Stem Seal	Both	122-1086	Positive Type, Viton Material, Metal Clad Style, OEM #'S MD197467, MD000508
Guide	Int	140-7574	0.3150 I.D., 1.848 Length, 0.5145 O.D., OEM # MD020551
	Exh	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, OEM # MD020561
Spring	Both	160-1016	1.830 Length, OEM # MM130062

5 143 C.I., (2.4L), Mitsubishi 4G64 **IND-4G64**
L4 143 CID **BORE - 86.512mm/3.406"**

PART		PART NO.	NOTES
Valve	Int	10143	1.811 Head Diameter, OEM # MD085253
	Exh	10144	1.496 Head Diameter, OEM # MD085254

(Cont'd) MITSUBISHI / INDUSTRIAL**143 C.I., (2.4L), Mitsubishi 4G64**
L4 143 CID**IND-4G64 5**
BORE - 86.512mm/3.406" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1086	Positive Type, Viton Material, Metal Clad Style, OEM #S MD197467, MD000508
Guide	Int	140-7574	0.3150 I.D., 1.848 Length, 0.5145 O.D., OEM # MD020551
	Exh	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, OEM # MD020561
Spring	Both	160-1016	1.830 Length, OEM # MM130062
Lifter	Both	VL141	Hydraulic Lash Adjuster Type

156 C.I., (2.6L), Mitsubishi 4G54
L4 156 CID**4G54 6**
BORE - 91.123mm/3.5875"

PART		PART NO.	NOTES
Valve	Int	10145	1.810 Head Diameter, Round Groove, OEM # MD083848
	Exh	10146S	1.493 Head Diameter, Stellite Face, Round Groove, OEM # MD083851
Stem Seal	Both	122-1086	Positive Type, Viton Material, Metal Clad Style, OEM #S MD197467, MD000508
Guide	Int	140-7574	0.3150 I.D., 1.848 Length, 0.5145 O.D., OEM # MD020551
	Exh	140-7575	0.3150 I.D., 2.046 Length, 0.5145 O.D., W/ Snap Ring, OEM # MD020561
Spring	Both	160-1016	1.830 Length, OEM # MM130062
Lifter	Both	VL141	Hydraulic Lash Adjuster Type

159 C.I., (2.6L), Mitsubishi S4E Forklift
L4 159 CID**S4E 7**
BORE - 94.005mm/3.701"

PART		PART NO.	NOTES
Valve	Int	13051	1.654 Head Diameter, OEM # 3440410100
		13054	1.654 Head Diameter, OEM # 3440400100
	Exh	13052	1.382 Head Diameter, OEM # 3440411100
		13053	1.220 Head Diameter, OEM # 3060401100
Guide	Both	140-3102	0.3152 I.D., 2.205 Length, 0.5130 O.D., OEM # 3060125600

181 C.I., (3.0L), Mitsubishi 6G72 Forklift
V6 181 CID**IND-6G72 8**
BORE - 89mm/3.590"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-61	1 $\frac{3}{4}$ O.D., 1.445T I.D., 0.3100 Depth
	Exh	SB1562-69	1 $\frac{9}{16}$ O.D., 1.219 I.D., 0.3170 Depth, Also Available In Non-Magnetic (N) Material
		SB1562-69N	1 $\frac{9}{16}$ O.D., 1.219 I.D., 0.3170 Depth, LPG
Valve	Int	10624	1.693 Head Diameter, OEM # MD088811
	Exh	10625	1.378 Head Diameter, OEM # MD088812
Keeper	Both	121-1039	1 RD Bead Type, OEM # MD061895
Stem Seal	Both	122-1086	Positive Type, Viton Material, Metal Clad Style, OEM # MD000508
Guide	Int	140-7576	0.3150 I.D., 1.735 Length, 0.5145 O.D.
	Exh	140-7577	0.3150 I.D., 1.890 Length, 0.5143 O.D., W/ Snap Ring, +2 O/S Also Available
Spring	Both	160-1079	1.960 Length, OEM # MD073398
Lifter	Both	VL141	Hydraulic Lash Adjuster Type, OEM #'s MD339767, MD377560, MD377561
Rocker Components	Both	180-1207	Roller Rocker Arm, OEM # MD195450
Head Bolt Set		220-1021	Torque To Yield, Services Engine
Head Saver Shim		230-2006	New Hgt. - 3.3030 - 3.3110; Min. Hgt. - 3.2950, 2 Required

MITSUBISHI / INDUSTRIAL (Cont'd)

9 203 C.I., (3.3L), Mitsubishi S4S Forklift S4S
 L4 203 CID BORE - 94.04mm/3.702"

PART		PART NO.	NOTES
Valve	Int	13063	1.732 Head Diameter,OEM # 32A0411100
	Exh	13064	1.380 Head Diameter,OEM # 32A0410100
Stem Seal	Both	122-1116	Positive Type,ACM Material,Metal Clad Style,OEM # 32A0402801
Guide	Both	140-3097	0.3157 I.D.,1.970 Length,0.4737 O.D.,OEM # 32A0101600
Spring	Both	160-1514	1.934 Length,OEM # 3060421401, 3060421402

10 239 C.I., (3.9L), Mitsubishi S6E Forklift S6E
 L6 239 CID BORE - 94.04mm/3.702"

PART		PART NO.	NOTES
Valve	Int	13051	1.654 Head Diameter,OEM # 3440410100
		13054	1.654 Head Diameter,OEM # 3440400100
	Exh	13052	1.382 Head Diameter,OEM # 3440411100
		13053	1.220 Head Diameter,OEM # 3060401100
Guide	Both	140-3102	0.3152 I.D.,2.205 Length,0.5130 O.D.,OEM # 3060125600

11 305 C.I., (5.0L), Mitsubishi S6S Forklift S6S
 L6 305 CID BORE - 94.04mm/3.702"

PART		PART NO.	NOTES
Valve	Int	13063	1.732 Head Diameter,OEM # 32A0410100
	Exh	13064	1.380 Head Diameter,OEM # 32A0411100
Stem Seal	Both	122-1116	Positive Type,ACM Material,Metal Clad Style,OEM # 32A0402801
Guide	Both	140-3097	0.3157 I.D.,1.970 Length,0.4737 O.D.,OEM # 32A0101600
Spring	Both	160-1514	1.934 Length,OEM # 3060421401, 3060421402

MWM / HEAVY DUTY

Engine Models Line No.

6 Cylinder

6456cc, 394 C.I., (6.4L), 10 Series, 6.10, 6.10 Turbo 6.10, 6.10 Turbo, A180, A210LA 1

1 6456cc, 394 C.I., (6.4L), 10 Series, 6.10, 6.10 Turbo 6.10T
 L6 394 CID BORE - 103.0mm/4.055"

PART		PART NO.	NOTES
Guide	Both	140-3077	0.3550 I.D.,1.930 Length,0.5920 O.D.,OEM # 961083320024

NEW HOLLAND / TRACTOR

Engine Models Line No.

3 Cylinder

91 C.I., (1.5L), N843-C, 6 Valve, Diesel "Shibaura" 1

4 Cylinder

135 C.I., (2.2L), N844L-C, 8 Valve, Diesel, " Shibaura " 2

135 C.I., (2.2L), N844LT-C, 8 Valve, Turbo, Diesel, " Shibaura " 3

1 91 C.I., (1.5L), N843-C, 6 Valve, Diesel "Shibaura" NH-N843C
 L3 91 CID BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # SBA110136300
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # SBAU10136460
Valve	Int	13326	1.457 Head Diameter,OEM # SBA120166350, SBA120166380; NOTE: Late

(Cont'd) **NEW HOLLAND / TRACTOR**

91 C.I., (1.5L), N843-C, 6 Valve, Diesel "Shibaura"

NH-N843C 1

L3 91 CID

BORE - 84.01mm/3.3075" (cont.)

PART		PART NO.	NOTES
Valve	Exh	13327	1.299 Head Diameter,OEM # SBA120176360, SBA120176380; NOTE: Late
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406070
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406050
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Lifter	Both	VL574	Mechanical Type,OEM # SBA120116160

135 C.I., (2.2L), N844L-C, 8 Valve, Diesel, " Shibaura "

NH-N844L-C 2

L4 135 CID

BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # SBA110136300
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # SBAU10136460
Valve	Int	13326	1.457 Head Diameter,OEM # SBA120166350, SBA120166380; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # SBA120176360, SBA120176380; NOTE: Late
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406070
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406050
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # SBA198216700
Lifter	Both	VL574	Mechanical Type,OEM # SBA120116160

135 C.I., (2.2L), N844LT-C, 8 Valve, Turbo, Diesel, " Shibaura "

NH-N844LT-C 3

L4 135 CID

BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # SBA110136300
	Exh	SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # SBAU10136460
Valve	Int	13326	1.457 Head Diameter,OEM # SBA120166350, SBA120166380; NOTE: Late
	Exh	13327	1.299 Head Diameter,OEM # SBA120176360, SBA120176380; NOTE: Late
Stem Seal	Int	122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406070
	Exh	122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406050
Guide	Both	140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both	160-1638	1.382 Length,OEM # SBA198216700
Lifter	Both	VL574	Mechanical Type,OEM # SBA120116160

NISSAN / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1189cc, (1.2L), GAS, CARB, "E1" (1961-65)		1
1237cc, (1.2L), OHV, GAS, CARB, 8 Valve, Vin C, "A12A" (1980-82)	210	2
1288cc, (1.3L), OHV, GAS, CARB, Vin H, "A13" (1974-74) ..	B210	3
1393cc, (1.4L), OHV, GAS, CARB, 8 Valve, Vin H, P, "A14" (1975-82)	210, 310, B210, F10	4
1488cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin M, "E15" (1982-82)	310	5
1488cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin H, M, "E15S" (1982-83)	Sentra	6
1488cc, (1.5L), SOHC, GAS, FI, 8 Valve, E15T (1983-84) ...	Pulsar NX	7
1488cc, (1.5L), OHV, GAS, CARB, 8 Valve, Vin P, A15 (1979-82)	210, 310	8

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1595cc, (1.6L), OHV, GAS, CARB, 8 Valve, "R16" (1966-70)	1600, 411	9
1595cc, (1.6L), SOHC, GAS, CARB, "L16" (1968-73)	510, 521 Pickup, 620 Pickup	10
1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin P, "E16S" (1986-87)	Sentra	11
1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin P, "E16I" (1987-88)	Pulsar NX, Sentra	12
1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin M, P, "E16" (1983-86)	Pulsar, Pulsar NX, Sentra	13
1597cc, (1.6L), DOHC, GAS, FI, 8 Valve, "CA16DE" (1987-87)	Pulsar NX	14
1597cc, (1.6L), SOHC, GAS, FI, 12 Valve, Vin G, "GA16I" (1989-90)	Pulsar NX, Sentra	15
1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, E, P, GA16DE (1991-99)	200SX, NX, Sentra	16
1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, HR16DE (2009-17)	Micra, Versa, Versa Note	17
1618cc, (1.6L), DOHC, GAS, FI, 16 Valve, MR16DDT "Direct Injected Turbo" (2011-17)	Juke	18
1688cc, (1.7L), SOHC, DIESEL, FI, 8 Valve, Vin S, CD17 (1983-85)	Sentra	19
1770cc, (1.8L), SOHC, GAS, CARB, Vin H, P, "L18" (1973-74)	610, 620 Pickup, 710	20
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, MR18DE (2007-14)	Cube, Versa	21
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, MRA8DE (2013-16)	Sentra	22
1809cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin C, "CA18E TURBO" (1984-86)	200SX Turbo	23
1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin C, "CA18DE" (1988-89)	Pulsar NX	24
1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, "QG18DE" (2000-06)	Sentra	25
1952cc, (2.0L), SOHC, GAS, CARB, Vin H, L20B (1974-80)	200SX, 510, 610, 620, 710, 720	26
1952cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin P, "Z20E" (1980-81)	200SX	27
1952cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin H, "Z20S" (1980-81)	510	28
1952cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin F, "Z20" (1983-84)	720 Pickup	29
1974cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin H, "CA20S" (1982-83)	Stanza	30
1974cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin H, P, CA20E (1984-89)	200SX, Multi, Stanza	31
1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, MR20DE (2007-16)	NV200, Sentra	32
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, G, SR20DE (1991-01)	200SX, NX, Sentra	33
2164cc, (2.2L), OHV, DIESEL, FI, 8 Valve, Vin S, "SD22" (1981-83)	720 Pickup Diesel	34
2187cc, (2.2L), SOHC, GAS, CARB, 8 Valve, Vin M, "Z22" (1981-82)	720 Pickup	35

(Cont'd) NISSAN / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
2187cc, (2.2L), SOHC, GAS, FI, 8 Valve, Vin R, "Z22E" (1982-83)	200SX	36
2389cc, (2.4L), SOHC, GAS, CARB, FI, 8 Valve, Vin N, "Z24" (1983-86)	720, D21	37
2389cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin N, S, "Z24I" (1986-88)	720, Pathfinder, Van	38
2389cc, (2.4L), SOHC, GAS, FI, Vin F, H, S, "KA24E" (1989-97)	240SX, Axxess, D21, Pickup, Stanza	39
2389cc, (2.4L), DOHC, GAS, FI, 16 Valve, KA24DE (1991-04)	240SX, Altima, Frontier, Xterra	40
2488cc, (2.5L), OHV, DIESEL, FI, 8 Valve, Vin J, "SD25" (1983-86)	720 Pickup Diesel	42
2488cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, "QR25DER Supercharged" (2014-14)	Pathfinder Hybrid	43
2500cc, (2.5L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, QR25DE (2002-17)	Altima, Frontier, Rogue, Rogue Select, Sentra, X-Trail	44
6 Cylinder		
2393cc, (2.4L), SOHC, GAS, FI, 12 Valve, Vin H, "L24E" (1977-84)	810, Maxima	41
2565cc, (2.6L), SOHC, GAS, CARB, Vin R, "L26" (1974-74) .	260Z	45
2753cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin H, "L28E" (1975-83)	280Z, 280ZX	46
2753cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin C, "L28E TURBO" (1981-83)	280ZX Turbo	47
2793cc, (2.8L), SOHC, DIESEL, FI, 12 Valve, Vin S, "LD28" (1981-83)	810, Maxima	48
2960cc, (3.0L), SOHC, GAS, FI, Vin C, "VG30T TURBO" (1984-89)	300ZX Turbo	49
2960cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 1, H, W, VG30, VG30E, VG30I (1984-98)	200SX, 300ZX, D21, Maxima, Pathfinder, Pickup, Quest	50
2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin R, "VG30DE" (1990-96)	300ZX	51
2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, "VG30DETT TURBO" (1990-96)	300ZX Turbo	52
2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin E, "VE30DE" (1992-94)	Maxima	53
2988cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, "VQ30DE" (1995-01)	Maxima	54
3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin A, "VG33E" (1996-04)	Frontier, Pathfinder, Quest, Xterra	55
3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, VG33ER "Supercharged" (2001-04)	Frontier, Xterra	56
3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin A, VQ35DE (2001-16)	350Z, Altima, Maxima, Murano, Pathfinder, Quest	57
3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35HR (2007-09)	350Z	58
3696cc, (3.7L), DOHC, GAS, FI, 24 Valve, VQ37VHR (2009-16)	370Z	59
3954cc, (4.0L), DOHC, GAS, FI, 24 Valve, VQ40DE (2005-17)	Frontier, NV1500, NV2500, NV3500, Pathfinder, Xterra	60

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
8 Cylinder 5552cc, (5.6L), DOHC, FLEX, GAS, FI, 32 Valve, VK56DE (2004-17)	Armada, NV2500, NV3500, Pathfinder, Pathfinder Armada, Titan 61	

1 1189cc, (1.2L), GAS, CARB, "E1" **E1**
 1961-65 L4 73 CID **BORE - 73mm/2.87"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1961-65	SB1500-1 1½ O.D., 1¼ I.D., 7/32 Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	1961-65	
Guide	Exh	1961-65	SB1312-6 1½ O.D., 1¼ I.D., 7/32 Depth
		1961-65	140-7498 0.3440 I.D., 2.200 Length, 0.5650 O.D.

2 1237cc, (1.2L), OHV, GAS, CARB, 8 Valve, Vin C, "A12A" **A12A**
 1980-82 L4 76 CID **BORE - 75mm/2.95"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-82	SB1500-56 1½ O.D., 1.275T I.D., 0.2500 Depth, NOTE: Optional, Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	1980-82	
Valve	Int	1980-80	10031 1.462 Head Diameter
	Exh	1980-80	10033S 1.188 Head Diameter, Stellite Face
Keeper	Both	1980-82	121-1047 1 SQ Bead Type
Stem Seal	Both	1980-82	122-1082 Positive Type, Viton Material, Metal Clad Style
Guide	Both	1980-82	140-7542 0.3155 I.D., 1.930 Length, 0.4745 O.D., W/ Snap Ring, +2 O/S Available
Spring	Both	1980-82	160-1014 1.831 Length

3 1288cc, (1.3L), OHV, GAS, CARB, Vin H, "A13" **A13**
 1974-74 L4 79 CID **BORE - 73mm/2.87"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1974-74	SB1500-56 1½ O.D., 1.275T I.D., 0.2500 Depth, NOTE: Optional, Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	1974-74	
Valve	Int	1974-74	10031 1.462 Head Diameter
	Exh	1974-74	10033S 1.188 Head Diameter, Stellite Face
Keeper	Both	1974-74	121-1047 1 SQ Bead Type
Stem Seal	Both	1974-74	122-1082 Positive Type, Viton Material, Metal Clad Style
Guide	Int	1974-74	140-7545 0.3160 I.D., 1.930 Length, 0.4745 O.D., W/ Snap Ring, W/ Counterbore, +2 O/S Available
	Exh	1974-74	
Spring	Both	1974-74	160-1014 1.831 Length

4 1393cc, (1.4L), OHV, GAS, CARB, 8 Valve, Vin H, P, "A14" **A14**
 1975-82 L4 85 CID **BORE - 76mm/2.99"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1975-80	SB1500-56 1½ O.D., 1.275T I.D., 0.2500 Depth, NOTE: Optional, Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	1975-82	
Valve	Int	1975-80	10031 1.462 Head Diameter
	Exh	1975-80	10033S 1.188 Head Diameter, Stellite Face
Keeper	Both	1975-82	121-1047 1 SQ Bead Type
Stem Seal	Both	1975-82	122-1082 Positive Type, Viton Material, Metal Clad Style

(Cont'd) **NISSAN / PASSENGER CAR OR TRUCK**

1393cc, (1.4L), OHV, GAS, CARB, 8 Valve, Vin H, P, "A14" **A14 4**
1975-82 L4 85 CID **BORE - 76mm/2.99" (cont.)**

PART	YEARS	PART NO.	NOTES
Guide	Int	1975-82	140-7545 0.3160 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring, W/ Counterbore,+2 O/S Available
	Exh	1975-82	
Spring	Both	1975-82	160-1014 1.831 Length

1488cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin M, "E15" **E15 5**
1982-82 L4 91 CID **BORE - 76mm/2.99"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-82	SB1562-66 1 ⁹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth
	Exh	1982-82		SB1312-57 1^{5}/_{16} O.D.,1.060 I.D.,0.2800 Depth
Keeper	Both	1982-82	121-1059 1 RD Bead Type
Stem Seal	Both	1982-82	122-1141 Positive Type,Viton Material,Metal Clad Style
Guide	Both	1982-82	140-7825 0.2760 I.D.,2.167 Length,0.4745 O.D.
Head Saver Shim		1982-82	230-2058 New Hgt.- 4.7240; Min. Hgt.- 4.7120

1488cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin H, M, "E15S" **E15S 6**
1982-83 L4 91 CID **BORE - 76mm/2.99"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-83	SB1562-66 1 ⁹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth
	Exh	1982-83		SB1312-57 1^{5}/_{16} O.D.,1.060 I.D.,0.2800 Depth
Keeper	Both	1982-83	121-1059 1 RD Bead Type
Stem Seal	Both	1982-83	122-1141 Positive Type,Viton Material,Metal Clad Style
Guide	Both	1982-83	140-7825 0.2760 I.D.,2.167 Length,0.4745 O.D.
Head Saver Shim		1982-83	230-2058 New Hgt.- 4.7200 - 4.7240; Min. Hgt.- 4.7120

1488cc, (1.5L), SOHC, GAS, FI, 8 Valve, E15T **E15T 7**
1983-84 L4 91 CID **BORE - 76mm/2.99"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1983-84	SB1312-62 1 ⁵ / ₁₆ O.D.,1.065T I.D.,0.2850 Depth
Keeper	Both	1983-84	121-1059 1 RD Bead Type
Stem Seal	Both	1983-84	122-1141 Positive Type,Viton Material,Metal Clad Style
Guide	Both	1983-84	140-7825 0.2760 I.D.,2.167 Length,0.4745 O.D.

1488cc, (1.5L), OHV, GAS, CARB, 8 Valve, Vin P, A15 **A15 8**
1979-82 L4 91 CID **BORE - 76mm/2.99"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1979-82	SB1500-56 1 ¹ / ₂ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Optional, Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	1979-82		SB1312-52 1^{5}/_{16} O.D.,1.060T I.D.,0.2400 Depth
Valve	Int	1979-80	10031 1.462 Head Diameter
	Exh	1979-80		10033S 1.188 Head Diameter,Stellite Face,4.083 Overall Length
Keeper	Both	1979-82	121-1047 1 SQ Bead Type
Stem Seal	Both	1979-82	122-1116 Positive Type,ACM Material,Metal Clad Style
Guide	Int	1979-82	140-7545 0.3160 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring, W/ Counterbore,+2 O/S Available
	Exh	1979-82		140-7542 0.3155 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1979-82	160-1014 1.831 Length

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

9 1595cc, (1.6L), OHV, GAS, CARB, 8 Valve, "R16" R16
 1966-70 L4 97 CID BORE - 87.2mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1966-70	SB1812-55	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 0.2780 Depth
	Exh	1966-70	SB1437-53	1 ⁷ / ₁₆ O.D., 1.090T I.D., 0.3540 Depth

10 1595cc, (1.6L), SOHC, GAS, CARB, "L16" L16
 1968-73 L4 97 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1968-73	SB1812-50	1 ¹³ / ₁₆ O.D., 1.490T I.D., 0.3070 Depth
	Exh	1968-73	SB1500-54	1 ¹ / ₂ O.D., 1.180T I.D., 0.3070 Depth
Valve	Int	1968-73	10015	1.648 Head Diameter
	Exh	1968-73	10036S	1.382 Head Diameter, Stellite Face
Keeper	Both	1968-73	121-1047	1 SQ Bead Type
Stem Seal	Both	1968-73	122-1263	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1968-73	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring

11 1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin P, "E16S" E16S
 1986-87 L4 97 CID BORE - 76mm/2.99"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1986-87	SB1562-66	1 ⁹ / ₁₆ O.D., 1.265T I.D., 0.2800 Depth
	Exh	1986-87	SB1312-57	1 ⁵ / ₁₆ O.D., 1.060 I.D., 0.2800 Depth
Valve	Int	1986-87	10255	1.460 Head Diameter
	Exh	1986-87	10256	1.185 Head Diameter
Keeper	Both	1986-87	121-1059	1 RD Bead Type
Stem Seal	Both	1986-87	122-1141	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1986-87	140-7825	0.2760 I.D., 2.167 Length, 0.4745 O.D.
	Exh	1986-87	140-8192	0.2760 I.D., 2.280 Length, 0.4745 O.D.
Head Saver Shim		1986-87	230-2058	New Hgt. - 4.7200 - 4.7240; Min. Hgt. - 4.7120

12 1597cc, (1.6L), SOHC, GAS, FI, 8 Valve, Vin P, "E16I" E16I
 1987-88 L4 97 CID BORE - 76mm/2.99"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-88	SB1562-66	1 ⁹ / ₁₆ O.D., 1.265T I.D., 0.2800 Depth
	Exh	1987-88	SB1312-57	1 ⁵ / ₁₆ O.D., 1.060 I.D., 0.2800 Depth
Valve	Int	1987-88	10255	1.460 Head Diameter
	Exh	1987-88	10256	1.185 Head Diameter
Keeper	Both	1987-88	121-1059	1 RD Bead Type
Stem Seal	Both	1987-88	122-1141	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1987-88	140-7825	0.2760 I.D., 2.167 Length, 0.4745 O.D.
	Exh	1987-88	140-8192	0.2760 I.D., 2.280 Length, 0.4745 O.D.
Head Saver Shim		1987-88	230-2058	New Hgt. - 4.7200 - 4.7240; Min. Hgt. - 4.7120

13 1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin M, P, "E16" E16
 1983-86 L4 97 CID BORE - 76mm/2.99"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-86	SB1562-66	1 ⁹ / ₁₆ O.D., 1.265T I.D., 0.2800 Depth
	Exh	1983-86	SB1312-57	1 ⁵ / ₁₆ O.D., 1.060 I.D., 0.2800 Depth
Valve	Int	1983-86	10255	1.460 Head Diameter, Except Canada
	Exh	1983-86	10256	1.185 Head Diameter, Except Canada
Keeper	Both	1983-86	121-1059	1 RD Bead Type
Stem Seal	Both	1983-86	122-1141	Positive Type, Viton Material, Metal Clad Style

(Cont'd) NISSAN / PASSENGER CAR OR TRUCK**1597cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin M, P, "E16"**
1983-86 L4 97 CID**E16 13**
BORE - 76mm/2.99" (cont.)

PART	YEARS	PART NO.	NOTES	
Guide	Int	04/85-86	140-7825	0.2760 I.D., 2.167 Length, 0.4745 O.D.
	Exh	04/85-86	140-8192	0.2760 I.D., 2.280 Length, 0.4745 O.D.
Head Saver Shim		1983-86	230-2058	New Hgt. - 4.7200 - 4.7240; Min. Hgt. - 4.7120

1597cc, (1.6L), DOHC, GAS, FI, 8 Valve, "CA16DE"
1987-87 L4 97 CID**CA16DE 14**
BORE - 84.5mm/3.32"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1987-87	SB1375-54	1 $\frac{3}{8}$ O.D., 1.022T I.D., 0.2300 Depth
	Exh	1987-87	SB1250-56	1 $\frac{1}{4}$ O.D., 0.905T I.D., 0.2300 Depth
Keeper	Both	1987-87	121-1063	1 RD Bead Type
Stem Seal	Both	1987-87	122-1150	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1987-87	140-8190	0.2365 I.D., 1.580 Length, 0.3950 O.D., Tapered Port End
	Exh	1987-87	140-8191	0.2365 I.D., 1.695 Length, 0.3948 O.D., Plain Port End
Spring	Both	1987-87	160-1326	1.720 Length

1597cc, (1.6L), SOHC, GAS, FI, 12 Valve, Vin G, "GA16I"
1989-90 L4 97 CID**GA16I 15**
BORE - 76mm/2.99"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-90	SB1250-50	1 $\frac{1}{4}$ O.D., 0.965T I.D., $\frac{1}{4}$ Depth
	Exh	1989-90	SB1375-51	1 $\frac{3}{8}$ O.D., 1.060T I.D., 0.2800 Depth
Keeper	Both	1989-90	121-1063	1 RD Bead Type
Stem Seal	Int	1989-90	122-1150	Positive Type, Viton Material, Metal Clad Style
	Exh	1989-90	122-1158	Positive Type, Viton Material, Metal Clad Style

1597cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, E, P, GA16DE
1991-99 L4 97 CID**GA16DE 16**
BORE - 76mm/2.99"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-99	SB1250-54	1 $\frac{1}{4}$ O.D., 1.010T I.D., 0.2570 Depth
	Exh	1991-99	SB1062-50	1 $\frac{1}{16}$ O.D., 0.790 I.D., 0.2540 Depth
Valve	Int	1991-99	10224	1.181 Head Diameter
	Exh	1995-99	10536	0.984 Head Diameter
Keeper	Both	1991-99	121-1064	1 RD Bead Type
Stem Seal	Both	1991-99	122-1162	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1991-99	140-8218	0.2170 I.D., 1.575 Length, 0.3760 O.D.
	Exh	1991-99	140-8213	0.2170 I.D., 1.575 Length, 0.3760 O.D.
Spring	Both	1991-99	160-1327	1.645 Length, Exc. 96-99 Mexico Mfg.
Head Saver Shim		1991-96	230-2056	New Hgt. - 4.6380 - 4.6460; Min. Hgt. - 4.6300

1598cc, (1.6L), DOHC, GAS, FI, 16 Valve, HR16DE
2009-17 L4 97 CID**NIS-HR16DE 17**
BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2009-11	13233	1.226 Head Diameter
	Exh	2009-11	13234	1.002 Head Diameter
Stem Seal	Both	2009-15	122-1433	Positive Type, Viton Material, Metal Clad Style
Spring	Both	2009-11	160-1603	1.706 Length

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

18 1618cc, (1.6L), DOHC, GAS, FI, 16 Valve, MR16DDT "Direct Injected Turbo"
 2011-17 L4 97 CID NIS-MR16DDT
 BORE - 79.7mm/3.14"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2011-14 121-1064	1 RD Bead Type
Stem Seal	Both	2011-12/13 122-1162	Positive Type,Viton Material,Metal Clad Style

19 1688cc, (1.7L), SOHC, DIESEL, FI, 8 Valve, Vin S, CD17
 1983-85 L4 103 CID CD17
 BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1983-85 SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
Keeper	Both	1983-85 121-1067	1 SQ Bead Type
Stem Seal	Both	1983-85 122-1139	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1983-85 140-7826	0.2760 I.D.,1.770 Length,0.4350 O.D.,Pre Cut For Seal, Plain Port End
	Exh	1983-85 140-7827	0.2760 I.D.,1.770 Length,0.4348 O.D.
		1983-85 140-8233	0.2760 I.D.,1.890 Length,0.4350 O.D.,Pre Cut For Seal, Tapered Port End,+2 Oversized O.D. Also Available

20 1770cc, (1.8L), SOHC, GAS, CARB, Vin H, P, " L18 "
 1973-74 L4 108 CID L18
 BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1973-74 SB1812-50	1 $\frac{13}{16}$ O.D.,1.490T I.D.,0.3070 Depth
	Exh	1973-74 SB1500-54	1 $\frac{1}{2}$ O.D.,1.180T I.D.,0.3070 Depth
Valve	Int	1973-74 10015	1.648 Head Diameter
	Exh	1973-74 10036S	1.382 Head Diameter,Stellite Face
Keeper	Both	1973-74 121-1047	1 SQ Bead Type
Stem Seal	Both	1973-74 122-1263	Positive Type,Viton Material, Ring & Spring Style
Guide	Both	1973-74 140-7499	0.3155 I.D.,2.313 Length,0.4745 O.D.,W/ Snap Ring
Spring	Both	1973-74 160-1013	1.770 Length,Inner
	Both	1973-74 160-1019	1.968 Length,Outer

21 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, MR18DE
 2007-14 L4 110 CID NIS-MR18DE
 BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve	Int	2007-14 13213	1.337 Head Diameter,W/ 0.2165 Tip To Groove Length
		2010-14 13398	1.337 Head Diameter,W/ 0.1634 Tip To Groove Length, Cube Only
	Exh	2007-14 13214	1.093 Head Diameter,W/ 0.2311 Tip To Groove Length
		2010-14 13399	1.093 Head Diameter,W/ 0.1790 Tip To Groove Length, Cube Only
Keeper	Both	2013-14 121-1064	1 RD Bead Type
Stem Seal	Both	2007-13 122-1162	Positive Type,Viton Material,Metal Clad Style
Spring	Int	2007-12 160-1590	1.694 Length
	Exh	2007-12 160-1600	1.761 Length

22 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, MRA8DE
 2013-16 L4 110 CID NIS-MRA8DE
 BORE - 79.7mm/3.14"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2013-15 121-1064	1 RD Bead Type
Stem Seal	Both	2013-15 122-1162	Positive Type,Viton Material,Metal Clad Style

(Cont'd) NISSAN / PASSENGER CAR OR TRUCK**1809cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin C, "CA18E TURBO"**
1984-86 L4 110 CID**CA18ET 23**
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1984-86	SB1500-54	1½ O.D., 1.180T I.D., 0.3070 Depth
Keeper	Both	1984-86	121-1059	1 RD Bead Type
Stem Seal	Both	1984-86	122-1139	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1984-86	140-7826	0.2760 I.D., 1.770 Length, 0.4350 O.D., Pre Cut For Seal, Plain Port End
	Exh	1984-86	140-7827	0.2760 I.D., 1.770 Length, 0.4348 O.D.
		1984-86	140-8233	0.2760 I.D., 1.890 Length, 0.4350 O.D., Pre Cut For Seal, Tapered Port End, +2 Oversized O.D. Also Available
Spring	Both	1984-86	160-1052	1.725 Length, Inner

1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin C, "CA18DE"
1988-89 L4 110 CID**CA18DE 24**
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-89	SB1500-74	1½ O.D., 1.180T I.D., 0.2140 Depth
	Exh	1988-89	SB1250-56	1¼ O.D., 0.905T I.D., 0.2300 Depth
Valve	Int	1988-89	10263	1.339 Head Diameter
Keeper	Both	1988-89	121-1063	1 RD Bead Type
Stem Seal	Both	1988-89	122-1150	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1988-89	140-8190	0.2365 I.D., 1.580 Length, 0.3950 O.D., Tapered Port End
	Exh	1988-89	140-8191	0.2365 I.D., 1.695 Length, 0.3948 O.D., Plain Port End
Spring	Both	1988-89	160-1326	1.720 Length

1809cc, (1.8L), DOHC, GAS, FI, 16 Valve, "QG18DE"
2000-06 L4 110 CID**QG18DE 25**
BORE - 80mm/3.15"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2000-06	10224	1.181 Head Diameter
	Exh	2000-06	10536	0.984 Head Diameter, Except Calif.
Keeper	Both	2000-06	121-1064	1 RD Bead Type
Stem Seal	Both	2000-06	122-1162	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2000-06	140-8218	0.2170 I.D., 1.575 Length, 0.3760 O.D.
	Exh	2000-06	140-8213	0.2170 I.D., 1.575 Length, 0.3760 O.D.
Spring	Both	2000-00	160-1327	1.645 Length, Calif. Only
Head Saver Shim		2000-06	230-2157	New Hgt. 4.638 - 4.648; Min. 4.630

1952cc, (2.0L), SOHC, GAS, CARB, Vin H, L20B
1974-80 L4 119 CID**L20B 26**
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1974-80	SB1812-52	1 ¹³ / ₁₆ O.D., 1.440T I.D., 0.3150 Depth
	Exh	1974-80	SB1500-53	1½ O.D., 1.180T I.D., 0.3070 Depth
Valve	Int	1974-80	10015	1.648 Head Diameter
	Exh	1974-80	10036S	1.382 Head Diameter, Stellite Face
Keeper	Both	1974-80	121-1047	1 SQ Bead Type
Stem Seal	Both	1974-80	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1974-80	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring
Spring	Both	1974-80	160-1013	1.770 Length, Inner
		1974-80	160-1019	1.968 Length, Outer

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

27 1952cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin P, "Z20E"
1980-81 L4 119 CID

Z20E
BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-81	SB1812-54	1 ¹³ / ₁₆ O.D.,1.405T I.D.,0.3150 Depth
	Exh	1980-81	SB1625-53	1 ⁵ / ₈ O.D.,1.255T I.D.,0.3000 Depth
Valve	Int	1980-81	10268	1.658 Head Diameter
	Exh	1980-81	10269	1.500 Head Diameter
Keeper	Both	1980-81	121-1047	1 SQ Bead Type
Stem Seal	Both	1980-81	122-1119	Positive Type,Viton Material, Ring & Spring Style
Guide	Both	1980-81	140-7499	0.3155 I.D.,2.313 Length,0.4745 O.D.,W/ Snap Ring
Spring	Both	1980-81	160-1052	1.725 Length,Inner
		1980-81	160-1053	2.010 Length,Outer

28 1952cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin H, "Z20S"
1980-81 L4 119 CID

Z20S
BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-81	SB1812-54	1 ¹³ / ₁₆ O.D.,1.405T I.D.,0.3150 Depth
	Exh	1980-81	SB1625-53	1 ⁵ / ₈ O.D.,1.255T I.D.,0.3000 Depth
Valve	Int	1980-81	10268	1.658 Head Diameter
	Exh	1980-81	10269	1.500 Head Diameter
Keeper	Both	1980-81	121-1047	1 SQ Bead Type
Stem Seal	Both	1980-81	122-1119	Positive Type,Viton Material, Ring & Spring Style
Guide	Both	1980-81	140-7499	0.3155 I.D.,2.313 Length,0.4745 O.D.,W/ Snap Ring
Spring	Both	1980-81	160-1052	1.725 Length,Inner
		1980-81	160-1053	2.010 Length,Outer

29 1952cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin F, "Z20"
1983-84 L4 119 CID

Z20
BORE - 85mm/3.35"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-84	SB1812-54	1 ¹³ / ₁₆ O.D.,1.405T I.D.,0.3150 Depth
	Exh	1983-84	SB1625-53	1 ⁵ / ₈ O.D.,1.255T I.D.,0.3000 Depth
Keeper	Both	1983-84	121-1047	1 SQ Bead Type
Stem Seal	Both	1983-84	122-1119	Positive Type,Viton Material, Ring & Spring Style
Guide	Both	1983-84	140-7499	0.3155 I.D.,2.313 Length,0.4745 O.D.,W/ Snap Ring
Spring	Both	1983-84	160-1052	1.725 Length,Inner
		1983-84	160-1053	2.010 Length,Outer

30 1974cc, (2.0L), SOHC, GAS, CARB, 8 Valve, Vin H, "CA20S"
1982-83 L4 120 CID

CA20S
BORE - 84.5mm/3.33"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1982-83	SB1500-54	1 ¹ / ₂ O.D.,1.180T I.D.,0.3070 Depth
Valve	Exh	1982-83	10271	1.381 Head Diameter
Keeper	Both	1982-83	121-1059	1 RD Bead Type
Stem Seal	Both	1982-83	122-1139	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1982-83	140-7826	0.2760 I.D.,1.770 Length,0.4350 O.D.,Pre Cut For Seal, Plain Port End
		1982-83	140-7827	0.2760 I.D.,1.770 Length,0.4348 O.D.
		1982-83	140-8233	0.2760 I.D.,1.890 Length,0.4350 O.D.,Pre Cut For Seal, Tapered Port End,+2 Oversized O.D. Also Available
Spring	Both	1982-83	160-1052	1.725 Length,Inner

(Cont'd) NISSAN / PASSENGER CAR OR TRUCK**1974cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin H, P, CA20E**
1984-89 L4 122 CIDCA20E **31**
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1984-89	SB1500-54	1½ O.D., 1.180T I.D., 0.3070 Depth
Valve	Int 1984-89	10270	1.617 Head Diameter
	Exh 1984-89	10271	1.381 Head Diameter
Keeper	Both 1984-89	121-1059	1 RD Bead Type
Stem Seal	Both 1984-89	122-1139	Positive Type, Viton Material, Metal Clad Style
Guide	Int 1984-89	140-7826	0.2760 I.D., 1.770 Length, 0.4350 O.D., Pre Cut For Seal, Plain Port End
	Exh 1984-89	140-7827	0.2760 I.D., 1.770 Length, 0.4348 O.D.
		140-8233	0.2760 I.D., 1.890 Length, 0.4350 O.D., Pre Cut For Seal, Tapered Port End, +2 Oversized O.D. Also Available
Spring	Both 1984-89	160-1052	1.725 Length, Inner

1997cc, (2.0L), DOHC, GAS, FI, 16 Valve, MR20DE
2007-16 L4 122 CIDNIS-MR20DE **32**
BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve	Int 2007-15	13213	1.337 Head Diameter, W/ 0.2165 Tip To Groove Length
		13398	1.337 Head Diameter, W/ 0.1634 Tip To Groove Length
	Exh 2007-15	13214	1.093 Head Diameter, W/ 0.2311 Tip To Groove Length
		13399	1.093 Head Diameter, W/ 0.1790 Tip To Groove Length
Keeper	Both 2013-16	121-1064	1 RD Bead Type
Stem Seal	Both 2007-16	122-1162	Positive Type, Viton Material, Metal Clad Style
Spring	Int 2007-12	160-1590	1.694 Length
		160-1658	1.927 Length
	Exh 2007-12	160-1600	1.761 Length
		160-1659	2.040 Length

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, G, SR20DE
1991-01 L4 122 CIDSR20DE **33**
BORE - 86mm/3.38"

PART	YEARS	PART NO.	NOTES
Valve	Int 1991-99	10228	1.339 Head Diameter, 3.991 Overall Length
		10794	1.339 Head Diameter, 3.872 Overall Length
	Exh 1991-99	10229	1.181 Head Diameter, 4.028 Overall Length
		10795	1.181 Head Diameter, 3.909 Overall Length
Keeper	Both 1991-01	121-1063	1 RD Bead Type
Stem Seal	Both 1991-01	122-1150	Positive Type, Viton Material, Metal Clad Style
Guide	Int 1991-01	140-8216	0.2365 I.D., 1.690 Length, 0.3955 O.D., Tapered Port End
	Exh 1991-01	140-8217	0.2365 I.D., 1.690 Length, 0.3953 O.D., Plain Port End

2164cc, (2.2L), OHV, DIESEL, FI, 8 Valve, Vin S, "SD22"
1981-83 L4 132 CIDSD22 **34**
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh 1981-83	SB1437-60	17/16 O.D., 1.125 I.D., 0.2570 Depth
Spring	Both 1981-83	160-1482	1.955 Length

2187cc, (2.2L), SOHC, GAS, CARB, 8 Valve, Vin M, "Z22"
1981-82 L4 133 CIDZ22 **35**
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1981-82	SB1812-54	1 ¹³ / ₁₆ O.D., 1.405T I.D., 0.3150 Depth
	Exh 1981-82	SB1625-53	1 ⁵ / ₈ O.D., 1.255T I.D., 0.3000 Depth
Valve	Int 1981-82	10268	1.658 Head Diameter
	Exh 1981-82	10269	1.500 Head Diameter

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

35 2187cc, (2.2L), SOHC, GAS, CARB, 8 Valve, Vin M, "Z22" Z22
 (cont.) 1981-82 L4 133 CID BORE - 87mm/3.43"

PART		YEARS	PART NO.	NOTES
Keeper	Both	1981-82	121-1047	1 SQ Bead Type
Stem Seal	Both	1981-82	122-1263	Positive Type,Viton Material,Ring & Spring Style
Guide	Both	1981-82	140-7828	0.3155 I.D.,2.660 Length,0.4745 O.D.,W/ Snap Ring
Spring	Both	1981-82	160-1052	1.725 Length,Inner
		1981-82	160-1053	2.010 Length,, Outer

36 2187cc, (2.2L), SOHC, GAS, FI, 8 Valve, Vin R, "Z22E" Z22E
 1982-83 L4 133 CID BORE - 87mm/3.43"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1982-83	SB1812-54	1 ¹⁹ / ₁₆ O.D.,1.405T I.D.,0.3150 Depth
	Exh	1982-83	SB1625-53	1 ⁵ / ₈ O.D.,1.255T I.D.,0.3000 Depth
Valve	Int	1982-83	10268	1.658 Head Diameter
	Exh	1982-83	10269	1.500 Head Diameter
Keeper	Both	1982-83	121-1047	1 SQ Bead Type
Stem Seal	Both	1982-83	122-1263	Positive Type,Viton Material,Ring & Spring Style
Guide	Both	1982-83	140-7828	0.3155 I.D.,2.660 Length,0.4745 O.D.,W/ Snap Ring
Spring	Both	1982-83	160-1052	1.725 Length,Inner
		1982-83	160-1053	2.010 Length,Outer

37 2389cc, (2.4L), SOHC, GAS, CARB, FI, 8 Valve, Vin N, "Z24" Z24
 1983-86 L4 146 CID BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-86	SB1812-56	1 ¹⁹ / ₁₆ O.D.,1.535 I.D.,0.2930 Depth
	Exh	1983-86	SB1625-60	1 ⁵ / ₈ O.D.,1 ¹ / ₄ T I.D.,0.2930 Depth
Valve	Int	1983-86	10268	1.658 Head Diameter
	Exh	1983-86	10269	1.500 Head Diameter
Keeper	Both	1983-86	121-1047	1 SQ Bead Type
Stem Seal	Both	1983-86	122-1119	Positive Type,Viton Material,Ring & Spring Style
Guide	Both	1983-86	140-7828	0.3155 I.D.,2.660 Length,0.4745 O.D.,W/ Snap Ring
Spring	Both	1983-86	160-1052	1.725 Length,Inner
		1983-86	160-1053	2.010 Length,Outer
Head Saver Shim		1983-86	230-2060	New Hgt.- 3.8860 - 3.9020; Min. Hgt.- 3.8780

38 2389cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin N, S, "Z24I" Z24I
 1986-88 L4 146 CID BORE - 89mm/3.50"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-88	SB1812-56	1 ¹⁹ / ₁₆ O.D.,1.535 I.D.,0.2930 Depth
	Exh	1986-88	SB1625-60	1 ⁵ / ₈ O.D.,1 ¹ / ₄ T I.D.,0.2930 Depth
Valve	Int	1986-88	10268	1.658 Head Diameter
	Exh	1986-88	10269	1.500 Head Diameter
Keeper	Both	1986-88	121-1047	1 SQ Bead Type
Stem Seal	Both	1986-88	122-1119	Positive Type,Viton Material,Ring & Spring Style
Guide	Both	1986-88	140-7828	0.3155 I.D.,2.660 Length,0.4745 O.D.,W/ Snap Ring
Spring	Both	1986-88	160-1052	1.725 Length,Inner
		1986-88	160-1053	2.010 Length,Outer
Head Saver Shim		1986-88	230-2060	New Hgt.- 3.8860 - 3.9020; Min. Hgt.- 3.8780

(Cont'd) **NISSAN / PASSENGER CAR OR TRUCK**

2389cc, (2.4L), SOHC, GAS, FI, Vin F, H, S, "KA24E"
1989-97 L4 146 CID

KA24E 39
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-97	SB1500-53	1½ O.D., 1.180T I.D., 0.3070 Depth
	Exh	1989-97	SB1687-56	1⅞ O.D., 1.375T I.D., 0.2950 Depth
Valve	Int	1989-97	10273	1.339 Head Diameter
	Exh	1989-97	10274S	1.575 Head Diameter, Stellite Face
Keeper	Both	1989-97	121-1062	1 RD Bead Type
Stem Seal	Int	1989-94	122-1139	Positive Type, Viton Material, Metal Clad Style
		1995-97	122-1262	Positive Type, Viton Material, Metal Clad Style
	Exh	1989-94	122-1159	Positive Type, Viton Material, Metal Clad Style
		1995-97	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Int	1989-97	140-8211	0.2760 I.D., 2.070 Length, 0.4350 O.D., Modification on O/A Length Required on Some 240SSX Castings.
	Exh	1989-97	140-8212	0.3155 I.D., 2.205 Length, 0.4745 O.D.
Spring	Int	1989-97	160-1271	2.106 Length, Inner
		1989-97	160-1272	2.250 Length, Outer
	Exh	1989-97	160-1273	1.900 Length, Inner
		1989-97	160-1274	2.126 Length, Outer
Rocker Components	Int	1989-97	180-1240	Cam Follower, Front Side, Includes Lash Adj.
		1989-97	180-1265	Cam Follower, Includes Lash Adj., Rear Side
	Exh	1989-97	180-1266	Cam Follower, Includes Lash Adj., # 1, 3
		1989-97	180-1267	Cam Follower, Includes Lash Adj., # 2, 4
Head Saver Shim		1989-97	230-2059	New Hgt. - 3.8900 - 3.8980; Min. Hgt. - 3.8820

2389cc, (2.4L), DOHC, GAS, FI, 16 Valve, KA24DE
1991-04 L4 146 CID

KA24DE 40
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-00	SB1500-74	1½ O.D., 1.180T I.D., 0.2140 Depth
	Exh	1991-00	SB1312-52	1⅝ O.D., 1.060T I.D., 0.2400 Depth
Valve	Int	1991-98	10226	1.441 Head Diameter, Except 1998 Altima
		1998-04	10792	1.441 Head Diameter, 0.274 Stem Dia., 0.234 Tip End Relief Dia., Exc. 1998 240SX & 2000-01 Altima
	Exh	2000-01	02181	1.441 Head Diameter, Altima
		1991-98	10227S	1.232 Head Diameter, Stellite Face, Except 1998 Altima
		1998-04	10793S	1.232 Head Diameter, Stellite Face, 0.274 Stem Dia., 0.234 Tip End Relief Dia., Exc. 1998 240SX & 2000-01 Altima
		2000-01	02182S	1.230 Head Diameter, Stellite Face, Altima
Keeper	Both	1991-98	121-1062	1 RD Bead Type, Does Not Fit 1998 Altima
		1998-04	121-1063	1 RD Bead Type, Does Not Fit 1998 240SX
Stem Seal	Both	1991-95	122-1139	Positive Type, Viton Material, Metal Clad Style
		1996-04	122-1262	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1991-04	140-8211	0.2760 I.D., 2.070 Length, 0.4350 O.D., Modification on O/A Length Required on Some 240SX Castings.
	Exh	1991-04	140-8204	0.2760 I.D., 1.550 Length, 0.4350 O.D.
Head Saver Shim		1991-94	230-2067	240SX Only. New Hgt. - 4.9720 - 4.9800; Min. Hgt. - 4.9640
		1993-01	230-2068	Altima Only. New Hgt. - 4.9720 - 4.9800; Min. Hgt. - 4.9640
		1995-04	230-2153	240SX, Frontier, Xterra; New Hgt. 4.972-4.980; Min. Hgt. 4.964

2393cc, (2.4L), SOHC, GAS, FI, 12 Valve, Vin H, "L24E"
1977-84 L6 146 CID

L24E 41
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1977-84	SB1750-52	1¾ O.D., 1.455T I.D., 0.3070 Depth
	Exh	1977-84	SB1500-54	1½ O.D., 1.180T I.D., 0.3070 Depth

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

41 2393cc, (2.4L), SOHC, GAS, FI, 12 Valve, Vin H, "L24E" L24E
 (cont.) 1977-84 L6 146 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1977-84	10015	1.648 Head Diameter
	Exh	1977-84	10036S	1.382 Head Diameter,Stellite Face
Keeper	Both	1977-84	121-1047	1 SQ Bead Type
Stem Seal	Both	1977-84	122-1119	Positive Type,Viton Material,Ring & Spring Style
Guide	Both	1977-84	140-7499	0.3155 I.D.,2.313 Length,0.4745 O.D.,W/ Snap Ring
Spring	Both	1977-84	160-1013	1.770 Length,Inner
		1977-84	160-1019	1.968 Length,Outer

42 2488cc, (2.5L), OHV, DIESEL, FI, 8 Valve, Vin J, "SD25" SD25
 1983-86 L4 152 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-86	SB1625-59	1 $\frac{5}{8}$ O.D.,1.380 I.D.,0.2570 Depth
	Exh	1983-86	SB1500-70	1 $\frac{1}{2}$ O.D.,1.203 I.D.,0.2830 Depth
Valve	Int	1983-86	10275	1.575 Head Diameter
	Exh	1983-86	10276S	1.339 Head Diameter,Stellite Face
Stem Seal	Both	1983-86	122-1263	Positive Type,Viton Material,Ring & Spring Style
Guide	Both	1983-86	140-8209	0.3155 I.D.,2.045 Length,0.4743 O.D.
Spring	Both	1983-86	160-1482	1.955 Length

43 2488cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, "QR25DER Supercharged" QR25DER
 2014-14 L4 152 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-14	121-1064	1 RD Bead Type
Stem Seal	Both	2014-14	122-1150	Positive Type,Viton Material,Metal Clad Style

44 2500cc, (2.5L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, QR25DE NIS-QR25DE
 2002-17 L4 153 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2002-15	13077	1.405 Head Diameter,W/.1851 Tip To Groove Length & 3.826 O.A.L.; NOTE: Altima & Sentra 2002-06, Frontier 2005-15, Except Rogue
		2007-13	13079	1.405 Head Diameter,W/.1515 Tip To Groove Length & 3.891 O.A.L, Except Rogue
	Exh	2002-15	13078	1.206 Head Diameter,W/.1851 Tip To Groove Length & 3.891 O.A.L.; NOTE: Altima & Sentra 2002-06, Frontier 2005-15, Except Rogue
		2007-13	13080	1.206 Head Diameter,W/.1535 Tip To Groove Length & 3.856 O.A.L, Except Rogue
Keeper	Both	2002-16	121-1064	1 RD Bead Type
Stem Seal	Both	2002-16	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2002-14	140-8216	0.2365 I.D.,1.690 Length,0.3955 O.D.,Tapered Port End
	Exh	2002-14	140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End
Spring	Int	2003-13	160-1590	1.694 Length
	Exh	2003-13	160-1591	1.754 Length
	Both	2002-02	160-1591	1.754 Length,NOTE: Intake & Exhaust 2002 Only
Head Bolt Set		2002-06	220-1117	Torque To Yield,Services Engine
Head Saver Shim		2002-13	230-2139	New Hgt. - 5.095 - 5.100; Min. Hgt. - 5.085

(Cont'd) **NISSAN / PASSENGER CAR OR TRUCK**

2565cc, (2.6L), SOHC, GAS, CARB, Vin R, "L26"
1974-74 L6 156 CID

L26 **45**
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1974-74	SB1750-52	1¼ O.D., 1.455T I.D., 0.3070 Depth
	Exh	1974-74	SB1500-54	1½ O.D., 1.180T I.D., 0.3070 Depth
Valve	Int	1974-74	10015	1.648 Head Diameter
	Exh	1974-74	10036S	1.382 Head Diameter, Stellite Face
Keeper	Both	1974-74	121-1047	1 SQ Bead Type
Stem Seal	Both	1974-74	122-1263	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1974-74	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring
Spring	Both	1974-74	160-1013	1.770 Length, Inner
		1974-74	160-1019	1.968 Length, Outer

2753cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin H, "L28E"
1975-83 L6 168 CID

L28E **46**
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1975-83	SB1812-51	1 ¹³ / ₁₆ O.D., 1.530T I.D., 0.3070 Depth
	Exh	1975-83	SB1500-54	1½ O.D., 1.180T I.D., 0.3070 Depth
Valve	Int	1975-80	10056	1.738 Head Diameter, 4.580 Overall Length
		1981-83	10277	1.732 Head Diameter, 4.500 Overall Length
	Exh	1975-80	10036S	1.382 Head Diameter, Stellite Face, 4.619 Overall Length
		1981-83	10278S	1.378 Head Diameter, Stellite Face, 4.537 Overall Length
Keeper	Both	1975-83	121-1047	1 SQ Bead Type
Stem Seal	Both	1975-83	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1975-83	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring
Spring	Both	1975-83	160-1013	1.770 Length, Inner
		1975-83	160-1019	1.968 Length, Outer

2753cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin C, "L28E TURBO"
1981-83 L6 168 CID

L28ET **47**
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-83	SB1812-51	1 ¹³ / ₁₆ O.D., 1.530T I.D., 0.3070 Depth
	Exh	1981-83	SB1500-54	1½ O.D., 1.180T I.D., 0.3070 Depth
Valve	Int	1981-83	10277	1.732 Head Diameter
	Exh	1981-83	10278S	1.378 Head Diameter, Stellite Face
Keeper	Both	1981-83	121-1047	1 SQ Bead Type
Stem Seal	Both	1981-83	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1981-83	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring
Spring	Both	1981-83	160-1013	1.770 Length, Inner
		1981-83	160-1019	1.968 Length, Outer

2793cc, (2.8L), SOHC, DIESEL, FI, 12 Valve, Vin S, "LD28"
1981-83 L6 170 CID

LD28 **48**
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1981-83	SB1437-61	1 ⁷ / ₁₆ O.D., 1.162 I.D., 0.3100 Depth
Keeper	Both	1981-83	121-1047	1 SQ Bead Type
Stem Seal	Both	1981-83	122-1263	Positive Type, Viton Material, Ring & Spring Style
Guide	Both	1981-83	140-7499	0.3155 I.D., 2.313 Length, 0.4745 O.D., W/ Snap Ring

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

49 2960cc, (3.0L), SOHC, GAS, FI, Vin C, "VG30T TURBO"
1984-89 V6 181 CID

VG30T
BORE - 87.1mm/3.43"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1984-89	SB1812-55	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 0.2780 Depth
Valve	Int 1984-89	10281	1.657 Head Diameter
	Exh 1984-89	10282	1.382 Head Diameter
Keeper	Both 1984-89	121-1059	1 RD Bead Type
Stem Seal	Int 1984-89	122-1139	Positive Type, Viton Material, Metal Clad Style
	Exh 1984-89	122-1119	Positive Type, Viton Material, Ring & Spring Style
Guide	Int 1984-89	140-7873	0.2760 I.D., 2.315 Length, 0.4423 O.D., Head Must Be Reamed To .440/.4408 For Guide Installation
	Exh 1984-89	140-8388	0.2760 I.D., 2.315 Length, 0.4345 O.D., Std. O.D.
		140-8017	0.3160 I.D., 2.500 Length, 0.4820 O.D., Head Must Be Reamed To .4793/.4802 For Guide Installation
	1984-89	140-8389	0.3160 I.D., 2.500 Length, 0.4740 O.D., Std O.D.
Spring	Both 1984-88	160-1216	2.065 Length, Outer
	1984-89	160-1052	1.725 Length, Inner
Lifter	Both 1984-89	VL121	Hydraulic Type
Rocker Components	Both 1984-89	180-1264	Cam Follower
Head Saver Shim	1984-89	230-2015	New Hgt. - 4.2047 - 4.2057; Min. Hgt. - 4.1967, 2 Required

50 2960cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin 1, H, W, VG30, VG30E, VG30I
1984-98 V6 181 CID

VG30-SC
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1984-98	SB1812-55	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 0.2780 Depth
Valve	Int 1984-98	10281	1.657 Head Diameter
	Exh 1984-95	10282	1.382 Head Diameter
	1996-98	10282S	1.382 Head Diameter, Stellite Face
Keeper	Both 1984-98	121-1059	1 RD Bead Type
Stem Seal	Int 1984-94	122-1262	Positive Type, Viton Material, Metal Clad Style, Maxima Only
	1994-98	122-1139	Positive Type, Viton Material, Metal Clad Style, Quest Only
	Exh 1984-94	122-1119	Positive Type, Viton Material, Ring & Spring Style, Maxima Only
	1994-98	122-1263	Positive Type, Viton Material, Ring & Spring Style, Quest Only
Guide	Int 1984-98	140-7873	0.2760 I.D., 2.315 Length, 0.4423 O.D., Head Must Be Reamed To .440/.4408 For Guide Installation
	Exh 1984-98	140-8388	0.2760 I.D., 2.315 Length, 0.4345 O.D., Std. O.D.
		140-8017	0.3160 I.D., 2.500 Length, 0.4820 O.D., Head Must Be Reamed To .4793/.4802 For Guide Installation
	1984-98	140-8389	0.3160 I.D., 2.500 Length, 0.4740 O.D., Std O.D.
Spring	Both 1984-98	160-1052	1.725 Length, Inner
	1984-98	160-1216	2.065 Length, Outer
Lifter	Both 1984-98	VL121	Hydraulic Type
Rocker Components	Both 1986-98	180-1264	Cam Follower
Head Saver Shim	1984-98	230-2015	New Hgt. - 4.2047 - 4.2057; Min. Hgt. - 4.1967, 2 Required

51 2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin R, "VG30DE"
1990-96 V6 181 CID

VG30DE
BORE - 87.1mm/3.43"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1990-96	SB1500-77	1 ¹ / ₂ O.D., 1.175T I.D., 0.2360 Depth
	Exh 1990-96	SB1312-63	1 ⁵ / ₁₆ O.D., 0.965T I.D., 0.2350 Depth
Valve	Int 1990-96	10284	1.339 Head Diameter
	Exh 1990-96	10285S	1.164 Head Diameter, Stellite Face
Keeper	Int 1990-96	121-1063	1 RD Bead Type

(Cont'd) **NISSAN / PASSENGER CAR OR TRUCK**

2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin R, "VG30DE" VG30DE **51**
1990-96 V6 181 CID BORE - 87.1mm/3.43" (cont.)

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1990-96 122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-96 140-8543	0.2365 I.D.,1.815 Length,0.3955 O.D.
	Exh	1990-96 140-8544	0.2365 I.D.,1.940 Length,0.3953 O.D.
Spring	Both	1990-96 160-1326	1.720 Length

2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, "VG30DETT TURBO" VG30DETT **52**
1990-96 V6 181 CID BORE - 87.1mm/3.43"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-96 SB1500-77	1½ O.D.,1.175T I.D.,0.2360 Depth
	Exh	1990-96 SB1312-63	1⅝ O.D.,0.965T I.D.,0.2350 Depth
Valve	Int	1990-96 10284	1.339 Head Diameter
	Exh	1990-96 10285S	1.164 Head Diameter,Stellite Face
Keeper	Both	1990-96 121-1063	1 RD Bead Type
Stem Seal	Both	1990-96 122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1990-96 140-8543	0.2365 I.D.,1.815 Length,0.3955 O.D.
	Exh	1990-96 140-8544	0.2365 I.D.,1.940 Length,0.3953 O.D.
Spring	Both	1990-96 160-1326	1.720 Length

2960cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin E, "VE30DE" VE30DE **53**
1992-94 V6 181 CID BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1992-94 SB1500-77	1½ O.D.,1.175T I.D.,0.2360 Depth
	Exh	1992-94 SB1312-52	1⅝ O.D.,1.060T I.D.,0.2400 Depth
Keeper	Both	1992-94 121-1063	1 RD Bead Type
Stem Seal	Both	1992-94 122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1992-94 140-8543	0.2365 I.D.,1.815 Length,0.3955 O.D.
	Exh	1992-94 140-8544	0.2365 I.D.,1.940 Length,0.3953 O.D.

2988cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin C, "VQ30DE" VQ30DE **54**
1995-01 V6 182 CID BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES
Valve	Int	1995-01 10537	1.417 Head Diameter
	Exh	1995-01 10538	1.232 Head Diameter
Keeper	Both	1995-01 121-1064	1 RD Bead Type
Stem Seal	Both	1995-01 122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1995-01 140-8190	0.2365 I.D.,1.580 Length,0.3950 O.D.,Tapered Port End
	Exh	1995-01 140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin A, "VG33E" VG33E **55**
1996-04 V6 200 CID BORE - 91.5mm/3.60"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1996-04 SB1812-55	1⅞ O.D.,1½T I.D.,0.2780 Depth
Valve	Int	1996-04 10281	1.657 Head Diameter
	Exh	1996-04 10282S	1.382 Head Diameter,Stellite Face
Keeper	Both	1996-04 121-1059	1 RD Bead Type
Stem Seal	Int	1996-04 122-1262	Positive Type,Viton Material,Metal Clad Style
	Exh	1999-04 122-1263	Positive Type,Viton Material, Ring & Spring Style
Guide	Int	1996-04 140-8388	0.2760 I.D.,2.315 Length,0.4345 O.D.,Std O.D.
	Exh	1996-04 140-8389	0.3160 I.D.,2.500 Length,0.4740 O.D.,Std O.D.

NISSAN / PASSENGER CAR OR TRUCK (Cont'd)

55 3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, Vin A, "VG33E" VG33E
 (cont.) 1996-04 V6 200 CID BORE - 91.5mm/3.60"

PART	YEARS	PART NO.	NOTES	
Spring	Both	1996-04	160-1052	1.725 Length,Inner
		1996-04	160-1216	2.065 Length,Outer
Lifter	Both	1996-04	VL121	Hydraulic Type
Rocker Components	Both	1996-04	180-1264	Cam Follower

56 3275cc, (3.3L), SOHC, GAS, FI, 12 Valve, VG33ER "Supercharged" VG33ER
 2001-04 V6 200 CID BORE - 91.5mm/3.60"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2001-04	SB1812-55	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D.,0.2780 Depth
Valve	Int	2001-04	10281	1.657 Head Diameter
	Exh	2001-04	10282S	1.382 Head Diameter,Stellite Face
Keeper	Both	2001-04	121-1059	1 RD Bead Type
Stem Seal	Int	2001-04	122-1262	Positive Type,Viton Material,Metal Clad Style
	Exh	2001-04	122-1263	Positive Type,Viton Material,Ring & Spring Style
Guide	Int	2001-04	140-8388	0.2760 I.D.,2.315 Length,0.4345 O.D.,Std. O.D.
	Exh	2001-04	140-8389	0.3160 I.D.,2.500 Length,0.4740 O.D.,Std. O.D.
Spring	Both	2001-04	160-1052	1.725 Length,Inner
		2001-04	160-1216	2.065 Length,Outer
Lifter	Both	2001-04	VL121	Hydraulic Type
Rocker Components	Both	2001-04	180-1264	Cam Follower

57 3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, Vin A, VQ35DE NIS-VQ35DE
 2001-16 V6 213 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-09	13237	1.463 Head Diameter,3.798 O/A Length
		2007-14	13220	1.449 Head Diameter,3.825 O/A Length; 2014 Murano Only
	Exh	2001-09	13238	1.234 Head Diameter,3.700 O/A Length
		2007-14	13221	1.195 Head Diameter,3.730 O/A Length; 2014 Maxima, Murano Only
Keeper	Both	2001-16	121-1064	1 RD Bead Type
Stem Seal	Both	2001-16	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2001-16	140-8190	0.2365 I.D.,1.580 Length,0.3950 O.D.,Tapered Port End
	Exh	2001-16	140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

58 3498cc, (3.5L), DOHC, GAS, FI, 24 Valve, VQ35HR NIS-VQ35HR
 2007-09 V6 213 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-09	13220	1.449 Head Diameter,3.825 O/A Length
	Exh	2007-09	13221	1.195 Head Diameter,3.730 O/A Length
Keeper	Both	2007-09	121-1064	1 RD Bead Type
Stem Seal	Both	2007-09	122-1150	Positive Type,Viton Material,Metal Clad Style

59 3696cc, (3.7L), DOHC, GAS, FI, 24 Valve, VQ37VHR NIS-VQ37VHR
 2009-16 V6 225 CID BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES	
Valve	Exh	2009-10/14	13221	1.195 Head Diameter,3.730 O/A Length
Keeper	Both	2009-14	121-1064	1 RD Bead Type
Stem Seal	Both	2009-15	122-1150	Positive Type,Viton Material,Metal Clad Style

(Cont'd) NISSAN / PASSENGER CAR OR TRUCK

3954cc, (4.0L), DOHC, GAS, FI, 24 Valve, VQ40DE
 2005-17 V6 241 CID

NIS-VQ40DE 60
 BORE - 95.5mm/3.76"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-16	13237	1.463 Head Diameter,3.798 O/A Length; NOTE: Old Style Valve, Will Not Work With New Style Short Lifter.
	Exh	2005-15	13238	1.234 Head Diameter,3.700 O/A Length; NOTE: Old Style Valve, Will Not Work With New Style Short Lifter.
Keeper	Both	2005-16	121-1064	1 RD Bead Type
Stem Seal	Both	2005-16	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2005-16	140-8216	0.2365 I.D.,1.690 Length,0.3955 O.D.,Tapered Port End
	Exh	2005-16	140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

5552cc, (5.6L), DOHC, FLEX, GAS, FI, 32 Valve, VK56DE
 2004-17 V8 339 CID

NIS-VK56DE 61
 BORE - 98mm/3.85"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-13	13237	1.463 Head Diameter,3.798 O/A Length, Except Flex Fuel; NOTE: Old Style Valve, Will Not Work With New Style Short Lifter.
	Exh	2004-15	13238	1.234 Head Diameter,3.700 O/A Length; NOTE: Old Style Valve, Will Not Work With New Style Short Lifter.
Keeper	Both	2004-16	121-1064	1 RD Bead Type
Stem Seal	Both	2004-16	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-16	140-8216	0.2365 I.D.,1.690 Length,0.3955 O.D.,Tapered Port End
	Exh	2004-16	140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

NISSAN / INDUSTRIAL

Engine	Models	Line No.
4 Cylinder		
71 C.I., (1.2L), A12 Forklift Nissan	Forklift	1
69 C.I., (1.5L), D11 Forklift Nissan	Forklift	2
90 C.I., (1.5L), J15 Forklift Nissan	Forklift	3
91 C.I., (1.5L), A15 Forklift Nissan	Forklift	4
121 C.I., (2.0L), H20 Forklift Nissan	Forklift	5
121 C.I., (2.0L), H20-2 Forklift Nissan	Forklift	6
126 C.I., (2.1L), K21 Forklift Nissan	Forklift	7
132 C.I., (2.2L), Diesel, SD22 Forklift Nissan	Forklift	8
146 C.I., (2.4L), Z24 Forklift Nissan	Forklift	9
151 C.I., (2.5L), H25 Forklift Nissan	Forklift	10
152 C.I., (2.5L), K25 Forklift Nissan	Forklift	11
153 C.I., (2.5L), Diesel, SD25 Forklift Nissan	Forklift	12
163 C.I., (2.7L), Diesel, TD27 Forklift Nissan	Forklift	13
6 Cylinder		
182 C.I., (3.0L), H30 Forklift Nissan	Forklift	14
199 C.I., (3.3L), Diesel, SD33 Forklift Nissan	Forklift	15
241 C.I., (4.0L), P40 Forklift Nissan	Forklift	16
254 C.I., (4.2L), TB42 Forklift Nissan	Forklift	17
254 C.I., (4.2L), Diesel, TD42 Forklift Nissan	Forklift	18
273 C.I., (4.5L), TB45 Forklift Nissan	Forklift	19
345 C.I., (5.7L), Diesel, FD6 Forklift Nissan	Forklift	20

NISSAN / INDUSTRIAL (Cont'd)

1 71 C.I., (1.2L), A12 Forklift Nissan

L4 71 CID

IND-A12

BORE - 72.99mm/2.874"

PART		PART NO.	NOTES
Valve	Int	10030	1.382 Head Diameter,OEM # 13201H1000
	Exh	10034S	1.140 Head Diameter,Stellite Face,OEM # 13202H1000
Stem Seal	Both	122-1082	Positive Type,Viton Material,Metal Clad Style,OEM # 13207H6200
Guide	Int	140-7545	0.3160 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring, W/ Counterbore,OEM # 13211H1000
	Exh	140-7542	0.3155 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring,OEM # 13213H1000
Spring	Both	160-1515	2.112 Length,OEM # 1320348600

2 69 C.I., (1.5L), D11 Forklift Nissan

L4 69 CID

D11

BORE - 73mm/2.874"

PART		PART NO.	NOTES
Valve	Int	10030	1.382 Head Diameter,OEM # 13201H1000
	Exh	10034S	1.140 Head Diameter,Stellite Face,OEM # 13202H1000
Stem Seal	Both	122-1082	Positive Type,Viton Material,Metal Clad Style,OEM # 13207H6200
Guide	Int	140-7545	0.3160 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring, W/ Counterbore,OEM # 13211H1000
	Exh	140-7542	0.3155 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring,OEM # 13213H1000
Spring	Both	160-1515	2.112 Length,OEM # 1320348600

3 90 C.I., (1.5L), J15 Forklift Nissan

L4 90 CID

J15

BORE - 78mm/3.07"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-4	1 ⁵ / ₈ O.D.,1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth,+20 O/S Available
Valve	Int	10748	1.492 Head Diameter,Wide Groove, Old Style, OEM # 1320101W00
		10750	1.492 Head Diameter,Narrow Groove, New Style, OEM # 1320101W01
	Exh	10749	1.260 Head Diameter,Wide Groove, Old Style, OEM # 1320201W00
		10751	1.254 Head Diameter,Narrow Groove, New Style, OEM # 1320201W01
Stem Seal	Both	122-1387	Positive Type,Viton Material,Metal Clad Style,OEM # 13207B5100
Guide	Int	140-7495	0.3440 I.D.,1.870 Length,0.5650 O.D.,OEM # 1321101W10
	Exh	140-7498	0.3440 I.D.,2.200 Length,0.5650 O.D.,OEM # 1321301W10
Spring	Both	160-1516	1.920 Length,OEM # 1320321002

4 91 C.I., (1.5L), A15 Forklift Nissan

L4 91 CID

A15

BORE - 75.99mm/2.972"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-56	1 ¹ / ₂ O.D.,1.275T I.D.,0.2500 Depth,NOTE: Optional, Seat May Need To Be Machined In Order To Achieve Correct Depth
	Exh	SB1312-52	1 ⁵ / ₁₆ O.D.,1.060T I.D.,0.2400 Depth
Valve	Int	10031	1.462 Head Diameter,OEM # 13201H6200
	Exh	10033S	1.188 Head Diameter,Stellite Face,OEM # 13202H6200
Keeper	Both	121-1047	1 SQ Bead Type,OEM # 13210U0100
Stem Seal	Both	122-1082	Positive Type,Viton Material,Metal Clad Style,OEM # 13207H6200
Guide	Int	140-7545	0.3160 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring, W/ Counterbore,OEM # 13212H8510
	Exh	140-7542	0.3155 I.D.,1.930 Length,0.4745 O.D.,W/ Snap Ring,OEM # 13213H2311
Spring	Both	160-1014	1.831 Length,OEM # 13203H1000

(Cont'd) NISSAN / INDUSTRIAL**121 C.I., (2.0L), H20 Forklift Nissan**
L4 121 CIDH20 **5**
BORE - 87.2mm/3.433"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-1	1 ¹¹ / ₁₆ O.D., 1 ¹³ / ₃₂ I.D., 1/4 Depth, +10 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-6	1 ⁷ / ₁₆ O.D., 1 ¹ / ₈ I.D., 5/16 Depth
Valve	Int	10752	1.653 Head Diameter, OEM # 13201F1800
	Exh	10753	1.260 Head Diameter, OEM # 13202P5100
Stem Seal	Both	122-1377	Positive Type, Viton Material, Top Hat Style, OEM # 1320766700
Guide	Int	140-7495	0.3440 I.D., 1.870 Length, 0.5650 O.D., OEM # 1321130001
	Exh	140-7498	0.3440 I.D., 2.200 Length, 0.5650 O.D., OEM # 1321330001
Spring	Both	160-1482	1.955 Length, OEM # 1320332200

121 C.I., (2.0L), H20-2 Forklift Nissan
L4 121 CIDH20-2 **6**
BORE - 87.2mm/3.433"

PART		PART NO.	NOTES
Valve	Int	02243	1.384 Head Diameter, 7mm Stem Dia., OEM # 1320150K00
	Exh	02244	1.185 Head Diameter, 7mm Stem Dia., OEM # 1320250K02
Keeper	Both	121-1059	1 RD Bead Type, OEM # 1321001M01
Stem Seal	Both	122-1139	Positive Type, Viton Material, Metal Clad Style, 7mm Stem Dia., OEM # 1320753F00
Guide	Int	140-3000	0.2770 I.D., 1.660 Length, 0.4390 O.D., 7mm Valve Stem
	Exh	140-3001	0.2770 I.D., 1.990 Length, 0.4390 O.D., 7mm Valve Stem
Spring	Both	160-1136	1.760 Length, H20-II Only, OEM # 1320350K00

126 C.I., (2.1L), K21 Forklift Nissan
L4 126 CIDK21 **7**
BORE - 89.025mm/3.505"

PART		PART NO.	NOTES
Valve	Int	13084	1.503 Head Diameter, OEM # 13201-FY500
	Exh	13085	1.267 Head Diameter, OEM # 13202-FU400
Keeper	Both	121-1067	1 SQ Bead Type, OEM # 1321016A00
Stem Seal	Both	122-1139	Positive Type, Viton Material, Metal Clad Style, OEM # 13207-53F00, 13207-53G00
Guide	Both	140-7826	0.2760 I.D., 1.770 Length, 0.4350 O.D., Pre Cut For Seal, Plain Port End, OEM # 13212-FY500
Spring	Both	160-1505	1.807 Length, OEM # 13203-FY50A
Head Saver Shim		230-2193	New Hgt. - 4.016; Min. Hgt. - N/A

132 C.I., (2.2L), Diesel, SD22 Forklift Nissan
L4 132 CIDIND-SD22 **8**
BORE - 83.007mm/3.2680"

PART		PART NO.	NOTES
Valve	Int	10288	1.496 Head Diameter, OEM # 13201Y5200
	Exh	10289S	1.260 Head Diameter, OEM # 13202Y5200
Stem Seal	Both	122-1263	Positive Type, Viton Material, Ring & Spring Style, OEM # 1320781W00
Guide	Both	140-8209	0.3155 I.D., 2.045 Length, 0.4743 O.D., OEM # 13211V1700, 13213V1700
Spring	Both	160-1482	1.955 Length, OEM # 13203T7200

146 C.I., (2.4L), Z24 Forklift Nissan
L4 146 CIDIND-Z24 **9**
BORE - 89.00mm/3.503"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-60	1 ⁵ / ₈ O.D., 1 ¹ / ₄ I.D., 0.2930 Depth
	Exh	SB1812-56	1 ¹³ / ₁₆ O.D., 1.535 I.D., 0.2930 Depth
Valve	Int	10268	1.658 Head Diameter, OEM # 13201N8501

NISSAN / INDUSTRIAL (Cont'd)

9 146 C.I., (2.4L), Z24 Forklift Nissan IND-Z24
(cont.) L4 146 CID BORE - 89.00mm/3.503"

PART		PART NO.	NOTES
Valve	Exh	10269	1.500 Head Diameter, OEM # 13202N8500
Keeper	Both	121-1047	1 SQ Bead Type, OEM # 13210UO100
Stem Seal	Both	122-1119	Positive Type, Viton Material, Ring & Spring Style, OEM # 1320781W00
Guide	Both	140-7828	0.3155 I.D., 2.660 Length, 0.4745 O.D., W/ Snap Ring, OEM # 13213W0500, 13213W0510
Spring	Both	160-1052 160-1053	1.725 Length, Inner, OEM # 13204W7000 2.010 Length, Outer, OEM # 13203W0400
Head Saver Shim		230-2060	New Hgt - 3.8860 - 3.9020; Min. Hgt. - 3.7870

10 151 C.I., (2.5L), H25 Forklift Nissan H25
L4 151 CID BORE - 92mm/3.6280"

PART		PART NO.	NOTES
Valve	Int Exh	02243 02244	1.384 Head Diameter, OEM # 1320150K00 1.185 Head Diameter, OEM # 1320250K02
Keeper	Both	121-1059	1 RD Bead Type, OEM # 1321001M01
Stem Seal	Both	122-1139	Positive Type, Viton Material, Metal Clad Style, OEM # 1320753F00
Guide	Int Exh	140-3000 140-3001	0.2770 I.D., 1.660 Length, 0.4390 O.D. 0.2770 I.D., 1.990 Length, 0.4390 O.D.
Spring	Both	160-1136	1.760 Length, OEM # 1320250K00

11 152 C.I., (2.5L), K25 Forklift Nissan K25
L4 152 CID BORE - 89.025mm/3.505"

PART		PART NO.	NOTES
Valve	Int Exh	13084 13085	1.503 Head Diameter, OEM # 13201-FY500 1.267 Head Diameter, OEM # 13202-FU400
Keeper	Both	121-1067	1 SQ Bead Type, OEM # 1321016A00
Stem Seal	Both	122-1139	Positive Type, Viton Material, Metal Clad Style, OEM # 13207-53F00, 13207-53G00
Guide	Both	140-7826	0.2760 I.D., 1.770 Length, 0.4350 O.D., Pre Cut For Seal, Plain Port End, OEM # 13212-FY500
Spring	Both	160-1505	1.807 Length, OEM # 13203-FY50A
Head Saver Shim		230-2193	New Hgt. - 4.016; Min. Hgt. - N/A

12 153 C.I., (2.5L), Diesel, SD25 Forklift Nissan IND-SD25
L4 153 CID BORE - 89.90mm/3.54"

PART		PART NO.	NOTES
Valve Seat Insert	Int Exh	SB1625-59 SB1500-70	1 $\frac{5}{8}$ O.D., 1.380 I.D., 0.2570 Depth 1 $\frac{1}{2}$ O.D., 1.203 I.D., 0.2830 Depth
Valve	Int Exh	10275 10276S	1.575 Head Diameter, OEM # 13201L2000 1.339 Head Diameter, Stellite Face, OEM # 13202L2000
Stem Seal	Both	122-1263	Positive Type, Viton Material, Ring & Spring Style, OEM # 1320781W00
Guide	Both	140-8209	0.3155 I.D., 2.045 Length, 0.4743 O.D., OEM # 13211V1700, 13213V1700
Spring	Both	160-1482	1.955 Length, OEM # 13203T7200

13 163 C.I., (2.7L), Diesel, TD27 Forklift Nissan TD27
L4 163 CID BORE - 96.012mm/3.78"

PART		PART NO.	NOTES
Valve	Int Exh	13058 13059	1.712 Head Diameter, OEM # 1320143G01 1.496 Head Diameter, OEM # 1320243G01

(Cont'd) NISSAN / INDUSTRIAL**163 C.I., (2.7L), Diesel, TD27 Forklift Nissan****TD27 13**

L4 163 CID

BORE - 96.012mm/3.78" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-3093	0.3153 I.D.,1.970 Length,0.4740 O.D.,OEM # 1321254T01
Spring	Both	160-1518	2.067 Length,OEM # 1320243G10

182 C.I., (3.0L), H30 Forklift Nissan**H30 14**

L6 182 CID

BORE - 87.2mm/3.433"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-1	1 ¹ / ₁₆ O.D.,1 ¹³ / ₃₂ I.D., ¹ / ₄ Depth,+10 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1437-6	1 ⁷ / ₁₆ O.D.,1 ¹ / ₈ I.D., ⁵ / ₁₆ Depth
Valve	Int	10752	1.653 Head Diameter,OEM # 13201F1800
	Exh	10753	1.260 Head Diameter,OEM # 13202P5100
Stem Seal	Both	122-1377	Positive Type,Viton Material,Top Hat Style,OEM # 1320766700
Guide	Int	140-7495	0.3440 I.D.,1.870 Length,0.5650 O.D.,OEM # 1321258001
	Exh	140-7498	0.3440 I.D.,2.200 Length,0.5650 O.D.,OEM # 1321358001
Spring	Both	160-1482	1.955 Length,OEM # 13203T7200

199 C.I., (3.3L), Diesel, SD33 Forklift Nissan**SD33 15**

L6 199 CID

BORE - 82.979mm/3.2669"

PART		PART NO.	NOTES
Valve	Int	10288	1.496 Head Diameter,OEM # 13201Y5200
	Exh	10289S	1.260 Head Diameter,OEM # 13202Y5200
Guide	Both	140-8209	0.3155 I.D.,2.045 Length,0.4743 O.D.,OEM # 13211V1700, 13213V1700
Spring	Both	160-1482	1.955 Length,OEM # 13203T7200

241 C.I., (4.0L), P40 Forklift Nissan**P40 16**

L6 241 CID

BORE - 85.690mm/3.3736"

PART		PART NO.	NOTES
Valve	Int	13231	1.693 Head Diameter,13201-C8000
	Exh	13232S	1.427 Head Diameter,Stellite Face,13202-C8000
Stem Seal	Both	122-1387	Positive Type,Viton Material,Metal Clad Style,OEM # 13207-C6000; NOTE: Late Castings
		122-1431	Umbrella Type,Poly Material,Umbrella Style,OEM# 13207-58000; Note: Early Castings
Guide	Int	140-3088	0.3420 I.D.,2.480 Length,0.5640 O.D.,OEM # 13212-C6001
	Exh	140-3089	0.3420 I.D.,2.640 Length,0.5640 O.D.,OEM # 13213-C6001
Spring	Both	160-1517	2.311 Length,OEM # 13203-C8000

254 C.I., (4.2L), TB42 Forklift Nissan**TB42 17**

L6 254 CID

BORE - 95.999mm/3.7795"

PART		PART NO.	NOTES
Valve	Int	13065	1.854 Head Diameter,OEM # 13201-03J10, 13201-VC000
	Exh	13066	1.500 Head Diameter,Stellite Face,OEM # 13202-03J00, 13202-VC000
Keeper	Both	121-1047	1 SQ Bead Type,OEM # 13210-U0100
Stem Seal	Both	122-1119	Positive Type,Viton Material,Ring & Spring Style,OEM # 13207-81W00
Guide	Int	140-3091	0.3153 I.D.,2.130 Length,0.4820 O.D.,OEM # 13212-03J10
	Exh	140-3092	0.3153 I.D.,2.090 Length,0.4820 O.D.,OEM # 13213-03J10
Spring	Both	160-1052	1.725 Length,Inner, OEM # 13204W7000
		160-1053	2.010 Length,Outer, OEM # 13203W0400

NISSAN / INDUSTRIAL (Cont'd)

18 254 C.I., (4.2L), Diesel, TD42 Forklift Nissan
L6 254 CID

TD42

BORE - 96.03mm/3.7807"

PART		PART NO.	NOTES
Valve	Int	13058	1.712 Head Diameter, OEM # 1320143G01
	Exh	13059	1.496 Head Diameter, OEM # 1320243G01
Guide	Both	140-3093	0.3153 I.D., 1.970 Length, 0.4740 O.D., OEM # 1321254T01
Spring	Both	160-1518	2.067 Length, OEM # 1320243G10

19 273 C.I., (4.5L), TB45 Forklift Nissan
L6 273 CID

TB45

BORE - 99.5mm/3.917"

PART		PART NO.	NOTES
Valve	Int	13065	1.854 Head Diameter, OEM # 13201-VC000
	Exh	13066	1.500 Head Diameter, Stellite Face, OEM # 13202-VC000
Keeper	Both	121-1047	1 SQ Bead Type, OEM # 13210-U0100
Stem Seal	Both	122-1119	Positive Type, Viton Material, Ring & Spring Style, OEM # 13207-42L00
		122-1159	Positive Type, Viton Material, Metal Clad Style, OEM # 13207-40F00
Spring	Both	160-1564	1.686 Length, Inner, OEM # 13204-VB005
		160-1565	1.901 Length, Outer, OEM # 13203-VB005

20 345 C.I., (5.7L), Diesel, FD6 Forklift Nissan
L6 345 CID

FD6

BORE - 100.025mm/3.938"

PART		PART NO.	NOTES
Valve	Int	13057	1.850 Head Diameter, OEM # 13201Z5000
	Exh	13134S	1.496 Head Diameter, Stellite Face, OEM # 1320275001, 13202T9000
Guide	Both	140-3086	0.3544 I.D., 2.365 Length, 0.5535 O.D., OEM # 13211Z5001

OLIVER / TRACTOR

Engine	Models	Line No.
6 Cylinder		
231 C.I., (3.8L), Diesel Waukesha	Wheel Tractor, 188D, Super 188 D, 88D, 880D	1
231 C.I., (3.8L), Diesel Waukesha	1600	2
283 C.I., (4.6L), Diesel Waukesha	1655, 1800, 1850	3

1 231 C.I., (3.8L), Diesel Waukesha
L6 231 CID

188D_SUP

BORE - 90mm/3.50"

PART		PART NO.	NOTES
Guide	Int	140-1954	0.3745 I.D., 3.188 Length, 0.6258 O.D.
	Exh	140-1953	0.3745 I.D., 2.313 Length, 0.6260 O.D.

2 231 C.I., (3.8L), Diesel Waukesha
L6 231 CID

1600

BORE - 90mm/3.50"

PART		PART NO.	NOTES
Guide	Exh	140-1927	0.3745 I.D., 2.625 Length, 0.6257 O.D.

3 283 C.I., (4.6L), Diesel Waukesha
L6 283 CID

1650

BORE - 98.4mm/3.875"

PART		PART NO.	NOTES
Guide	Int	140-1923	0.3745 I.D., 2.938 Length, 0.6258 O.D.
	Exh	140-1924	0.3745 I.D., 2.250 Length, 0.6260 O.D.

OMC / MARINE

Engine	Models	Line No.
4 Cylinder		
153 C.I., (2.5L), 153 Chevrolet	100, 110, & 120 H.P.	1
181 C.I., (3.0L), 181 GMC	140 H.P.	2
6 Cylinder		
250 C.I., (4.1L), 250 Chevrolet	165 H.P.	3
8 Cylinder		
283 C.I., (4.6L), 283 Chevrolet	185 H.P.	4
302 C.I., (5.0L), 302 Ford	170, 175 & 190 H.P.	5
307 C.I., (5.0L), 307 Chevrolet	210, 215, 225, 230, 235, 245 H.P.	6
350 C.I., (5.7L), 350 Chevrolet	250, 260, & 290 H.P.	7
351 C.I., (5.8L), 351 Ford		8

153 C.I., (2.5L), 153 Chevrolet	OMC153	1
L4 153 CID	BORE - 98.425mm/3.80"	

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh SB1562-9	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material
Valve	Int 01193	1.720 Head Diameter, +3 & +15 O/S Stem Available
	Exh 01206S	1.500 Head Diameter, Stellite Face, +15 O/S Stem Available
	01646S	1.500 Head Diameter, Inconel, Stellite Face, W/ .3719 Stem Dia., LPG
Keeper	Both 121-1003	1 SQ Bead Type
Stem Seal	Both 122-1014	Positive Type, Tef/Rub Material, 1-Ring Style, Machine Guide To 0.562 O.D.
	122-1037	Umbrella Type, Poly Material, Umbrella Style
	122-1043	O-Ring Type, Nitrile Material, O-Ring Style
	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
	122-1270	Umbrella Type, Viton Material, Umbrella Style
Guide	Int 140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh 140-9606	0.3440 I.D., 2.375 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9606U)
Spring	Both 160-1117	2.030 Length, 1st Design
	160-1125	2.050 Length, W/ Damper, 2nd Design, W/O Rotator
Lifter	Both VL37	Hydraulic Type
Rocker Components	Both 181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
	184-1038	Nut, ³ / ₈
	183-1024	Smooth Ball, ³ / ₈
Push Rod	Both 192-1330	9.682 Length

181 C.I., (3.0L), 181 GMC	OMC181	2
L4 181 CID	BORE - 101.6mm/4.00"	

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth, W/ 1.720 Valve Head Dia.
	Exh SB2000-7	2.000 O.D., 1 ¹³ / ₁₆ I.D., ⁷ / ₃₂ Depth, W/ 1.940 Valve Head Dia.
	SB1562-9	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth, Also Available In Non-Magnetic (N) Material, W/ 1.500 Valve Head
	SB1687-2	1 ¹¹ / ₁₆ O.D., 1 ⁷ / ₁₆ I.D., ⁷ / ₃₂ Depth, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.600 Valve Head Dia.
Valve	Int 01193	1.720 Head Diameter, +3 & +15 O/S Stem Available
	01195	1.940 Head Diameter, +3 & +15 O/S Stem Available

OMC / MARINE (Cont'd)

2 181 C.I., (3.0L), 181 GMC OMC181
 (cont.) L4 181 CID BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve	Exh	00919	1.600 Head Diameter
		01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
		01646S	1.500 Head Diameter,Inconel, Stellite Face,W/.3719 Stem Dia.
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1075	Positive Type,Viton Material, Ring & Band Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 11/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Int	140-9459	0.3430 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
	Exh	140-9946	0.3430 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide
Spring	Both	160-1076	2.110 Length
Lifter	Both	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		VL73	Hydraulic Type
Rocker Components	Both	180-1040	Rocker Arm, Stamped Steel,R.H.
		180-1041	Rocker Arm, Stamped Steel,L.H.
		187-1014	Retainer
Push Rod	Both	192-1330	9.682 Length

3 250 C.I., (4.1L), 250 Chevrolet OMC250
 L6 250 CID BORE - 98.425mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1037	Umbrella Type,Poly Material,Umbrella Style
		122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 11/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
		122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Both	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	160-1125	2.050 Length,W/ Damper
		160-1148	1.900 Length
Lifter	Both	VL117RH	Hydraulic High Performance Type,NOTE: Must be used with adjustable valve train.
		VL73	Hydraulic Type
Rocker Components	Both	181-1012	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) ³ / ₈ Nut
		184-1038	Nut, ³ / ₈
		183-1024	Smooth Ball, ³ / ₈
Push Rod	Both	192-1330	9.682 Length

4 283 C.I., (4.6L), 283 Chevrolet OMC283
 V8 283 CID BORE - 98.425mm/3.80"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ T I.D., ⁷ / ₃₂ Depth
	Exh	SB1562-9	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ T I.D., ⁷ / ₃₂ Depth,Also Available In Non-Magnetic (N) Material

283 C.I., (4.6L), 283 Chevrolet
V8 283 CID**OMC283 4**
BORE - 98.425mm/3.80" (cont.)

PART		PART NO.	NOTES
Valve	Int	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1037	Umbrella Type,Poly Material,Umbrella Style
		122-1043	O-Ring Type,Nitrile Material,O-Ring Style
		122-1048	Positive Type,Poly Material,2-Ring Style,Use W/ Factory Guide Boss
		122-1074	Positive Type,Viton Material,Ring & Band Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
		122-1270	Umbrella Type,Viton Material,Umbrella Style
Guide	Int	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
	Exh	140-9606	0.3440 I.D.,2.375 Length,0.5020 O.D.,Spiral I.D. Conversion Guide,-5 U/S I.D. Available (140-9606U)
Spring	Both	160-1117	2.030 Length,W/ 1.220 O.D.
		160-1125	2.050 Length,W/ Damper
		160-1144	2.048 Length,W/ Damper
		160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	180-1228	Rocker Arm
		180-1283	Rocker Arm, Rail Type,Optional
		181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		184-1038	Nut, 3/8
		183-1017	Smooth Ball, 3/8
Push Rod	Both	192-1331	7.798 Length

302 C.I., (5.0L), 302 Ford
V8 302 CID**OMC302F 5**
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D.,1 ¹ / ₂ I.D.,7/32 Depth,W/ 1.782 Valve Head Dia.
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D.,1 ⁵ / ₁₆ I.D.,7/32 Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,W/ 1.451 or 1.461 Valve Head Dia.
Valve	Int	01137	1.781 Head Diameter,170 & 175 HP, +15 O/S Stem Available
		01328	1.782 Head Diameter,190 HP W/ A11 & M Suffixes, +3 & +15 O/S Stem Available
	Exh	01135	1.451 Head Diameter,170 & 175 HP Note: Does Not Require Lash Cap, +3 & +15 O/S Stem Available
		01135S	1.451 Head Diameter,Stellite Face,170 & 175 HP Note: Does Not Require Lash Cap, +3 & +15 O/S Stem Available; Optional Stellite Face Valve
		01327	1.461 Head Diameter,190 HP W/ A11 & M Suffixes
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1038	Umbrella Type,Poly Material,Umbrella Style
		122-1075	Positive Type,Viton Material,Ring & Band Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 ¹ / ₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)

OMC / MARINE (Cont'd)

5 302 C.I., (5.0L), 302 Ford **OMC302F**
 (cont.) V8 302 CID **BORE - 101.6mm/4.00"**

PART		PART NO.	NOTES
Spring	Both	160-1004	2.060 Length
		160-1024	1.923 Length,W/ Rotator, W/ .185 Wire Dia.
		160-1041	1.965 Length
		160-1151	1.970 Length
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1234	Rocker Arm, Stamped
		180-1238	Rocker Arm, Cast, Rail Type
		181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt,From S/N BEO,001
		181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) 3/8 Nut, (1) 5/16 Nut,To S/N BEO,001
		184-1021	Stud, 5/16
		184-1022	+6 Oversize Stud, 5/16
		184-1035	Bolt W/Washer, 5/16,From S/N BEO,001
		184-1038	Nut, 3/8
		184-1039	Nut, 5/16
		183-1020	Grooved Ball, 3/8
		183-1022	Fulcrum,From S/N BEO,001
183-1030	Smooth Ball, 3/8		
Push Rod	Both	192-1409	6.876 Length,- 60 U/S (192-1409U60) Available

6 307 C.I., (5.0L), 307 Chevrolet **OMC307**
 V8 307 CID **BORE - 98.425mm/3.80"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 13/16 O.D.,1 1/2 T I.D.,7/32 Depth,W/ 1.720 Valve Head Dia.
		SB2000-7	2.000 O.D.,1 13/16 I.D.,7/32 Depth,W/ 1.940 Valve Head Dia.
	Exh	SB1562-9	1 1/16 O.D.,1 5/16 T I.D.,7/32 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	01193	1.720 Head Diameter,+3 & +15 O/S Stem Available
		01195	1.940 Head Diameter,+3 & +15 O/S Stem Available
	Exh	01206S	1.500 Head Diameter,Stellite Face,+15 O/S Stem Available
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type,Tef/Rub Material,1-Ring Style
		122-1074	Positive Type,Viton Material,Ring & Band Style
		122-1238	Umbrella Type,Nylon/Viton Material,Viton Insert Style,Use W/ 1 1/32 Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	140-9607	0.3440 I.D.,2.250 Length,0.5020 O.D.,Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	160-1009	1.910 Length,W/ Damper
		160-1144	2.048 Length,W/ Damper
		160-1144HP	2.023 Length,W/ Damper,Hi-Perf.
		160-1407	2.140 Length,W/ Damper,Optional Hi-Perf.
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	180-1228	Rocker Arm
		180-1239	Rocker Arm, Stamped, Long Slot
		180-1283	Rocker Arm, Rail Type,Optional
		181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut,High Perf., W/ 1.5:1 Ratio
		181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut,Optional
		184-1038	Nut, 3/8
		183-1017	Smooth Ball, 3/8

307 C.I., (5.0L), 307 Chevrolet
V8 307 CID**OMC307 6**
BORE - 98.425mm/3.80" (cont.)

PART		PART NO.	NOTES
Rocker Components	Both	183-1032	Grooved Ball, $\frac{3}{8}$
Push Rod	Both	192-1331	7.798 Length

350 C.I., (5.7L), 350 Chevrolet
V8 350 CID**OMC350 7**
BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 $\frac{1}{16}$ O.D., 1 $\frac{1}{2}$ T I.D., $\frac{7}{32}$ Depth, W/ 1.720 Valve Head Dia.
	Exh	SB2000-7	2.000 O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, W/ 1.940 Valve Head Dia.
		SB1562-1	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
		SB1562-1N	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{7}{32}$ Depth, Optional "N" Material
		SB1562-9	1 $\frac{9}{16}$ O.D., 1 $\frac{5}{16}$ T I.D., $\frac{7}{32}$ Depth, Also Available In Non-Magnetic (N) Material
SB1625-3N	1 $\frac{5}{8}$ O.D., 1 $\frac{5}{16}$ I.D., $\frac{1}{4}$ Depth, For Vortec Heads W/ Factory Installed Seats		
Valve	Int	01193	1.720 Head Diameter, 250, 260, 290 HP, +3 & +15 O/S Stem Available
		01195	1.940 Head Diameter, 250, 260 HP, +3 & +15 O/S Stem Available
		01762R	1.940 Head Diameter, Vortec Heads W/O Seal Groove
	Exh	01192	1.500 Head Diameter, 260 HP W/ M & M1 Suffixes, +3 & +15 O/S Stem Available
		01206S	1.500 Head Diameter, Stellite Face, Except 260 HP W/ M & M1 Suffixes. Except 290 HP, +15 O/S Stem Available
		01294S	1.500 Head Diameter, Stellite Face, 290 HP, +15 O/S Stem Available
01646S	1.500 Head Diameter, Inconel, Stellite Face, W/ .3719 Stem Dia., Optional		
Keeper	Both	121-1003	1 SQ Bead Type
Stem Seal	Both	122-1014	Positive Type, Tef/Rub Material, 1-Ring Style
		122-1037	Umbrella Type, Poly Material, Umbrella Style
		122-1043	O-Ring Type, Nitrile Material, O-Ring Style
		122-1048	Positive Type, Poly Material, 2-Ring Style, W/ .341 Stem Dia.; Use W/ Factory Guide Boss
	122-1074	Positive Type, Viton Material, Ring & Band Style	
	122-1234	Umbrella Type, Nylon Material, Umbrella Style	
	122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ $\frac{11}{32}$ Std. Stem, Use 122-1238 +15 For Oversize Stems	
	122-1270	Umbrella Type, Viton Material, Umbrella Style	
	322-1003	Positive Type, Teflon Material, All Teflon Style, With 0.500 Guide Boss	
322-1004	Positive Type, Teflon Material, All Teflon Style, With 0.531 Guide Boss		
Guide	Int	140-9867	0.3440 I.D., 2.125 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, -5 U/S I.D. Available (140-9867U)
		Exh	140-7999	0.3740 I.D., 2.200 Length, 0.6205 O.D., W/ Replaceable Exh. Guide, Use Caution When Removing Stepped O.D., NOTE: Drive Guide Out Toward Spring Seat
	140-9107		0.3740 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Exc. 1970-74 Sprint W/ .342 Valve Stem Dia.
	140-9946		0.3430 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide
	Both	140-8180	0.3430 I.D., 2.275 Length, 0.5577 O.D., Aluminum Heads
Spring	Exh	160-1009	1.910 Length, W/ Damper, 1973-80 Exh
	Both	160-1144	2.048 Length, W/ Damper, Exc. 1973-80 Exh
		160-1144HP	2.023 Length, W/ Damper, Hi-Perf.
		160-1407	2.140 Length, W/ Damper, Optional Hi-Perf.
Rotator	Exh	161-1012	
Lifter	Both	VL37	Hydraulic Type
Rocker Components	Both	180-1228	Rocker Arm
		180-1239	Rocker Arm, Stamped, Long Slot
		180-1283	Rocker Arm, Rail Type, Optional

OMC / MARINE (Cont'd)

7 350 C.I., (5.7L), 350 Chevrolet OMC350
 (cont.) V8 350 CID BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Rocker Components	Both	181-1011	Rocker Arm Kit, Includes: (1) Rocker Arm, (1) Smooth Ball, (1) 3/8 Nut
		181-1049	Rocker Arm Kit, Includes (1) Long Slot R. Arm, (1) Grooved Ball, (1) 3/8 Nut, High Perf., W/ 1.5:1 Ratio
		181-1061	Rocker Arm Kit, Includes (1) Rail Type R. Arm, (1) Smooth Ball (1) 3/8 Nut, Optional
		184-1038	Nut, 3/8
		183-1017	Smooth Ball, 3/8
		183-1032	Grooved Ball, 3/8
Push Rod	Both	192-1331	7.798 Length

8 351 C.I., (5.8L), 351 Ford OMC351
 V8 351 CID BORE - 101.6mm/4.00"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-3	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ T I.D., 7/32 Depth, W/ 1.782 Valve Head Dia.
		SB1937-17	1 ¹⁵ / ₁₆ O.D., 1 ¹¹ / ₁₆ I.D., 7/32 Depth, W/ 1.842 Valve Head Dia.
	Exh	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.461 Valve Head Dia.
		SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₈ I.D., 7/32 Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, W/ 1.541 Valve Head Dia.
Valve	Int	01238	1.842 Head Diameter, +15 O/S Stem Available
		01328	1.782 Head Diameter, +3 & +15 O/S Stem Available
	Exh	01237	1.541 Head Diameter, +15 O/S Stem Available
		01327	1.461 Head Diameter
Keeper	Both	121-1003	1 SQ Bead Type, Fits 1968-76
Stem Seal	Both	122-1038	Umbrella Type, Poly Material, Umbrella Style
		122-1047	Positive Type, Poly Material, 2-Ring Style
		122-1238	Umbrella Type, Nylon/Viton Material, Viton Insert Style, Use W/ 1 ¹ / ₃₂ Std. Stem, Use 122-1238 +15 For Oversize Stems
Guide	Both	140-9607	0.3440 I.D., 2.250 Length, 0.5020 O.D., Spiral I.D. Conversion Guide, Hardened Version Available (140-9607H), - 5 U/S I.D. Available (140-9607U)
Spring	Both	160-1024	1.923 Length
		160-1044	2.040 Length
Lifter	Both	VL35	Hydraulic Type
Rocker Components	Both	180-1234	Rocker Arm, Stamped
		180-1238	Rocker Arm, Cast, Rail Type
		181-1035	Rocker Arm Kit, Includes (1) Rocker Arm, (1) Fulcrum, (1) 5/16 Bolt
		181-1041	Rocker Arm Kit, Includes (1) Cast Rail Type R. Arm, (1) Grooved Ball, (1) 3/8 Nut, (1) 5/16 Nut
		184-1021	Stud, 5/16
		184-1022	+6 Oversize Stud, 5/16
		184-1035	Bolt W/Washer, 5/16
		184-1039	Nut, 5/16
		183-1020	Grooved Ball, 3/8, W/ Cast Rocker Arms
		183-1022	Fulcrum
		183-1030	Smooth Ball, 3/8, W/ Cast Rocker Arms
Push Rod	Both	190-1443	8.182 Length, W/ Stamped Rocker Arms
		192-1399	8.152 Length, W/ Cast Iron Rocker Arms

PERKINS / HEAVY DUTY

Engine	Models	Line No.
3 Cylinder		
91 C.I., (1.5L), 403C.15, 6 Valve, Diesel, 400C Series "Shibaura "		1
152 C.I., (2.5L), A3.152, 6 Valve, Diesel		7
152 C.I., (2.5L), D3.152, 6 Valve, Direct Injected, Diesel		8
152 C.I., (2.5L), G3.152, 6 Valve, Gas		9
152 C.I., (2.5L), T3.152, 6 Valve, Turbo, Diesel		10
152 C.I., (2.5L), 3.152.4, 6 Valve, Diesel		11
201 C.I., (3.3L), 1103-33T, 1103-33TA, Turbo, Diesel "1100 Series"	1100 Series Turbo	15
201 C.I., (3.3L), 1103A,1103B,1103C, Naturally Aspirated, Diesel "1100 Series"	1100 Series Naturally Aspirated	16
4 Cylinder		
107 C.I., (1.8L), 4.107, 8 Valve, Diesel	Industrial	2
107 C.I., (1.8L), 4.108, 8 Valve, Diesel	Industrial	3
122 C.I., (2.0L), 104.19, 8 Valve, Diesel "100 Series"		4
135 C.I., (2.2L), 404C.22, 8 Valve, Diesel, 400C Series "Shibaura "		5
135 C.I., (2.2L), 404C.22T, 8 Valve, Turbo, Diesel, 400C Series "Shibaura "		6
159 C.I., (2.6L), 704.26, 8 Valve, Diesel "700 Series"	700 Series	12
183 C.I., (3.0L), 704.30T, 8 Valve, Turbo, Diesel "700 Series"	700 Series Turbo	13
183 C.I., (3.0L), 704.30, 8 Valve, Diesel, "700 Series"	700 Series	14
203 C.I., (3.3L), 4.203, D4.203, 8 Valve, Direct Injected, Diesel		17
203 C.I., (3.3L), 4.203.2, 8 Valve, Diesel		18
212 C.I., (3.5L), 4.212, 8 Valve, Diesel		19
236 C.I., (3.9L), 4.236, 8 Valve, Diesel		20
236 C.I., (3.9L), G4.236, 8 Valve, Gas		21
236 C.I., (3.9L), C4.236, 8 Valve, Diesel		22
236 C.I., (3.9L), T4.236, 8 Valve, Turbo, Diesel		23
236 C.I., (3.9L), A4.236, 8 Valve, Diesel		24
243 C.I., (4.0L), 4.401/T4.401, 8 Valve, Turbo & Naturally Aspirated, Diesel		25
243 C.I., (4.0L), 1004.40, 8 Valve, Diesel		26
243 C.I., (4.0L), 1004.40T, 8 Valve, Turbo, Diesel		27
248 C.I., (4.2L), 4.248, 8 Valve, Diesel		28
248 C.I., (4.2L), 4.248.2, 8 Valve, Diesel		29
258 C.I., (4.2L), 1004.42/4.421, 8 Valve, Naturally Aspirated, Diesel		30
268 C.I., (4.4L), 1104C-44, 1104C-E44, Electronic Naturally Aspirated, Diesel "1100C Series"	1100C Series	31
268 C.I., (4.4L), 1104C-44T, 1104C-E44T, Turbo, Diesel "1100C Series"	1100C Series	32
268 C.I., (4.4L), 1104D-44, Naturally Aspirated, Diesel "1100D Series"	1100D Series	33
268 C.I., (4.4L), 1104D-44T, 1104D-44TA, Turbo Diesel "1100D Series"	1100D Series	34

PERKINS / HEAVY DUTY (Cont'd)

Engine	Models	Line No.
4 Cylinder		
318 C.I., (5.2L), 4.318, A4.318, 8 Valve, Diesel	Industrial Engines	36
6 Cylinder		
305 C.I., (5.0L), 6.305, 12 Valve, Diesel		35
354 C.I., (5.8L), D6.354, 6.354, 12 Valve, Diesel		37
354 C.I., (5.8L), T6.354, 12 Valve, Turbo, Diesel		38
354 C.I., (5.8L), A6.354, 12 Valve, Diesel		39
354 C.I., (5.8L), ATC6.354, 12 Valve, Turbo, Diesel		40
354 C.I., (5.8L), 6.354.1, 12 Valve, Diesel		41
354 C.I., (5.8L), 6.354.2, 12 Valve, Diesel		42
354 C.I., (5.8L), T6.354.4, 12 Valve, Turbo, Diesel		43
365 C.I., (6.0L), T6.601, 12 Valve, Turbo & Naturally Aspirated, Diesel		44
365 C.I., (6.0L), 1006.60, 12 Valve, Diesel		45
365 C.I., (6.0L), 1006.60T, 12 Valve, Turbo, Diesel		46
366 C.I., (6.0L), 1106C-E60TA, 12 Valve, Diesel "1100 Series"	1100 Series	47
372 C.I., (6.1L), 6.372, 12 Valve, Diesel		48
372 C.I., (6.1L), 6.372.4, 12 Valve, Diesel		49

1 91 C.I., (1.5L), 403C.15, 6 Valve, Diesel, 400C Series " Shibaura " **403C.15**
L3 91 CID BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D., 1.320 I.D., 0.2170 Depth, OEM # 110136300
	Exh	SB1400E-1PM	1.400 O.D., 1.170 I.D., 0.2170 Depth, OEM # U10136460
Valve	Int	13326	1.457 Head Diameter, OEM # 120166350, 120166380; NOTE: Late
	Exh	13327	1.299 Head Diameter, OEM # 120176360, 120176380; NOTE: Late
Stem Seal	Int	122-1464	Positive Type, Viton Material, Metal Clad Style, OEM # 120406070
	Exh	122-1465	Positive Type, Viton Material, Metal Clad Style, OEM # 120406050, U20406140
Guide	Both	140-3202	0.2756 I.D., 1.460 Length, 0.5020 O.D.
Lifter	Both	VL574	Mechanical Type, OEM # 120116160

2 107 C.I., (1.8L), 4.107, 8 Valve, Diesel **4.107**
L4 107 CID BORE - 79.4mm/3.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-7	1 ⁹ / ₁₆ O.D., 1 ¹ / ₄ I.D., 1/4 Depth, Oversized O.D., NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	SB1312-4	1 ⁵ / ₁₆ O.D., 1.000 I.D., 1/4 Depth, Oversized O.D., NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	13099	1.412 Head Diameter, OEM # 910060, 910064
	Exh	13100	1.190 Head Diameter, OEM # 910061
Keeper	Both	121-1051	1 RD Bead Type, OEM # 230001
Stem Seal	Both	122-1412	Umbrella Type, Viton Material, Umbrella Style, OEM # 33817403
Guide	Int	140-3099	0.3148 I.D., 2.127 Length, 0.5025 O.D., OEM # 3313E001
	Exh	140-1956	0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM # 33261723
Spring	Both	160-1540	2.050 Length, Inner, OEM # 780143
		160-1541	2.418 Length, Outer, OEM # 780144

(Cont'd) PERKINS / HEAVY DUTY**107 C.I., (1.8L), 4.108, 8 Valve, Diesel**
L4 107 CID4.108 **3**
BORE - 79.4mm/3.125"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-7	1 $\frac{9}{16}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{1}{4}$ Depth, Oversized O.D., NOTE: Seat May Need To Be Machined To Achieve Correct Depth
	Exh	SB1312-4	1 $\frac{9}{16}$ O.D., 1.000 I.D., $\frac{1}{4}$ Depth, Oversized O.D., NOTE: Seat May Need To Be Machined To Achieve Correct Depth
Valve	Int	13099	1.412 Head Diameter, OEM # 910060, 910064
	Exh	13100	1.190 Head Diameter, OEM # 910061
Keeper	Both	121-1051	1 RD Bead Type, OEM # 230001
Stem Seal	Both	122-1412	Umbrella Type, Viton Material, Umbrella Style, OEM # 33817403
Guide	Int	140-3099	0.3148 I.D., 2.127 Length, 0.5025 O.D., OEM # 3313E001
	Exh	140-1956	0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM # 33261723
Spring	Both	160-1540	2.050 Length, Inner, OEM # 780143
		160-1541	2.418 Length, Outer, OEM # 780144

122 C.I., (2.0L), 104.19, 8 Valve, Diesel "100 Series"
L4 122 CID104.19 **4**
BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1400E-1PM	1.400 O.D., 1.170 I.D., 0.2170 Depth, OEM # U10136460; NOTE: Check S/N
Stem Seal	Int	122-1464	Positive Type, Viton Material, Metal Clad Style, OEM # 120406070
	Exh	122-1465	Positive Type, Viton Material, Metal Clad Style, OEM # 120406050
Spring	Both	160-1638	1.382 Length, OEM # 198216700
Lifter	Both	VL574	Mechanical Type, OEM # 120116160

135 C.I., (2.2L), 404C.22, 8 Valve, Diesel, 400C Series "Shibaura"
L4 135 CID404C.22 **5**
BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D., 1.320 I.D., 0.2170 Depth, OEM # 110136300
	Exh	SB1400E-1PM	1.400 O.D., 1.170 I.D., 0.2170 Depth, OEM # U10136460
Valve	Int	13326	1.457 Head Diameter, OEM # 120166350, 120166380; NOTE: Late
	Exh	13327	1.299 Head Diameter, OEM # 120176360, 120176380; NOTE: Late
Stem Seal	Int	122-1464	Positive Type, Viton Material, Metal Clad Style, OEM # 120406070
	Exh	122-1465	Positive Type, Viton Material, Metal Clad Style, OEM # 120406050, U20406140
Guide	Both	140-3202	0.2756 I.D., 1.460 Length, 0.5020 O.D.
Spring	Both	160-1638	1.382 Length, OEM # 198216700
Lifter	Both	VL574	Mechanical Type, OEM # 120116160

135 C.I., (2.2L), 404C.22T, 8 Valve, Turbo, Diesel, 400C Series "Shibaura"
L4 135 CID404C.22T **6**
BORE - 84.01mm/3.3075"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1558E-1PM	1.558 O.D., 1.320 I.D., 0.2170 Depth, OEM # 110136300
	Exh	SB1400E-1PM	1.400 O.D., 1.170 I.D., 0.2170 Depth, OEM # U10136460
Valve	Int	13326	1.457 Head Diameter, OEM # 120166350, 120166380; NOTE: Late
	Exh	13327	1.299 Head Diameter, OEM # 120176360, 120176380; NOTE: Late
Stem Seal	Int	122-1464	Positive Type, Viton Material, Metal Clad Style, OEM # 120406070
	Exh	122-1465	Positive Type, Viton Material, Metal Clad Style, OEM # 120406050, U20406140
Guide	Both	140-3202	0.2756 I.D., 1.460 Length, 0.5020 O.D.
Spring	Both	160-1638	1.382 Length, OEM # 198216700
Lifter	Both	VL574	Mechanical Type, OEM # 120116160

PERKINS / HEAVY DUTY (Cont'd)

7 152 C.I., (2.5L), A3.152, 6 Valve, Diesel
L3 152 CID

A3.152
BORE - 91.44mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1880E-1	1.880 O.D., 1 ¹³ / ₃₂ I.D., ⁷ / ₃₂ Depth, OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-1	1.681 O.D., 1-13/64 I.D., ⁵ / ₁₆ Depth, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter, OEM # 31431281 & 31431261
	Exh	00873	1.315 Head Diameter, OEM # 31431271
Keeper	Both	121-1051	1 RD Bead Type, OEM # 230001
Stem Seal	Both	122-1212	Positive Type, Viton Material, Ring & Band Style, Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type, Teflon Material, All Teflon Style, From S/N C10001
Guide	Both	140-1956	0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM # 33261723
Spring	Both	160-1542	1.345 Length, OEM # 780007; NOTE: Inner Spring For Dual Spring Setup
		160-1543	1.836 Length, OEM # 780006; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

8 152 C.I., (2.5L), D3.152, 6 Valve, Direct Injected, Diesel
L3 152 CID

D3.152
BORE - 91.44mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1880E-1	1.880 O.D., 1 ¹³ / ₃₂ I.D., ⁷ / ₃₂ Depth, OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D., 1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-1	1.681 O.D., 1-13/64 I.D., ⁵ / ₁₆ Depth, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter, OEM # 31431261, 31431281; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter, OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter, OEM # 31431271, 31431591; NOTE: 45 Degree Valve
		13112	1.315 Head Diameter, OEM # 31431011, 31431991, From S/N UA391045DSL; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type, OEM # 230001
Stem Seal	Both	122-1212	Positive Type, Viton Material, Ring & Band Style, Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type, Teflon Material, All Teflon Style, From S/N C10001
Guide	Both	140-1956	0.3150 I.D., 2.438 Length, 0.5025 O.D., OEM # 33261723
Spring	Both	160-1542	1.345 Length, OEM # 780007; NOTE: Inner Spring For Dual Spring Setup
		160-1543	1.836 Length, OEM # 780006; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

9 152 C.I., (2.5L), G3.152, 6 Valve, Gas
L3 152 CID

G3.152
BORE - 91.478mm/3.6015"

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter, OEM # 31431741; NOTE: 45 Degree Valve

(Cont'd) PERKINS / HEAVY DUTY**152 C.I., (2.5L), G3.152, 6 Valve, Gas**
L3 152 CID**G3.152 9**
BORE - 91.478mm/3.6015" (cont.)

PART		PART NO.	NOTES
Valve	Int	13103	1.535 Head Diameter,OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter,Stellite Face,OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001
Guide	Both	140-3099	0.3148 I.D.,2.127 Length,0.5025 O.D.,OEM # 3313E001
Spring	Both	160-1542	1.345 Length,OEM # 780007; NOTE: Inner Spring For Dual Spring Setup
		160-1543	1.836 Length,OEM # 780006; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

152 C.I., (2.5L), T3.152, 6 Valve, Turbo, Diesel
L3 152 CID**T3.152 10**
BORE - 91.478mm/3.6015"

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter,OEM # 31431741; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter,OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter,Stellite Face,OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001
Guide	Int	140-3100	0.3148 I.D.,2.227 Length,0.5025 O.D.,OEM # 33261727
	Exh	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723
Spring	Both	160-1542	1.345 Length,OEM # 780007; NOTE: Inner Spring For Dual Spring Setup
		160-1543	1.836 Length,OEM # 780006; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

152 C.I., (2.5L), 3.152.4, 6 Valve, Diesel
L3 152 CID**3.152.4 11**
BORE - 91.478mm/3.6015"

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter,Intake; OEM # 31431741; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter,OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter,Stellite Face,OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001
Guide	Int	140-3100	0.3148 I.D.,2.227 Length,0.5025 O.D.,OEM # 33261727
	Exh	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723
Spring	Both	160-1542	1.345 Length,OEM # 780007; NOTE: Inner Spring For Dual Spring Setup
		160-1543	1.836 Length,OEM # 780006; NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup

PERKINS / HEAVY DUTY (Cont'd)

12 159 C.I., (2.6L), 704.26, 8 Valve, Diesel "700 Series"

704.26

L4 159 CID

BORE - 91.0125mm/3.583"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-2	1.782 O.D., 1.535T I.D., 0.2450 Depth, OEM # 3314A041
	Exh	SB1518E-1	1.518 O.D., 1.245T I.D., 0.2450 Depth, OEM # 3314A031
Valve	Int	13141	1.735 Head Diameter, OEM # 3142H011
	Exh	13142	1.465 Head Diameter, OEM # 3142A101
Keeper	Both	121-1093	3 RD Bead Type, OEM # 3142W003
Stem Seal	Both	122-1475	Positive Type, Viton Material, All Rubber Style, OEM # 2418M508
Guide	Both	140-3105	0.2752 I.D., 1.790 Length, 0.4740 O.D., OEM # 3318A702
Spring	Both	160-1502	1.500 Length, OEM # 3174P408

13 183 C.I., (3.0L), 704.30T, 8 Valve, Turbo, Diesel "700 Series"

704.30T

L4 183 CID

BORE - 97.0mm/3.820"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-2	1.782 O.D., 1.535T I.D., 0.2450 Depth, OEM # 3314A041
	Exh	SB1518E-1	1.518 O.D., 1.245T I.D., 0.2450 Depth, OEM # 3314A031
Valve	Int	13143	1.735 Head Diameter, OEM # 3142H051
	Exh	13142	1.465 Head Diameter, OEM # 3142A101
Keeper	Both	121-1093	3 RD Bead Type, OEM # 3142W003
Stem Seal	Both	122-1475	Positive Type, Viton Material, All Rubber Style, OEM # 2418M508
Guide	Both	140-3105	0.2752 I.D., 1.790 Length, 0.4740 O.D., OEM # 3318A702
Spring	Both	160-1502	1.500 Length, OEM # 3174P408

14 183 C.I., (3.0L), 704.30, 8 Valve, Diesel, "700 Series"

704.30

L4 183 CID

BORE - 97.0mm/3.820"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1782E-2	1.782 O.D., 1.535T I.D., 0.2450 Depth, OEM # 3314A041
	Exh	SB1518E-1	1.518 O.D., 1.245T I.D., 0.2450 Depth, OEM # 3314A031
Valve	Int	13141	1.735 Head Diameter, OEM # 3142H011
	Exh	13142	1.465 Head Diameter, OEM # 3142A101
Keeper	Both	121-1093	3 RD Bead Type, OEM # 3142W003
Stem Seal	Both	122-1475	Positive Type, Viton Material, All Rubber Style, OEM # 2418M508
Guide	Both	140-3105	0.2752 I.D., 1.790 Length, 0.4740 O.D., OEM # 3318A702
Spring	Both	160-1502	1.500 Length, OEM # 3174P408

15 201 C.I., (3.3L), 1103-33T, 1103-33TA, Turbo, Diesel "1100 Series"

1103-33T

L3 201 CID

BORE - 105mm/4.133"

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter, OEM # 3142H071
	Exh	13138	1.634 Head Diameter, OEM # 3142A151
Keeper	Both	121-1118	1 RD Bead Type, OEM # 3142W004
Guide	Both	140-3059	0.3555 I.D., 2.018 Length, 0.5135 O.D., OEM # 3313A012
Spring	Both	160-1569	1.729 Length, Conical, OEM # 3174A016; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

16 201 C.I., (3.3L), 1103A, 1103B, 1103C, Naturally Aspirated, Diesel "1100 Series"

1103A-33

L3 201 CID

BORE - 105mm/4.133"

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter, OEM # 3142H071

(Cont'd) PERKINS / HEAVY DUTY**201 C.I., (3.3L), 1103A,1103B,1103C, Naturally Aspirated, Diesel "1100 Series"****16**

1103A-33 (cont.)

L3 201 CID

BORE - 105mm/4.133"

PART		PART NO.	NOTES
Valve	Exh	13138	1.634 Head Diameter,OEM # 3142A151
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
Spring	Both	160-1569	1.729 Length,Conical,OEM # 3174A016; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

203 C.I., (3.3L), 4.203, D4.203, 8 Valve, Direct Injected, Diesel**4.203 17**

L4 203 CID

BORE - 91.44mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 ⁵ / ₈ O.D.,1 ³ / ₈ I.D., ⁷ / ₃₂ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1880E-1	1.880 O.D.,1 ¹³ / ₃₂ I.D., ⁷ / ₃₂ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 ⁷ / ₁₆ O.D.,1 ³ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-1	1.681 O.D.,1-13/64 I.D., ⁵ / ₁₆ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter,OEM # 31431281 & 31431261; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter,OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431591, 910002, To S/N 2820092; NOTE: 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991, To S/N U589379L; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM # 2230001
Stem Seal	Both	122-1212	Positive Type,Viton Material,Ring & Band Style,Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type,Teflon Material,All Teflon Style,From S/N C10001
Guide	Int	140-3100	0.3148 I.D.,2.227 Length,0.5025 O.D.,OEM # 33261727
	Exh	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723
Spring	Both	160-1542	1.345 Length,Inner, OEM # 780007
		160-1543	1.836 Length,Outer, OEM # 780006

203 C.I., (3.3L), 4.203.2, 8 Valve, Diesel**4.203.2 18**

L4 203 CID

BORE - 91.44mm/3.60"

PART		PART NO.	NOTES
Valve	Int	13101	1.534 Head Diameter,OEM # 31431741; NOTE: 45 Degree Valve
		13103	1.535 Head Diameter,OEM # 31431681, 31431981; NOTE: 35 Degree Valve
	Exh	00873	1.315 Head Diameter,OEM # 31431591, 910002, 737640M1; NOTE: 4.499 Length, 45 Degree Valve
		13102S	1.318 Head Diameter,Stellite Face,OEM # 31431731; NOTE: 4.665 Length, 45 Degree Valve
		13112	1.315 Head Diameter,OEM # 31431011, 31431991; NOTE: 35 Degree Valve
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001
Guide	Int	140-3100	0.3148 I.D.,2.227 Length,0.5025 O.D.,OEM # 33261727
	Exh	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723
Spring	Both	160-1542	1.345 Length,Inner, OEM # 780007

PERKINS / HEAVY DUTY (Cont'd)

18 203 C.I., (3.3L), 4.203.2, 8 Valve, Diesel 4.203.2
 (cont.) L4 203 CID BORE - 91.44mm/3.60"

PART	PART NO.	NOTES
Spring	Both 160-1543	1.836 Length,Outer, OEM # 780006

19 212 C.I., (3.5L), 4.212, 8 Valve, Diesel D4.212
 L4 212 CID BORE - 98.425mm/3.875"

PART	PART NO.	NOTES
Valve	Int 00883 Exh 00882A	1.744 Head Diameter,OEM # 31431641 1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both 121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both 122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int 140-3063 Exh 140-3064	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002 0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM# 3343J002
Spring	Both 160-1291 160-1301	2.578 Length,Outer, OEM # 31745121 2.000 Length,Inner, OEM # 31744131
Lifter	Both VL549	Mechanical Type,OEM # 31434163

20 236 C.I., (3.9L), 4.236, 8 Valve, Diesel 4.236
 L4 236 CID BORE - 98.50mm/3.8780"

PART	PART NO.	NOTES
Valve	Int 00883 01783 Exh 00882A	1.744 Head Diameter,OEM # 31431641 1.741 Head Diameter,OEM # 31431315 1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both 121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both 122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int 140-3063 Exh 140-3064	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002 0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both 160-1291 160-1301	2.578 Length,Outer, OEM # 31745121 2.000 Length,Inner, OEM # 31744131
Lifter	Both VL549	Mechanical Type,OEM # 31434163

21 236 C.I., (3.9L), G4.236, 8 Valve, Gas G4.236
 L4 236 CID BORE - 98.425mm/3.875"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1875-19 SB2020E-1 Exh SB1562-6N SB1681E-3 SB1690E-1	1 ⁷ / ₈ O.D.,1 ⁹ / ₁₆ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat 2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat 1 ⁹ / ₁₆ O.D.,1 ¹ / ₄ I.D., ⁷ / ₃₂ Depth,Universal Size Seat For Heads W/O Factory Installed Seat 1.681 O.D.,1.251 I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat 1.690 O.D.,1.251 I.D., ³ / ₈ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int 01783 Exh 01798	1.741 Head Diameter,OEM # 31431871 1.441 Head Diameter,OEM # 31431701
Keeper	Both 121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both 122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int 140-3063 Exh 140-3064	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002 0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both 160-1291 160-1301	2.578 Length,NOTE: For Single Spring Setup, Also Outer Spring For Dual Spring Setup 2.000 Length,Inner, OEM # 31744131

(Cont'd) PERKINS / HEAVY DUTY**236 C.I., (3.9L), G4.236, 8 Valve, Gas**
L4 236 CID**G4.236 21**
BORE - 98.425mm/3.875" (cont.)

PART		PART NO.	NOTES
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

236 C.I., (3.9L), C4.236, 8 Valve, Diesel
L4 236 CID**C4.236 22**
BORE - 98.476mm.3.9770"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

236 C.I., (3.9L), T4.236, 8 Valve, Turbo, Diesel
L4 236 CID**T4.236 23**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315; NOTE: 45 Degree Valve
		13135	1.740 Head Diameter,OEM # 3142H002; NOTE: 30 Degree Valve
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

236 C.I., (3.9L), A4.236, 8 Valve, Diesel
L4 236 CID**A4.236 24**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	17/8 O.D.,19/16 I.D.,7/32 Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	19/16 O.D.,1 1/4 I.D.,7/32 Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251 I.D.,3/8 Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251 I.D.,3/8 Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00883	1.744 Head Diameter,OEM # 31431641
		01887	1.772 Head Diameter,OEM # 3142L071
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 31431881
		01784	1.473 Head Diameter,OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1015	Positive Type,Tef/Rub Material,1-Ring Style,Machine Guide To 0.562 O.D.
		122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-1976	0.3755 I.D.,2.281 Length,0.6265 O.D.,OEM # 33261732
	Exh	140-1977	0.3755 I.D.,2.406 Length,0.6265 O.D.,OEM # 33261752

PERKINS / HEAVY DUTY (Cont'd)

24 236 C.I., (3.9L), A4.236, 8 Valve, Diesel A4.236
 (cont.) L4 236 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Spring	Both	160-1291	2.578 Length, Single Spring To S/N 236UA-19816, Outer From S/N 236UA-19817
		160-1301	2.000 Length, Inner, From S/N 236UA-19817

25 243 C.I., (4.0L), 4.401/T4.401, 8 Valve, Turbo & Naturally Aspirated, Diesel 1004.40/40T
 L4 243 CID BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve	Int	05001	1.693 Head Diameter, OEM # 3142D041, 45 Degree
		13136	1.693 Head Diameter, OEM # 3142L081, 30 Degree
	Exh	05002S	1.620 Head Diameter, Stellite Face, OEM # 3142D031, 45 Degree
		13219	1.616 Head Diameter, OEM # 3142D051, 30 Degree
Keeper	Both	121-1118	1 RD Bead Type, OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type, Viton Material, All Rubber Style, OEM # 2418M506, 2418M507
	Exh	122-1397	Positive Type, Viton Material, All Rubber Style, OEM # 2418M505
Guide	Int	140-3059	0.3555 I.D., 2.018 Length, 0.5135 O.D., OEM # 3313A012
	Exh	140-3060	0.3547 I.D., 2.018 Length, 0.5527 O.D., OEM # 3318A705
Spring	Both	160-1498	1.847 Length, OEM # 3174P409
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

26 243 C.I., (4.0L), 1004.40, 8 Valve, Diesel 1004.40
 L4 243 CID BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter, OEM # 3142L051
	Exh	01784	1.473 Head Diameter, OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Stem Seal	Both	122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM # 3343F002 & 3343F041
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM # 3343J002 & 3343J021, W/ Counterbore
Spring	Both	160-1496	1.672 Length, Inner, OEM # 31744133
		160-1497	1.809 Length, Outer, OEM # 31745122
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

27 243 C.I., (4.0L), 1004.40T, 8 Valve, Turbo, Diesel 1004.40T
 L4 243 CID BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter, OEM # 3142L071, 45 Degree, NOTE: To ESN U608300W (1992)
		05000	1.772 Head Diameter, OEM # 3142L072, 30 Degree, NOTE: From ESN U608301W (1992)
	Exh	01784	1.473 Head Diameter, OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Stem Seal	Both	122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM # 3343F002 & 3343F041
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM # 3343J002 & 3343J021, W/ Counterbore
Spring	Both	160-1496	1.672 Length, Inner, OEM # 31744133
		160-1497	1.809 Length, Outer, OEM # 31745122
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

(Cont'd) PERKINS / HEAVY DUTY**248 C.I., (4.2L), 4.248, 8 Valve, Diesel**
L4 248 CID4.248 **28**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D., 1.589 I.D., 0.2825 Depth, OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D., 1.251 I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D., 1.251 I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00883	1.744 Head Diameter, OEM # 31431641
		01783	1.741 Head Diameter, OEM # 31431315
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Stem Seal	Both	122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM # 3343F002
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM # 3343J002
Spring	Both	160-1291	2.578 Length, Outer, OEM # 31745121
		160-1301	2.000 Length, Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

248 C.I., (4.2L), 4.248.2 , 8 Valve, Diesel
L4 248 CID4.248.2 **29**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter, OEM # 31431315
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 31431881
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Stem Seal	Both	122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM # 3343F002
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM # 3343J002
Spring	Both	160-1291	2.578 Length, Outer, OEM # 31745121
		160-1301	2.000 Length, Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

258 C.I., (4.2L), 1004.42/4.421, 8 Valve, Naturally Aspirated, Diesel
L4 258 CID1004.42 **30**
BORE - 103mm/4.0551"

PART		PART NO.	NOTES
Valve	Int	05003	1.772 Head Diameter, OEM # 3142H041
	Exh	05004	1.654 Head Diameter, OEM # 3142D061
Keeper	Both	121-1118	1 RD Bead Type, OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type, Viton Material, All Rubber Style, OEM # 2418M506, 2418M507
	Exh	122-1397	Positive Type, Viton Material, All Rubber Style, OEM # 2418M505
Guide	Int	140-3059	0.3555 I.D., 2.018 Length, 0.5135 O.D., OEM # 3313A012
	Exh	140-3060	0.3547 I.D., 2.018 Length, 0.5527 O.D., OEM # 3318A705
Spring	Both	160-1499	1.674 Length, OEM # 3174P412
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

PERKINS / HEAVY DUTY (Cont'd)

31 268 C.I., (4.4L), 1104C-44, 1104C-E44, Electronic Naturally Aspirated, Diesel "1100C Series"

L4 268 CID

1104C-E44
BORE - 105mm/4.133"

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter,OEM # 3142H071
	Exh	13138	1.634 Head Diameter,OEM # 3142A151
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1434	Positive Type,Viton Material,Top Hat Style,OEM # 2418M519; NOTE: Green
	Exh	122-1435	Positive Type,Viton Material,Top Hat Style,OEM # 2418M517; NOTE: Brown
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
Spring	Both	160-1569	1.729 Length,Conical,OEM # 3174A016; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

32 268 C.I., (4.4L), 1104C-44T, 1104C-E44T, Turbo, Diesel "1100C Series"

L4 268 CID

1104C-E44T
BORE - 105mm/4.133"

PART		PART NO.	NOTES
Valve	Int	13137	1.823 Head Diameter,OEM # 3142H071
	Exh	13138	1.634 Head Diameter,OEM # 3142A151
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1434	Positive Type,Viton Material,Top Hat Style,OEM # 2418M519; NOTE: Green
	Exh	122-1435	Positive Type,Viton Material,Top Hat Style,OEM # 2418M517; NOTE: Brown
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
Spring	Both	160-1569	1.729 Length,Conical,OEM # 3174A016; NOTE: Alternative Aftermarket Design
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

33 268 C.I., (4.4L), 1104D-44, Naturally Aspirated, Diesel "1100D Series"

L4 268 CID

1104D-44
BORE - 105mm/4.133"

PART		PART NO.	NOTES
Valve	Int	13363	1.831 Head Diameter,OEM # 3142H101
	Exh	13364	1.638 Head Diameter,OEM # 3142A171
Keeper	Both	121-1133	3 RD Bead Type,OEM # 2714A002
Stem Seal	Int	122-1434	Positive Type,Viton Material,Top Hat Style,OEM # 2418M519; NOTE: Green
	Exh	122-1435	Positive Type,Viton Material,Top Hat Style,OEM # 2418M517; NOTE: Brown
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
Spring	Both	160-1645	2.016 Length,OEM # 3174A031, T417479

34 268 C.I., (4.4L), 1104D-44T, 1104D-44TA, Turbo Diesel "1100D Series"

L4 268 CID

1104D-44T
BORE - 105mm/4.133"

PART		PART NO.	NOTES
Valve	Int	13363	1.831 Head Diameter,OEM # 3142H101
	Exh	13364	1.638 Head Diameter,OEM # 3142A171
Keeper	Both	121-1133	3 RD Bead Type,OEM # 2714A002
Stem Seal	Int	122-1434	Positive Type,Viton Material,Top Hat Style,OEM # 2418M519; NOTE: Green
	Exh	122-1435	Positive Type,Viton Material,Top Hat Style,OEM # 2418M517; NOTE: Brown

(Cont'd) PERKINS / HEAVY DUTY

268 C.I., (4.4L), 1104D-44T, 1104D-44TA, Turbo Diesel "1100D Series" 1104D-44T **34**
L4 268 CID BORE - 105mm/4.133" (cont.)

PART		PART NO.	NOTES
Guide	Both	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
Spring	Both	160-1645	2.016 Length,OEM # 3174A031, T417479

305 C.I., (5.0L), 6.305, 12 Valve, Diesel 6.305 **35**
L6 305 CID BORE - 91.44mm/3.60"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-1	1 $\frac{1}{8}$ O.D.,1 $\frac{1}{8}$ I.D., $\frac{7}{32}$ Depth,+5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1880E-1	1.880 O.D.,1 $\frac{13}{32}$ I.D., $\frac{7}{32}$ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1437-3N	1 $\frac{7}{16}$ O.D.,1 $\frac{3}{16}$ I.D., $\frac{7}{32}$ Depth,For Cylinder Head W/O Factory Installed Seat
		SB1681E-1	1.681 O.D.,1-13/64 I.D., $\frac{5}{16}$ Depth,OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00874	1.534 Head Diameter,OEM # 31431281 & 31431261
	Exh	00873	1.315 Head Diameter,OEM # 31431271
Keeper	Both	121-1051	1 RD Bead Type,OEM # 230001
Stem Seal	Both	122-1212	Positive Type,Viton Material,Ring & Band Style,Machine OE Guide To 0.439 O.D. To Accept Seal
		322-1002	Positive Type,Teflon Material,All Teflon Style,From S/N C10001
Guide	Both	140-1956	0.3150 I.D.,2.438 Length,0.5025 O.D.,OEM # 33261723

318 C.I., (5.2L), 4.318, A4.318, 8 Valve, Diesel 4.318 **36**
L4 318 CID BORE - 114.3mm/4.50"

PART		PART NO.	NOTES
Valve	Int	02167	1.845 Head Diameter,OEM # 31431154
	Exh	02166	1.594 Head Diameter,OEM # 31431671
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Guide	Both	140-7450	0.3750 I.D.,2.650 Length,0.6265 O.D.,OEM # 33432532
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131

354 C.I., (5.8L), D6.354, 6.354, 12 Valve, Diesel D6.354 **37**
L6 354 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D.,1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251 I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315
		00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 3143188
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1270	Umbrella Type,Viton Material,Umbrella Style
		122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002

PERKINS / HEAVY DUTY (Cont'd)

37 354 C.I., (5.8L), D6.354, 6.354, 12 Valve, Diesel D6.354
 (cont.) L6 354 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

38 354 C.I., (5.8L), T6.354, 12 Valve, Turbo, Diesel T6.354
 L6 354 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D.,1 $\frac{9}{16}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251 I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251 I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 3143188
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1037	Umbrella Type,Poly Material,Umbrella Style
		122-1270	Umbrella Type,Viton Material,Umbrella Style
		122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

39 354 C.I., (5.8L), A6.354,12 Valve, Diesel A6.354
 L6 354 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D.,1 $\frac{9}{16}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D.,1.589 I.D.,0.2825 Depth,OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D.,1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth,Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D.,1.251 I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D.,1.251 I.D., $\frac{3}{8}$ Depth,NOTE: Stepped I.D.,OEM# 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00883	1.744 Head Diameter,OEM # 31431641
		01887	1.772 Head Diameter,OEM # 3142L071
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 3143188
		01784	1.473 Head Diameter,OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1037	Umbrella Type,Poly Material,Umbrella Style
		122-1270	Umbrella Type,Viton Material,Umbrella Style
		122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002

(Cont'd) PERKINS / HEAVY DUTY**354 C.I., (5.8L), A6.354, 12 Valve, Diesel**
L6 354 CIDA6.354 **39**
BORE - 98.425mm/3.875" (cont.)

PART		PART NO.	NOTES
Spring	Both	160-1291	2.578 Length, Outer, OEM # 31745121
		160-1301	2.000 Length, Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

354 C.I., (5.8L), ATC6.354, 12 Valve, Turbo, Diesel
L6 354 CIDATC6.354 **40**
BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D., 1.589 I.D., 0.2825 Depth, OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D., 1.251 I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM # 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D., 1.251 I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM # 33152154, OEM Replacement For Cylinder Head W/ Factory Installed Seat
Valve	Int	00883	1.744 Head Diameter, OEM # 31431641
		01783	1.741 Head Diameter, OEM # 31431871
		01887	1.772 Head Diameter, OEM # 3142L071
	Exh	00882A	1.440 Head Diameter, OEM # 3142A052, 31431104, 31431109, 3143188
		01784	1.473 Head Diameter, OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Stem Seal	Both	122-1037	Umbrella Type, Poly Material, Umbrella Style
		122-1270	Umbrella Type, Viton Material, Umbrella Style
		122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM # 3343F002
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM # 3343J002
Spring	Both	160-1291	2.578 Length, Outer, OEM # 31745121
		160-1301	2.000 Length, Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type, OEM # 31434163

354 C.I., (5.8L), 6.354.1, 12 Valve, Diesel
L6 354 CID6.354.1 **41**
BORE - 98.476mm/3.877"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1875-19	1 $\frac{7}{8}$ O.D., 1 $\frac{1}{16}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB2020E-1	2.020 O.D., 1.589 I.D., 0.2825 Depth, OEM # 33125121; NOTE: OEM Replacement For Cylinder Head W/ Factory Installed Seat
	Exh	SB1562-6N	1 $\frac{9}{16}$ O.D., 1 $\frac{1}{4}$ I.D., $\frac{7}{32}$ Depth, Universal Size Seat For Heads W/O Factory Installed Seat
		SB1681E-3	1.681 O.D., 1.251 I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM # 33152139, OEM Replacement For Cylinder Head W/ Factory Installed Seat
		SB1690E-1	1.690 O.D., 1.251 I.D., $\frac{3}{8}$ Depth, NOTE: Stepped I.D., OEM # 33152154, OEM Replacement For Cylinder Head W/ Factory Installed
Valve	Int	01783	1.741 Head Diameter, OEM # 31431315
	Exh	13111	1.440 Head Diameter, OEM # 31431931
Keeper	Both	121-1018	1 RD Bead Type, OEM # 33173108
Stem Seal	Both	122-1398	Positive Type, Poly Material, All Rubber Style, OEM # 33817117
Guide	Int	140-3063	0.3740 I.D., 2.281 Length, 0.6264 O.D., OEM # 3343F002
	Exh	140-3064	0.3740 I.D., 2.407 Length, 0.6264 O.D., OEM # 3343J002
Spring	Both	160-1291	2.578 Length, Outer, OEM # 31745121

PERKINS / HEAVY DUTY (Cont'd)

41 354 C.I., (5.8L), 6.354.1, 12 Valve, Diesel 6.354.1
 (cont.) L6 354 CID BORE - 98.476mm/3.877"

PART		PART NO.	NOTES
Spring	Both	160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

42 354 C.I., (5.8L), 6.354.2, 12 Valve, Diesel 6.354.2
 L6 354 CID BORE - 98.476mm/3.877"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315
	Exh	00882A	1.440 Head Diameter,OEM # 3142A052, 31431104, 31431109, 3143188
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

43 354 C.I., (5.8L), T6.354.4, 12 Valve, Turbo, Diesel T6.354.4
 L6 354 CID BORE - 98.425mm/3.875"

PART		PART NO.	NOTES
Valve	Int	01783	1.741 Head Diameter,OEM # 31431315
	Exh	01784	1.473 Head Diameter,OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002
	Exh	140-3064	0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both	160-1291	2.578 Length,Outer, OEM # 31745121
		160-1301	2.000 Length,Inner, OEM # 31744131
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

44 365 C.I., (6.0L), T6.601, 12 Valve, Turbo & Naturally Aspirated, Diesel T6.601
 L6 365 CID BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve	Int	05001	1.693 Head Diameter,OEM # 3142D041, 45 Degree
		13136	1.693 Head Diameter,OEM # 3142L081, 30 Degree
	Exh	05002S	1.620 Head Diameter,Stellite Face,OEM # 3142D031, 45 Degree
		13219	1.616 Head Diameter,OEM # 3142D051, 30 Degree
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 2418M506, 2418M507
	Exh	122-1397	Positive Type,Viton Material,All Rubber Style,OEM # 2418M505
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012
	Exh	140-3060	0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
Spring	Both	160-1498	1.847 Length,OEM # 3174P409

45 365 C.I., (6.0L), 1006.60, 12 Valve, Diesel 1006.60
 L6 365 CID BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM # 3142L051
	Exh	01784	1.473 Head Diameter,OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108

(Cont'd) PERKINS / HEAVY DUTY**365 C.I., (6.0L), 1006.60, 12 Valve, Diesel****1006.60 45**

L6 365 CID

BORE - 100mm/3.937" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002 & 3343F041 0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002 & 3343J021, W/ Counterbore
	Exh	140-3064	
Spring	Both	160-1496	1.672 Length,Inner, OEM # 31744133 1.809 Length,Outer, OEM # 31745122
		160-1497	
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

365 C.I., (6.0L), 1006.60T, 12 Valve, Turbo, Diesel**1006.60T 46**

L6 365 CID

BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve	Int	01887	1.772 Head Diameter,OEM # 3142L071, 45 Degree, NOTE: To ESN 557976X
		05000		1.772 Head Diameter,OEM # 3142L072, 30 Degree, NOTE: From ESN 557977X
	Exh	01784	1.473 Head Diameter,OEM # 3142A051
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002 & 3343F041 0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002 & 3343J021, W/ Counterbore
	Exh	140-3064	
Spring	Both	160-1496	1.672 Length,Inner, OEM # 31744133 1.809 Length,Outer, OEM # 31745122
		160-1497	
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

366 C.I., (6.0L), 1106C-E60TA, 12 Valve, Diesel "1100 Series"**1106C-E60TA 47**

L6 366 CID

BORE - 100mm/3.937"

PART		PART NO.	NOTES
Valve	Int	13136	1.693 Head Diameter,OEM # 3142L081
	Exh	05002S	1.620 Head Diameter,Stellite Face,OEM # 3142D031
Keeper	Both	121-1118	1 RD Bead Type,OEM # 3142W004
Stem Seal	Int	122-1395	Positive Type,Viton Material,All Rubber Style,OEM # 2418M506, 2418M507 Positive Type,Viton Material,All Rubber Style,OEM # 2418M505
	Exh	122-1397	
Guide	Int	140-3059	0.3555 I.D.,2.018 Length,0.5135 O.D.,OEM # 3313A012 0.3547 I.D.,2.018 Length,0.5527 O.D.,OEM # 3318A705
	Exh	140-3060	
Spring	Both	160-1498	1.847 Length,OEM # 3174P409
Lifter	Both	VL549	Mechanical Type,OEM # 31434163

372 C.I., (6.1L), 6.372, 12 Valve, Diesel**6.372 48**

L6 372 CID

BORE - 97.99mm/3.858"

PART		PART NO.	NOTES
Valve	Int	00883	1.744 Head Diameter,OEM # 31431641
	Exh	00882A	1.440 Head Diameter,OEM # 31431891, 3142A052
Keeper	Both	121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both	122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int	140-3063	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002 0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
	Exh	140-3064	
Spring	Both	160-1291	2.578 Length,OEM # 31745121 2.000 Length,OEM # 31744131
		160-1301	

PERKINS / HEAVY DUTY (Cont'd)

48 372 C.I., (6.1L), 6.372, 12 Valve, Diesel 6.372
 (cont.) L6 372 CID BORE - 97.99mm/3.858"

PART	PART NO.	NOTES
Lifter	Both VL549	Mechanical Type,OEM # 31434163

49 372 C.I., (6.1L), 6.372.4, 12 Valve, Diesel 6.372.4
 L6 372 CID BORE - 97.99mm/3.858"

PART	PART NO.	NOTES
Valve	Int 00883 Exh 01784	1.744 Head Diameter,OEM # 31431641 1.473 Head Diameter,OEM # 3142A051
Keeper	Both 121-1018	1 RD Bead Type,OEM # 33173108
Stem Seal	Both 122-1398	Positive Type,Poly Material,All Rubber Style,OEM # 33817117
Guide	Int 140-3063 Exh 140-3064	0.3740 I.D.,2.281 Length,0.6264 O.D.,OEM # 3343F002 0.3740 I.D.,2.407 Length,0.6264 O.D.,OEM # 3343J002
Spring	Both 160-1291 160-1301	2.578 Length,OEM # 31745121 2.000 Length,OEM # 31744131
Lifter	Both VL549	Mechanical Type,OEM # 31434163

SAAB / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1985cc, (2.0L), SOHC, GAS, CARB, Vin B (1974-74)	99	1
1985cc, (2.0L), DOHC, SOHC, GAS, FI, Vin 3, 4, D, J, L, S (1973-90)	900, 9000, 99	2
1985cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin L, "B202L TURBO" (1986-93)	900 Turbo, 9000 Turbo	3
1985cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y, B207L, B207R "Turbo" (2003-11)	9-3 Turbo, 9-3X Turbo	4
1994cc, (2.0L), DOHC, GAS, FI, 16 Valve, "EJ205 Turbo Subaru" (2005-05)	9-2X Turbo	5
2458cc, (2.5L), SOHC, GAS, FI, 16 Valve, EJ253 "Subaru" (2005-06)	9-2X	6
2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, Turbo, EJ255 "Subaru" (2006-06)	9-2X	7
6 Cylinder		
2498cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, B258L "ECOTEC" (1994-97)	900	8
2792cc, (2.8L), DOHC, GAS, FI, 24 Valve, Vin J, R, U, A28NER, B284, B284R "GM LP9" (2006-11)	9-3, 9-5	9
2961cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin W, B308L (1995-97)	9000	10
2961cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin Z, B308E "TURBO" (1999-03)	9-5	11
256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S, "GM VORTEC" (2006-09)	9-7x	12
8 Cylinder		
325 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, Active Fuel Mgmt., "GM LH6 VORTEC" (2006-09)	9-7x	13
364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin H "GM LS2 VORTEC" (2008-09)	9-7x	14

(Cont'd) **SAAB / PASSENGER CAR**

1985cc, (2.0L), SOHC, GAS, CARB, Vin B **SAB2.0SC-CA 1**
1974-74 L4 121 CID **BORE - 90mm/3.54"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1974-74	1¼ O.D., 1.468 I.D., 0.2760 Depth, Aluminum Cylinder Head
	Exh	1974-74	
		SB1750-65	
		SB1500-70	1½ O.D., 1.203 I.D., 0.2830 Depth

1985cc, (2.0L), DOHC, SOHC, GAS, FI, Vin 3, 4, D, J, L, S **SAB2.0SC-FI 2**
1973-90 L4 121 CID **BORE - 90mm/3.54"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1973-90	1¼ O.D., 1.468 I.D., 0.2760 Depth, Aluminum Cylinder Head
	Exh	1973-90	
		SB1750-65	
		SB1500-70	1½ O.D., 1.203 I.D., 0.2830 Depth
Stem Seal	Both	1973-90	Positive Type, Viton Material, Ring & Band Style
		1973-90	Positive Type, Viton Material, Metal Clad Style
		122-1075	
		122-1086	

1985cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin L, "B202L TURBO" **SAB-B202LT 3**
1986-93 L4 121 CID **BORE - 86.5mm/3.41"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-93	1¾ O.D., 1.060T I.D., 0.2800 Depth
	Exh	1986-93	
		SB1375-51	
		SB1312-68	1⅝ O.D., 0.975 I.D., 0.2800 Depth, W/ 1.181 Valve Head Dia.

1985cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Y, B207L, B207R "Turbo" **B207 4**
2003-11 L4 122 CID **BORE - 86mm/3.39"**

PART	YEARS	PART NO.	NOTES	
Valve	Int	2003-04	13331	1.380 Head Diameter
		2005-11	13293	1.382 Head Diameter
	Exh	2003-11	13332SN	1.185 Head Diameter, Stellite Face, Sodium Filled
Keeper	Both	2003-11	121-1098	3 RD Bead Type
Stem Seal	Both	2003-11	122-1355	Positive Type, Viton Material, Top Hat Style
Guide	Both	2003-11	140-3029	0.2365 I.D., 1.420 Length, 0.3950 O.D.
Spring	Both	2003-11	160-1508	1.678 Length
Lifter	Both	2003-09	VL175	Hydraulic Lash Adjuster Type

1994cc, (2.0L), DOHC, GAS, FI, 16 Valve, "EJ205 Turbo Subaru" **SAB-EJ205T 5**
2005-05 H4 122 CID **BORE - 92mm/3.62"**

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-05	1.417 Head Diameter	
	Exh	2005-05		
		13201		
		13203S	1.260 Head Diameter, Stellite Face	
Keeper	Both	2005-05	121-1129	1 RD Bead Type
Stem Seal	Int	2005-05	122-1180	Positive Type, Viton Material, Metal Clad Style
	Exh	2005-05		
		122-1181		
Guide	Int	2005-05	140-3118	0.2360 I.D., 1.556 Length, 0.4360 O.D.
	Exh	2005-05		
		140-3119		
				0.2360 I.D., 1.872 Length, 0.4360 O.D.

2458cc, (2.5L), SOHC, GAS, FI, 16 Valve, EJ253 "Subaru" **SAB-EJ25-SC 6**
2005-06 H4 150 CID **BORE - 99.5mm/3.92"**

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-06	1.417 Head Diameter	
	Exh	2005-06		
		10806		
		10807	1.239 Head Diameter	
Stem Seal	Int	2005-06	122-1180	Positive Type, Viton Material, Metal Clad Style
	Exh	2005-06		
		122-1181		
Guide	Both	2005-06	140-8203	0.2367 I.D., 2.065 Length, 0.4363 O.D.
Spring	Both	2005-06	160-1621	2.137 Length
Head Saver Shim		2005-06	230-2156	New Hgt. 3.839; Min. Hgt. 3.835; NOTE: 2 Required

SAAB / PASSENGER CAR (Cont'd)

7 2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, Turbo, EJ255 "Subaru" SAB-EJ255-DC
2006-06 H4 150 CID BORE - 99.5mm/3.92"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2006-06	13201	1.417 Head Diameter
	Exh	2006-06	13203S	1.260 Head Diameter,Stellite Face
Keeper	Both	2006-06	121-1129	1 RD Bead Type
Stem Seal	Int	2006-06	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	2006-06	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2006-06	140-3118	0.2360 I.D.,1.556 Length,0.4360 O.D.
	Exh	2006-06	140-3119	0.2360 I.D.,1.872 Length,0.4360 O.D.
Head Bolt Set		2006-06	220-1110	Torque To Yield,Services Engine
Head Saver Shim		2006-06	230-2194	New Hgt. - 5.020; Min. Hgt. - 5.008

8 2498cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, B258I "ECOTEC" SAB-B258I
1994-97 V6 152 CID BORE - 81.9mm/3.21"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1994-97	10784	1.260 Head Diameter
	Exh	1994-97	02040S	1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		1994-97	22040S	1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Stem Seal	Both	1994-97	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1994-97	140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	1994-97	140-3011	0.2362 I.D.,1.378 Length,0.3950 O.D.

9 2792cc, (2.8L), DOHC, GAS, FI, 24 Valve, Vin J, R, U, A28NER, B284, B284R "GM LP9" SAB2.8-LP9
2006-11 V6 170 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2006-11	13211	1.384 Head Diameter
	Exh	2006-11	13230	1.142 Head Diameter
Keeper	Both	2006-11	121-1127	1 RD Bead Type
Stem Seal	Both	2006-11	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-11	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2006-11	160-1588	1.729 Length,Conical
Lifter	Both	2006-11	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2006-11	180-1323	Cam Follower

10 2961cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin W, B308I SAB-B308I
1995-97 V6 181 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1995-97	10784	1.260 Head Diameter
	Exh	1995-97	02040S	1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		1995-97	22040S	1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	1995-97	121-1098	3 RD Bead Type
Stem Seal	Both	1995-97	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1995-97	140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	1995-97	140-3011	0.2362 I.D.,1.378 Length,0.3950 O.D.
Head Bolt Set		1995-97	220-1092	Torque To Yield,2 Required
Head Saver Shim		1995-97	230-2173	New Hgt. - 5.272 - 5.280; Min Hgt. - 5.272

(Cont'd) **SAAB / PASSENGER CAR**

2961cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin Z, B308E " TURBO"
1999-03 V6 181 CID

SAB-B308E 11
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1999-03	10784	1.260 Head Diameter
	Exh	1999-03	02040S	1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
		1999-03	22040S	1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	1999-03	121-1098	3 RD Bead Type
Stem Seal	Both	1999-03	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-03	140-3010	0.2362 I.D.,1.773 Length,0.3950 O.D.
	Exh	1999-03	140-3011	0.2362 I.D.,1.378 Length,0.3950 O.D.
Head Bolt Set		1999-03	220-1092	Torque To Yield,2 Required

256 C.I., (4.2L), DOHC, GAS, FI, 24 Valve, Vin S, "GM VORTEC"
2006-09 L6 256 CID

SAB-4.2 12
BORE - 93mm/3.66"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2006-09	13179	1.525 Head Diameter
	Exh	2006-09	13046	1.323 Head Diameter
Keeper	Both	2006-09	121-1098	3 RD Bead Type
Stem Seal	Both	2006-09	122-1394	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-09	140-8556	0.2355 I.D.,1.735 Length,0.4360 O.D.
Spring	Both	2006-09	160-1579	1.760 Length,Conical
Lifter	Both	2006-09	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2006-09	180-1323	Cam Follower
Head Bolt Set		2006-09	220-1101	Torque To Yield,Services Engine

325 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, Active Fuel Mgmt., "GM LH6 VORTEC"

2006-09 V8 325 CID

SAB-5.3 13
BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2006-09	SB2062-50	2 ¹ / ₁₆ O.D.,1.750 I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2006-09	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	2006-07	01934	1.890 Head Diameter
		2008-09	02000	2.000 Head Diameter
	Exh	2006-09	01935	1.551 Head Diameter
Keeper	Both	2006-09	121-1085	1 RD Bead Type
Stem Seal	Int	2006-09	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2006-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2006-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2006-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2006-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2006-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2006-09	160-1488	2.126 Length,Conical
Lifter	Both	2006-09	VL558	AFM Hydraulic Roller Type,W/Spring,Active Fuel Management, OEM# 12639516; 8 Required; NOTE: It Is Recommended To Replace In Sets.

SAAB / PASSENGER CAR (Cont'd)

13 325 C.I., (5.3L), OHV, GAS, FI, 16 Valve, Vin M, Active Fuel Mgmt., "GM LH6
(cont.) VORTEC"

SAB-5.3

2006-09

V8 325 CID

BORE - 96mm/3.78"

PART		YEARS	PART NO.	NOTES
Lifter	Both	2006-09	VL558FG	AFM Lifter Guide-Front Type,OEM # 12571596; AFM Lifter Guide, Front; 2 Req; NOTE: Bolt Not Incl.
		2006-09	VL558RG	AFM Lifter Guide-Rear Type,OEM # 12571608; AFM Lifter Guide, Rear; 2 Req; NOTE: Bolt Not Incl.
		2006-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490; 8 Required
Rocker Components	Both	2006-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2006-09	190-1537	7.397 Length
Head Bolt Set		2006-09	220-1103	Torque To Yield,NOTE: Services Engine

14 364 C.I., (6.0L), OHV, GAS, FI, 16 Valve, Vin H "GM LS2 VORTEC"

SAB-6.0

2008-09

V8 364 CID

BORE - 101.6mm/4"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	2008-09	SB2062-51	2 ¹ / ₁₆ O.D.,1.750T I.D.,0.3900 Depth,Also Available In Non-Magnetic (N) Material
	Exh	2008-09	SB1625-64	1 ⁵ / ₈ O.D.,1.335T I.D.,0.4200 Depth,Also Available In Non-Magnetic (N) Material
Valve	Int	2008-09	02000	2.000 Head Diameter
	Exh	2008-09	01935	1.551 Head Diameter
Keeper	Both	2008-09	121-1085	1 RD Bead Type
Stem Seal	Int	2008-09	122-1337	Positive Type,Viton Material,Top Hat Style
	Exh	2008-09	122-1338	Positive Type,Viton Material,Top Hat Style
Guide	Both	2008-09	140-3053	0.3154 I.D.,2.115 Length,0.5000 O.D.,+2 O/S Available (140-3053+2)
		2008-09	140-3053H	0.3154 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional Hardened Version
		2008-09	140-3053U	0.3054 I.D.,2.115 Length,0.5000 O.D.,NOTE: Optional - 010 Undersized I.D.
		2008-09	340-1046BR	0.3150 I.D.,2.120 Length,0.5010 O.D.,NOTE: Optional Bronze Version
Spring	Both	2008-09	160-1488	2.126 Length,Conical
Lifter	Both	2008-09	VL559	Hydraulic Roller Type,Oil Hole Is Positioned In Line With Roller Pin.,Non-Active Fuel Management; OEM # 17122490
		2008-09	VL559G	Non-AFM Lifter Guide Type,Non- AFM Lifter Guide; OEM # 12595365; 4 Req; NOTE: Bolt Not Incl.
Rocker Components	Both	2008-09	180-1337	Rocker Arm, Roller Pivot Assy.,NOTE: Captive Bearing Design With High Grade Steel Trunion
Push Rod	Both	2008-09	190-1537	7.397 Length
Head Bolt Set		2008-09	220-1103	Torque To Yield,NOTE: Services Engine
Head Saver Shim		2008-09	230-2187	New Hgt. - 4.732; Min. Hgt. - N/A

SCION / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1329cc, (1.3L), DOHC, GAS, FI, 16 Valve, Vin J, 1NRFE (2012-15)	iQ	1
1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, 1NZFE (2004-06)	xA, xB	2

(Cont'd) **SCION / PASSENGER CAR OR TRUCK**

Engine	Models	Line No.		
4 Cylinder				
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin U, 2ZRFE (2008-14)	xD	3		
2362cc, (2.4L), DOHC, GAS, FI, 16 Valve, 2AZFE (2005-15)	tC, xB	4		
2494cc, (2.5L), DOHC, GAS, FI, 16 Valve, 2ARFE (2011-16)	tC	5		
1329cc, (1.3L), DOHC, GAS, FI, 16 Valve, Vin J, 1NRFE		SCI-1NRFE 1		
2012-15	L4 81 CID	BORE - 72.5mm/2.85"		
PART	YEARS	PART NO.	NOTES	
Keeper	Both	2012-15	121-1100	1 RD Bead Type
Stem Seal	Int	2012-15	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2012-15	122-1282	Positive Type,Viton Material,Metal Clad Style
1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, 1NZFE		SCI-1NZFE 2		
2004-06	L4 91 CID	BORE - 75mm/2.95"		
PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-06	02241	1.205 Head Diameter
	Exh	2004-06	02240	1.004 Head Diameter
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin U, 2ZRFE		SCI-2ZRFE 3		
2008-14	L4 110 CID	BORE - 80.5mm/3.17"		
PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-14	13365	1.260 Head Diameter
	Exh	2008-14	13366	1.084 Head Diameter
Keeper	Both	2008-14	121-1100	1 RD Bead Type
Stem Seal	Int	2008-14	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-14	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2008-14	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Both	2008-14	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available
2362cc, (2.4L), DOHC, GAS, FI, 16 Valve, 2AZFE		SCI-2AZFE 4		
2005-15	L4 144 CID	BORE - 88.5mm/3.48"		
PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-15	10798	1.339 Head Diameter
	Exh	2005-15	10799	1.161 Head Diameter
Keeper	Both	2005-15	121-1100	1 RD Bead Type
Stem Seal	Int	2005-15	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2005-15	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2005-15	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.
Head Saver Shim		2005-15	230-2143	New Hgt. - 5.090; Min. Hgt. - N/A
2494cc, (2.5L), DOHC, GAS, FI, 16 Valve, 2ARFE		SCI-2ARFE 5		
2011-16	L4 152 CID	BORE - 90mm/3.54"		
PART	YEARS	PART NO.	NOTES	
Keeper	Both	2011-16	121-1100	1 RD Bead Type
Stem Seal	Int	2011-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2011-16	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2011-16	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2011-16	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

SHIBAURA / HEAVY DUTY

Engine	Models	Line No.
3 Cylinder		
91 C.I., (1.5L), N843-C, 6 Valve, Diesel		1
4 Cylinder		
135 C.I., (2.2L), N844L-C, 8 Valve, Diesel		2
135 C.I., (2.2L), N844LT-C, 8 Valve, Turbo, Diesel		3

1 91 C.I., (1.5L), N843-C, 6 Valve, Diesel **SHB-N843C**
L3 91 CID **BORE - 84.01mm/3.3075"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # SBA110136300
	Exh SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # SBAU10136460
Valve	Int 13326	1.457 Head Diameter,OEM # SBA120166350, SBA120166380; NOTE: Late
	Exh 13327	1.299 Head Diameter,OEM # SBA120176360, SBA120176380; NOTE: Late
Stem Seal	Int 122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406070
	Exh 122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406050
Guide	Both 140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Lifter	Both VL574	Mechanical Type,OEM # SBA120116160

2 135 C.I., (2.2L), N844L-C, 8 Valve, Diesel **SHB-N844L-C**
L4 135 CID **BORE - 84.01mm/3.3075"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # SBA110136300
	Exh SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # SBAU10136460
Valve	Int 13326	1.457 Head Diameter,OEM # SBA120166350, SBA120166380; NOTE: Late
	Exh 13327	1.299 Head Diameter,OEM # SBA120176360, SBA120176380; NOTE: Late
Stem Seal	Int 122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406070
	Exh 122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406050
Guide	Both 140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both 160-1638	1.382 Length,OEM # SBA198216700
Lifter	Both VL574	Mechanical Type,OEM # SBA120116160

3 135 C.I., (2.2L), N844LT-C, 8 Valve, Turbo, Diesel **SHB-N844LT-C**
L4 135 CID **BORE - 84.01mm/3.3075"**

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1558E-1PM	1.558 O.D.,1.320 I.D.,0.2170 Depth,OEM # SBA110136300
	Exh SB1400E-1PM	1.400 O.D.,1.170 I.D.,0.2170 Depth,OEM # SBAU10136460
Valve	Int 13326	1.457 Head Diameter,OEM # SBA120166350, SBA120166380; NOTE: Late
	Exh 13327	1.299 Head Diameter,OEM # SBA120176360, SBA120176380; NOTE: Late
Stem Seal	Int 122-1464	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406070
	Exh 122-1465	Positive Type,Viton Material,Metal Clad Style,OEM # SBA120406050
Guide	Both 140-3202	0.2756 I.D.,1.460 Length,0.5020 O.D.
Spring	Both 160-1638	1.382 Length,OEM # SBA198216700
Lifter	Both VL574	Mechanical Type,OEM # SBA120116160

STUDEBAKER / PASSENGER CAR

Engine	Models	Line No.
6 Cylinder		
170 C.I., (2.8L), L-HEAD, GAS, CARB (1942-60)	Champion, Hawk, Lark, Silver Hawk, Taxi	1

(Cont'd) **STUDEBAKER / PASSENGER CAR**

Engine	Models	Line No.
8 Cylinder		
259 C.I., (4.2L), OHV, GAS, CARB (1955-64)	Challenger, Commander, Cruiser, Daytona, Gran, Hawk, Lark, Police Car, Power Hawk, President, Silver Hawk	2
170 C.I., (2.8L), L-HEAD, GAS, CARB	STU170	1
1942-60 L6 170 CID	BORE - 76.2mm/3.00"	
PART	YEARS	PART NO.
Guide	Both	1942-60
		140-1503
	0.3130 I.D., 2.125 Length, 0.6578 O.D.	
259 C.I., (4.2L), OHV, GAS, CARB		
1955-64 V8 259 CID	STU259	2
	BORE - 90.5mm/3.56"	
PART	YEARS	PART NO.
Guide	Int	1955-64
	Exh	1955-64
		140-1690
		140-1689
	0.3435 I.D., 3.000 Length, 0.5645 O.D.	
	0.3445 I.D., 2.625 Length, 0.5643 O.D.	

SUBARU / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
3 Cylinder		
1189cc, (1.2L), SOHC, GAS, CARB, 9 Valve, Vin 7, 8 "EF12" (1987-91)	Justy	1
1189cc, (1.2L), SOHC, GAS, FI, 9 Valve, Vin 7, 8 "EF12" (1990-94)	Justy	2
4 Cylinder		
1595cc, (1.6L), OHV, GAS, CARB, 8 Valve, Vin 2, 3 "EA71" (1976-87)	Brat, DL, FE, GF, GL, GLF, Standard	3
1781cc, (1.8L), OHV, SOHC, GAS, CARB, 8 Valve, Vin 4, 5, EA81 (1980-87)	Brat, DL, GL, GLF, Standard	4
1781cc, (1.8L), OHV, GAS, FI, 8 Valve, Vin 5 "EA81 TURBO" (1983-84)	Brat Turbo, GL Turbo	5
1781cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin 4, 5, 7 "EA82" (1985-89)	DL, GL, GL-10, XT	6
1781cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin 4, 5, 7 "EA82 TURBO" (1985-90)	GL, GL-10, Loyale, RX, XT	7
1781cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin 4, 5 "EA82S" (1990-94)	Loyale, XT	8
1781cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin 1, 2 "EJ18E" (1993-97)	Impreza	9
1994cc, (2.0L), DOHC, GAS, FI, 16 Valve, EJ205 "Turbo" (2002-05)	Impreza	10
1995cc, (2.0L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, FB20 (2012-17)	Crosstrek, Impreza, XV Crosstrek	11
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, FA20D (2013-17)	BRZ	12
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, FA20F "Turbo" (2014-17)	Forester, WRX	13
2212cc, (2.2L), SOHC, GAS, FI, 16 Valve, Vin 3, 4, 6, EJ222, EJ223, EJ22E, EJ22EZ (1990-01)	Impreza, Legacy	14
2212cc, (2.2L), SOHC, GAS, FI, 16 Valve, Vin 6 "EJ22 TURBO" (1991-94)	Legacy	15
2458cc, (2.5L), SOHC, GAS, FI, 16 Valve, Vin 6, EJ251, EJ252, EJ253, EJ259 (1999-12)	Baja, Forester, Impreza, Legacy, Outback	16

SUBARU / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, Vin 6, EJ25D (1996-99)	Forester, Impreza, Legacy	17
2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, EJ255 (2004-14)	Baja, Forester, Impreza, Legacy, Outback, WRX	18
2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, EJ257 "Turbo" (2004-17)	Impreza, WRX STI	19
2498cc, (2.5L), DOHC, GAS, FI, 16 Valve, FB25 (2013-17)	Legacy, Outback	20
2498cc, (2.5L), DOHC, GAS, FI, 16 Valve, FB25BA (2011-17)	Forester	21
2498cc, (2.5L), DOHC, GAS, FI, 16 Valve, FB25BC (2011-17)	Forester	22
6 Cylinder		
2672cc, (2.7L), SOHC, GAS, FI, 12 Valve, Vin 8, 9 "ER27" (1988-91)	XT	23
3000cc, (3.0L), DOHC, GAS, FI, 24 Valve, EZ30D (2001-09)	B9 Tribeca, Legacy, Outback	24
3318cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 3, 8 "EG33D" (1992-97)	SVX	25
3630cc, (3.6L), DOHC, GAS, FI, 24 Valve, EZ36D (2008-17)	Legacy, Outback, Tribeca	26

1 1189cc, (1.2L), SOHC, GAS, CARB, 9 Valve, Vin 7, 8 "EF12" EF12-CA
1987-91 L3 73 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-91	SB1250-59 1¼ O.D.,0.982 I.D.,0.3290 Depth,Due To Various Factory Seat Depths, This Seat May Need To Be Topped In Order To Accommodate Certain Heads
	Exh	1987-91	
Stem Seal	Both	1987-91	122-1187 Positive Type,Viton Material,Metal Clad Style

2 1189cc, (1.2L), SOHC, GAS, FI, 9 Valve, Vin 7, 8 "EF12" EF12-FI
1990-94 L3 73 CID BORE - 78mm/3.07"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-94	SB1250-59 1¼ O.D.,0.982 I.D.,0.3290 Depth,Due To Various Factory Seat Depths, This Seat May Need To Be Topped In Order To Accommodate Certain Heads
	Exh	1990-94	
Stem Seal	Both	1990-94	122-1187 Positive Type,Viton Material,Metal Clad Style

3 1595cc, (1.6L), OHV, GAS, CARB, 8 Valve, Vin 2, 3 "EA71" EA71
1976-87 H4 97 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1976-87	SB1812-52 1 ¹³ / ₁₆ O.D.,1.440T I.D.,0.3150 Depth
	Exh	1976-87		SB1500-58 1½ O.D.,1.200T I.D.,0.3150 Depth
Guide	Both	1976-87	140-8143 0.3153 I.D.,2.260 Length,0.5145 O.D.

4 1781cc, (1.8L), OHV, SOHC, GAS, CARB, 8 Valve, Vin 4, 5, EA81 EA81
1980-87 H4 109 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1980-87	SB1812-52 1 ¹³ / ₁₆ O.D.,1.440T I.D.,0.3150 Depth
	Exh	1980-87	

(Cont'd) **SUBARU / PASSENGER CAR OR TRUCK**

1781cc, (1.8L), OHV, SOHC, GAS, CARB, 8 Valve, Vin 4, 5, EA81 EA81 **4**
1980-87 H4 109 CID BORE - 92mm/3.62" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Both 1980-87	140-8143	0.3153 I.D.,2.260 Length,0.5145 O.D.

1781cc, (1.8L), OHV, GAS, FI, 8 Valve, Vin 5 "EA81 TURBO" EA81T **5**
1983-84 H4 109 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1983-84 Exh 1983-84	SB1812-52 SB1500-58	1 ¹³ / ₁₆ O.D.,1.440T I.D.,0.3150 Depth 1 ¹ / ₂ O.D.,1.200T I.D.,0.3150 Depth
Guide	Both 1983-84	140-8143	0.3153 I.D.,2.260 Length,0.5145 O.D.

1781cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin 4, 5, 7 "EA82" EA82 **6**
1985-89 H4 109 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1985-89 Exh 1985-89	SB1812-52 SB1500-58	1 ¹³ / ₁₆ O.D.,1.440T I.D.,0.3150 Depth 1 ¹ / ₂ O.D.,1.200T I.D.,0.3150 Depth

1781cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin 4, 5, 7 "EA82 TURBO" EA82T **7**
1985-90 H4 109 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1985-90 Exh 1985-90	SB1812-52 SB1500-58	1 ¹³ / ₁₆ O.D.,1.440T I.D.,0.3150 Depth 1 ¹ / ₂ O.D.,1.200T I.D.,0.3150 Depth
Stem Seal	Exh 1985-90	122-1187	Positive Type,Viton Material,Metal Clad Style

1781cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin 4, 5 "EA82S" EA82S **8**
1990-94 H4 109 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1990-94 Exh 1990-94	SB1812-52 SB1500-58	1 ¹³ / ₁₆ O.D.,1.440T I.D.,0.3150 Depth 1 ¹ / ₂ O.D.,1.200T I.D.,0.3150 Depth
Stem Seal	Exh 1990-94	122-1187	Positive Type,Viton Material,Metal Clad Style

1781cc, (1.8L), SOHC, GAS, FI, 16 Valve, Vin 1, 2 "EJ18E" EJ18E **9**
1993-97 H4 BORE - 87.9mm/3.46"

PART	YEARS	PART NO.	NOTES
Stem Seal	Exh 1993-97	122-1187	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1993-97	140-8203	0.2367 I.D.,2.065 Length,0.4363 O.D.
Lifter	Both 1993-97	VL146	Hydraulic Lash Adjuster Type

1994cc, (2.0L), DOHC, GAS, FI, 16 Valve, EJ205 "Turbo" EJ205 **10**
2002-05 H4 122 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve	Int 2002-05 Exh 2002-05	13201 13203S	1.417 Head Diameter 1.260 Head Diameter,Stellite Face
Keeper	Both 2002-05	121-1129	1 RD Bead Type
Stem Seal	Int 2002-05 Exh 2002-05	122-1180 122-1181	Positive Type,Viton Material,Metal Clad Style Positive Type,Viton Material,Metal Clad Style
Guide	Int 2002-05 Exh 2002-05	140-3118 140-3119	0.2360 I.D.,1.556 Length,0.4360 O.D. 0.2360 I.D.,1.872 Length,0.4360 O.D.

1995cc, (2.0L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, FB20 FB20 **11**
2012-17 H4 122 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2012-15	121-1130	1 RD Bead Type

SUBARU / PASSENGER CAR OR TRUCK (Cont'd)

11 1995cc, (2.0L), DOHC, ELECTRIC/GAS, GAS, FI, 16 Valve, FB20 FB20
 (cont.) 2012-17 H4 122 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Int	2012-15	122-1429	Positive Type,Viton Material,Metal Clad Style
		2012-15	122-1430	Positive Type,Viton Material,Metal Clad Style

12 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin A, FA20D FA20D
 2013-17 H4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2013-15	121-1130	1 RD Bead Type
Stem Seal	Int	2013-15	122-1429	Positive Type,Viton Material,Metal Clad Style
	Exh	2013-15	122-1430	Positive Type,Viton Material,Metal Clad Style

13 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, FA20F "Turbo" FA20F
 2014-17 H4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2014-15	121-1130	1 RD Bead Type
Stem Seal	Int	2014-15	122-1429	Positive Type,Viton Material,Metal Clad Style
	Exh	2014-15	122-1430	Positive Type,Viton Material,Metal Clad Style

14 2212cc, (2.2L), SOHC, GAS, FI, 16 Valve, Vin 3, 4, 6, EJ222, EJ223, EJ22E, EJ22EZ EJ22
 1990-01 H4 135 CID BORE - 96.9mm/3.82"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-98	SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
	Exh	1990-98	SB1250-63	1 $\frac{1}{4}$ O.D.,0.930 I.D.,0.3250 Depth
Valve	Int	1990-98	10299	1.280 Head Diameter
		1999-01	10806	1.417 Head Diameter
	Exh	1990-98	10300	1.102 Head Diameter
		1999-01	10807	1.239 Head Diameter
Keeper	Both	1990-01	121-1129	1 RD Bead Type
Stem Seal	Int	1990-01	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	1990-01	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1990-01	140-8203	0.2367 I.D.,2.065 Length,0.4363 O.D.
Spring	Both	1999-01	160-1621	2.137 Length
Lifter	Both	1990-98	VL146	Hydraulic Lash Adjuster Type
Head Bolt Set		1990-01	220-1047	Torque To Yield,Services Engine

15 2212cc, (2.2L), SOHC, GAS, FI, 16 Valve, Vin 6 "EJ22 TURBO" EJ22T
 1991-94 H4 135 CID BORE - 96.9mm/3.82"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-94	SB1375-55	1 $\frac{3}{8}$ O.D.,1.120 I.D.,0.3250 Depth
	Exh	1991-94	SB1250-63	1 $\frac{1}{4}$ O.D.,0.930 I.D.,0.3250 Depth
Valve	Int	1991-94	10299	1.280 Head Diameter
	Exh	1991-94	10300	1.102 Head Diameter
Keeper	Both	1991-94	121-1129	1 RD Bead Type
Stem Seal	Int	1991-94	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	1991-94	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1991-94	140-8203	0.2367 I.D.,2.065 Length,0.4363 O.D.
Lifter	Both	1991-94	VL146	Hydraulic Lash Adjuster Type
Head Bolt Set		1991-94	220-1047	Torque To Yield,Services Engine

(Cont'd) **SUBARU / PASSENGER CAR OR TRUCK**

2458cc, (2.5L), SOHC, GAS, FI, 16 Valve, Vin 6, EJ251, EJ252, EJ253, EJ259 EJ25-SC 16
1999-12 H4 150 CID BORE - 99.5mm/3.92"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1999-12	10806	1.417 Head Diameter
	Exh	1999-12	10807	1.239 Head Diameter
Keeper	Both	1999-12	121-1129	1 RD Bead Type
Stem Seal	Int	1999-12	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	1999-12	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1999-12	140-8203	0.2367 I.D.,2.065 Length,0.4363 O.D.
Spring	Both	1999-06	160-1621	2.137 Length
		2007-12	160-1622	2.182 Length
Head Saver Shim		1999-09	230-2156	New Hgt. 3.839; Min. Hgt. 3.835; NOTE: 2 Required

2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, Vin 6, EJ25D EJ25D 17
1996-99 H4 150 CID BORE - 99.5mm/3.92"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1997-98	13139S	1.417 Head Diameter,Stellite Face,4.169 Overall Length
		1999-99	10806	1.417 Head Diameter,4.748 Overall Length, 1999 Legacy Only
	Exh	1997-98	13140S	1.260 Head Diameter,Stellite Face,4.181 Overall Length
		1999-99	10807	1.239 Head Diameter,4.791 Overall Length, 1999 Legacy Only
Keeper	Both	1996-99	121-1129	1 RD Bead Type
Stem Seal	Int	1996-99	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	1996-99	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1999-99	140-3118	0.2360 I.D.,1.556 Length,0.4360 O.D.,1999 Legacy Only
	Exh	1999-99	140-3119	0.2360 I.D.,1.872 Length,0.4360 O.D.,1999 Legacy Only
	Both	1997-98	140-8203	0.2367 I.D.,2.065 Length,0.4363 O.D.
Spring	Both	1999-99	160-1621	2.137 Length
Head Bolt Set		1996-99	220-1110	Torque To Yield,Services Engine
Head Saver Shim		1997-99	230-2156	New Hgt. 5.0197 - 5.020; Min. Hgt. 5.008; NOTE: 2 Required

2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, EJ255 EJ255 18
2004-14 H4 150 CID BORE - 99.5mm/3.92"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-14	13201	1.417 Head Diameter
	Exh	2004-14	13203S	1.260 Head Diameter,Stellite Face
Keeper	Both	2004-14	121-1129	1 RD Bead Type
Stem Seal	Int	2004-14	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	2004-14	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-14	140-3118	0.2360 I.D.,1.556 Length,0.4360 O.D.
	Exh	2004-14	140-3119	0.2360 I.D.,1.872 Length,0.4360 O.D.
Head Bolt Set		2004-12	220-1110	Torque To Yield,Services Engine
Head Saver Shim		2006-13	230-2194	New Hgt. - 5.020; Min. Hgt. - 5.008

2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, EJ257 "Turbo" EJ257 19
2004-17 H4 150 CID BORE - 99.5mm/3.92"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-15	13201	1.417 Head Diameter
	Exh	2004-15	13203S	1.260 Head Diameter,Stellite Face
Keeper	Both	2004-15	121-1129	1 RD Bead Type
Stem Seal	Int	2004-15	122-1180	Positive Type,Viton Material,Metal Clad Style
	Exh	2004-15	122-1181	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-15	140-3118	0.2360 I.D.,1.556 Length,0.4360 O.D.

SUBARU / PASSENGER CAR OR TRUCK (Cont'd)

19 2458cc, (2.5L), DOHC, GAS, FI, 16 Valve, EJ257 "Turbo" EJ257
 (cont.) 2004-17 H4 150 CID BORE - 99.5mm/3.92"

PART	YEARS	PART NO.	NOTES
Guide	Exh 2004-15	140-3119	0.2360 I.D., 1.872 Length, 0.4360 O.D.
Head Saver Shim	2006-15	230-2194	New Hgt. - 5.020; Min. Hgt. - 5.008

20 2498cc, (2.5L), DOHC, GAS, FI, 16 Valve, FB25 FB25
 2013-17 H4 152 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2013-15	121-1130	1 RD Bead Type
Stem Seal	Int 2013-15	122-1429	Positive Type, Viton Material, Metal Clad Style
	Exh 2013-15	122-1430	Positive Type, Viton Material, Metal Clad Style

21 2498cc, (2.5L), DOHC, GAS, FI, 16 Valve, FB25BA FB25BA
 2011-17 H4 152 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2011-15	121-1130	1 RD Bead Type
Stem Seal	Int 2011-15	122-1429	Positive Type, Viton Material, Metal Clad Style
	Exh 2011-15	122-1430	Positive Type, Viton Material, Metal Clad Style

22 2498cc, (2.5L), DOHC, GAS, FI, 16 Valve, FB25BC FB25BC
 2011-17 H4 152 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Keeper	Both 2011-15	121-1130	1 RD Bead Type
Stem Seal	Int 2011-15	122-1429	Positive Type, Viton Material, Metal Clad Style
	Exh 2011-15	122-1430	Positive Type, Viton Material, Metal Clad Style

23 2672cc, (2.7L), SOHC, GAS, FI, 12 Valve, Vin 8, 9 "ER27" ER27
 1988-91 H6 163 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1988-91	SB1812-52	1 ¹³ / ₁₆ O.D., 1.440T I.D., 0.3150 Depth
	Exh 1988-91	SB1500-58	1 ¹ / ₂ O.D., 1.200T I.D., 0.3150 Depth
Stem Seal	Both 1988-91	122-1187	Positive Type, Viton Material, Metal Clad Style

24 3000cc, (3.0L), DOHC, GAS, FI, 24 Valve, EZ30D EZ30D
 2001-09 H6 183 CID BORE - 89.2mm/3.51"

PART	YEARS	PART NO.	NOTES
Valve	Int 2001-04	13257	1.378 Head Diameter
	2005-09	13259	1.378 Head Diameter
	Exh 2001-04	13258	1.201 Head Diameter
	2005-09	13260	1.201 Head Diameter
Keeper	Both 2001-09	121-1130	1 RD Bead Type
Stem Seal	Int 2005-09	122-1429	Positive Type, Viton Material, Metal Clad Style
	Exh 2005-09	122-1430	Positive Type, Viton Material, Metal Clad Style
	Both 2001-04	122-1428	Positive Type, Viton Material, Metal Clad Style

25 3318cc, (3.3L), DOHC, GAS, FI, 24 Valve, Vin 3, 8 "EG33D" EG33D
 1992-97 H6 202 CID BORE - 96.9mm/3.82"

PART	YEARS	PART NO.	NOTES
Stem Seal	Int 1992-97	122-1180	Positive Type, Viton Material, Metal Clad Style
	Exh 1992-97	122-1181	Positive Type, Viton Material, Metal Clad Style
Guide	Int 1992-97	140-8564	0.2365 I.D., 1.280 Length, 0.4365 O.D.
	Exh 1992-97	140-8565	0.2365 I.D., 1.595 Length, 0.4365 O.D.

(Cont'd) **SUBARU / PASSENGER CAR OR TRUCK**

3630cc, (3.6L), DOHC, GAS, FI, 24 Valve, EZ36D
2008-17 H6 221 CID

EZ36D 26
BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-15	13261	1.417 Head Diameter
	Exh	2008-15	13262	1.260 Head Diameter
Keeper	Both	2008-15	121-1130	1 RD Bead Type
Stem Seal	Int	2008-15	122-1429	Positive Type,Viton Material,Metal Clad Style
	Exh	2008-15	122-1430	Positive Type,Viton Material,Metal Clad Style

SUPERIOR / HEAVY DUTY

Engine	Models	Line No.
8 Cylinder		
6597 C.I., (108.1L), G825 Natural Gas, Naturally Aspirated		1
6597 C.I., (108.1L), G825 Natural Gas, Naturally Aspirated		G825 1
L8 6597 CID		BORE - 254.0mm/10.0"

PART	PART NO.	NOTES	
Guide	Both	140-6479	0.8745 I.D.,6.125 Length,1.3763 O.D.,1.3763 O.D.
		140-6929	0.8745 I.D.,6.125 Length,1.3778 O.D.,Same as 140-6479, but with +.0015 O.D.

SUZUKI / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1298cc, (1.3L), DOHC, GAS, FI, 16 Valve "G13K" (1989-94)	Swift	1
1298cc, (1.3L), SOHC, GAS, FI, 8 Valve, "G13BA" (1990-95)	Samurai, Swift	2
1298cc, (1.3L), SOHC, GAS, FI, 16 Valve " G13BB " (1998-01)	Swift	3
1325cc, (1.3L), SOHC, GAS, CARB, 8 Valve "G13A" (1986-89)	Samurai, Sidekick	4
1298cc, (1.3L), SOHC, GAS, FI, 8 Valve, "G13A" (1989-97)	Samurai, Swift	5
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, Vin 0, 1, 3, "G16KV" (1992-98)	Esteem, Sidekick, X-90	6
1590cc, (1.6L), SOHC, GAS, FI, 8 Valve, "G16KC" (1989-95)	Sidekick	7
1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, "G16" (1995-02)	Esteem, Sidekick, Vitara, X-90	8
1840cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 2, 4 "J18A" (1996-02)	Esteem, Sidekick	9
1995cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 5, J20B (2007-13)	SX4, SX4 Crossover	10
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Z "E-TEC II" (2004-08)	Forenza, Reno	11
2000cc, (2.0L), DOHC, GAS, FI, 16 Valve "J20A" (1999-03)	Aerio, Vitara	12
2290cc, (2.3L), DOHC, GAS, FI, 16 Valve "J23A" (2004-07)	Aerio	13
2393cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 0, 9, J24B (2009-13)	Grand Vitara, Kizashi	14
2500cc, (2.5L), DOHC, GAS, FI, 16 Valve, "Nissan QR25DE" (2009-12)	Equator	16
6 Cylinder		
2500cc, (2.5L), DOHC, GAS, FI, 24 Valve "H25A" (2001-05)	Grand Vitara, Vitara	15
2737cc, (2.7L), DOHC, GAS, FI, 24 Valve "H27A" (2001-08)	Grand Vitara, XL-7	17

SUZUKI / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
6 Cylinder		
3195cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 1, N32A (2009-10)	Grand Vitara	18
3564cc, (3.6L), DOHC, GAS, FI, 24 Valve, N36A (2007-09)	XL-7	19
3954cc, (4.0L), DOHC, GAS, FI, 24 Valve, "Nissan VQ40DE" (2009-12)	Equator	20

1 1298cc, (1.3L), DOHC, GAS, FI, 16 Valve "G13K" G13K
1989-94 L4 79 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1989-94	SB1187-52	1 ³ / ₁₆ O.D., 0.934T I.D., 0.2570 Depth
Stem Seal	Both 1989-94	122-1155	Positive Type, Viton Material, Metal Clad Style
Guide	Both 1989-94	140-8144	0.2170 I.D., 1.690 Length, 0.4365 O.D.
Lifter	Both 1989-94	VL120	Hydraulic Bucket Type
Head Saver Shim	1989-94	230-2031	Min. Hgt.- 5.1750

2 1298cc, (1.3L), SOHC, GAS, FI, 8 Valve, "G13BA" G13BA
1990-95 L4 79 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1990-95	SB1562-77	1 ¹ / ₁₆ O.D., 1.170 I.D., 0.2670 Depth
	Exh 1990-95	SB1375-64	1 ³ / ₈ O.D., 1.000 I.D., 0.2800 Depth
Valve	Int 1990-95	10103	1.417 Head Diameter
	Exh 1990-95	10302	1.181 Head Diameter
Keeper	Both 1990-95	121-1061	1 RD Bead Type, W/ .273 Stem Dia.
Stem Seal	Both 1990-95	122-1142	Positive Type, Viton Material, Metal Clad Style
Guide	Both 1990-95	140-8016	0.2757 I.D., 1.895 Length, 0.4758 O.D.
Spring	Both 1990-95	160-1318	1.958 Length

3 1298cc, (1.3L), SOHC, GAS, FI, 16 Valve " G13BB " G13BB
1998-01 L4 79 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve	Int 1998-01	10516	1.149 Head Diameter
	Exh 1998-01	10517	0.986 Head Diameter
Keeper	Both 1998-01	121-1060	1 RD Bead Type
Stem Seal	Both 1998-01	122-1155	Positive Type, Viton Material, Metal Clad Style
Guide	Both 1998-01	140-8324	0.2163 I.D., 1.260 Length, 0.4365 O.D.

4 1325cc, (1.3L), SOHC, GAS, CARB, 8 Valve "G13A" G13A-CA
1986-89 L4 81 CID BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1986-89	SB1562-77	1 ¹ / ₁₆ O.D., 1.170 I.D., 0.2670 Depth
	Exh 1986-89	SB1375-64	1 ³ / ₈ O.D., 1.000 I.D., 0.2800 Depth
Valve	Int 1986-89	10103	1.417 Head Diameter
	Exh 1986-89	10302	1.181 Head Diameter
Keeper	Both 1986-89	121-1061	1 RD Bead Type, W/ .273 Stem Dia.
Stem Seal	Both 1986-89	122-1142	Positive Type, Viton Material, Metal Clad Style
Guide	Both 1986-89	140-8016	0.2757 I.D., 1.895 Length, 0.4758 O.D.
Spring	Both 1989-89	160-1318	1.958 Length
Head Saver Shim	1986-89	230-2031	New Hgt.- 3.7500 - 3.7550; Min. Hgt.- 3.7400

(Cont'd) **SUZUKI / PASSENGER CAR OR TRUCK**

1298cc, (1.3L), SOHC, GAS, FI, 8 Valve, "G13A"
1989-97 L4 79 CID

G13A-FI 5
BORE - 74mm/2.91"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-97	SB1562-77	1 $\frac{1}{16}$ O.D.,1.170 I.D.,0.2670 Depth
	Exh	1989-97	SB1375-64	1 $\frac{3}{8}$ O.D.,1.000 I.D.,0.2800 Depth
Valve	Int	1989-97	10103	1.417 Head Diameter
	Exh	1989-97	10302	1.181 Head Diameter
Keeper	Both	1989-97	121-1061	1 RD Bead Type,W/ .273 Stem Dia.
Stem Seal	Both	1989-97	122-1142	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1989-97	140-8016	0.2757 I.D.,1.895 Length,0.4758 O.D.
Spring	Both	1989-97	160-1318	1.958 Length
Head Saver Shim		1989-97	230-2031	New Hgt.- 3.7500 - 3.7550; Min. Hgt.- 3.7400

1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, Vin 0, 1, 3, "G16KV"
1992-98 L4 97 CID

G16KV 6
BORE - 75.2mm/2.96"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1992-98	SB1250-54	1 $\frac{1}{4}$ O.D.,1.010T I.D.,0.2570 Depth
	Exh	1992-98	SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1992-98	10516	1.149 Head Diameter
	Exh	1992-98	10517	0.986 Head Diameter
Keeper	Both	1992-98	121-1060	1 RD Bead Type
Stem Seal	Both	1992-98	122-1155	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1992-98	140-8324	0.2163 I.D.,1.260 Length,0.4365 O.D.
Head Saver Shim		1992-98	230-2032	New Hgt.- 4.7250; Min. Hgt.- 4.7150

1590cc, (1.6L), SOHC, GAS, FI, 8 Valve, "G16KC"
1989-95 L4 97 CID

G16KC 7
BORE - 75.2mm/2.96"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1989-95	SB1500-79	1 $\frac{1}{2}$ O.D.,1.295 I.D.,0.2620 Depth
	Exh	1989-95	SB1375-56	1 $\frac{3}{8}$ O.D.,1.102 I.D.,0.2600 Depth
Valve	Int	1989-95	10172	1.441 Head Diameter
	Exh	1989-95	10173S	1.278 Head Diameter,Stellite Face,Optional
Keeper	Both	1989-95	121-1061	1 RD Bead Type,W/ .273 Stem Dia.
Stem Seal	Both	1989-95	122-1142	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1989-95	140-8016	0.2757 I.D.,1.895 Length,0.4758 O.D.
Spring	Both	1989-95	160-1318	1.958 Length
Head Saver Shim		1989-95	230-2032	New Hgt.- 3.7500; Min. Hgt.- 3.7400

1590cc, (1.6L), SOHC, GAS, FI, 16 Valve, "G16"
1995-02 L4 97 CID

SUZ-G16 8
BORE - 75.2mm/2.96"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-02	SB1250-54	1 $\frac{1}{4}$ O.D.,1.010T I.D.,0.2570 Depth
	Exh	1995-02	SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1995-02	10516	1.149 Head Diameter
	Exh	1995-02	10517	0.986 Head Diameter
Keeper	Both	1995-02	121-1060	1 RD Bead Type
Stem Seal	Both	1995-02	122-1155	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1995-02	140-8324	0.2163 I.D.,1.260 Length,0.4365 O.D.

SUZUKI / PASSENGER CAR OR TRUCK (Cont'd)

9 1840cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin 2, 4 "J18A" J18A
 1996-02 L4 112 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1996-02	10786	1.297 Head Diameter
	Exh	1996-02	10787S	1.102 Head Diameter,Stellite Face
Keeper	Both	1996-02	121-1099	1 RD Bead Type
Stem Seal	Both	1996-02	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1996-02	140-3127	0.2365 I.D., 1.380 Length,0.4367 O.D.,W/ Counterbore
Spring	Both	1996-02	160-1593	1.420 Length,NOTE: Inner For OEM Assembly # 12920-62G00
		1996-02	160-1594	1.592 Length,NOTE: Outer For OEM Assembly # 12920-62G00
Lifter	Both	1996-02	VL120	Hydraulic Bucket Type
Head Saver Shim		1996-01	230-2159	New Hgt. 4.805; Min. Hgt. N/A

10 1995cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin 5, J20B J20B
 2007-13 L4 122 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-09	13197	1.299 Head Diameter
	Exh	2007-09	13198	1.102 Head Diameter
Keeper	Both	2007-09	121-1099	1 RD Bead Type,W/6mm Stem
		2010-13	121-1060	1 RD Bead Type,W/5.5mm Stem
Stem Seal	Both	2007-09	122-1246	Positive Type,Viton Material,Metal Clad Style,W/6mm Stem
		2010-13	122-1155	Positive Type,Viton Material,Metal Clad Style,W/5.5mm Stem
Head Saver Shim		2007-09	230-2159	New Hgt. N/A; Min. Hgt. N/A

11 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin Z "E-TEC II" SUZ2.0-ETEC
 2004-08 L4 122 CID BORE - 86.4mm/3.40"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-08	10784	1.260 Head Diameter
		2004-08	02040S	1.142 Head Diameter,Recommended OEM Nickel Base Inconel Material, Stellite Face
	Exh	2004-08	22040S	1.142 Head Diameter,Alternative Austenitic Material, Stellite Face
Keeper	Both	2004-08	121-1098	3 RD Bead Type
Stem Seal	Both	2004-08	122-1329	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2004-08	140-3010	0.2362 I.D., 1.773 Length,0.3950 O.D.
	Exh	2004-08	140-3011	0.2362 I.D., 1.378 Length,0.3950 O.D.
Spring	Both	2004-08	160-1578	1.666 Length
Head Bolt Set		2004-08	220-1124	Torque To Yield,Services Engine
Head Saver Shim		2004-08	230-2151	New Hgt. 5.2746-5.2766; Min. Hgt. 5.2716

12 2000cc, (2.0L), DOHC, GAS, FI, 16 Valve "J20A" J20A
 1999-03 L4 122 CID BORE - 84.1mm/3.31"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1999-03	10786	1.297 Head Diameter
	Exh	1999-03	10787S	1.102 Head Diameter,Stellite Face
Keeper	Both	1999-03	121-1099	1 RD Bead Type
Stem Seal	Both	1999-03	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1999-03	140-3127	0.2365 I.D., 1.380 Length,0.4367 O.D.,W/ Counterbore
Spring	Both	1999-03	160-1593	1.420 Length,NOTE: Inner For OEM Assembly # 12920-62G00
		1999-03	160-1594	1.592 Length,NOTE: Outer For OEM Assembly # 12920-62G00

(Cont'd) **SUZUKI / PASSENGER CAR OR TRUCK**

2000cc, (2.0L), DOHC, GAS, FI, 16 Valve "J20A" J20A **12**
1999-03 L4 122 CID BORE - 84.1mm/3.31" (cont.)

PART	YEARS	PART NO.	NOTES
Lifter	Both 1999-03	VL120	Hydraulic Bucket Type
Head Saver Shim	1999-03	230-2159	New Hgt. 4.798-4.800; Min. Hgt. N/A

2290cc, (2.3L), DOHC, GAS, FI, 16 Valve "J23A" J23A **13**
2004-07 L4 140 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Valve	Int 2004-07 Exh 2004-07	13276 13277	1.375 Head Diameter 1.181 Head Diameter
Keeper	Both 2004-07	121-1099	1 RD Bead Type
Stem Seal	Both 2004-07	122-1246	Positive Type,Viton Material,Metal Clad Style
Lifter	Both 2004-07	VL120	Hydraulic Bucket Type

2393cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin 0, 9, J24B J24B **14**
2009-13 L4 146 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve	Int 2009-13 Exh 2009-13	13215 13216	1.398 Head Diameter 1.200 Head Diameter
Keeper	Both 2009-13	121-1060	1 RD Bead Type
Stem Seal	Both 2009-13	122-1155	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2009-13	140-3128	0.2165 I.D.,1.580 Length,0.4170 O.D.,W/ Counterbore

2500cc, (2.5L), DOHC, GAS, FI, 24 Valve "H25A" H25A **15**
2001-05 V6 153 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve	Int 2001-05 Exh 2001-05	10786 10787S	1.297 Head Diameter 1.102 Head Diameter,Stellite Face
Keeper	Both 2001-05	121-1099	1 RD Bead Type
Stem Seal	Both 2001-05	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Both 2001-05	140-3127	0.2365 I.D.,1.380 Length,0.4367 O.D.,W/ Counterbore
Spring	Both 2001-05 2001-05	160-1593 160-1594	1.420 Length,NOTE: Inner For OEM Assembly # 12920-62G00 1.592 Length,NOTE: Outer For OEM Assembly # 12920-62G00
Lifter	Both 2001-05	VL120	Hydraulic Bucket Type

2500cc, (2.5L), DOHC, GAS, FI, 16 Valve, "Nissan QR25DE" SUZ-QR25DE **16**
2009-12 L4 153 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int 2009-12 Exh 2009-12	13077 13078	1.405 Head Diameter 1.206 Head Diameter
Keeper	Both 2009-12	121-1064	1 RD Bead Type
Stem Seal	Both 2009-12	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2009-12 Exh 2009-12	140-8216 140-8217	0.2365 I.D.,1.690 Length,0.3955 O.D.,Tapered Port End 0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End
Spring	Int 2009-12 Exh 2009-12	160-1590 160-1591	1.694 Length 1.754 Length
Head Saver Shim	2009-12	230-2139	New Hgt. - 5.095 - 5.100; Min. Hgt. - 5.085

SUZUKI / PASSENGER CAR OR TRUCK (Cont'd)

17 2737cc, (2.7L), DOHC, GAS, FI, 24 Valve "H27A"
2001-08 V6 167 CID

H27A
BORE - 89mm/3.46"

PART		YEARS	PART NO.	NOTES
Valve	Int	2001-05	10786	1.297 Head Diameter,NOTE: W/ 3.394 Length
		2006-08	13197	1.299 Head Diameter,NOTE: W/ 3.685 Length
	Exh	2001-05	10787S	1.102 Head Diameter,Stellite Face,NOTE: W/ 3.379 Length
		2006-08	13198	1.102 Head Diameter,NOTE: W/ 3.673 Length
Keeper	Both	2001-08	121-1099	1 RD Bead Type
Stem Seal	Both	2001-08	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-08	140-3127	0.2365 I.D.,1.380 Length,0.4367 O.D.,W/ Counterbore
Spring	Both	1999-06	160-1593	1.420 Length,NOTE: Inner For OEM Assembly # 12920-62G00
		1999-06	160-1594	1.592 Length,NOTE: Outer For OEM Assembly # 12920-62G00
Lifter	Both	2001-05	VL120	Hydraulic Bucket Type

18 3195cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 1, N32A
2009-10 V6 195 CID

N32A
BORE - 89mm/3.46"

PART		YEARS	PART NO.	NOTES
Valve	Int	2009-10	13204	1.386 Head Diameter
	Exh	2009-10	13205	1.205 Head Diameter
Keeper	Both	2009-10	121-1127	1 RD Bead Type
Stem Seal	Both	2009-10	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2009-10	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2009-10	160-1588	1.729 Length,Conical
Lifter	Both	2009-10	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2009-10	180-1323	Cam Follower

19 3564cc, (3.6L), DOHC, GAS, FI, 24 Valve, N36A
2007-09 V6 220 CID

N36A
BORE - 94mm/3.70"

PART		YEARS	PART NO.	NOTES
Valve	Int	2007-09	13210	1.457 Head Diameter
	Exh	2007-09	13205	1.205 Head Diameter
Keeper	Both	2007-09	121-1127	1 RD Bead Type
Stem Seal	Both	2007-09	122-1418	Positive Type,Viton Material,Top Hat Style
Guide	Both	2007-09	140-3112	0.2365 I.D.,1.655 Length,0.4358 O.D.
Spring	Both	2007-09	160-1588	1.729 Length,Conical
Lifter	Both	2007-09	VL175	Hydraulic Lash Adjuster Type
Rocker Components	Both	2007-09	180-1323	Cam Follower

20 3954cc, (4.0L), DOHC, GAS, FI, 24 Valve, "Nissan VQ40DE"
2009-12 V6 241 CID

SUZ-VQ40DE
BORE - 95.5mm/3.76"

PART		YEARS	PART NO.	NOTES
Valve	Int	2009-12	13237	1.463 Head Diameter,3.798 O/A Length
	Exh	2009-12	13238	1.234 Head Diameter,3.700 O/A Length
Keeper	Both	2009-12	121-1064	1 RD Bead Type
Stem Seal	Both	2009-12	122-1150	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2009-12	140-8216	0.2365 I.D.,1.690 Length,0.3955 O.D.,Tapered Port End
	Exh	2009-12	140-8217	0.2365 I.D.,1.690 Length,0.3953 O.D.,Plain Port End

THERMO KING / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
121 C.I., (2.0L), OHV, DIESEL, FI, 8 Valve, "C201 Isuzu" . . . Industrial		1
2,098cc, (2.1L), TK486 Thermo King, "Yanmar", 8 Valve, 4 Stroke, Water Cooled, Diesel		2
2,098cc, (2.1L), TK486V Thermo King, "Yanmar", 8 Valve, 4 Stroke, Water Cooled, Diesel		3

121 C.I., (2.0L), OHV, DIESEL, FI, 8 Valve, "C201 Isuzu" C201 **1**
L4 121 CID BORE - 83mm/3.27"

PART	PART NO.	NOTES
Valve	Int 10214	1.496 Head Diameter, OEM # 112727
	Exh 10215S	1.260 Head Diameter, Stellite Face, OEM # 112719

2,098cc, (2.1L), TK486 Thermo King, "Yanmar", 8 Valve, 4 Stroke, Water Cooled, Diesel **2**
L4 126 CID TK486 BORE - 86mm/3.38"

PART	PART NO.	NOTES
Valve	Int 13415	1.378 Head Diameter, OEM # 129100-11100
	Exh 13416	1.181 Head Diameter, OEM # 129100-11130
Keeper	Both 121-1138	1 SQ Bead Type, OEM # 27310-080001
Stem Seal	Int 122-1483	Positive Type, Viton Material, Metal Clad Style, OEM # 124460-11340
	Exh 122-1484	Positive Type, Viton Material, Metal Clad Style, OEM # 121400-11340
Guide	Int 140-3190	0.3158 I.D., 1.930 Length, 0.5128 O.D., OEM # 120130-11860
	Exh 140-3191	0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # 129150-11810
Spring	Both 160-1665	1.760 Length, OEM # 129795-11120

2,098cc, (2.1L), TK486V Thermo King, "Yanmar", 8 Valve, 4 Stroke, Water Cooled, Diesel **3**
L4 126 CID TK486V BORE - 83mm/3.38"

PART	PART NO.	NOTES
Valve	Int 13414	1.417 Head Diameter, OEM # 129004-11130
	Exh 13416	1.181 Head Diameter, OEM # 129100-11130
Keeper	Both 121-1138	1 SQ Bead Type, OEM # 27310-080001
Stem Seal	Int 122-1483	Positive Type, Viton Material, Metal Clad Style, OEM # 124460-11340
	Exh 122-1484	Positive Type, Viton Material, Metal Clad Style, OEM # 121400-11340
Guide	Int 140-3190	0.3158 I.D., 1.930 Length, 0.5128 O.D., OEM # 120130-11860
	Exh 140-3191	0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # 129150-11810
Spring	Both 160-1665	1.760 Length, OEM # 129795-11120

TOYOTA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1166cc, (1.2L), OHV, GAS, CARB, Vin K, "3KC" (1969-79) . .	Corolla	1
1290cc, (1.3L), OHV, GAS, CARB, 8 Valve, Vin K, "4KC" (1981-82)	Starlet	2
1290cc, (1.3L), OHV, GAS, FI, 8 Valve, Vin K, "4KE" (1983-84)	Starlet	3
1452cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin A, "1AC" (1980-80)	Tercel	4
1452cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin A, "3AC" (1981-88)	Tercel	5

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1452cc, (1.5L), SOHC, GAS, CARB, Vin A, "3A" (1984-86)	Tercel	6
1456cc, (1.5L), SOHC, GAS, CARB, 12 Valve, Vin E, "3E" (1987-90)	Tercel	7
1456cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin E, "3EE" (1990-94)	Tercel	8
1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, Vin C, E, "5EFE" (1992-99)	Paseo, Tercel	9
1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, 1NZFE (2000-17)	Echo, Yaris	10
1497cc, (1.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 1NZFXE (2001-16)	Prius, Prius C	11
1587cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin A, "4AC" (1983-87)	Corolla	12
1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, "4AGEC" (1986-87)	Corolla	13
1587cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin A, "4ALC" (1986-88)	Corolla	14
1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, "4AGELC" (1987-89)	Corolla, MR2	15
1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, "4AGZE Supercharged" (1988-89)	MR2 Supercharged	16
1587cc, (1.6L), DOHC, GAS, CARB, 16 Valve, Vin A, "4AF" (1988-89)	Corolla	17
1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, "4AGE" (1988-91)	Corolla	18
1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4AFE (1988-97)	Celica, Corolla	19
1588cc, (1.6L), OHV, GAS, CARB, 8 Valve, Vin T, 2TC (1971-79)	Carina, Corolla	20
1762cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin A, B, "7AFE" (1993-97)	Celica, Corolla	21
1770cc, (1.8L), OHV, GAS, CARB, 8 Valve, Vin T, "3TC" (1980-82)	Corolla	22
1794cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin R, 1ZZFE (1998-08)	Celica, Corolla, Matrix, MR2 Spyder	23
1795cc, (1.8L), DOHC, GAS, FI, 16 Valve, 2ZZGE (2000-06)	Celica GT-S, Corolla, Matrix	24
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin K, L, U, 2ZRFE (2009-17)	Corolla, Matrix	25
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin P, 2ZRFAE (2014-17)	Corolla, Corolla iM	26
1798cc, (1.8L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 2ZRFXE (2010-17)	Prius, Prius Plug-In, Prius Prime, Prius V	27
1839cc, (1.8L), SOHC, DIESEL, FI, 8 Valve, Vin C, "1CTLC TURBO" (1984-85)	Camry Turbo Diesel	28
1968cc, (2.0L), SOHC, GAS, CARB, Vin R, "18RC" (1972-74)	Celica, Corona, Hi-Lux, Mark II, Pickup	29
1995cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin S, "2SELC" (1983-86)	Camry, Celica	30
1998cc, (2.0L), OHV, GAS, FI, 8 Valve, Vin Y, "3YEC" (1984-85)	Van	31
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin S, "3SGELC" (1986-89)	Celica	32

(Cont'd) TOYOTA / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin S, "3SFE" (1987-91)	Camry, Celica	33
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin S, "3SGTE Turbo" (1988-95)	Celica, MR2	34
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin P, "3SFE TRUCK" (1996-00)	RAV4	35
1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, "1AZFE" (2001-03)	RAV4	36
2164cc, (2.2L), DOHC, GAS, FI, 16 Valve, Vin G, S, "5SFE" (1990-01)	Camry, Celica, MR2, Solara	37
2188cc, (2.2L), SOHC, DIESEL, FI, 8 Valve, Vin L (1981-83)	Pickup Diesel	38
2189cc, (2.2L), SOHC, GAS, CARB, 8 Valve, Vin R, "20R" (1975-80)	Celica, Corona, Pickup	39
2237cc, (2.2L), OHV, GAS, FI, 8 Valve, Vin Y, "4YEC" (1986-89)	Van	40
2366cc, (2.4L), SOHC, GAS, CARB, 8 Valve, Vin R, "22R" (1981-90)	4Runner, Celica, Corona, Pickup	42
2366cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin R, "22REC" (1986-89)	4Runner, Pickup	43
2366cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin R, "22RTEC TURBO" (1986-88)	4Runner Turbo, Pickup Turbo	44
2366cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin R, 22RE (1989-95)	4Runner, Pickup	45
2362cc, (2.4L), DOHC, GAS, FI, 16 Valve, 2AZFE (2001-13)	Camry, Corolla, Highlander, Matrix, RAV4, Solara	46
2362cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin B, "2AZFXE" (2007-11)	Camry	47
2438cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin A, "2TZFE" (1991-95)	Previa	48
2438cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin A, K, "2TZFZE Supercharged" (1994-97)	Previa	49
2438cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin L, U, 2RZFE (1995-04)	Tacoma	50
2446cc, (2.4L), SOHC, DIESEL, FI, 8 Valve, Vin H, L, " 2L " (1984-87)	Land Cruiser, Pickup	51
2494cc, (2.5L), DOHC, GAS, FI, 16 Valve, 2ARFE (2009-17)	Camry, RAV4	52
2494cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin D, 2ARFXE (2012-17)	Avalon, Camry, RAV4	53
2672cc, (2.7L), DOHC, GAS, FI, 16 Valve, 1ARFE (2009-17)	Highlander, Sienna, Venza	57
2694cc, (2.7L), DOHC, GAS, FI, 16 Valve, Vin M, U, 3RZFE (1994-04)	4Runner, T100, Tacoma	58
2694cc, (2.7L), DOHC, GAS, FI, 16 Valve, 2TRFE (2005-17)	4Runner, Tacoma	59
6 Cylinder		
2253cc, (2.3L), SOHC, GAS, CARB, "2M" (1968-72)	Corona, Crown, Mark II	41
2508cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, "2VZFE" (1988-91)	Camry	54
2563cc, (2.6L), SOHC, GAS, CARB, Vin M, "4M" (1971-79)	Corona, Cressida, Crown, Mark II	55
2563cc, (2.6L), SOHC, GAS, FI, 12 Valve, Vin M, "4ME" (1979-80)	Celica, Cressida	56
2754cc, (2.8L), DOHC, GAS, FI, 12 Valve, Vin M, "5MGE" (1982-88)	Celica, Cressida	60

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
6 Cylinder		
2759cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin M, "5ME" (1981-82)	Celica, Cressida	61
2954cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin M, 7MGE (1986-92)	Cressida, Supra	62
2954cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin M, "7MGTE TURBO" (1987-92)	Supra Twin Turbo	63
2959cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin V, "3VZFE" (1992-93)	Camry	64
2959cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin V, 3VZE (1988-95)	4Runner, Pickup, T100	65
2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin F, G, 1MZFE (1994-06)	Avalon, Camry, Highlander, Sienna, Solara	66
2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin D, J, "2JZGE" (1994-98)	Supra	67
2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin E, J, "2JZGTE TURBO" (1994-98)	Supra Turbo	68
3300cc, (3.3L), DOHC, ELECTRIC/GAS, GAS, FI, 24 Valve, 3MZFE (2004-10)	Camry, Highlander, Sienna, Solara	69
3378cc, (3.4L), DOHC, GAS, FI, 24 Valve, Vin N, V, 5VZFE (1995-04)	4Runner, T100, Tacoma, Tundra	70
3456cc, (3.5L), DOHC, GAS, FI, 24 Valve, 2GRFE (2005-17)	Avalon, Camry, Highlander, RAV4, Sienna, Venza	71
3456cc, (3.5L), DOHC, GAS, FI, 24 Valve, 2GRFKS (2016-17)	Highlander, Sienna, Tacoma	72
3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 2GRFXE (2011-16)	Highlander	73
3878cc, (3.9L), OHV, GAS, CARB, 12 Valve, "F / FJ" (1960-74)	Land Cruiser	74
3956cc, (4.0L), OHV, GAS, FI, 12 Valve, Vin F, "3FE" (1988-92)	Land Cruiser	75
3956cc, (4.0L), DOHC, GAS, FI, 24 Valve, 1GRFE (2003-16)	4Runner, FJ Cruiser, Tacoma, Tundra	76
4227cc, (4.2L), OHV, GAS, CARB, 12 Valve, Vin F, "2F" (1975-87)	Land Cruiser	77
4477cc, (4.5L), DOHC, GAS, FI, 24 Valve, Vin D, J, 1FZFE (1993-97)	Land Cruiser	78
8 Cylinder		
4608cc, (4.6L), DOHC, GAS, FI, 32 Valve, 1URFE (2010-17)	Sequoia, Tundra	79
4663cc, (4.7L), DOHC, GAS, FI, 32 Valve, Vin T, 2UZFE (1998-09)	4Runner, Land Cruiser, Sequoia, Tundra	80
5663cc, (5.7L), DOHC, GAS, FI, 32 Valve, 3URFE (2007-17)	Land Cruiser, Sequoia, Tundra	81
5663cc, (5.7L), DOHC, FLEX, FI, 32 Valve, 3URFBE (2009-17)	Sequoia, Tundra	82

1 1166cc, (1.2L), OHV, GAS, CARB, Vin K, "3KC" **3KC**
1969-79 **L4 71 CID** **BORE - 75mm/2.95"**

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1969-79	1½ O.D., 1.275T I.D., 0.2500 Depth
	Exh	1969-79	
Valve	Int	11/74-79	1.417 Head Diameter
	Exh	11/74-79	
Keeper	Both	11/74-79	1 SQ Bead Type

(Cont'd) **TOYOTA / PASSENGER CAR OR TRUCK**

1166cc, (1.2L), OHV, GAS, CARB, Vin K, "3KC" **3KC 1**
1969-79 L4 71 CID BORE - 75mm/2.95" (cont.)

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1975-79	122-1127	Positive Type,Viton Material,Metal Clad Style

1290cc, (1.3L), OHV, GAS, CARB, 8 Valve, Vin K, "4KC" **4KC 2**
1981-82 L4 79 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1981-82 1981-82	SB1500-56 SB1250-50	1½ O.D.,1.275T I.D.,0.2500 Depth 1¼ O.D.,0.965T I.D.,¼ Depth
Valve	Int Exh	1981-82 1981-82	10307 10308	1.417 Head Diameter 1.142 Head Diameter
Keeper	Both	1981-82	121-1023	1 SQ Bead Type
Stem Seal	Both	1981-82	122-1127	Positive Type,Viton Material,Metal Clad Style

1290cc, (1.3L), OHV, GAS, FI, 8 Valve, Vin K, "4KE" **4KE 3**
1983-84 L4 79 CID BORE - 75mm/2.95"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1983-84 1983-84	SB1500-56 SB1250-50	1½ O.D.,1.275T I.D.,0.2500 Depth 1¼ O.D.,0.965T I.D.,¼ Depth
Valve	Int Exh	1983-84 1983-84	10307 10308	1.417 Head Diameter 1.142 Head Diameter
Keeper	Both	1983-84	121-1023	1 SQ Bead Type
Stem Seal	Both	1983-84	122-1088	Positive Type,Viton Material,Metal Clad Style
Spring	Both	1983-84	160-1239	2.300 Length

1452cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin A, "1AC" **1AC 4**
1980-80 L4 89 CID BORE - 77.5mm/3.05"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1980-80 1980-80	SB1500-71 SB1312-59	1½ O.D.,1.240 I.D.,0.3170 Depth 1⅝ O.D.,1.044 I.D.,0.2730 Depth
Valve	Int Exh	1980-80 1980-80	10107 10106	1.417 Head Diameter 1.220 Head Diameter
Guide	Int Exh	1980-80 1980-80	140-8020 140-8021	0.2757 I.D.,1.690 Length,0.4550 O.D.,W/ Snap Ring 0.2757 I.D.,1.930 Length,0.4550 O.D.,W/ Snap Ring
Spring	Both	1980-80	160-1055	1.760 Length

1452cc, (1.5L), SOHC, GAS, CARB, 8 Valve, Vin A, "3AC" **3AC 5**
1981-88 L4 89 CID BORE - 77.5mm/3.05"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1981-88 1981-88	SB1500-71 SB1312-59	1½ O.D.,1.240 I.D.,0.3170 Depth 1⅝ O.D.,1.044 I.D.,0.2730 Depth
Valve	Int Exh	1981-88 1981-88	10107 10106	1.417 Head Diameter 1.220 Head Diameter
Guide	Int Exh	1981-88 1981-88	140-8020 140-8021	0.2757 I.D.,1.690 Length,0.4550 O.D.,W/ Snap Ring 0.2757 I.D.,1.930 Length,0.4550 O.D.,W/ Snap Ring
Spring	Both	1981-88	160-1055	1.760 Length

1452cc, (1.5L), SOHC, GAS, CARB, Vin A, "3A " **3A 6**
1984-86 L4 89 CID BORE - 77.5mm/3.05"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1984-86 1984-86	SB1500-71 SB1312-59	1½ O.D.,1.240 I.D.,0.3170 Depth 1⅝ O.D.,1.044 I.D.,0.2730 Depth

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6 1452cc, (1.5L), SOHC, GAS, CARB, Vin A, "3A" 3A
 (cont.) 1984-86 L4 89 CID BORE - 77.5mm/3.05"

PART		YEARS	PART NO.	NOTES
Valve	Int	1984-86	10107	1.417 Head Diameter
	Exh	1984-86	10106	1.220 Head Diameter
Guide	Int	1984-86	140-8020	0.2757 I.D., 1.690 Length, 0.4550 O.D., W/ Snap Ring
	Exh	1984-86	140-8021	0.2757 I.D., 1.930 Length, 0.4550 O.D., W/ Snap Ring
Spring	Both	1984-86	160-1055	1.760 Length

7 1456cc, (1.5L), SOHC, GAS, CARB, 12 Valve, Vin E, "3E" 3E
 1987-90 L4 89 CID BORE - 73mm/2.87"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-90	SB1250-53	1¼ O.D., 1.024 I.D., 0.2570 Depth, Outer (Front)
Valve	Int	1987-90	10309	0.945 Head Diameter, Inner (Rear)
		1987-90	10310	1.181 Head Diameter, Outer (Front)
	Exh	1987-90	10311	1.220 Head Diameter
Keeper	Both	1987-90	121-1058	1 RD Bead Type
Stem Seal	Both	1987-90	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1987-90	140-8195	0.2371 I.D., 1.600 Length, 0.4355 O.D.
Head Saver Shim		1987-90	230-2069	New Hgt. - 5.0120 - 5.0150; Min. Hgt. - 5.0000

8 1456cc, (1.5L), SOHC, GAS, FI, 12 Valve, Vin E, "3EE" 3EE
 1990-94 L4 89 CID BORE - 73mm/2.87"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-94	SB1062-50	1⅙ O.D., 0.790 I.D., 0.2540 Depth, Inner (Rear)
		1990-94	SB1250-53	1¼ O.D., 1.024 I.D., 0.2570 Depth, Outer (Front)
	Exh	1990-94	SB1312-68	1⅝ O.D., 0.975 I.D., 0.2800 Depth
Valve	Int	1990-94	10309	0.945 Head Diameter, Inner (Rear)
		1990-94	10310	1.181 Head Diameter, Outer (Front)
	Exh	1990-94	10311	1.220 Head Diameter
Keeper	Both	1990-94	121-1058	1 RD Bead Type
Stem Seal	Both	1990-94	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1990-94	140-8195	0.2371 I.D., 1.600 Length, 0.4355 O.D.
Head Bolt Set		1990-94	220-1059	Torque To Yield, Services Engine
Head Saver Shim		1990-94	230-2069	New Hgt. - 5.0020 - 5.0050; Min. Hgt. - 4.9900

9 1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, Vin C, E, "5EFE" 5EFE
 1992-99 L4 91 CID BORE - 74mm/2.91"

PART		YEARS	PART NO.	NOTES
Valve	Int	1992-99	10137	1.122 Head Diameter
	Exh	1992-99	10138	0.965 Head Diameter
Keeper	Both	1992-99	121-1058	1 RD Bead Type
Stem Seal	Both	1992-99	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1992-99	140-8147	0.2370 I.D., 1.520 Length, 0.4360 O.D.
	Exh	1992-99	140-8195	0.2371 I.D., 1.600 Length, 0.4355 O.D.
Lifter	Both	1992-99	VL119	Mechanical Bucket Type
Head Bolt Set		1992-99	220-1050	Torque To Yield, Services Engine
Head Saver Shim		1992-99	230-2107	New Hgt. - 4.22 (Intake Side)

(Cont'd) TOYOTA / PASSENGER CAR OR TRUCK

1497cc, (1.5L), DOHC, GAS, FI, 16 Valve, 1NZFE **TOY-1NZFE 10**
 2000-17 L4 91 CID BORE - 75mm/2.95"

PART		YEARS	PART NO.	NOTES
Valve	Int	2000-16	02241	1.205 Head Diameter
	Exh	2000-16	02240	1.004 Head Diameter

1497cc, (1.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 1NZFXE **TOY-1NZFXE 11**
 2001-16 L4 91 CID BORE - 75mm/2.95"

PART		YEARS	PART NO.	NOTES
Valve	Int	2001-16	02241	1.205 Head Diameter
	Exh	2001-16	02240	1.004 Head Diameter

1587cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin A, "4AC" **4AC 12**
 1983-87 L4 97 CID BORE - 81mm/3.18"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-87	SB1500-71	1½ O.D., 1.240 I.D., 0.3170 Depth
	Exh	1983-87	SB1312-59	1⅝ O.D., 1.044 I.D., 0.2730 Depth
Valve	Int	1983-87	10107	1.417 Head Diameter
	Exh	1983-87	10106	1.220 Head Diameter
Guide	Int	1983-87	140-8020	0.2757 I.D., 1.690 Length, 0.4550 O.D., W/ Snap Ring
	Exh	1983-87	140-8021	0.2757 I.D., 1.930 Length, 0.4550 O.D., W/ Snap Ring
Spring	Both	1983-87	160-1055	1.760 Length
Head Saver Shim		1983-87	230-2018	New Hgt. - 3.4000 - 3.4100; Min. Hgt. - 3.3850

1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, "4AGEC" **4AGEC 13**
 1986-87 L4 97 CID BORE - 81mm/3.18"

PART		YEARS	PART NO.	NOTES
Valve	Int	1986-87	10176	1.201 Head Diameter
	Exh	1986-87	10177	1.004 Head Diameter
Keeper	Both	1986-87	121-1058	1 RD Bead Type
Stem Seal	Both	1986-87	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1986-87	140-8038	0.2371 I.D., 1.595 Length, 0.4350 O.D., W/ Snap Ring, +2 O/S Available
Lifter	Both	1986-87	VL119	Mechanical Bucket Type

1587cc, (1.6L), SOHC, GAS, CARB, 8 Valve, Vin A, "4ALC" **4ALC 14**
 1986-88 L4 97 CID BORE - 81mm/3.18"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-88	SB1500-71	1½ O.D., 1.240 I.D., 0.3170 Depth
	Exh	1986-88	SB1312-59	1⅝ O.D., 1.044 I.D., 0.2730 Depth
Valve	Int	1986-88	10107	1.417 Head Diameter
	Exh	1986-88	10106	1.220 Head Diameter
Guide	Int	1986-88	140-8020	0.2757 I.D., 1.690 Length, 0.4550 O.D., W/ Snap Ring
	Exh	1986-88	140-8021	0.2757 I.D., 1.930 Length, 0.4550 O.D., W/ Snap Ring
Spring	Both	1986-88	160-1055	1.760 Length
Head Saver Shim		1986-88	230-2018	New Hgt. - 3.4000 - 3.4100; Min. Hgt. - 3.3850

1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, "4AGELC" **4AGELC 15**
 1987-89 L4 97 CID BORE - 81mm/3.18"

PART		YEARS	PART NO.	NOTES
Valve	Int	1987-89	10176	1.201 Head Diameter
	Exh	1987-89	10177	1.004 Head Diameter
Keeper	Both	1987-89	121-1058	1 RD Bead Type

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15 1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, "4AGELC" 4AGELC
 (cont.) 1987-89 L4 97 CID BORE - 81mm/3.18"

PART		YEARS	PART NO.	NOTES
Stem Seal	Both	1987-89	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1987-89	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Lifter	Both	1987-89	VL119	Mechanical Bucket Type

16 1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, "4AGZE Supercharged" 4AGZE
 1988-89 L4 97 CID BORE - 81mm/3.18"

PART		YEARS	PART NO.	NOTES
Valve	Int	1988-89	10176	1.201 Head Diameter
	Exh	1988-89	10177	1.004 Head Diameter
Keeper	Both	1988-89	121-1058	1 RD Bead Type
Stem Seal	Both	1988-89	122-1147	Positive Type,Viton Material,Metal Clad Style,Int Only From 4/89
Guide	Both	1988-89	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Lifter	Both	1988-89	VL119	Mechanical Bucket Type

17 1587cc, (1.6L), DOHC, GAS, CARB, 16 Valve, Vin A, "4AF" 4AF
 1988-89 L4 97 CID BORE - 81mm/3.18"

PART		YEARS	PART NO.	NOTES
Valve	Int	1988-89	10314	1.181 Head Diameter
	Exh	1988-89	10315	0.967 Head Diameter
Keeper	Both	1988-89	121-1058	1 RD Bead Type
Stem Seal	Both	1988-89	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1988-89	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
Spring	Both	1988-89	160-1252	1.796 Length
Lifter	Both	1988-89	VL119	Mechanical Bucket Type
Head Saver Shim		1988-89	230-2033	New Hgt. 4.570; Min Hgt. N/A

18 1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, "4AGE" 4AGE
 1988-91 L4 97 CID BORE - 81mm/3.18"

PART		YEARS	PART NO.	NOTES
Valve	Int	1988-91	10176	1.201 Head Diameter
	Exh	1988-91	10177	1.004 Head Diameter
Keeper	Both	1988-91	121-1058	1 RD Bead Type
Stem Seal	Both	1988-91	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1988-91	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Lifter	Both	1988-91	VL119	Mechanical Bucket Type

19 1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4AFE 4AFE
 1988-97 L4 97 CID BORE - 81mm/3.18"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1988-97	SB1250-54	1¼ O.D.,1.010T I.D.,0.2570 Depth
	Exh	1988-97	SB1062-50	1½ O.D.,0.790 I.D.,0.2540 Depth
Valve	Int	1988-89	10314	1.181 Head Diameter,3.597 Overall Length
		1990-97	10506	1.221 Head Diameter,3.445 Overall Length
	Exh	1988-89	10315	0.967 Head Diameter,3.618 Overall Length
		1990-97	10507	0.965 Head Diameter,3.466 Overall Length

(Cont'd) **TOYOTA / PASSENGER CAR OR TRUCK**

1587cc, (1.6L), DOHC, GAS, FI, 16 Valve, Vin A, 4AFE
1988-97 L4 97 CID

4AFE 19
BORE - 81mm/3.18" (cont.)

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1988-97	121-1058	1 RD Bead Type
Stem Seal	Both	1988-97	122-1147	Positive Type,Viton Material,Metal Clad Style,Int Only From 11/91
Guide	Both	1988-97	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
Spring	Both	1988-92	160-1252	1.796 Length
Lifter	Both	1988-93	VL119	Mechanical Bucket Type
Head Bolt Set		1988-97	220-1035	Torque To Yield,Services Engine
Head Saver Shim		1988-93	230-2033	New Hgt. - 4.570 - Min. Hgt. - NOTE: Corolla To 6/92, Celica ST
		1993-97	230-2097	Corrolla

1588cc, (1.6L), OHV, GAS, CARB, 8 Valve, Vin T, 2TC
1971-79 L4 97 CID

2TC 20
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1971-79	121-1023	1 SQ Bead Type
Stem Seal	Both	1971-79	122-1127	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	1971-79	VL81	Mechanical Type

1762cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin A, B, "7AFE"
1993-97 L4 107 CID

7AFE 21
BORE - 81mm/3.18"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1993-97	10506	1.221 Head Diameter
	Exh	1993-97	10507	0.965 Head Diameter
Keeper	Both	1993-97	121-1058	1 RD Bead Type
Stem Seal	Both	1993-97	122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1993-97	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
Spring	Both	1993-97	160-1358	1.745 Length
Head Bolt Set		1993-97	220-1035	Torque To Yield,Services Engine
Head Saver Shim		1993-97	230-2100	New Hgt.- 4.567

1770cc, (1.8L), OHV, GAS, CARB, 8 Valve, Vin T, "3TC"
1980-82 L4 108 CID

3TC 22
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	1980-82	121-1023	1 SQ Bead Type
Stem Seal	Both	1980-82	122-1127	Positive Type,Viton Material,Metal Clad Style

1794cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin R, 1ZZFE
1998-08 L4 109 CID

1ZZFE 23
BORE - 79mm/3.11"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-05	10735	1.260 Head Diameter,Corolla 1998-99, Celica GT & MR2 1998-05
	Exh	2000-08	10780	1.220 Head Diameter,Corolla 2000-06, Matrix
		1998-05	10736	1.081 Head Diameter,Corolla 1998-99, Celica GT & MR2 1998-05
		2000-08	10781	1.024 Head Diameter,Corolla 2000-06, Matrix
Keeper	Both	1998-08	121-1100	1 RD Bead Type
Stem Seal	Int	1998-08	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	1998-08	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1998-08	140-8584	0.2175 I.D.,1.360 Length,0.4073 O.D.

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

23 1794cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin R, 1ZZFE 1ZZFE
 (cont.) 1998-08 L4 109 CID BORE - 79mm/3.11"

PART	YEARS	PART NO.	NOTES
Spring	Both	2000-08 160-1444	1.709 Length
Head Bolt Set		1998-08 220-1119	Torque To Yield,Services Engine
Head Saver Shim		1998-08 230-2147	New Hgt. 4.520 - 4.527: Min. Hgt. N/A

24 1795cc, (1.8L), DOHC, GAS, FI, 16 Valve, 2ZZGE 2ZZGE
 2000-06 L4 110 CID BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES
Valve	Int	2000-06 02177	1.339 Head Diameter
	Exh	2000-06 02178S	1.142 Head Diameter,Stellite Face
Stem Seal	Both	2000-06 122-1347	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2000-06 340-1011BR	0.2165 I.D.,1.695 Length,0.4155 O.D.,Optional Bronze Guide
Head Bolt Set		2000-06 220-1119	Torque To Yield,Services Engine

25 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin K, L, U, 2ZRFE TOY-2ZRFE
 2009-17 L4 110 CID BORE - 80.5mm/3.17"

PART	YEARS	PART NO.	NOTES
Valve	Int	2009-16 13365	1.260 Head Diameter
	Exh	2009-16 13366	1.084 Head Diameter
Keeper	Both	2009-16 121-1100	1 RD Bead Type
Stem Seal	Int	2009-16 122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2009-16 122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2009-16 140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2009-16 140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

26 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin P, 2ZRFAE TOY-2ZRFAE
 2014-17 L4 110 CID BORE - 80.5mm/3.17"

PART	YEARS	PART NO.	NOTES
Valve	Int	2014-16 13365	1.260 Head Diameter
	Exh	2014-16 13366	1.084 Head Diameter
Stem Seal	Int	2014-16 122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2014-16 122-1282	Positive Type,Viton Material,Metal Clad Style

27 1798cc, (1.8L), DOHC, ELECTRIC/GAS, FI, 16 Valve, 2ZRFXE TOY-2ZRFXE
 2010-17 L4 110 CID BORE - 80.5mm/3.17"

PART	YEARS	PART NO.	NOTES
Valve	Int	2010-16 13365	1.260 Head Diameter
	Exh	2010-16 13366	1.084 Head Diameter
Keeper	Both	2010-16 121-1100	1 RD Bead Type
Stem Seal	Int	2010-16 122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2010-16 122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int	2010-16 140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh	2010-16 140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

28 1839cc, (1.8L), SOHC, DIESEL, FI, 8 Valve, Vin C, "1CTL TURBO" 1CTL
 1984-85 L4 112 CID BORE - 83mm/3.26"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1984-85 SB1625-11	1 $\frac{5}{8}$ O.D.,1 $\frac{11}{32}$ I.D., $\frac{7}{32}$ Depth,Adjustable Cutter Must Be Used To Allow For Proper Press Fit
	Exh	1984-85 SB1375-54	1 $\frac{5}{8}$ O.D.,1.022T I.D.,0.2300 Depth
Stem Seal	Both	1984-85 122-1088	Positive Type,Viton Material,Metal Clad Style

(Cont'd) TOYOTA / PASSENGER CAR OR TRUCK

1968cc, (2.0L), SOHC, GAS, CARB, Vin R, "18RC" 18RC 29
 1972-74 L4 120 CID BORE - 88.5mm/3.48"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1972-74 121-1023	1 SQ Bead Type

1995cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin S, "2SELC" 2SELC 30
 1983-86 L4 122 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1983-86 121-1023	1 SQ Bead Type
Stem Seal	Both	1983-86 122-1127	Positive Type,Viton Material,Metal Clad Style

1998cc, (2.0L), OHV, GAS, FI, 8 Valve, Vin Y, "3YEC" 3YEC 31
 1984-85 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve	Int	1984-85 10322	1.575 Head Diameter
	Exh	1984-85 10323	1.417 Head Diameter
Stem Seal	Both	1984-85 122-1127	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1984-85 140-8201	0.3160 I.D.,1.970 Length,0.5145 O.D.,W/ Snap Ring
	Exh	1984-85 140-8202	0.3160 I.D.,2.045 Length,0.5143 O.D.,W/ Snap Ring
Spring	Both	1984-85 160-1307	1.846 Length
Lifter	Both	1984-85 VL519	Hydraulic Type

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin S, "3SGELC" 3SGELC 32
 1986-89 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1986-89 121-1058	1 RD Bead Type
Stem Seal	Both	1986-89 122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1986-89 140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
	Exh	1986-89 140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring
Lifter	Both	1986-89 VL119	Mechanical Bucket Type

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin S, "3SFE" 3SFE 33
 1987-91 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1987-91 SB1062-50	1 $\frac{1}{16}$ O.D.,0.790 I.D.,0.2540 Depth
Keeper	Both	1987-91 121-1058	1 RD Bead Type
Stem Seal	Both	1987-91 122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1987-91 140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
	Exh	1987-91 140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1987-91 160-1252	1.796 Length
Lifter	Both	1987-91 VL119	Mechanical Bucket Type
Head Bolt Set		1987-91 220-1060	Torque To Yield,Services Engine
Head Saver Shim		1987-91 230-2063	New Hgt.- 4.9650; Min. Hgt.- 4.9500

1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin S, "3SGTE Turbo" 3SGTE 34
 1988-95 L4 122 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1988-95 121-1058	1 RD Bead Type
Stem Seal	Both	1988-95 122-1246	Positive Type,Viton Material,Metal Clad Style
Lifter	Both	1988-89 VL119	Mechanical Bucket Type

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

35 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin P, "3SFE TRUCK"
1996-00 L4 122 CID

3SFE-TRU
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1996-00	SB1375-56	1 ³ / ₈ O.D., 1.102 I.D., 0.2600 Depth
	Exh	1996-00	SB1062-50	1 ¹ / ₁₆ O.D., 0.790 I.D., 0.2540 Depth
Valve	Int	1996-00	10421	1.260 Head Diameter, 3.842 Overall Length
	Exh	1996-00	10420	1.063 Head Diameter, 3.876 Overall Length
Keeper	Both	1996-00	121-1058	1 RD Bead Type
Stem Seal	Both	1996-00	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1996-00	140-8147	0.2370 I.D., 1.520 Length, 0.4360 O.D.
	Exh	1996-00	140-8038	0.2371 I.D., 1.595 Length, 0.4350 O.D., W/ Snap Ring, +2 O/S Available
Spring	Both	1996-00	160-1385	1.675 Length

36 1998cc, (2.0L), DOHC, GAS, FI, 16 Valve, "1AZFE"
2001-03 L4 122 CID

1AZFE
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-03	10798	1.339 Head Diameter
	Exh	2001-03	10799	1.161 Head Diameter
Keeper	Both	2001-03	121-1100	1 RD Bead Type
Stem Seal	Int	2001-03	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2001-03	122-1282	Positive Type, Viton Material, Metal Clad Style

37 2164cc, (2.2L), DOHC, GAS, FI, 16 Valve, Vin G, S, "5SFE"
1990-01 L4 132 CID

5SFE
BORE - 87mm/3.43"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1990-01	SB1375-56	1 ³ / ₈ O.D., 1.102 I.D., 0.2600 Depth
	Exh	1990-01	SB1187-51	1 ³ / ₁₆ O.D., 0.905 I.D., 0.2570 Depth
Valve	Int	1992-01	10421	1.260 Head Diameter, 3.842 Overall Length
	Exh	1992-01	10420	1.063 Head Diameter, 3.876 Overall Length
Keeper	Both	1990-01	121-1058	1 RD Bead Type
Stem Seal	Exh	2000-01	122-1246	Positive Type, Viton Material, Metal Clad Style
	Both	1990-01	122-1147	Positive Type, Viton Material, Metal Clad Style, Fits Int Only For 2000-01
Guide	Int	1995-01	140-8147	0.2370 I.D., 1.520 Length, 0.4360 O.D.
	Both	1990-01	140-8038	0.2371 I.D., 1.595 Length, 0.4350 O.D., W/ Snap Ring, +2 O/S Available, For 1995-2001 Fits Exh Only
Spring	Both	1990-92	160-1252	1.796 Length, Celica, MR2 Only
		1993-95	160-1339	1.675 Length
		1996-01	160-1385	1.675 Length
Lifter	Both	1990-92	VL119	Mechanical Bucket Type
Head Bolt Set		1990-01	220-1060	Torque To Yield, Services Engine
Head Saver Shim		1990-01	230-2065	New Hgt. - 4.9630 - 4.9670; Min. Hgt. - 4.9530

38 2188cc, (2.2L), SOHC, DIESEL, FI, 8 Valve, Vin L
1981-83 L4 134 CID

L
BORE - 88.5mm/3.48"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1981-83	SB1437-67	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.2550 Depth

39 2189cc, (2.2L), SOHC, GAS, CARB, 8 Valve, Vin R, "20R"
1975-80 L4 134 CID

20R
BORE - 88.5mm/3.48"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1975-80	10048	1.692 Head Diameter

(Cont'd) TOYOTA / PASSENGER CAR OR TRUCK**2189cc, (2.2L), SOHC, GAS, CARB, 8 Valve, Vin R, "20R"**
1975-80 L4 134 CID20R **39**
BORE - 88.5mm/3.48" (cont.)

PART	YEARS	PART NO.	NOTES
Valve	Exh 1975-80	10037	1.419 Head Diameter
Keeper	Both 1975-80	121-1023	1 SQ Bead Type
Stem Seal	Both 1975-80	122-1127	Positive Type, Viton Material, Metal Clad Style
Guide	Both 1975-80	140-7523	0.3160 I.D., 2.260 Length, 0.5145 O.D., W/ Snap Ring, +2 O/S Available
Spring	Both 1977-80	160-1038	1.800 Length
Rocker Components	Exh 1975-80 Both 1975-80	186-1035 180-1326	Rocker Arm Shaft, 1 Required Rocker Arm, Cast Aluminum, W/ Adjusting Screw, Replaces Early Cast Iron Rocker Arm

2237cc, (2.2L), OHV, GAS, FI, 8 Valve, Vin Y, "4YEC"
1986-89 L4 137 CID4YEC **40**
BORE - 91mm/3.59"

PART	YEARS	PART NO.	NOTES
Valve	Int 1986-89 Exh 1986-89	10322 10323	1.575 Head Diameter 1.417 Head Diameter
Stem Seal	Both 1986-89	122-1127	Positive Type, Viton Material, Metal Clad Style
Guide	Int 1986-89 Exh 1986-89	140-8201 140-8202	0.3160 I.D., 1.970 Length, 0.5145 O.D., W/ Snap Ring 0.3160 I.D., 2.045 Length, 0.5143 O.D., W/ Snap Ring
Spring	Both 1986-89	160-1307	1.846 Length
Lifter	Both 1986-89	VL519	Hydraulic Type
Head Saver Shim	1986-89	230-2150	New Hgt. 4.390-4.410; Min. Hgt. N/A

2253cc, (2.3L), SOHC, GAS, CARB, "2M"
1968-72 L6 138 CID2M **41**
BORE - 85mm/3.35"

PART	YEARS	PART NO.	NOTES
Keeper	Both 1968-72	121-1023	1 SQ Bead Type

2366cc, (2.4L), SOHC, GAS, CARB, 8 Valve, Vin R, "22R"
1981-90 L4 144 CID22R **42**
BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1981-90 Exh 1981-90	SB1937-52 SB1562-67	1 ¹⁵ / ₁₆ O.D., 1.573T I.D., 0.3790 Depth 1 ⁹ / ₁₆ O.D., 1.255T I.D., 0.3190 Depth
Valve	Int 1981-90 Exh 1981-90	10328A 10330A	1.770 Head Diameter, Nitride 1.457 Head Diameter, Nitride
Keeper	Both 1981-90	121-1023	1 SQ Bead Type
Stem Seal	Both 1981-90	122-1127	Positive Type, Viton Material, Metal Clad Style
Guide	Both 1981-90	140-7523	0.3160 I.D., 2.260 Length, 0.5145 O.D., W/ Snap Ring, +2 O/S Available
Spring	Both 1981-84 1985-90	160-1038 160-1106	1.800 Length 1.923 Length
Rocker Components	Exh 1981-90 Both 1981-90	186-1035 180-1326	Rocker Arm Shaft, 1 Required Rocker Arm, Cast Aluminum, W/ Adjusting Screw, Replaces Early Cast Iron Rocker Arm
Head Bolt Set	1987-90	220-1113	Torque To Yield, Services Engine
Head Saver Shim	1981-90	230-2066	New Hgt. - 3.9500- 3.9600; Min. Hgt. - 3.9400

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

43 2366cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin R, "22REC"
1986-89 L4 144 CID

22REC
BORE - 92mm/3.62"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-89	SB1937-52	1 ¹⁵ / ₁₆ O.D.,1.573T I.D.,0.3790 Depth
	Exh	1986-89	SB1562-67	1 ⁹ / ₁₆ O.D.,1.255T I.D.,0.3190 Depth
Valve	Int	1986-89	10328A	1.770 Head Diameter,Nitride
	Exh	1986-89	10330A	1.457 Head Diameter,Nitride
Keeper	Both	1986-89	121-1023	1 SQ Bead Type
Stem Seal	Both	1986-89	122-1088	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1986-89	140-7523	0.3160 I.D.,2.260 Length,0.5145 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1986-89	160-1106	1.923 Length
Rocker Components	Exh	1986-89	186-1035	Rocker Arm Shaft,1 Required
	Both	1986-89	180-1326	Rocker Arm, Cast Aluminum,W/ Adjusting Screw, Replaces Early Cast Iron Rocker Arm
Head Bolt Set		1987-88	220-1113	Torque To Yield,Services Engine
Head Saver Shim		1986-89	230-2066	New Hgt.- 3.7900 - 3.8000; Min. Hgt.- 3.7800

44 2366cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin R, "22RTEC TURBO"
1986-88 L4 144 CID

22RTEC
BORE - 92mm/3.62"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-88	SB1937-52	1 ¹⁵ / ₁₆ O.D.,1.573T I.D.,0.3790 Depth
	Exh	1986-88	SB1562-67	1 ⁹ / ₁₆ O.D.,1.255T I.D.,0.3190 Depth
Valve	Int	1986-88	10328A	1.770 Head Diameter,Nitride
Keeper	Both	1986-88	121-1023	1 SQ Bead Type
Guide	Both	1986-88	140-7523	0.3160 I.D.,2.260 Length,0.5145 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1986-88	160-1106	1.923 Length
Rocker Components	Exh	1986-88	186-1035	Rocker Arm Shaft,1 Required
	Both	1986-88	180-1326	Rocker Arm, Cast Aluminum,W/ Adjusting Screw, Replaces Early Cast Iron Rocker Arm

45 2366cc, (2.4L), SOHC, GAS, FI, 8 Valve, Vin R, 22RE
1989-95 L4 144 CID

22RE
BORE - 92mm/3.62"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1989-95	SB1937-52	1 ¹⁵ / ₁₆ O.D.,1.573T I.D.,0.3790 Depth
	Exh	1989-95	SB1562-67	1 ⁹ / ₁₆ O.D.,1.255T I.D.,0.3190 Depth
Valve	Int	1989-95	10328A	1.770 Head Diameter,Nitride
	Exh	1989-95	10330A	1.457 Head Diameter,Nitride
Keeper	Both	1989-95	121-1023	1 SQ Bead Type
Stem Seal	Int	1989-95	122-1163	Positive Type,Viton Material,Metal Clad Style
	Exh	1989-95	122-1127	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1989-95	140-7523	0.3160 I.D.,2.260 Length,0.5145 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1989-95	160-1106	1.923 Length
Rocker Components	Exh	1989-95	186-1035	Rocker Arm Shaft,1 Required
	Both	1989-95	180-1326	Rocker Arm, Cast Aluminum,W/ Adjusting Screw, Replaces Early Cast Iron Rocker Arm
Head Bolt Set		1989-95	220-1113	Torque To Yield,Services Engine
Head Saver Shim		1989-95	230-2066	New Hgt.- 3.7900 - 3.8000; Min. Hgt.- 3.7800

(Cont'd) **TOYOTA / PASSENGER CAR OR TRUCK**

2362cc, (2.4L), DOHC, GAS, FI, 16 Valve, 2AZFE
2001-13 L4 144 CID

TOY-2AZFE 46
BORE - 88.5mm/3.48"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-13	10798	1.339 Head Diameter
	Exh	2001-13	10799	1.161 Head Diameter
Keeper	Both	2001-13	121-1100	1 RD Bead Type
Stem Seal	Int	2001-13	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2001-13	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-13	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.
Head Saver Shim		2001-13	230-2143	New Hgt. - 5.090; Min. Hgt. - N/A

2362cc, (2.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin B, "2AZFXE"
2007-11 L4 144 CID

TOY-2AZFXE 47
BORE - 88.5mm/3.48"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-11	10798	1.339 Head Diameter
	Exh	2007-11	10799	1.161 Head Diameter
Keeper	Both	2007-11	121-1100	1 RD Bead Type
Stem Seal	Int	2007-11	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh	2007-11	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-11	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.
Head Saver Shim		2007-11	230-2143	New Hgt. - 5.090; Min. Hgt. - N/A

2438cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin A, "2TZFE"
1991-95 L4 149 CID

2TZFE 48
BORE - 95mm/3.74"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1991-95	SB1562-66	1 ⁹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth
	Exh	1991-95	SB1312-67	1 ⁵ / ₁₆ O.D.,1.042 I.D.,0.2380 Depth
Valve	Int	1991-95	10473	1.417 Head Diameter
	Exh	1991-95	10474	1.201 Head Diameter
Keeper	Both	1991-95	121-1058	1 RD Bead Type
Stem Seal	Both	1991-95	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1991-95	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
	Exh	1991-95	140-8273	0.2365 I.D.,1.890 Length,0.4353 O.D.,W/ Snap Ring
Head Bolt Set		1991-95	220-1043	Torque To Yield,Services Engine

2438cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin A, K, "2TZFZE Supercharged"
1994-97 L4 149 CID

2TZFZE 49
BORE - 95mm/3.74"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-97	SB1562-66	1 ⁹ / ₁₆ O.D.,1.265T I.D.,0.2800 Depth
	Exh	1994-97	SB1312-67	1 ⁵ / ₁₆ O.D.,1.042 I.D.,0.2380 Depth
Valve	Int	1994-97	10473	1.417 Head Diameter
	Exh	1994-97	10474	1.201 Head Diameter
Keeper	Exh	1994-97	121-1058	1 RD Bead Type
Stem Seal	Both	1994-97	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1994-97	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
	Exh	1994-97	140-8273	0.2365 I.D.,1.890 Length,0.4353 O.D.,W/ Snap Ring
Head Bolt Set		1994-97	220-1043	Torque To Yield,Services Engine

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

50 2438cc, (2.4L), DOHC, GAS, FI, 16 Valve, Vin L, U, 2RZFE 2RZFE
 1995-04 L4 149 CID BORE - 95mm/3.74"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-04	SB1562-66	1 ⁹ / ₁₆ O.D., 1.265T I.D., 0.2800 Depth
	Exh	1995-04	SB1312-67	1 ⁵ / ₁₆ O.D., 1.042 I.D., 0.2380 Depth
Valve	Int	1995-04	10321	1.476 Head Diameter
	Exh	1995-04	10474	1.201 Head Diameter
Keeper	Both	1995-04	121-1058	1 RD Bead Type
Stem Seal	Int	1995-04	122-1147	Positive Type, Viton Material, Metal Clad Style
	Exh	1995-04	122-1285	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1995-04	140-8038	0.2371 I.D., 1.595 Length, 0.4350 O.D., W/ Snap Ring, +2 O/S Available
	Exh	1995-04	140-8273	0.2365 I.D., 1.890 Length, 0.4353 O.D., W/ Snap Ring
Head Bolt Set		1995-04	220-1043	Torque To Yield, Services Engine
Head Saver Shim		1995-04	230-2142	New Hgt. - 5.135 - 5.139; Min. Hgt. - N/A

51 2446cc, (2.4L), SOHC, DIESEL, FI, 8 Valve, Vin H, L, " 2L " 2L
 1984-87 L4 149 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1984-87	SB1437-67	1 ⁷ / ₁₆ O.D., 1.180T I.D., 0.2550 Depth
Spring	Int	1984-84	160-1038	1.800 Length, Outer

52 2494cc, (2.5L), DOHC, GAS, FI, 16 Valve, 2ARFE TOY-2ARFE
 2009-17 L4 152 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2009-16	121-1100	1 RD Bead Type
Stem Seal	Int	2009-16	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2009-16	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2009-16	140-3134	0.2175 I.D., 1.630 Length, 0.4073 O.D., +2 O/S Available
	Exh	2009-16	140-3135	0.2175 I.D., 1.850 Length, 0.4073 O.D., +2 O/S Available

53 2494cc, (2.5L), DOHC, ELECTRIC/GAS, FI, 16 Valve, Vin D, 2ARFXE TOY-2ARFXE
 2012-17 L4 152 CID BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2012-16	121-1100	1 RD Bead Type
Stem Seal	Int	2012-16	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2012-16	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2012-16	140-3134	0.2175 I.D., 1.630 Length, 0.4073 O.D., +2 O/S Available
	Exh	2012-16	140-3135	0.2175 I.D., 1.850 Length, 0.4073 O.D., +2 O/S Available

54 2508cc, (2.5L), DOHC, GAS, FI, 24 Valve, Vin V, "2VZFE" 2VZFE
 1988-91 V6 153 CID BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1988-91	SB1375-50	1 ³ / ₈ O.D., 1.109T I.D., 0.2550 Depth
	Exh	1988-91	SB1187-53	1 ³ / ₁₆ O.D., 0.935 I.D., 0.2350 Depth
Keeper	Both	1988-91	121-1058	1 RD Bead Type
Stem Seal	Both	1988-91	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1988-91	140-8038	0.2371 I.D., 1.595 Length, 0.4350 O.D., W/ Snap Ring, +2 O/S Available
Lifter	Both	1988-91	VL119	Mechanical Bucket Type
Head Bolt Set		1988-91	220-1048	Torque To Yield, Services Engine

(Cont'd) **TOYOTA / PASSENGER CAR OR TRUCK**

2563cc, (2.6L), SOHC, GAS, CARB, Vin M, "4M" **4M 55**
1971-79 L6 156 CID BORE - 80mm/3.14"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1971-77	SB1750-59	1¼ O.D., 1.360T I.D., 0.3150 Depth
		1978-79	SB1625-52	1½ O.D., 1.260T I.D., 0.3150 Depth
	Exh	1978-79	SB1437-56	1⅞ O.D., 1.110T I.D., 0.3150 Depth
Keeper	Both	1971-79	121-1023	1 SQ Bead Type

2563cc, (2.6L), SOHC, GAS, FI, 12 Valve, Vin M, "4ME" **4ME 56**
1979-80 L6 156 CID BORE - 80mm/3.14"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1979-80	SB1625-52	1½ O.D., 1.260T I.D., 0.3150 Depth
	Exh	1979-80	SB1437-56	1⅞ O.D., 1.110T I.D., 0.3150 Depth
Keeper	Both	1979-80	121-1023	1 SQ Bead Type

2672cc, (2.7L), DOHC, GAS, FI, 16 Valve, 1ARFE **TOY-1ARFE 57**
2009-17 L4 163 CID BORE - 90mm/3.54"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2009-16	121-1100	1 RD Bead Type
Stem Seal	Int	2009-16	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2009-16	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2009-16	140-3134	0.2175 I.D., 1.630 Length, 0.4073 O.D., +2 O/S Available
	Exh	2009-16	140-3135	0.2175 I.D., 1.850 Length, 0.4073 O.D., +2 O/S Available

2694cc, (2.7L), DOHC, GAS, FI, 16 Valve, Vin M, U, 3RZFE **3RZFE 58**
1994-04 L4 164 CID BORE - 95mm/3.74"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1994-04	SB1562-66	1⅞ O.D., 1.265T I.D., 0.2800 Depth
	Exh	1994-04	SB1312-67	1⅞ O.D., 1.042 I.D., 0.2380 Depth
Valve	Int	1994-04	10321	1.476 Head Diameter
	Exh	1994-04	10474	1.201 Head Diameter
Keeper	Both	1994-04	121-1058	1 RD Bead Type
Stem Seal	Int	1994-04	122-1147	Positive Type, Viton Material, Metal Clad Style
	Exh	1994-04	122-1285	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1994-04	140-8038	0.2371 I.D., 1.595 Length, 0.4350 O.D., W/ Snap Ring, +2 O/S Available
	Exh	1994-04	140-8273	0.2365 I.D., 1.890 Length, 0.4353 O.D., W/ Snap Ring
Head Bolt Set		1994-04	220-1043	Torque To Yield, Services Engine
Head Saver Shim		1994-04	230-2142	New Hgt. - 5.315; Min. Hgt. - N/A

2694cc, (2.7L), DOHC, GAS, FI, 16 Valve, 2TRFE **2TRFE 59**
2005-17 L4 164 CID BORE - 95mm/3.74"

PART		YEARS	PART NO.	NOTES
Valve	Int	2005-16	13208	1.476 Head Diameter
	Exh	2005-16	13209	1.240 Head Diameter
Keeper	Both	2005-16	121-1100	1 RD Bead Type
Stem Seal	Int	2005-16	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2005-16	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2005-16	140-3130	0.2175 I.D., 1.715 Length, 0.4075 O.D.

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

60 2754cc, (2.8L), DOHC, GAS, FI, 12 Valve, Vin M, "5MGE" 5MGE
 1982-88 L6 168 CID BORE - 83mm/3.26"

PART	YEARS	PART NO.	NOTES
Keeper	Both	1982-88 121-1023	1 SQ Bead Type
Stem Seal	Both	1982-88 122-1127	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1982-88 140-8018	0.3160 I.D.,1.870 Length,0.5140 O.D.,W/ Snap Ring

61 2759cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin M, "5ME" 5ME
 1981-82 L6 171 CID BORE - 83mm/3.26"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1981-82 SB1437-56	1 $\frac{7}{16}$ O.D.,1.110T I.D.,0.3150 Depth
Keeper	Both	1981-82 121-1023	1 SQ Bead Type

62 2954cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin M, 7MGE 7MGE
 1986-92 L6 180 CID BORE - 83mm/3.26"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1986-92 SB1187-52	1 $\frac{3}{16}$ O.D.,0.934T I.D.,0.2570 Depth
Valve	Int	1986-92 10337	1.260 Head Diameter
	Exh	1986-92 10338S	1.083 Head Diameter,Stellite Face
Keeper	Both	1986-92 121-1058	1 RD Bead Type
Stem Seal	Both	1986-92 122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1986-92 140-8208	0.2370 I.D.,1.455 Length,0.4350 O.D.,W/ Snap Ring
	Exh	1986-92 140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1986-92 160-1253	1.620 Length
Lifter	Both	1986-92 VL119	Mechanical Bucket Type
Head Saver Shim		1986-92 230-2042	New Hgt.- 4.5700 - 4.5750; Min. Hgt.- 4.5600

63 2954cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin M, "7MGTE TURBO" 7MGTE
 1987-92 L6 180 CID BORE - 83mm/3.26"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1987-92 SB1187-52	1 $\frac{3}{16}$ O.D.,0.934T I.D.,0.2570 Depth
Valve	Int	1987-92 10337	1.260 Head Diameter
	Exh	1987-92 10338S	1.083 Head Diameter,Stellite Face
Keeper	Both	1987-92 121-1058	1 RD Bead Type
Stem Seal	Both	1987-92 122-1147	Positive Type,Viton Material,Metal Clad Style
Guide	Int	1987-92 140-8208	0.2370 I.D.,1.455 Length,0.4350 O.D.,W/ Snap Ring
	Exh	1987-92 140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both	1987-92 160-1253	1.620 Length
Lifter	Both	1987-92 VL119	Mechanical Bucket Type
Head Saver Shim		1987-92 230-2042	New Hgt.- 4.5700 - 4.5750; Min. Hgt.- 4.5600

64 2959cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin V, "3VZFE" 3VZFE
 1992-93 V6 180 CID BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1992-93 SB1437-72	1 $\frac{7}{16}$ O.D.,1.150T I.D.,0.2570 Depth
	Exh	1992-93 SB1187-53	1 $\frac{3}{16}$ O.D.,0.935 I.D.,0.2350 Depth
Valve	Int	1992-93 10305	1.339 Head Diameter
	Exh	1992-93 10306S	1.073 Head Diameter,Stellite Face
Keeper	Both	1992-93 121-1058	1 RD Bead Type

(Cont'd) TOYOTA / PASSENGER CAR OR TRUCK**2959cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin V, "3VZFE"**
1992-93 V6 180 CID**3VZFE 64**
BORE - 87.5mm/3.45" (cont.)

PART	YEARS	PART NO.	NOTES
Stem Seal	Int 1992-93	122-1165	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1992-93	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available
Head Bolt Set	1992-93	220-1048	Torque To Yield,Services Engine

2959cc, (3.0L), SOHC, GAS, FI, 12 Valve, Vin V, 3VZE
1988-95 V6 180 CID**3VZE 65**
BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1988-95	SB1750-68	1 $\frac{3}{4}$ O.D.,1.415 I.D.,0.3160 Depth
	Exh 1988-95	SB1562-69N	1 $\frac{9}{16}$ O.D.,1.219 I.D.,0.3170 Depth,Optional Non-Magnetic (N) Material
	1988-95	SB1562-72	1 $\frac{9}{16}$ O.D.,1.180 I.D.,0.3160 Depth
Valve	Int 1988-95	10339SA	1.654 Head Diameter,Stellite Face, Nitride
	Exh 1988-95	10340A	1.378 Head Diameter,Nitride
Stem Seal	Exh 1988-93	122-1127	Positive Type,Viton Material,Metal Clad Style
	Both 1988-95	122-1163	Positive Type,Viton Material,Metal Clad Style,Fits Int Only 1988-93
Guide	Both 1988-95	140-8207	0.3160 I.D.,1.820 Length,0.5140 O.D.,W/ Snap Ring,+2 O/S Available
Spring	Both 1988-95	160-1319	1.876 Length,Alternative Ovate Wire Design
Head Bolt Set	1988-95	220-1052	Torque To Yield,Services Engine
Head Saver Shim	1988-95	230-2026L	Left,New Hgt. - 5.312 - 5.315, Min. Hgt. 5.302
	1988-95	230-2026R	Right,New Hgt. - 5.312 - 5.315, Min. Hgt. 5.302

2995cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin F, G, 1MZFE
1994-06 V6 183 CID**TOY-1MZFE 66**
BORE - 87.5mm/3.45"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1994-06	SB1437-72	1 $\frac{7}{16}$ O.D.,1.150T I.D.,0.2570 Depth
	Exh 1994-06	SB1187-53	1 $\frac{9}{16}$ O.D.,0.935 I.D.,0.2350 Depth
Valve	Int 1994-06	10552	1.339 Head Diameter
	Exh 1994-06	10553S	1.073 Head Diameter,Stellite Face
Keeper	Both 1994-06	121-1100	1 RD Bead Type
Stem Seal	Int 1994-06	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh 1994-06	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1994-06	140-8584	0.2175 I.D.,1.360 Length,0.4073 O.D.
	Exh 1994-06	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.,+2 O/S Available

2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin D, J, "2JZGE"
1994-98 L6 183 CID**2JZGE 67**
BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1994-98	SB1437-72	1 $\frac{7}{16}$ O.D.,1.150T I.D.,0.2570 Depth
	Exh 1994-98	SB1250-58	1 $\frac{1}{4}$ O.D.,0.955 I.D.,0.2550 Depth
Valve	Int 1994-98	10518	1.319 Head Diameter
	Exh 1994-98	10519	1.142 Head Diameter
Stem Seal	Both 1994-98	122-1147	Positive Type,Viton Material,Metal Clad Style,Optional
	1994-98	122-1246	Positive Type,Viton Material,Metal Clad Style
Guide	Int 1994-98	140-8147	0.2370 I.D.,1.520 Length,0.4360 O.D.
	Exh 1994-98	140-8038	0.2371 I.D.,1.595 Length,0.4350 O.D.,W/ Snap Ring,+2 O/S Available

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

68 2997cc, (3.0L), DOHC, GAS, FI, 24 Valve, Vin E, J, "2JZGTE TURBO" 2JZGTE
 1994-98 L6 183 CID BORE - 86mm/3.39"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1994-98	SB1437-72	1 ⁷ / ₁₆ O.D., 1.150T I.D., 0.2570 Depth
	Exh	1994-98	SB1250-58	1 ¹ / ₄ O.D., 0.955 I.D., 0.2550 Depth
Valve	Int	1994-98	10518	1.319 Head Diameter
	Exh	1994-98	10519	1.142 Head Diameter
Stem Seal	Both	1994-98	122-1147	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1994-98	140-8147	0.2370 I.D., 1.520 Length, 0.4360 O.D.
	Exh	1994-98	140-8038	0.2371 I.D., 1.595 Length, 0.4350 O.D., W/ Snap Ring, +2 O/S Available

69 3300cc, (3.3L), DOHC, ELECTRIC/GAS, GAS, FI, 24 Valve, 3MZFE 3MZFE
 2004-10 V6 202 CID BORE - 91.95mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	2004-10	SB1437-72	1 ⁷ / ₁₆ O.D., 1.150T I.D., 0.2570 Depth
	Exh	2004-10	SB1187-53	1 ³ / ₁₆ O.D., 0.935 I.D., 0.2350 Depth
Valve	Int	2004-10	10552	1.339 Head Diameter
	Exh	2004-10	10553S	1.073 Head Diameter, Stellite Face
Keeper	Both	2004-10	121-1100	1 RD Bead Type
Stem Seal	Int	2004-10	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2004-10	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2004-10	140-8584	0.2175 I.D., 1.360 Length, 0.4073 O.D.
	Exh	2004-10	140-8585	0.2175 I.D., 1.590 Length, 0.4075 O.D.

70 3378cc, (3.4L), DOHC, GAS, FI, 24 Valve, Vin N, V, 5VZFE 5VZFE
 1995-04 V6 206 CID BORE - 93.5mm/3.68"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1995-04	SB1437-72	1 ⁷ / ₁₆ O.D., 1.150T I.D., 0.2570 Depth
	Exh	1995-04	SB1187-53	1 ³ / ₁₆ O.D., 0.935 I.D., 0.2350 Depth
Valve	Int	1995-04	10305	1.339 Head Diameter
	Exh	1995-04	10306S	1.073 Head Diameter, Stellite Face
Keeper	Both	1995-04	121-1058	1 RD Bead Type
Stem Seal	Int	1995-04	122-1165	Positive Type, Viton Material, Metal Clad Style
	Exh	1995-04	122-1285	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1995-04	140-8038	0.2371 I.D., 1.595 Length, 0.4350 O.D., W/ Snap Ring, +2 O/S Available
Head Bolt Set		1995-04	220-1048	Torque To Yield, Services Engine
Head Saver Shim		1995-04	230-2127L	Left, New Hgt. - 4.805 - 4.808, Min. Hgt. N/A
		1995-04	230-2127R	Right, New Hgt. - 4.805 - 4.808, Min. Hgt. N/A

71 3456cc, (3.5L), DOHC, GAS, FI, 24 Valve, 2GRFE TOY-2GRFE
 2005-17 V6 211 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-16	13086	1.496 Head Diameter
	Exh	2005-16	13087	1.260 Head Diameter
Keeper	Both	2005-16	121-1100	1 RD Bead Type
Stem Seal	Int	2005-16	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2005-16	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2005-16	140-3134	0.2175 I.D., 1.630 Length, 0.4073 O.D., +2 O/S Available
	Exh	2005-16	140-3135	0.2175 I.D., 1.850 Length, 0.4073 O.D., +2 O/S Available

(Cont'd) **TOYOTA / PASSENGER CAR OR TRUCK**

3456cc, (3.5L), DOHC, GAS, FI, 24 Valve, 2GRFKS
2016-17 V6 211 CID

TOY-2GRFKS 72
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve	Exh 2016-16	13087	1.260 Head Diameter
Keeper	Both 2016-16	121-1100	1 RD Bead Type
Stem Seal	Int 2016-16	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh 2016-16	122-1282	Positive Type, Viton Material, Metal Clad Style

3456cc, (3.5L), DOHC, ELECTRIC/GAS, FI, 24 Valve, 2GRFXE
2011-16 V6 211 CID

TOY-2GRFXE 73
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve	Int 2011-16	13086	1.496 Head Diameter
	Exh 2011-16	13087	1.260 Head Diameter
Keeper	Both 2011-16	121-1100	1 RD Bead Type
Stem Seal	Int 2011-16	122-1266	Positive Type, Viton Material, Metal Clad Style
	2011-16	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int 2011-16	140-3134	0.2175 I.D., 1.630 Length, 0.4073 O.D., +2 O/S Available
	Exh 2011-16	140-3135	0.2175 I.D., 1.850 Length, 0.4073 O.D., +2 O/S Available

3878cc, (3.9L), OHV, GAS, CARB, 12 Valve, "F / FJ"
1960-74 L6 237 CID

TOY-3.9FJ 74
BORE - 90mm/3.54"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1960-74	SB1937-51	1 ¹⁵ / ₁₆ O.D., 1.540T I.D., 0.3150 Depth
	Exh 1960-74	SB1625-58	1 ⁵ / ₈ O.D., 1.280T I.D., 0.3150 Depth
Valve	Int 1960-74	10070	1.811 Head Diameter
	Exh 1960-74	10069	1.478 Head Diameter
Keeper	Both 1960-74	121-1028	3 RD Bead Type
Stem Seal	Both 1960-74	122-1125	Positive Type, Viton Material, Metal Clad Style
Guide	Int 1960-65	140-7528	0.3160 I.D., 2.765 Length, 0.5645 O.D.
	1966-74	140-7532	0.3155 I.D., 2.130 Length, 0.5535 O.D.
	Exh 1960-65	140-7527	0.3155 I.D., 2.360 Length, 0.5645 O.D.
	1966-74	140-7529	0.3160 I.D., 2.322 Length, 0.5525 O.D.
Spring	Both 1960-74	160-1025	2.000 Length
Push Rod	Both 1960-74	190-1513	10.920 Length

3956cc, (4.0L), OHV, GAS, FI, 12 Valve, Vin F, "3FE"
1988-92 L6 241 CID

3FE 75
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1988-92	SB1937-51	1 ¹⁵ / ₁₆ O.D., 1.540T I.D., 0.3150 Depth
	Exh 1988-92	SB1625-58	1 ⁵ / ₈ O.D., 1.280T I.D., 0.3150 Depth
Valve	Int 1988-92	10070	1.811 Head Diameter
	Exh 1988-92	10342S	1.476 Head Diameter, Stellite Face
Keeper	Int 1988-92	121-1028	3 RD Bead Type
	Exh 1988-92	121-1023	1 SQ Bead Type
Stem Seal	Both 1988-92	122-1125	Positive Type, Viton Material, Metal Clad Style
Guide	Int 1988-92	140-7532	0.3155 I.D., 2.130 Length, 0.5535 O.D.
	Exh 1988-92	140-7529	0.3160 I.D., 2.322 Length, 0.5525 O.D.
Spring	Both 1988-92	160-1025	2.000 Length

3956cc, (4.0L), DOHC, GAS, FI, 24 Valve, 1GRFE
2003-16 V6 241 CID

1GRFE 76
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve	Int 2003-15	13088	1.437 Head Diameter

TOYOTA / PASSENGER CAR OR TRUCK (Cont'd)

76 3956cc, (4.0L), DOHC, GAS, FI, 24 Valve, 1GRFE 1GRFE
 (cont.) 2003-16 V6 241 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-15	13086	1.496 Head Diameter, W/4.165 O.A.L.
	Exh	2003-15	13089S	1.161 Head Diameter, Stellite Face
		2010-16	13087	1.260 Head Diameter, W/4.345 O.A.L.
Keeper	Both	2003-16	121-1100	1 RD Bead Type
Stem Seal	Int	2003-16	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2003-16	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2003-16	140-3134	0.2175 I.D., 1.630 Length, 0.4073 O.D., +2 O/S Available
	Exh	2003-16	140-3135	0.2175 I.D., 1.850 Length, 0.4073 O.D., +2 O/S Available

77 4227cc, (4.2L), OHV, GAS, CARB, 12 Valve, Vin F, "2F" 2F
 1975-87 L6 258 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1975-87	SB1937-51	1 ¹⁵ / ₁₆ O.D., 1.540T I.D., 0.3150 Depth
	Exh	1975-87	SB1625-58	1 ⁵ / ₈ O.D., 1.280T I.D., 0.3150 Depth
Valve	Int	1975-87	10070	1.811 Head Diameter
	Exh	1975-87	10069	1.478 Head Diameter
Keeper	Both	1975-87	121-1028	3 RD Bead Type
Stem Seal	Both	1975-87	122-1125	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1975-87	140-7528	0.3160 I.D., 2.765 Length, 0.5645 O.D.
		1975-87	140-7532	0.3155 I.D., 2.130 Length, 0.5535 O.D.
	Exh	1975-87	140-7527	0.3155 I.D., 2.360 Length, 0.5645 O.D.
		1975-87	140-7529	0.3160 I.D., 2.322 Length, 0.5525 O.D.
Spring	Both	1975-87	160-1025	2.000 Length
Push Rod	Both	1975-87	190-1513	10.920 Length

78 4477cc, (4.5L), DOHC, GAS, FI, 24 Valve, Vin D, J, 1FZFE 1FZFE
 1993-97 L6 273 CID BORE - 100mm/3.94"

PART	YEARS	PART NO.	NOTES	
Stem Seal	Both	1993-97	122-1130	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1993-97	140-8586	0.2765 I.D., 1.660 Length, 0.4548 O.D., +2 O/S Available

79 4608cc, (4.6L), DOHC, GAS, FI, 32 Valve, 1URFE 1URFE
 2010-17 V8 281 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2010-16	13086	1.496 Head Diameter
	Exh	2010-16	13087	1.260 Head Diameter
Keeper	Both	2010-16	121-1100	1 RD Bead Type
Stem Seal	Int	2010-16	122-1266	Positive Type, Viton Material, Metal Clad Style
	Exh	2010-16	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	2010-16	140-3134	0.2175 I.D., 1.630 Length, 0.4073 O.D., +2 O/S Available
	Exh	2010-16	140-3135	0.2175 I.D., 1.850 Length, 0.4073 O.D., +2 O/S Available

80 4663cc, (4.7L), DOHC, GAS, FI, 32 Valve, Vin T, 2UZFE 2UZFE
 1998-09 V8 285 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1998-09	13273	1.358 Head Diameter
	Exh	1998-09	13274S	1.142 Head Diameter, Stellite Face
Keeper	Both	1998-09	121-1100	1 RD Bead Type
Stem Seal	Both	1998-09	122-1282	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1998-09	140-8584	0.2175 I.D., 1.360 Length, 0.4073 O.D.

(Cont'd) **TOYOTA / PASSENGER CAR OR TRUCK**

4663cc, (4.7L), DOHC, GAS, FI, 32 Valve, Vin T, 2UZFE **2UZFE 80**
1998-09 V8 285 CID BORE - 94mm/3.70" (cont.)

PART	YEARS	PART NO.	NOTES
Guide	Exh 1998-09	140-8585	0.2175 I.D.,1.590 Length,0.4075 O.D.
Head Saver Shim	1998-08	230-2195L	Left,New Hgt. - 4.805 - 4.808; Min. Hgt. - N/A
	1998-09	230-2195R	Right,New Hgt. - 4.805 - 4.808; Min. Hgt. - N/A

5663cc, (5.7L), DOHC, GAS, FI, 32 Valve, 3URFE **3URFE 81**
2007-17 V8 345 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve	Int 2007-16	13086	1.496 Head Diameter
	Exh 2007-16	13087	1.260 Head Diameter
Keeper	Both 2007-16	121-1100	1 RD Bead Type
Stem Seal	Int 2007-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh 2007-16	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2007-16	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh 2007-16	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

5663cc, (5.7L), DOHC, FLEX, FI, 32 Valve, 3URFBE **3URFBE 82**
2009-17 V8 345 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve	Int 2009-16	13086	1.496 Head Diameter
	Exh 2009-16	13087	1.260 Head Diameter
Keeper	Both 2009-16	121-1100	1 RD Bead Type
Stem Seal	Int 2009-16	122-1266	Positive Type,Viton Material,Metal Clad Style
	Exh 2009-16	122-1282	Positive Type,Viton Material,Metal Clad Style
Guide	Int 2009-16	140-3134	0.2175 I.D.,1.630 Length,0.4073 O.D.,+2 O/S Available
	Exh 2009-16	140-3135	0.2175 I.D.,1.850 Length,0.4073 O.D.,+2 O/S Available

TOYOTA / INDUSTRIAL

Engine	Models	Line No.
4 Cylinder		
82 C.I., (1.3L), 3P Industrial		1
91 C.I., (1.5L), 4P Forklift		2
91 C.I., (1.5L), 2R Forklift		3
122 C.I., (2.0L), 5R Forklift		4
130 C.I., (2.0L), 5K Forklift		5
137 C.I., (2.2L), 4Y Forklift		6
151 C.I., (2.5L), 2J Industrial		7
169 C.I., (2.8L), 5P Forklift		8
6 Cylinder		
218 C.I., (3.6L), 12 Valve H Industrial		9
237 C.I., (3.9L), 12 Valve F Industrial		10
241 C.I., (3.9L), 3F Industrial		11
243 C.I., (4.0L), 12 Valve 2H Industrial		12
258 C.I., (4.2L), 12 Valve 2F Industrial		13

TOYOTA / INDUSTRIAL (Cont'd)

1 82 C.I., (1.3L), 3P Industrial **3P**
 L4 82 CID **BORE - 76.6mm/3.016"**

PART		PART NO.	NOTES
Valve	Int	13060	1.413 Head Diameter, OEM # 13711-23011
	Exh	13070	1.169 Head Diameter, OEM # 13715-23011
Keeper	Both	121-1023	1 SQ Bead Type, OEM # 90913-03005
Guide	Both	140-8170	0.3150 I.D., 2.010 Length, 0.5530 O.D., OEM # 11122-23011
Spring	Both	160-1521	1.801 Length, OEM # 90501-42627

2 91 C.I., (1.5L), 4P Forklift **4P**
 L4 91 CID **BORE - 76.6mm/3.016"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-4	1 ⁵ / ₈ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +20 O/S Available
Valve	Int	10758	1.493 Head Diameter, OEM # 1371123020, 1 Round Groove & 1 Square Groove
		10760	1.496 Head Diameter, OEM # 1371123021, 1 Square Groove
	Exh	10759	1.168 Head Diameter, OEM # 1371523020, 1 Round Groove & 1 Square Groove
		10761	1.781 Head Diameter, OEM # 1371523021, 1 Square Groove
Keeper	Both	121-1023	1 SQ Bead Type, OEM # 9091303005
Stem Seal	Both	122-1125	Positive Type, Viton Material, Metal Clad Style, OEM # 9091302033
Guide	Both	140-8170	0.3150 I.D., 2.010 Length, 0.5530 O.D., OEM # 1112223011
Spring	Both	160-1521	1.801 Length, OEM # 9050142627

3 91 C.I., (1.5L), 2R Forklift **2R**
 L4 91 CID **BORE - 78mm/3.071"**

PART		PART NO.	NOTES
Valve	Int	10770	1.535 Head Diameter, OEM # 1371131012; Square Port Late
		10772	1.575 Head Diameter, OEM # 1371131030; Round Port Early
	Exh	10771	1.300 Head Diameter, OEM # 1371531012; Square Port Late
		10773	1.338 Head Diameter, OEM # 1371531030; Round Port Early
Keeper	Both	121-1023	1 SQ Bead Type, OEM # 9091303005
Guide	Both	140-8170	0.3150 I.D., 2.010 Length, 0.5530 O.D., OEM # 1112231020

4 122 C.I., (2.0L), 5R Forklift **5R**
 L4 122 CID **BORE - 88mm/3.464"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1812-5	1 ¹³ / ₁₆ O.D., 1 ¹ / ₂ I.D., ¹ / ₄ Depth, +30 O/S Available, Also Available In Non-Magnetic (N) Material
	Exh	SB1562-7	1 ⁹ / ₁₆ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth
Valve	Int	10754	1.692 Head Diameter, Late W/ 2 Round Groove Valve, OEM # 1371144012
		10756	1.689 Head Diameter, Late W/ 1 Round Groove Valve, OEM # 1371144013
	Exh	10755	1.457 Head Diameter, Late W/ 2 Round Groove Valve, OEM # 1371544010, 1371544012
		10757	1.453 Head Diameter, Late W/ 1 Round Groove Valve, OEM # 1371544013
Stem Seal	Both	122-1389	Positive Type, Viton Material, Metal Clad Style, Late, OEM # 9091302042
Guide	Both	140-8169	0.3350 I.D., 1.970 Length, 0.5530 O.D., Late, OEM # 1112240011
Spring	Both	160-1523	1.783 Length, Late, OEM # 9050144777
Lifter	Both	VL81	Mechanical Type, OEM # 1375144040

(Cont'd) TOYOTA / INDUSTRIAL**130 C.I., (2.0L), 5K Forklift**

L4 130 CID

5K **5**
BORE - 80.5mm/3.1698"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1500-56	1½ O.D., 1.275T I.D., 0.2500 Depth
	Exh	SB1250-50	1¼ O.D., 0.965T I.D., ¼ Depth
Valve	Int	10307	1.417 Head Diameter, OEM # 1371124011
	Exh	10308	1.142 Head Diameter, OEM # 1371524013
Keeper	Both	121-1023	1 SQ Bead Type, OEM # 9091303005
Stem Seal	Both	122-1088	Positive Type, Viton Material, Metal Clad Style, OEM # 9091302075
Guide	Both	140-8170	0.3150 I.D., 2.010 Length, 0.5530 O.D.

137 C.I., (2.2L), 4Y Forklift

L4 137 CID

4Y **6**
BORE - 81mm/3.189"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1687-55	1 ¹¹ / ₁₆ O.D., 1.340 I.D., 0.3150 Depth
	Exh	SB1500-58	1½ O.D., 1.200T I.D., 0.3150 Depth, Optional O/S O.D.
Valve	Int	10322	1.575 Head Diameter, OEM # 1371171010
	Exh	10323	1.417 Head Diameter, OEM # 1371571010
Stem Seal	Both	122-1127	Positive Type, Viton Material, Metal Clad Style, OEM # 9091302065
Guide	Int	140-8201	0.3160 I.D., 1.970 Length, 0.5145 O.D., W/ Snap Ring, OEM # 1112271020
	Exh	140-8202	0.3160 I.D., 2.045 Length, 0.5143 O.D., W/ Snap Ring, OEM # 1112671020
Spring	Both	160-1307	1.846 Length, OEM # 9050147005
Lifter	Both	VL519	Hydraulic Type, OEM # 1375071010
Head Saver Shim		230-2150	New Hgt. 4.390-4.410; Min. Hgt. N/A

151 C.I., (2.5L), 2J Industrial

L4 151 CID

2J **7**
BORE - 88mm/3.464"

PART		PART NO.	NOTES
Valve	Int	13068	1.594 Head Diameter, OEM # 1371148010, 1371176008
	Exh	13069	1.320 Head Diameter, OEM # 1371548010, 1371576009
Guide	Int	140-8161	0.3555 I.D., 2.365 Length, 0.5535 O.D., OEM # 1112246010
	Exh	140-8168	0.3555 I.D., 2.200 Length, 0.5540 O.D., OEM # 1112646010
Spring	Both	160-1519	1.775 Length, OEM # 9050145228

169 C.I., (2.8L), 5P Forklift

L4 169 CID

5P **8**
BORE - 93mm/3.66"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1750-9	1¾ O.D., 1 ³ / ₈ I.D., ⁵ / ₁₆ Depth
	Exh	SB1562-7	1 ⁹ / ₁₆ O.D., 1¼ I.D., ¼ Depth
Valve	Int	10768	1.732 Head Diameter, Late Style Round Groove, OEM # 1371178102
	Exh	10769	1.319 Head Diameter, Late Style Round Groove, OEM # 1371578102
Guide	Int	140-8161	0.3555 I.D., 2.365 Length, 0.5535 O.D., OEM # 1112246010
	Exh	140-8168	0.3555 I.D., 2.200 Length, 0.5540 O.D., OEM # 1112646010

218 C.I., (3.6L), 12 Valve H Industrial

L6 218 CID

H **9**
BORE - 88mm/3.464"

PART		PART NO.	NOTES
Valve	Int	10762	1.652 Head Diameter, OEM # 1371168010
	Exh	10763	1.370 Head Diameter, OEM # 1371568010
Stem Seal	Both	122-1037	Umbrella Type, Poly Material, Umbrella Style, OEM # 9091302021
Guide	Int	140-8168	0.3555 I.D., 2.200 Length, 0.5540 O.D., OEM # 1112646010
	Exh	140-8161	0.3555 I.D., 2.365 Length, 0.5535 O.D., OEM # 1112246010

TOYOTA / INDUSTRIAL (Cont'd)

9 218 C.I., (3.6L), 12 Valve H Industrial H
 (cont.) L6 218 CID BORE - 88mm/3.464"

PART		PART NO.	NOTES
Spring	Both	160-1519	1.775 Length,OEM # 9050145228

10 237 C.I., (3.9L), 12 Valve F Industrial F
 L6 237 CID BORE - 90mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-51	1 ¹⁵ / ₁₆ O.D.,1.540T I.D.,0.3150 Depth
	Exh	SB1625-58	1 ⁵ / ₈ O.D.,1.280T I.D.,0.3150 Depth
Valve	Int	10070	1.811 Head Diameter,OEM # 1371160021
	Exh	10069	1.478 Head Diameter,OEM # 1371560032
Keeper	Both	121-1028	3 RD Bead Type,OEM # 9091303012
Stem Seal	Both	122-1125	Positive Type,Viton Material,Metal Clad Style
Guide	Int	140-7532	0.3155 I.D.,2.130 Length,0.5535 O.D.,OEM # 1112261011
	Exh	140-7529	0.3160 I.D.,2.322 Length,0.5525 O.D.,OEM # 1112661011
Spring	Both	160-1025	2.000 Length,OEM # 9050145342
Push Rod	Both	190-1513	10.920 Length

11 241 C.I., (3.9L), 3F Industrial 3F
 L6 241 CID BORE - 94.031mm/3.7020"

PART		PART NO.	NOTES
Valve	Int	10070	1.811 Head Diameter,OEM # 13711-61010
	Exh	10342S	1.476 Head Diameter,Stellite Face,OEM # 13715-61040
Keeper	Both	121-1028	3 RD Bead Type,OEM # 90913-03012
Guide	Int	140-7532	0.3155 I.D.,2.130 Length,0.5535 O.D.,OEM # 11122-61011
	Exh	140-7529	0.3160 I.D.,2.322 Length,0.5525 O.D.,OEM # 11126-61011
Spring	Both	160-1025	2.000 Length,OEM # 90501-45342

12 243 C.I., (4.0L), 12 Valve 2H Industrial 2H
 L6 243 CID BORE - 91mm/3.50"

PART		PART NO.	NOTES
Valve	Int	10762	1.652 Head Diameter,OEM # 1371168010
	Exh	10763	1.370 Head Diameter,OEM # 1371568010
Guide	Int	140-8168	0.3555 I.D.,2.200 Length,0.5540 O.D.,OEM # 1112646010
	Exh	140-8161	0.3555 I.D.,2.365 Length,0.5535 O.D.,OEM # 1112246010

13 258 C.I., (4.2L), 12 Valve 2F Industrial IND-2F
 L6 258 CID BORE - 94mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1937-51	1 ¹⁵ / ₁₆ O.D.,1.540T I.D.,0.3150 Depth
	Exh	SB1625-58	1 ⁵ / ₈ O.D.,1.280T I.D.,0.3150 Depth
Valve	Int	10070	1.811 Head Diameter,OEM # 1371160021
	Exh	10069	1.478 Head Diameter,OEM # 1371560032
Keeper	Both	121-1028	3 RD Bead Type,OEM # 9091303012
Stem Seal	Both	122-1125	Positive Type,Viton Material,Metal Clad Style
Guide	Int	140-7528	0.3160 I.D.,2.765 Length,0.5645 O.D.,Early Model, OEM # 1112261011
	Exh	140-7527	0.3155 I.D.,2.360 Length,0.5645 O.D.,Early Model, OEM # 1112661011
Spring	Both	160-1025	2.000 Length,OEM # 9050145342
Push Rod	Both	190-1513	10.920 Length

VOLKSWAGEN / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
4 Cylinder		
1395cc, (1.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, CNLA "Hybrid" (2013-16)	Jetta Hybrid	1
1457cc, (1.5L), SOHC, GAS, CARB, FI, 8 Valve, EH, FX (1978-80)	Rabbit, Scirocco	2
1471cc, (1.5L), SOHC, GAS, CARB, FC, FG, XR, XS, XV, XW, XY, XZ (1974-75)	Dasher, Rabbit, Scirocco	3
1471cc, (1.5L), SOHC, DIESEL, FI, 8 Valve, CK (1977-80)	Dasher, Rabbit	4
1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, EE, EJ, YG, YH, YK (1976-80)	Dasher, Jetta, Rabbit, Rabbit Convertible, Scirocco	5
1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin F, G, H, CR, CS, IV, JK, ME (1981-92)	Dasher, Golf, Jetta, Rabbit, Vanagon	6
1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin H, CY, MD, MF "TURBO" (1983-86)	Jetta, Quantum	7
1715cc, (1.7L), SOHC, GAS, CARB, FI, 8 Valve, Vin A, B, EN, JF, WT (1981-84)	Jetta, Quantum, Rabbit, Rabbit Convertible, Rabbit Pickup, Scirocco	8
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, JH (1983-89)	Cabriolet, Jetta, Rabbit, Rabbit Convertible, Scirocco	9
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, K, GX, JN, PF, RV, UM (1984-92)	Fox, Golf, Jetta, Quantum	10
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, HT (1985-86)	Golf, Jetta	11
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, RD (1985-88)	Golf, Jetta	12
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, K, 2H, ABG, PF (1987-92)	Cabriolet, Fox, Golf, Jetta	13
1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, C, PG "Supercharged" (1990-92)	Corrado	14
1780cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin B, C, "PL" (1987-89)	Golf, Jetta, Scirocco	15
1781cc, (1.8L), DOHC, GAS, FI, 20 Valve, AEB, APH, ATW, AUG, AWD, AWM, AWP, AWV, AWW, BKF (1998-06)	Beetle, Golf, Jetta, Passat	16
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, "CPKA Turbo" (2014-17)	Beetle, Jetta, Passat	17
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, "CPRA Turbo" (2014-17)	Beetle, Jetta, Passat	18
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CNSA (2015-16)	Golf	19
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CNSB (2015-16)	Golf	20
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CXBA (2015-17)	Golf, Golf SportWagen	21
1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CXBB (2015-17)	Golf, Golf Alltrack, Golf SportWagen	22
1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, Vin G, 1Z (1996-97)	Passat	23
1896cc, (1.9L), SOHC, DIESEL, FI, Vin F, G, J, AHU "TDI" (1997-99)	Golf, Jetta, Passat	24
1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, Vin F, ALH "TDI" (1998-04)	Beetle, Golf, Jetta	25
1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, BEW "TDI" (2004-06)	Beetle, Golf, Jetta	26
1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, BRM "TDI" (2005-06)	Jetta	27

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1915cc, (1.9L), OHV, GAS, FI, 8 Valve, Vin B, "DH" (1983-85)	Transporter, Vanagon	28
1967cc, (2.0L), SOHC, DIESEL, FI, 8 Valve, BHW (2004-05)	Passat	29
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CBEA "TDI" (2009-09)	Jetta	30
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CJAA "TDI" (2010-14)	Beetle, Golf, Jetta	31
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CKRA "TDI" (2012-14)	Passat	32
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CRUA "TDI" (2015-15)	Golf, Golf SportWagen	33
1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CVCA (2015-15)	Beetle, Jetta, Passat	34
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, C, E, J, "9A" (1990-93)	Golf, Jetta, Passat	35
1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, L, R, "ABA" (1993-02)	Cabrio, Golf, Jetta, Passat	36
1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin B, AEG, AVH, BBW, BDC, BEV, BGD (1998-06)	Beetle, Golf, Jetta	37
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, BPY "TURBO" (2006-09)	Eos, GTI, Jetta, Passat	38
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CBFA "Turbo" (2008-17)	Beetle, CC, Eos, Golf, GTI, Jetta, Passat	39
1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, CBPA (2011-15)	Jetta	40
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CCTA (2008-16)	Beetle, CC, Eos, Golf, GTI, Jetta, Passat, Passat CC, Tiguan	41
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CPLA "Direct Injected Turbo" (2013-17)	Beetle, Jetta	42
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CPPA "Direct Injected Turbo" (2014-16)	Beetle, Jetta	43
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CRZA "Turbo" (2012-13)	Golf	44
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CXCA (2015-16)	GTI	45
1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYFB (2015-16)	Golf R	46
2109cc, (2.1L), OHV, GAS, FI, Vin B, "MV" (1986-91)	Transporter, Vanagon	47
5 Cylinder		
2226cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin B, E, JT, KX (1985-88)	Quantum	48
2459cc, (2.5L), SOHC, GAS, FI, 10 Valve, Vin C, D, E, AAF, ACU (1993-95)	EuroVan	49
2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, BGP, BGQ, BPR, BPS (2005-10)	Beetle, Jetta, Rabbit	50
2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin M, CBTA (2008-14)	Beetle, Golf, Jetta, Passat, Rabbit	51
2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin Z, CBUA (2008-14)	Beetle, Golf, Jetta, Passat, Rabbit	52
6 Cylinder		
2771cc, (2.8L), DOHC, GAS, FI, 30 Valve, Vin A, D, H, AHA, ATQ (1998-05)	Passat	53
2792cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin D, E, F, AAA, AFP "VR6" (1992-01)	Corrado, Golf, Jetta, Passat	54

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK

Engine	Models	Line No.
6 Cylinder		
2792cc, (2.8L), DOHC, GAS, FI, 24 Valve, BDF (2002-05) . . .	Golf, Jetta	55
2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CATA "TDI" (2009-12)	Touareg	56
2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CNRB "TDI" (2013-16)	Touareg	57
2995cc, (3.0L), DOHC, ELECTRIC/GAS, FI, 24 Valve, CGFA "Supercharged" (2011-15)	Touareg	58
3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, BAA, BJS, BMX, BUB (2004-08)	Eos, Golf, Touareg	59
3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, BLV (2006-11) . . .	CC, Passat, Passat CC	60
3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, BHK (2007-10) . .	Touareg	61
3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, CDVB (2012-16) .	Passat	62
3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, CGRA (2011-16) .	Touareg	63
3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, CNNA (2012-16) .	CC	64
8 Cylinder		
4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BAR (2007-09) . .	Touareg	65
4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, AXQ, BGH (2004-07)	Phaeton, Touareg	66
10 Cylinder		
4921cc, (5.0L), SOHC, DIESEL, FI, 20 Valve, BKW, BWF "TDI" (2005-08)	Touareg	67

1395cc, (1.4L), DOHC, ELECTRIC/GAS, FI, 16 Valve, CNLA "Hybrid" VKW1.4-CNLA 1
2013-16 L4 85 CID BORE - 74.5mm/2.93"

PART	YEARS	PART NO.	NOTES
Lifter	Both	2013-16	VL569 Hydraulic Lash Adjuster Type

1457cc, (1.5L), SOHC, GAS, CARB, FI, 8 Valve, EH, FX VKW1457 2
1978-80 L4 90 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1978-80	SB1437-50 17/16 O.D.,1.140T I.D.,0.3050 Depth
	Exh	1978-80	SB1312-50 15/16 O.D.,1.086T I.D.,0.3050 Depth
		1978-80	SB1312-56 15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Keeper	Both	1978-80	121-1020 1 RD Bead Type
Stem Seal	Both	1978-80	122-1089 Positive Type,Viton Material,Metal Clad Style
Guide	Both	1978-80	140-7359 0.3155 I.D.,1.435 Length,0.4765 O.D.
Spring	Both	1978-80	160-1028 1.540 Length,Outer
		1978-80	160-1029 1.390 Length,Inner

1471cc, (1.5L), SOHC, GAS, CARB, FC, FG, XR, XS, XV, XW, XY, XZ VKW1471 3
1974-75 L4 90 CID BORE - 76.5mm/3.01"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1974-75	SB1437-50 17/16 O.D.,1.140T I.D.,0.3050 Depth
	Exh	1974-75	SB1312-50 15/16 O.D.,1.086T I.D.,0.3050 Depth
		1974-75	SB1312-56 15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Keeper	Both	1974-75	121-1020 1 RD Bead Type
Stem Seal	Both	1974-75	122-1089 Positive Type,Viton Material,Metal Clad Style
Guide	Both	1974-75	140-7359 0.3155 I.D.,1.435 Length,0.4765 O.D.
Spring	Both	1974-75	160-1028 1.540 Length,Outer

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

3 1471cc, (1.5L), SOHC, GAS, CARB, FC, FG, XR, XS, XV, XW, XY, XZ VKW1471
(cont.) 1974-75 L4 90 CID BORE - 76.5mm/3.01"

PART	YEARS	PART NO.	NOTES
Spring	Both 1974-75	160-1029	1.390 Length,Inner

4 1471cc, (1.5L), SOHC, DIESEL, FI, 8 Valve, CK CK
1977-80 L4 90 CID BORE - 76.5mm/3.01"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1977-80 Exh 1977-80 1977-80	SB1437-50 SB1312-50 SB1312-56	1 ⁷ / ₁₆ O.D.,1.140T I.D.,0.3050 Depth 1 ⁵ / ₁₆ O.D.,1.086T I.D.,0.3050 Depth 1 ⁵ / ₁₆ O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Keeper	Both 1977-80	121-1020	1 RD Bead Type
Stem Seal	Both 1977-80	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1977-80	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
Spring	Both 1977-80 1977-80	160-1028 160-1029	1.540 Length,Outer 1.390 Length,Inner

5 1588cc, (1.6L), SOHC, GAS, FI, 8 Valve, EE, EJ, YG, YH, YK 1.6-EY
1976-80 L4 97 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1976-80 Exh 1976-80 1976-80	SB1437-50 SB1312-50 SB1312-56	1 ⁷ / ₁₆ O.D.,1.140T I.D.,0.3050 Depth 1 ⁵ / ₁₆ O.D.,1.086T I.D.,0.3050 Depth 1 ⁵ / ₁₆ O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Keeper	Both 1976-80	121-1020	1 RD Bead Type
Stem Seal	Both 1976-80	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1976-80	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
Spring	Both 1976-80 1976-80	160-1028 160-1029	1.540 Length,Outer 1.390 Length,Inner

6 1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin F, G, H, CR, CS, IV, JK, ME VKW1.6D
1981-92 L4 97 CID BORE - 75.2mm/3.13"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1981-92 Exh 1981-92 1981-92	SB1437-50 SB1312-50 SB1312-56	1 ⁷ / ₁₆ O.D.,1.140T I.D.,0.3050 Depth 1 ⁵ / ₁₆ O.D.,1.086T I.D.,0.3050 Depth 1 ⁵ / ₁₆ O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Valve	Int 1981-85 Exh 1981-85	10367 10370S	1.337 Head Diameter,4.126 Overall Length, 3 Groove 1.227 Head Diameter,Stellite Face,4.118 Overall Length, 3 Groove
Keeper	Both 1981-85 1981-92	121-1020 121-1024	1 RD Bead Type 3 RD Bead Type
Stem Seal	Both 1981-92	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both 1981-92	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
Spring	Both 1981-92 1981-92	160-1028 160-1029	1.540 Length,Outer 1.390 Length,Inner
Lifter	Both 1986-92	VL116	Hydraulic Bucket Type

7 1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin H, CY, MD, MF "TURBO" VKW1.6TD
1983-86 L4 97 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES
Valve	Int 1983-86 Exh 1983-86	10367 10370S	1.337 Head Diameter,4.126 Overall Length, 3 Groove 1.227 Head Diameter,Stellite Face,4.118 Overall Length, 3 Groove
Keeper	Both 1983-86	121-1024	3 RD Bead Type

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK

1588cc, (1.6L), SOHC, DIESEL, FI, 8 Valve, Vin H, CY, MD, MF "TURBO" VKW1.6TD 7
 1983-86 L4 97 CID BORE - 79.5mm/3.13" (cont.)

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1983-86 122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1983-86 140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.

1715cc, (1.7L), SOHC, GAS, CARB, FI, 8 Valve, Vin A, B, EN, JF, WT VKW1.7 8
 1981-84 L4 105 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1981-84 1981-84 1981-84	SB1437-50 SB1312-50 SB1312-56	17/16 O.D.,1.140T I.D.,0.3050 Depth 15/16 O.D.,1.086T I.D.,0.3050 Depth 15/16 O.D.,1.086 I.D.,0.3050 Depth,Optional Straight I.D.
Keeper	Both	1981-84 1981-84	121-1020 121-1024	1 RD Bead Type 3 RD Bead Type
Stem Seal	Both	1981-84	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1981-84	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.,Exc. 1982-84 Exh.
Spring	Both	1981-84 1981-84	160-1028 160-1029	1.540 Length,Outer 1.390 Length,Inner

1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, JH VKW1.8-SC8V_JH 9
 1983-89 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1983-89 1983-89	SB1625-50 SB1375-55	15/16 O.D.,1.340T I.D.,0.3070 Depth 13/16 O.D.,1.120 I.D.,0.3250 Depth
Keeper	Both	1983-89	121-1024	3 RD Bead Type
Stem Seal	Both	1983-89	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1983-89	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
Spring	Both	1983-89 1983-89	160-1028 160-1029	1.540 Length,Inner 1.390 Length,Outer
Lifter	Both	1983-89	VL116	Hydraulic Bucket Type
Head Saver Shim		1983-89	230-2047	New Hgt.- 5.2380; Min. Hgt.- 5.2150

1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, K, GX, JN, PF, RV, UM VKW1.8-SC8V_GX 10
 1984-92 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1984-92 1984-92	SB1625-50 SB1375-55	15/16 O.D.,1.340T I.D.,0.3070 Depth 13/16 O.D.,1.120 I.D.,0.3250 Depth
Valve	Exh	1984-92	10356S	1.299 Head Diameter,Stellite Face,3.591 Overall Length
Keeper	Both	1984-92	121-1024	3 RD Bead Type
Stem Seal	Both	1984-92	122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1984-92	140-7359	0.3155 I.D.,1.435 Length,0.4765 O.D.
Spring	Both	1984-92 1984-92	160-1028 160-1029	1.540 Length,Outer 1.390 Length,Inner
Lifter	Both	1984-92	VL116	Hydraulic Bucket Type
Head Saver Shim		1984-92	230-2047	New Hgt.- 5.2380; Min. Hgt.- 5.2150

1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, HT VKW1.8-SC8V_HT 11
 1985-86 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int Exh	1985-86 1985-86	SB1625-50 SB1375-55	15/16 O.D.,1.340T I.D.,0.3070 Depth 13/16 O.D.,1.120 I.D.,0.3250 Depth

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

11 1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, HT VKW1.8-SC8V_HT
 (cont.) 1985-86 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve	Exh	1985-86 10356S	1.299 Head Diameter,Stellite Face,3.591 Overall Length
Keeper	Both	1985-86 121-1024	3 RD Bead Type
Stem Seal	Both	1985-86 122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1985-86 140-7359	0.3155 I.D., 1.435 Length,0.4765 O.D.
Spring	Both	1985-86 1985-86 160-1028 160-1029	1.540 Length,Inner 1.390 Length,Outer
Lifter	Both	1985-86 VL116	Hydraulic Bucket Type
Head Saver Shim		1985-86 230-2047	New Hgt.- 5.2380; Min. Hgt.- 5.2150

12 1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, RD VKW1.8-SC8V_RD
 1985-88 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1985-88 SB1625-50	1 $\frac{5}{8}$ O.D., 1.340T I.D.,0.3070 Depth
	Exh	1985-88 SB1375-55	1 $\frac{5}{8}$ O.D., 1.120 I.D.,0.3250 Depth
Keeper	Both	1985-88 121-1024	3 RD Bead Type
Stem Seal	Both	1985-88 122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1985-88 140-7359	0.3155 I.D., 1.435 Length,0.4765 O.D.
Spring	Both	1985-88 1985-88 160-1028 160-1029	1.540 Length,Inner 1.390 Length,Outer
Lifter	Both	1985-88 VL116	Hydraulic Bucket Type
Head Saver Shim		1985-88 230-2047	New Hgt.- 5.2380; Min. Hgt.- 5.2150

13 1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, K, 2H, ABG, PF VKW1.8-SC8V_2H
 1987-92 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-92 SB1625-50	1 $\frac{5}{8}$ O.D., 1.340T I.D.,0.3070 Depth
	Exh	1987-92 SB1375-55	1 $\frac{5}{8}$ O.D., 1.120 I.D.,0.3250 Depth
Valve	Int	1987-92 10158S	1.555 Head Diameter,Stellite Face,3.618 Overall Length
	Exh	1987-92 10356S	1.299 Head Diameter,Stellite Face,3.591 Overall Length
Keeper	Both	1987-92 121-1024	3 RD Bead Type
Stem Seal	Both	1987-92 122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1987-92 140-7359	0.3155 I.D., 1.435 Length,0.4765 O.D.
Spring	Exh	1987-92 160-1029	1.390 Length,Outer
	Both	1987-92 160-1028	1.540 Length,Inner
Lifter	Both	1987-92 VL116	Hydraulic Bucket Type
Head Saver Shim		1987-92 230-2047	New Hgt.- 5.2380; Min. Hgt.- 5.2150

14 1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, C, PG "Supercharged" VKW1.8-SC8V_PG
 1990-92 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-92 SB1625-50	1 $\frac{5}{8}$ O.D., 1.340T I.D.,0.3070 Depth
	Exh	1990-92 SB1375-55	1 $\frac{5}{8}$ O.D., 1.120 I.D.,0.3250 Depth
Valve	Int	1990-92 10158S	1.555 Head Diameter,Stellite Face,3.618 Overall Length
Keeper	Both	1990-92 121-1024	3 RD Bead Type
Stem Seal	Both	1990-92 122-1089	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1990-92 140-7359	0.3155 I.D., 1.435 Length,0.4765 O.D.
Spring	Both	1990-92 160-1028	1.540 Length,Inner

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK

1780cc, (1.8L), SOHC, GAS, FI, 8 Valve, Vin B, C, PG "Supercharged" VKW1.8-SC8V_PG 14
 1990-92 L4 109 CID BORE - 81mm/3.19" (cont.)

PART	YEARS	PART NO.	NOTES
Spring	Both	1990-92 160-1029	1.390 Length,Outer
Lifter	Both	1990-92 VL116	Hydraulic Bucket Type
Head Saver Shim		1990-92 230-2047	New Hgt.- 5.2380; Min. Hgt.- 5.2150

1780cc, (1.8L), DOHC, GAS, FI, 16 Valve, Vin B, C, "PL" VKW1.8-DC 15
 1987-89 L4 109 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1987-89 SB1312-64	1 $\frac{5}{16}$ O.D.,1.045 I.D.,0.3160 Depth
	Exh	1987-89 SB1125-54	1 $\frac{1}{8}$ O.D.,0.900 I.D.,0.3250 Depth
Stem Seal	Both	1987-89 122-1250	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1987-89 140-8139	0.2765 I.D.,1.488 Length,0.4763 O.D.
		1987-89 340-1018BR	0.2756 I.D.,1.495 Length,0.4750 O.D.,Optional Bronze Guide
Lifter	Both	1987-89 VL116	Hydraulic Bucket Type
Head Saver Shim		1987-89 230-2047	New Hgt.- 5.2380; Min. Hgt.- 5.2150

1781cc, (1.8L), DOHC, GAS, FI, 20 Valve, AEB, APH, ATW, AUG, AWD, AWM, AWP, AWV, AWW, BKF 16
 1998-06 L4 109 CID 1.8-DCT20V BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1998-06 SB1125-53	1 $\frac{1}{8}$ O.D.,0.890T I.D.,0.2370 Depth,NOTE: Seat May Need To Be Machined .020"-0.030" To Achieve Correct Depth
	Exh	1998-06 SB1250-54	1 $\frac{1}{4}$ O.D.,1.010T I.D.,0.2570 Depth,NOTE: Seat May Need To Be Machined .020"-0.030" To Achieve Correct Depth
Valve	Int	1998-06 10804S	1.059 Head Diameter,Stellite Face
	Exh	1998-06 10805S	1.177 Head Diameter,Stellite Face,W/.222 Tip To Groove Length, OEM # 058109611E
Keeper	Both	1998-06 121-1098	3 RD Bead Type
Stem Seal	Both	1998-06 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1998-06 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Spring	Int	1998-06 160-1471	1.615 Length
	Exh	1998-06 160-1472	1.725 Length
Lifter	Int	1998-06 VL523	Hydraulic Bucket Type
	Exh	1998-06 VL524	Hydraulic Bucket Type
Head Bolt Set		2000-06 220-1120	Torque To Yield,Services Engine
Head Saver Shim		1998-06 230-2138	New Hgt. - N/A - Min. Hgt. - 5.480"

1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, "CPKA Turbo" 1.8DCT-CPKA 17
 2014-17 L4 110 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-16 121-1098	3 RD Bead Type
Stem Seal	Both	2014-16 122-1363	Positive Type,Viton Material,Metal Clad Style

1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, "CPRA Turbo" 1.8DCT-CPRA 18
 2014-17 L4 110 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-16 121-1098	3 RD Bead Type
Stem Seal	Both	2014-16 122-1363	Positive Type,Viton Material,Metal Clad Style

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

19 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CNSA VKW1.8-CNSA
 2015-16 L4 110 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-15	121-1098	3 RD Bead Type

20 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CNSB VKW1.8-CNSB
 2015-16 L4 110 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-15	121-1098	3 RD Bead Type

21 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CXBA VKW1.8-CXBA
 2015-17 L4 110 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-16	121-1098	3 RD Bead Type

22 1798cc, (1.8L), DOHC, GAS, FI, 16 Valve, CXBB VKW1.8-CXBB
 2015-17 L4 110 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-16	121-1098	3 RD Bead Type

23 1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, Vin G, 1Z 1.9-1Z
 1996-97 L4 116 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	1996-97 1996-97	10731 10732S	1.415 Head Diameter,7mm Stem Dia., NOTE: W/ 3.813 Length 1.238 Head Diameter,Stellite Face,7mm Stem Dia., NOTE: W/ 3.813 Length
Keeper	Both	1996-97	121-1128	3 RD Bead Type,W/ 7mm Stem Dia.
Stem Seal	Both	1996-97	122-1250	Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.
Guide	Both	1996-97 1996-97	140-8139 340-1018BR	0.2765 I.D.,1.488 Length,0.4763 O.D.,W/ 7mm Stem Dia. 0.2756 I.D.,1.495 Length,0.4750 O.D.,W/ 7mm Stem Dia., Optional Bronze Guide
Spring	Both	1996-97	160-1471	1.615 Length,Inner Only

24 1896cc, (1.9L), SOHC, DIESEL, FI, Vin F, G, J, AHU "TDI" VKW1.9-TDI-AHU
 1997-99 L4 116 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	1997-99 1997-99	10731 10732S	1.415 Head Diameter,7mm Stem Dia., NOTE: W/ 3.813 Length 1.238 Head Diameter,Stellite Face,7mm Stem Dia., NOTE: W/ 3.813 Length
Keeper	Both	1997-99	121-1128	3 RD Bead Type,W/ 7mm Stem Dia.
Stem Seal	Both	1997-99	122-1250	Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.
Guide	Both	1997-99 1997-99	140-8139 340-1018BR	0.2765 I.D.,1.488 Length,0.4763 O.D.,W/ 7mm Stem Dia. 0.2756 I.D.,1.495 Length,0.4750 O.D.,W/ 7mm Stem Dia., Optional Bronze Guide
Spring	Both	1997-98	160-1471	1.615 Length,Inner Only

25 1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, Vin F, ALH "TDI" VKW1.9-TDI-ALH
 1998-04 L4 116 CID BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES	
Valve	Int Exh	1998-03 2004-04 1998-03	10731 13174 10732S	1.415 Head Diameter,7mm Stem Dia., NOTE: W/ 3.813 Length 1.398 Head Diameter,7mm Stem Dia., NOTE: W/ 3.497 Length 1.238 Head Diameter,Stellite Face,7mm Stem Dia., NOTE: W/ 3.813 Length

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK**1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, Vin F, ALH "TDI"**
1998-04 L4 116 CID**VKW1.9-TDI-ALH 25**
BORE - 79.5mm/3.13" (cont.)

PART	YEARS	PART NO.	NOTES
Valve	Exh 2004-04	13175S	1.238 Head Diameter,Stellite Face,7mm Stem Dia., NOTE: W/ 3.480 Length
Keeper	Both 1998-04	121-1128	3 RD Bead Type,W/ 7mm Stem Dia.
Stem Seal	Both 1998-04	122-1250	Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.
Guide	Both 1998-04 1998-04	140-8139 340-1018BR	0.2765 I.D.,1.488 Length,0.4763 O.D.,W/ 7mm Stem Dia. 0.2756 I.D.,1.495 Length,0.4750 O.D.,W/ 7mm Stem Dia., Optional Bronze Guide

1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, BEW "TDI"
2004-06 L4 116 CID**VKW1.9-TDI-BEW 26**
BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES
Valve	Int 2004-06 2004-06 Exh 2004-06 2004-06	10731 13174 10732S 13175S	1.415 Head Diameter,7mm Stem Dia., NOTE: W/ 3.813 Length 1.398 Head Diameter,7mm Stem Dia., NOTE: W/ 3.497 Length 1.238 Head Diameter,Stellite Face,7mm Stem Dia., NOTE: W/ 3.813 Length 1.238 Head Diameter,Stellite Face,7mm Stem Dia., NOTE: W/ 3.480 Length
Keeper	Both 2004-06	121-1128	3 RD Bead Type,W/ 7mm Stem Dia.
Stem Seal	Both 2004-06	122-1250	Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.
Guide	Both 2004-06 2004-06	140-8139 340-1018BR	0.2765 I.D.,1.488 Length,0.4763 O.D.,W/ 7mm Stem Dia. 0.2756 I.D.,1.495 Length,0.4750 O.D.,W/ 7mm Stem Dia., Optional Bronze Guide

1896cc, (1.9L), SOHC, DIESEL, FI, 8 Valve, BRM "TDI"
2005-06 L4 116 CID**VKW1.9-TDI-BRM 27**
BORE - 79.5mm/3.13"

PART	YEARS	PART NO.	NOTES
Valve	Int 2005-06 Exh 2005-06	13337 13338S	1.415 Head Diameter 1.238 Head Diameter,Stellite Face,NOTE: W/3.504 Length
Keeper	Both 2005-06	121-1128	3 RD Bead Type,W/ 7mm Stem Dia.
Stem Seal	Both 2005-06	122-1250	Positive Type,Viton Material,Metal Clad Style,W/ 7mm Stem Dia.

1915cc, (1.9L), OHV, GAS, FI, 8 Valve, Vin B, "DH"
1983-85 H4 117 CID**DH 28**
BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int 1983-85 Exh 1983-85	SB1625-50 SB1437-61	1 $\frac{5}{8}$ O.D.,1.340T I.D.,0.3070 Depth 1 $\frac{7}{16}$ O.D.,1.162 I.D.,0.3100 Depth
Valve	Int 1983-85 Exh 1983-85	10348 10349S	1.570 Head Diameter 1.334 Head Diameter,Stellite Face
Keeper	Both 1983-85	121-1024	3 RD Bead Type

1967cc, (2.0L), SOHC, DIESEL, FI, 8 Valve, BHW
2004-05 L4 120 CID**2.0-BHW 29**
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve	Int 2004-05 Exh 2004-05	13337 13338S	1.415 Head Diameter 1.238 Head Diameter,Stellite Face,NOTE: W/3.504 Length
Keeper	Both 2004-05	121-1128	3 RD Bead Type
Stem Seal	Both 2004-05	122-1250	Positive Type,Viton Material,Metal Clad Style

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

30 1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CBEA "TDI" 2.0-CBEA
 2009-09 L4 120 CID BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2009-09	121-1098	3 RD Bead Type
Stem Seal	Both	2009-09	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2009-09	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

31 1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CJAA "TDI" 2.0-CJAA
 2010-14 L4 120 CID BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2010-14	121-1098	3 RD Bead Type
Stem Seal	Both	2010-14	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2010-14	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

32 1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CKRA "TDI" 2.0-CKRA
 2012-14 L4 120 CID BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2012-14	121-1098	3 RD Bead Type
Stem Seal	Both	2012-14	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-14	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

33 1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CRUA "TDI" VKW2.0-CRUA
 2015-15 L4 120 CID BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2015-15	121-1098	3 RD Bead Type
Stem Seal	Both	2015-15	122-1363	Positive Type,Viton Material,Metal Clad Style

34 1968cc, (2.0L), DOHC, DIESEL, FI, 16 Valve, CVCA VKW2.0-CVCA
 2015-15 L4 120 CID BORE - 81mm/3.19"

PART		YEARS	PART NO.	NOTES
Keeper	Both	2015-15	121-1098	3 RD Bead Type
Stem Seal	Both	2015-15	122-1363	Positive Type,Viton Material,Metal Clad Style

35 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, Vin B, C, E, J, "9A" 9A
 1990-93 L4 121 CID BORE - 82.5mm/3.25"

PART		YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1990-93	SB1312-64	1 $\frac{5}{16}$ O.D.,1.045 I.D.,0.3160 Depth
	Exh	1990-93	SB1125-54	1 $\frac{1}{8}$ O.D.,0.900 I.D.,0.3250 Depth
Stem Seal	Both	1990-93	122-1250	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1990-93	140-8139	0.2765 I.D.,1.488 Length,0.4763 O.D.
		1990-93	340-1018BR	0.2756 I.D.,1.495 Length,0.4750 O.D.,Optional Bronze Guide
Lifter	Both	1990-93	VL116	Hydraulic Bucket Type

36 1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, L, R, "ABA" ABA
 1993-02 L4 121 CID BORE - 82.5mm/3.25"

PART		YEARS	PART NO.	NOTES
Valve	Int	1993-95	10554S	1.555 Head Diameter,Stellite Face,0.156 Tip To Groove
		1996-02	10733	1.555 Head Diameter,0.135 Tip To Groove
	Exh	1993-95	10555S	1.295 Head Diameter,Stellite Face,0.126 Tip To Groove
		1996-02	10734S	1.295 Head Diameter,Stellite Face,0.108 Tip To Groove
Keeper	Both	1993-02	121-1128	3 RD Bead Type
Stem Seal	Both	1993-02	122-1250	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1993-02	140-8558	0.2765 I.D.,1.435 Length,0.4763 O.D.

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK

1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin A, B, C, L, R, "ABA" ABA **36**
 1993-02 L4 121 CID BORE - 82.5mm/3.25" (cont.)

PART	YEARS	PART NO.	NOTES
Lifter	Both	1993-02 VL116	Hydraulic Bucket Type

1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, Vin B, AEG, AVH, BBW, BDC, BEV, BGD **37**
 1998-06 L4 121 CID VKW2.0-SC8V BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Valve	Int	1998-06 10733	1.555 Head Diameter,0.135 Tip To Groove
	Exh	1998-06 10734S	1.295 Head Diameter,Stellite Face,0.108 Tip To Groove
Keeper	Both	1998-06 121-1128	3 RD Bead Type
Stem Seal	Both	1998-06 122-1250	Positive Type,Viton Material,Metal Clad Style
Guide	Both	1998-06 140-8558	0.2765 I.D.,1.435 Length,0.4763 O.D.
Lifter	Both	1998-06 VL116	Hydraulic Bucket Type
Head Bolt Set		1998-06 220-1108	Torque To Yield,Services Engine

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, BPY "TURBO" VKW2.0-DCT16V **38**
 2006-09 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES
Valve	Int	2006-09 13315S	1.333 Head Diameter,Stellite Face
	Exh	2006-09 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2006-09 121-1098	3 RD Bead Type
Stem Seal	Both	2006-09 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2006-09 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2006-09 VL569	Hydraulic Lash Adjuster Type
Head Bolt Set		2006-09 220-1108	Torque To Yield,Services Engine

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CBFA "Turbo" 2.0-CBFA **39**
 2008-17 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES
Valve	Int	2008-16 13315S	1.333 Head Diameter,Stellite Face
	Exh	2008-16 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2008-16 121-1098	3 RD Bead Type
Stem Seal	Both	2008-16 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-16 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2008-16 VL569	Hydraulic Lash Adjuster Type

1984cc, (2.0L), SOHC, GAS, FI, 8 Valve, CBPA 2.0-CBPA **40**
 2011-15 L4 121 CID BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2011-15 121-1128	3 RD Bead Type
Stem Seal	Both	2011-15 122-1250	Positive Type,Viton Material,Metal Clad Style

1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CCTA 2.0-CCTA **41**
 2008-16 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES
Valve	Int	2008-16 13315S	1.333 Head Diameter,Stellite Face
	Exh	2008-16 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2008-16 121-1098	3 RD Bead Type
Stem Seal	Both	2008-16 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2008-16 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

41 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CCTA 2.0-CCTA
(cont.) 2008-16 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES
Lifter	Both	2008-16 VL569	Hydraulic Lash Adjuster Type

42 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CPLA "Direct Injected Turbo" 2.0-CPLA
2013-17 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES
Valve	Int	2013-13 13315S	1.333 Head Diameter,Stellite Face
	Exh	2013-13 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2013-16 121-1098	3 RD Bead Type
Stem Seal	Both	2013-16 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-16 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2013-13 VL569	Hydraulic Lash Adjuster Type

43 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CPPA "Direct Injected Turbo" 2.0-CPPA
2014-16 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2014-16 121-1098	3 RD Bead Type
Stem Seal	Both	2014-16 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2014-16 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

44 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CRZA "Turbo" 2.0-CRZA
2012-13 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES
Valve	Int	2012-13 13315S	1.333 Head Diameter,Stellite Face
	Exh	2012-13 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2012-13 121-1098	3 RD Bead Type
Stem Seal	Both	2012-13 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-13 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2012-13 VL569	Hydraulic Lash Adjuster Type

45 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CXCA VKW2.0-CXCA
2015-16 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2015-16 121-1098	3 RD Bead Type

46 1984cc, (2.0L), DOHC, GAS, FI, 16 Valve, CYFB VKW2.0-CYFB
2015-16 L4 121 CID BORE - 82.6mm/3.25"

PART	YEARS	PART NO.	NOTES
Valve	Exh	2015-16 13318	1.102 Head Diameter
Keeper	Both	2015-16 121-1098	3 RD Bead Type
Stem Seal	Both	2015-16 122-1363	Positive Type,Viton Material,Metal Clad Style

47 2109cc, (2.1L), OHV, GAS, FI, Vin B, "MV" MV
1986-91 H4 129 CID BORE - 94mm/3.70"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1986-91 SB1625-50	1 $\frac{5}{8}$ O.D.,1.340T I.D.,0.3070 Depth
	Exh	1986-91 SB1437-61	1 $\frac{7}{16}$ O.D.,1.162 I.D.,0.3100 Depth
Valve	Int	1986-91 10348	1.570 Head Diameter
	Exh	1986-91 10349S	1.334 Head Diameter,Stellite Face
Keeper	Both	1986-91 121-1024	3 RD Bead Type

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK**2226cc, (2.2L), SOHC, GAS, FI, 10 Valve, Vin B, E, JT, KX**
1985-88 L5 136 CIDVKW2.2 **48**
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-88	SB1625-50	1% O.D., 1.340T I.D., 0.3070 Depth
	Exh	1985-88	SB1375-55	1% O.D., 1.120 I.D., 0.3250 Depth
Valve	Exh	1985-88	10356S	1.299 Head Diameter, Stellite Face
Keeper	Both	1985-88	121-1024	3 RD Bead Type
Stem Seal	Both	1985-88	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Int	1985-88	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
Lifter	Both	1985-88	VL116	Hydraulic Bucket Type

2459cc, (2.5L), SOHC, GAS, FI, 10 Valve, Vin C, D, E, AAF, ACU
1993-95 L5 150 CIDAAF **49**
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve	Int	1993-95	10158S	1.555 Head Diameter, Stellite Face
	Exh	1993-95	10356S	1.299 Head Diameter, Stellite Face
Keeper	Both	1993-95	121-1024	3 RD Bead Type
Stem Seal	Both	1993-95	122-1089	Positive Type, Viton Material, Metal Clad Style
Guide	Both	1993-95	140-7359	0.3155 I.D., 1.435 Length, 0.4765 O.D.
Lifter	Both	1993-95	VL116	Hydraulic Bucket Type

2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, BGP, BGQ, BPR, BPS
2005-10 L5 151 CIDVKW2.5-DC20V **50**
BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2005-10	13317	1.276 Head Diameter
	Exh	2005-10	13318	1.102 Head Diameter
Keeper	Both	2005-10	121-1098	3 RD Bead Type
Stem Seal	Both	2005-10	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2005-10	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2005-10	VL569	Hydraulic Lash Adjuster Type

2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin M, CBTA
2008-14 L5 151 CID2.5-CBTA **51**
BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-14	13317	1.276 Head Diameter
	Exh	2008-14	13318	1.102 Head Diameter
Keeper	Both	2008-14	121-1098	3 RD Bead Type
Stem Seal	Both	2008-14	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2008-14	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2008-14	VL569	Hydraulic Lash Adjuster Type

2480cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin Z, CBUA
2008-14 L5 151 CID2.5-CBUA **52**
BORE - 82.5mm/3.25"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2008-14	13317	1.276 Head Diameter
	Exh	2008-14	13318	1.102 Head Diameter
Keeper	Both	2008-14	121-1098	3 RD Bead Type
Stem Seal	Both	2008-14	122-1363	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2008-14	140-3159BR	0.2362 I.D., 1.415 Length, 0.4355 O.D.
Lifter	Both	2008-14	VL569	Hydraulic Lash Adjuster Type

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

53 2771cc, (2.8L), DOHC, GAS, FI, 30 Valve, Vin A, D, H, AHA, ATQ VKW2.8-AHA_ATQ
 1998-05 V6 170 CID BORE - 82.5mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1998-05	SB1125-53 1 1/8 O.D., 0.890T I.D., 0.2370 Depth, NOTE: Seat May Need To Be Machined .020"-.030" To Achieve Correct Depth
	Exh	1998-05	
Valve	Int	1998-05	10804S 1.059 Head Diameter, Stellite Face
	Exh	1998-05	10803S 1.177 Head Diameter, Stellite Face, W/.157 Tip To Groove Length, OEM # 05810961M
		1998-05	10805S 1.177 Head Diameter, Stellite Face, W/.222 Tip To Groove Length, OEM # 05810961E
Keeper	Both	1998-05	121-1098 3 RD Bead Type
Stem Seal	Both	1998-05	122-1363 Positive Type, Viton Material, Metal Clad Style
Guide	Both	1998-05	140-3159BR 0.2362 I.D., 1.415 Length, 0.4355 O.D.
Spring	Int	1998-05	160-1471 1.615 Length
	Exh	1998-05	160-1472 1.725 Length
Lifter	Int	1998-05	VL523 Hydraulic Bucket Type
	Exh	1998-05	VL524 Hydraulic Bucket Type

54 2792cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin D, E, F, AAA, AFP "VR6" VR6-12V
 1992-01 V6 170 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve	Int	1992-01	10556 1.535 Head Diameter
	Exh	1992-01	
Keeper	Both	1992-01	121-1128 3 RD Bead Type
Stem Seal	Both	1992-01	122-1250 Positive Type, Viton Material, Metal Clad Style
Guide	Both	1992-01	140-8139 0.2765 I.D., 1.488 Length, 0.4763 O.D.
		1992-01	340-1018BR 0.2756 I.D., 1.495 Length, 0.4750 O.D., Optional Bronze Guide
Lifter	Both	1992-01	VL116 Hydraulic Bucket Type

55 2792cc, (2.8L), DOHC, GAS, FI, 24 Valve, BDF VR6-24V
 2002-05 V6 170 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve	Int	2002-02	10556 1.535 Head Diameter, W/ 7mm Stem Dia.
	Exh	2002-02	
Keeper	Both	2002-02	121-1128 3 RD Bead Type, W/ 7mm Stem Dia.
		2002-05	121-1098 3 RD Bead Type, W/ 6mm Stem Dia.
Stem Seal	Both	2002-02	122-1250 Positive Type, Viton Material, Metal Clad Style, W/ 7mm Stem Dia.
		2002-05	122-1363 Positive Type, Viton Material, Metal Clad Style, W/ 6mm Stem Dia.
Guide	Both	2002-02	140-8139 0.2765 I.D., 1.488 Length, 0.4763 O.D., W/ 7mm Stem Dia.
		2002-02	340-1018BR 0.2756 I.D., 1.495 Length, 0.4750 O.D., W/ 7mm Stem Dia., Optional Bronze Guide
		2002-05	140-3159BR 0.2362 I.D., 1.415 Length, 0.4355 O.D., W/6mm Stem Dia.

56 2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CATA "TDI" 3.0-CATA
 2009-12 V6 181 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2009-12	121-1098 3 RD Bead Type
Stem Seal	Both	2009-12	122-1363 Positive Type, Viton Material, Metal Clad Style
Guide	Both	2009-12	140-3159BR 0.2362 I.D., 1.415 Length, 0.4355 O.D.

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK**2967cc, (3.0L), DOHC, DIESEL, FI, 24 Valve, CNRB "TDI"**
2013-16 V6 181 CID**3.0-CNRB 57**
BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2013-15 121-1098	3 RD Bead Type
Stem Seal	Both	2013-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2013-15 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

2995cc, (3.0L), DOHC, ELECTRIC/GAS, FI, 24 Valve, CGFA "Supercharged"
2011-15 V6 183 CID**3.0-CGFA 58**
BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES
Valve	Int	2011-15 13314	1.333 Head Diameter
	Exh	2011-12 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2011-15 121-1098	3 RD Bead Type
Stem Seal	Both	2011-15 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-15 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2011-15 VL569	Hydraulic Lash Adjuster Type

3189cc, (3.2L), DOHC, GAS, FI, 24 Valve, BAA, BJS, BMX, BUB
2004-08 V6 195 CID**VKW3.2-DC24V 59**
BORE - 84mm/3.31", 84.1mm/3.31"

PART	YEARS	PART NO.	NOTES
Valve	Int	2004-08 13310	1.307 Head Diameter,136.36mm Overall Length
		2004-08 13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2004-08 13311S	1.189 Head Diameter,Stellite Face,136.20mm Overall Length
		2004-08 13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2004-08 121-1098	3 RD Bead Type
Stem Seal	Both	2004-08 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-08 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, BLV
2006-11 V6 219 CID**VKW3.6-BLV 60**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int	2006-07 13315S	1.333 Head Diameter,Stellite Face
		2008-11 13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2006-07 13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
		2008-11 13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2006-11 121-1098	3 RD Bead Type
Stem Seal	Both	2006-11 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2006-11 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2006-08 VL569	Hydraulic Lash Adjuster Type

3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, BHK
2007-10 V6 219 CID**VKW3.6-BHK 61**
BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve	Int	2007-10 13310	1.307 Head Diameter,136.36mm Overall Length
		2007-10 13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2007-10 13311S	1.189 Head Diameter,Stellite Face,136.20mm Overall Length
		2007-10 13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2007-10 121-1098	3 RD Bead Type
Stem Seal	Both	2007-10 122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-10 140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

VOLKSWAGEN / PASSENGER CAR OR TRUCK (Cont'd)

62 3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, CDVB 3.6-CDVB
 2012-16 V6 219 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2012-16	13310	1.307 Head Diameter,136.36mm Overall Length
		2012-16	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2012-16	13311S	1.189 Head Diameter,Stellite Face,136.20mm Overall Length
		2012-16	13313S	1.189 Head Diameter,Stellite Face,102.2mm Overall Length
Keeper	Both	2012-16	121-1098	3 RD Bead Type
Stem Seal	Both	2012-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-16	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

63 3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, CGRA 3.6-CGRA
 2011-16 V6 219 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2011-16	13310	1.307 Head Diameter,136.36mm Overall Length
		2011-16	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2011-16	13311S	1.189 Head Diameter,Stellite Face,136.20mm Overall Length
		2011-16	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2011-16	121-1098	3 RD Bead Type
Stem Seal	Both	2011-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2011-16	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

64 3597cc, (3.6L), DOHC, GAS, FI, 24 Valve, CNNA 3.6-CNNA
 2012-16 V6 219 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2012-16	13312	1.307 Head Diameter,102.46mm Overall Length
	Exh	2012-16	13313S	1.189 Head Diameter,Stellite Face,102.20mm Overall Length
Keeper	Both	2012-16	121-1098	3 RD Bead Type
Stem Seal	Both	2012-16	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2012-16	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

65 4163cc, (4.2L), DOHC, GAS, FI, 32 Valve, BAR 4.2-BAR
 2007-09 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2007-09	13314	1.333 Head Diameter
	Exh	2007-09	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2007-09	121-1098	3 RD Bead Type
Stem Seal	Both	2007-09	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2007-09	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.
Lifter	Both	2007-09	VL569	Hydraulic Lash Adjuster Type

66 4172cc, (4.2L), DOHC, GAS, FI, 40 Valve, AXQ, BGH VKW4.2-DC40V
 2004-07 V8 254 CID BORE - 84.5mm/3.33"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2004-06	13319S	1.059 Head Diameter,Stellite Face
		2007-07	13314	1.333 Head Diameter
	Exh	2004-06	13320SN	1.177 Head Diameter,Stellite Face, Sodium Filled
		2007-07	13316SN	1.102 Head Diameter,Stellite Face, Sodium Filled
Keeper	Both	2004-07	121-1098	3 RD Bead Type
Stem Seal	Both	2004-07	122-1363	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-07	140-3159BR	0.2362 I.D.,1.415 Length,0.4355 O.D.

(Cont'd) VOLKSWAGEN / PASSENGER CAR OR TRUCK4921cc, (5.0L), SOHC, DIESEL, FI, 20 Valve, BKW, BWF "TDI"
2005-08 V10 300 CIDVKW5.0-TDI **67**
BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2006-08	13337	1.415 Head Diameter
	Exh	2006-08	13338S	1.238 Head Diameter,Stellite Face,NOTE: W/3.504 Length
Keeper	Both	2005-08	121-1128	3 RD Bead Type
Stem Seal	Both	2005-08	122-1250	Positive Type,Viton Material,Metal Clad Style

VOLVO / HEAVY DUTY

Engine	Models	Line No.
6 Cylinder		
661 C.I., (10.8L), D11, 24 VALVE, SOHC, TURBO, DIESEL		1
740 C.I., (12.1L), VED12D, 24 VALVE, SOHC, TURBO, DIESEL		2
780 C.I., (12.8L), D13, 24 VALVE, SOHC, TURBO, DIESEL		3
984 C.I., (16.1L), D16, 24 VALVE, SOHC, TURBO, DIESEL		4

661 C.I., (10.8L), D11, 24 VALVE, SOHC, TURBO, DIESEL **D11D 1**
L6 661 CID **BORE - 123.0mm/4.8425"**

PART	PART NO.	NOTES	
Valve Seat Insert	Int	SB1658E-1C	1.6585 O.D.,1.300R I.D.,0.2880 Depth,OEM # 20737849
	Exh	SB1579E-1C	1.5775 O.D.,1.210R I.D.,0.2525 Depth,OEM # 20732758
Valve	Int	13375S	1.575 Head Diameter,Inconel, Stellite Face,OEM # 20737856
	Exh	13376S	1.496 Head Diameter,Stellite Face,OEM # 20564020, 21430918
Keeper	Both	121-1024	3 RD Bead Type,OEM # 20510747
Stem Seal	Both	122-1469	Positive Type,Viton Material,Metal Clad Style,OEM # 20864662, 21990221
Guide	Both	140-3157	0.3157 I.D.,3.285 Length,0.5905 O.D.,OEM # 3165303, 3183283, 20817645, 20904074, 20905400, 20919484
Spring	Both	160-1619	2.765 Length,OEM # 3183211; Inner
		160-1620	3.035 Length,OEM # 3183210, 21310068; Outer
Injector Tubes and Components		240-1046	Injector Tube,OEM # 3183368, 21098621, 85104134, 85124276; NOTE: Does Not Use Internal Washer
		240-1046R	O-Ring, Black,OEM # 3165747, 20536487
		240-1053	Injector Tube,OEM # 21401136, 85137065; NOTE: Late Stainless Steel; (Use W/ 240-1046R O-Ring)

740 C.I., (12.1L), VED12D, 24 VALVE, SOHC, TURBO, DIESEL **VED12D 2**
L6 740 CID **BORE - 130.988mm/5.1570"**

PART	PART NO.	NOTES	
Valve Seat Insert	Int	SB1696E-1C	1.696 O.D.,1.260R I.D.,0.2860 Depth,OEM # 20482579
	Exh	SB1696E-2C	1.696 O.D.,1.295R I.D.,0.3160 Depth,OEM # 3169366, 20412798, 21484834
Valve	Int	13300S	1.575 Head Diameter,Inconel, Stellite Face,OEM # 3169490, 20463800
	Exh	13301S	1.575 Head Diameter,Inconel, Stellite Face,OEM # 8148574, 20441945, 20441486
Keeper	Both	121-1141	1 RD Bead Type,OEM # 1677875
Stem Seal	Both	122-1451	Positive Type,Viton Material,Metal Clad Style,OEM # 859171, 21501189
Guide	Both	140-3157	0.3157 I.D.,3.285 Length,0.5905 O.D.,OEM # 1546437, 3165303, 3183283, 20817645, 20904074, 20905400, 20919484
Spring	Exh	160-1619	2.765 Length,OEM # 3183211; NOTE: Inner Spring For Exhaust
	Both	160-1620	3.035 Length,OEM # 3183210, 21310068; Single Spring For Intake, Outer For Exhaust

VOLVO / HEAVY DUTY (Cont'd)

2 740 C.I., (12.1L), VED12D, 24 VALVE, SOHC, TURBO, DIESEL VED12D
 (cont.) L6 740 CID BORE - 130.988mm/5.1570"

PART	PART NO.	NOTES
Injector Tubes and Components	240-1046	Injector Tube,OEM # 3183368, 21098621, 85104134, 85124276; NOTE: Early Copper, Check Casting To Confirm Material; Does Not Use Internal Washer
	240-1046R	O-Ring, Black,OEM # 3165747, 20536487
	240-1052	Injector Tube,OEM # 20981856, 21274700, 21351717, 85125557; NOTE: Late Copper, Check Casting To Confirm Material; This Sleeve Requires The Use Of An Internal Washer OEM # 21261987; (Use W/ 240-1046R O-Ring)

3 780 C.I., (12.8L), D13, 24 VALVE, SOHC, TURBO, DIESEL D13D
 L6 780 CID BORE - 131.00mm/5.1575"

PART	PART NO.	NOTES
Valve Seat Insert	Int SB1776E-1C	1.7765 O.D.,1.340R I.D.,0.2975 Depth,OEM # 2074084; NOTE: With 0.2975" Depth
	Exh SB1697E-2	1.6955 O.D.,1.300R I.D.,0.2950 Depth,OEM # 20530103; NOTE: With 0.2950" Depth
Valve	Int 13377S	1.654 Head Diameter,Inconel, Stellite Face,OEM # 20740798
	Exh 13378S	1.575 Head Diameter,Stellite Face,OEM # 20768519
Keeper	Both 121-1024	3 RD Bead Type,OEM # 20510747
Stem Seal	Both 122-1469	Positive Type,Viton Material,Metal Clad Style,OEM # 20864662, 21990221
Guide	Both 140-3157	0.3157 I.D.,3.285 Length,0.5905 O.D.,OEM # 3165303, 3183283, 20817645, 20904074, 20905400, 20919484
Spring	Exh 160-1619	2.765 Length,OEM # 3183211; NOTE: Inner Spring For Exhaust
	Both 160-1620	3.035 Length,OEM # 3183210, 21310068; Single Spring For Intake, Outer For Exhaust
Injector Tubes and Components	240-1046	Injector Tube,OEM # 3183368, 21098621, 85104134, 85124276; NOTE: Early Copper, Check Casting For Correct Material; Does Not Use Internal Washer
	240-1046R	O-Ring, Black,OEM # 3165747, 20536487
	240-1052	Injector Tube,OEM # 20981856, 21274700, 21351717, 85125557; NOTE: Late Copper, Check Casting To Confirm Material; This Sleeve Requires The Use Of An Internal Washer OEM # 21261987; (Use W/ 240-1046R O-Ring)
	240-1053	Injector Tube,OEM # 21401136, 85137065; NOTE: Late Stainless Steel; (Use W/ 240-1046R O-Ring)

4 984 C.I., (16.1L), D16, 24 VALVE, SOHC, TURBO, DIESEL D16D
 L6 984 CID BORE - 144.00mm/5.6693"

PART	PART NO.	NOTES
Injector Tubes and Components	240-1046	Injector Tube,OEM # 3183368, 21098621, 85104134, 85124276; NOTE: Early Copper Sleeve, Does Not Use Internal Washer
	240-1046R	O-Ring, Black,OEM # 3165747, 20536487

VOLVO / INDUSTRIAL

Engine	Models	Line No.
6 Cylinder		
334 C.I., (5.5L), Turbo-Diesel Volvo, D60A, TD60, TD60B		1
334 C.I., (5.5L), Turbo-Diesel Volvo, TD61, TD61F		2
334 C.I., (5.5L), Turbo-Diesel Volvo, TD63		3
410 C.I., (6.7L), Turbo-Diesel Volvo, TD70A, TD70B, TD70C, TD70E, TD70F, TD70G, TD70H		4
410 C.I., (6.7L), Turbo-Diesel Volvo, TD71		5

(Cont'd) VOLVO / INDUSTRIAL

Engine	Models	Line No.
6 Cylinder		
586 C.I., (9.6L), Turbo-Diesel Volvo, TD100, TD101, TD102, TD103ES		6
731 C.I., (12.0L), Turbo-Diesel Volvo, TD120, TD121		7
334 C.I., (5.5L), Turbo-Diesel Volvo, D60A, TD60, TD60B		TD60 1
L6 334 CID		BORE - 98.42mm/3.877"
PART	PART NO.	NOTES
Guide	Both 140-3073	0.3150 I.D.,2.520 Length,0.6300 O.D.,OEM # 4651576; Models D60A, TD60, TD61F
334 C.I., (5.5L), Turbo-Diesel Volvo, TD61, TD61F		TD61 2
L6 3.34 CID		BORE - 98.42mm/3.877"
PART	PART NO.	NOTES
Guide	Both 140-3073 140-3074	0.3150 I.D.,2.520 Length,0.6300 O.D.,OEM # 4651576; Model TD61F 0.3152 I.D.,2.540 Length,0.6297 O.D.,OEM # 477877, 477792; Model TD61
334 C.I., (5.5L), Turbo-Diesel Volvo, TD63		TD63 3
L6 334 CID		BORE - 98.42mm/3.877"
PART	PART NO.	NOTES
Guide	Both 140-3074	0.3152 I.D.,2.540 Length,0.6297 O.D.,OEM # 477877, 477792; Model TD63
410 C.I., (6.7L), Turbo-Diesel Volvo, TD70A, TD70B, TD70C, TD70E, TD70F, TD70G, TD70H		TD70 4
L6 410 CID		BORE - 104.8mm/4.125"
PART	PART NO.	NOTES
Guide	Both 140-3076	0.4349 I.D.,2.593 Length,0.7084 O.D.,OEM # 15451354; Models TD70A, TD70B, TD70C
410 C.I., (6.7L), Turbo-Diesel Volvo, TD71		TD71 5
L6 410 CID		BORE - 104.8mm/4.125"
PART	PART NO.	NOTES
Guide	Both 140-3074	0.3152 I.D.,2.540 Length,0.6297 O.D.,OEM # 477877, 477792
586 C.I., (9.6L), Turbo-Diesel Volvo, TD100, TD101, TD102, TD103ES		TD100C 6
L6 586 CID		BORE - 120.6mm/4.75"
PART	PART NO.	NOTES
Guide	Int 140-3075 Exh 140-3076	0.4348 I.D.,3.220 Length,0.7084 O.D.,OEM # 4223202 0.4349 I.D.,2.593 Length,0.7084 O.D.,OEM # 15451354
731 C.I., (12.0L), Turbo-Diesel Volvo, TD120, TD121		TD120 7
L6 731 CID		BORE - 130.2mm/5.125"
PART	PART NO.	NOTES
Guide	Int 140-3075 Exh 140-3076	0.4348 I.D.,3.220 Length,0.7084 O.D.,OEM # 4223202 0.4349 I.D.,2.593 Length,0.7084 O.D.,OEM # 15451354

VOLVO / PASSENGER CAR

Engine	Models	Line No.
4 Cylinder		
1948cc, (1.9L), DOHC, GAS, FI, 16 Valve, B4204T3 (2001-03)	S40, V40	1
1948cc, (1.9L), DOHC, GAS, FI, 16 Valve, B4204T4 (2003-04)	S40, V40	2
1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, B4204T9 (2015-17)	S60, V60, XC60	3

VOLVO / PASSENGER CAR (Cont'd)

Engine	Models	Line No.
4 Cylinder		
1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, B4204T11 (2015-17)	S60, S60 Cross Country, S80, V60, V60 Cross Country, XC60, XC70	4
1990cc, (2.0L), OHV, GAS, CARB, FI, B20A, B20B, B20E, B20F (1969-78)	142, 144, 145, 1800, 242, 244, 245	5
2127cc, (2.1L), SOHC, GAS, FI, 8 Valve, Vin 4, 41, 45, "B21F" (1976-82)	242, 244, 245, 264	6
2127cc, (2.1L), SOHC, GAS, FI, 8 Valve, Vin 4, B21FT (1981-85)	242, 244, 245	7
2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, B23F (1983-84)	242, 244, 245	8
2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, B23FT (1984-84)	760	9
2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, 88, B230F, B230FD (1985-95)	240, 244, 245, 740, 745, 940	10
2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, B230FT "Turbo" (1985-95)	740, 745, 760, 780, 940	11
5 Cylinder		
2319cc, (2.3L), DOHC, GAS, FI, 20 Valve, B5234FT (1994-94)	850	12
2319cc, (2.3L), DOHC, GAS, FI, 20 Valve, Vin 53, B5234T3 (2001-03)	C70, S60, V70	13
2319cc, (2.3L), DOHC, GAS, FI, 20 Valve, B5234T9 (2003-04)	C70	14
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S (2001-07)	S60, V70	17
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S4 (2004-10)	C30, S40, V50	18
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S6 (2003-06)	S60, V70	19
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S7 (2005-10)	S40, V50	20
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, Vin 56, B5244T (2000-02)	C70, S70, V70	21
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244T3 (2001-03)	S60, V70	22
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244T5 (2005-09)	S60, V70	23
2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244T7 (2003-04)	C70	24
2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin 59, B5254T2 (2003-09)	S60, S80, V70, XC70, XC90	25
2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin 68, B5254T3 (2004-07)	C70, S40, V50	26
2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T4 (2004-07)	S60, V70	27
2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T5 (2012-12)	S60	28
2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T7 (2008-13)	C30, C70, S40, V50	29
2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T12 (2013-16)	S60, S60 Cross Country, V60, V60 Cross Country, XC70	30

(Cont'd) VOLVO / PASSENGER CAR

Engine	Models	Line No.
6 Cylinder		
2383cc, (2.4L), SOHC, DIESEL, FI, 12 Valve, Vin 7, D24 (1980-84)	244, 245, 264, 265, 760	15
2383cc, (2.4L), SOHC, DIESEL, FI, 12 Valve, Vin 7, D24T "TURBO" (1983-86)	740, 745, 760	16
2673cc, (2.7L), SOHC, GAS, FI, 12 Valve, B27F (1976-79) ..	262, 264, 265	31
2849cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin 6, B28F (1980-85)	262, 264, 265, 760	32
2917cc, (2.9L), DOHC, GAS, FI, 24 Valve, B6294S (2000-03)	S80	33
2917cc, (2.9L), DOHC, GAS, FI, 24 Valve, B6294S2 (2004-04)	S80	34
2917cc, (2.9L), DOHC, GAS, FI, 24 Valve, Vin 91, B6294T (2002-05)	S80, XC90	35
2953cc, (3.0L), DOHC, GAS, FI, 24 Valve, B6304T2 (2008-10)	S80, XC70	36
2953cc, (3.0L), DOHC, GAS, FI, 24 Valve, B6304T4 (2011-16)	S60, S80, V60, XC60, XC70	37
2980cc, (3.0L), OHV, GAS, CARB, B30A (1970-71)	164	38
2980cc, (3.0L), OHV, GAS, FI, B30E (1972-75)	164	39
3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 98, B6324S (2007-10)	S80, V70, XC70	40
3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, B6324S2 (2010-10)	S80, V70, XC60, XC70	41
3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 94, B6324S4 (2011-15)	S80, XC60, XC70	42
3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 95, B6324S5 (2011-15)	S80, XC60, XC70, XC90	43

1948cc, (1.9L), DOHC, GAS, FI, 16 Valve, B4204T3	B4204T3	1
2001-03	L4 119 CID	BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2001-03	13302	1.220 Head Diameter
	Exh	2001-03	13303	1.063 Head Diameter, Inconel
Keeper	Both	2001-03	121-1098	3 RD Bead Type
Stem Seal	Both	2001-03	122-1452	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2001-03	140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

1948cc, (1.9L), DOHC, GAS, FI, 16 Valve, B4204T4	B4204T4	2
2003-04	L4 119 CID	BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES	
Valve	Int	2003-04	13302	1.220 Head Diameter
	Exh	2003-04	13303	1.063 Head Diameter, Inconel
Keeper	Both	2003-04	121-1098	3 RD Bead Type
Stem Seal	Both	2003-04	122-1452	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2003-04	140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, B4204T9	B4204T9	3
2015-17	L4 118 CID	BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-15	121-1098	3 RD Bead Type

VOLVO / PASSENGER CAR (Cont'd)

4 1969cc, (2.0L), DOHC, GAS, FI, 16 Valve, B4204T11 B4204T11
 2015-17 L4 118 CID BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES	
Keeper	Both	2015-15	121-1098	3 RD Bead Type

5 1990cc, (2.0L), OHV, GAS, CARB, FI, B20A, B20B, B20E, B20F B20
 1969-78 L4 121 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Exh	1969-78	SB1437-51	1 ⁷ / ₁₆ O.D., 1.130T I.D., 0.2500 Depth

6 2127cc, (2.1L), SOHC, GAS, FI, 8 Valve, Vin 4, 41, 45, "B21F" B21F
 1976-82 L4 130 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1976-82	SB1875-57	1 ⁷ / ₈ O.D., 1.505T I.D., 0.2800 Depth
	Exh	1976-82	SB1562-78	1 ⁹ / ₁₆ O.D., 1.230 I.D., 0.2780 Depth
Valve	Int	1976-82	10406	1.732 Head Diameter
	Exh	1976-82	10407S	1.378 Head Diameter, Stellite Face, Except Turbo
Keeper	Both	1976-82	121-1024	3 RD Bead Type
Stem Seal	Both	1976-82	122-1082	Positive Type, Viton Material, Metal Clad Style

7 2127cc, (2.1L), SOHC, GAS, FI, 8 Valve, Vin 4, B21FT B21FT
 1981-85 L4 130 CID BORE - 92mm/3.62"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1981-85	SB1875-57	1 ⁷ / ₈ O.D., 1.505T I.D., 0.2800 Depth
	Exh	1981-85	SB1562-78	1 ⁹ / ₁₆ O.D., 1.230 I.D., 0.2780 Depth
Valve	Int	1981-85	10406	1.732 Head Diameter
Keeper	Both	1981-85	121-1024	3 RD Bead Type
Stem Seal	Both	1981-85	122-1082	Positive Type, Viton Material, Metal Clad Style

8 2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, B23F B23F
 1983-84 L4 141 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1983-84	SB1875-57	1 ⁷ / ₈ O.D., 1.505T I.D., 0.2800 Depth
	Exh	1983-84	SB1562-78	1 ⁹ / ₁₆ O.D., 1.230 I.D., 0.2780 Depth
Valve	Int	1983-84	10406	1.732 Head Diameter
	Exh	1983-84	10407S	1.378 Head Diameter, Stellite Face
Keeper	Both	1983-84	121-1024	3 RD Bead Type
Stem Seal	Both	1983-84	122-1082	Positive Type, Viton Material, Metal Clad Style

9 2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, B23FT B23FT
 1984-84 L4 141 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1984-84	SB1875-57	1 ⁷ / ₈ O.D., 1.505T I.D., 0.2800 Depth
	Exh	1984-84	SB1562-78	1 ⁹ / ₁₆ O.D., 1.230 I.D., 0.2780 Depth
Valve	Int	1984-84	10406	1.732 Head Diameter
Keeper	Both	1984-84	121-1024	3 RD Bead Type

10 2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, 88, B230F, B230FD B230F
 1985-95 L4 141 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES	
Valve Seat Insert	Int	1985-95	SB1875-57	1 ⁷ / ₈ O.D., 1.505T I.D., 0.2800 Depth
	Exh	1985-95	SB1562-78	1 ⁹ / ₁₆ O.D., 1.230 I.D., 0.2780 Depth
Valve	Int	1985-95	10406	1.732 Head Diameter
	Exh	1985-95	10407S	1.378 Head Diameter, Stellite Face

(Cont'd) VOLVO / PASSENGER CAR

2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, 88, B230F, B230FD **B230F 10**
 1985-95 L4 141 CID BORE - 96mm/3.78" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both	1985-95 121-1024	3 RD Bead Type
Stem Seal	Int	1985-95 122-1082	Positive Type,Viton Material,Metal Clad Style
Head Saver Shim		1985-95 230-2049	New Hgt.- 5.7530; Min. Hgt.- 5.7320

2316cc, (2.3L), SOHC, GAS, FI, 8 Valve, Vin 8, B230FT "Turbo" **B230FT 11**
 1985-95 L4 141 CID BORE - 96mm/3.78"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1985-95 1985-95 SB1875-57 SB1562-78	1 $\frac{7}{8}$ O.D.,1.505T I.D.,0.2800 Depth 1 $\frac{9}{16}$ O.D.,1.230 I.D.,0.2780 Depth
Valve	Int	1985-95 10406	1.732 Head Diameter
Keeper	Both	1985-95 121-1024	3 RD Bead Type
Stem Seal	Int	1985-95 122-1082	Positive Type,Viton Material,Metal Clad Style
Head Saver Shim		1985-95 230-2049	New Hgt.- 5.7530; Min. Hgt.- 5.7320

2319cc, (2.3L), DOHC, GAS, FI, 20 Valve, B5234FT **B5234FT 12**
 1994-94 L5 141 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Guide	Both	1994-96 140-8552	0.2745 I.D.,1.770 Length,0.4723 O.D.

2319cc, (2.3L), DOHC, GAS, FI, 20 Valve, Vin 53, B5234T3 **B5234T3 13**
 2001-03 L5 141 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2001-03 2001-03 13302 13303	1.220 Head Diameter 1.063 Head Diameter,Inconel
Keeper	Both	2001-03 121-1098	3 RD Bead Type
Stem Seal	Both	2001-03 122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-03 140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2319cc, (2.3L), DOHC, GAS, FI, 20 Valve, B5234T9 **B5234T9 14**
 2003-04 L5 141 CID BORE - 81mm/3.19"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2003-04 2003-04 13302 13303	1.220 Head Diameter 1.063 Head Diameter,Inconel
Keeper	Both	2003-04 121-1098	3 RD Bead Type
Stem Seal	Both	2003-04 122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2003-04 140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2383cc, (2.4L), SOHC, DIESEL, FI, 12 Valve, Vin 7, D24 **D24 15**
 1980-84 L6 145 CID BORE - 76.5mm/3.01"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int Exh	1980-84 1980-84 SB1500-62 SB1312-62	1 $\frac{1}{2}$ O.D.,1.220T I.D.,0.3100 Depth 1 $\frac{5}{16}$ O.D.,1.065T I.D.,0.2850 Depth
Keeper	Both	1980-84 1980-84 121-1020 121-1024	1 RD Bead Type 3 RD Bead Type
Stem Seal	Both	1980-84 122-1082	Positive Type,Viton Material,Metal Clad Style

2383cc, (2.4L), SOHC, DIESEL, FI, 12 Valve, Vin 7, D24T "TURBO" **D24T 16**
 1983-86 L6 145 CID BORE - 76.5mm/3.01"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Int	1983-86 SB1500-62	1 $\frac{1}{2}$ O.D.,1.220T I.D.,0.3100 Depth

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16 2383cc, (2.4L), SOHC, DIESEL, FI, 12 Valve, Vin 7, D24T "TURBO" D24T
 (cont.) 1983-86 L6 145 CID BORE - 76.5mm/3.01"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1983-86 SB1312-62	1 ⁵ / ₁₆ O.D., 1.065T I.D., 0.2850 Depth
Keeper	Both	1983-86 121-1020	1 RD Bead Type
		1983-86 121-1024	3 RD Bead Type
Stem Seal	Both	1983-86 122-1082	Positive Type, Viton Material, Metal Clad Style

17 2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S B5244S
 2001-07 L5 149 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int	2001-07 13302	1.220 Head Diameter
	Exh	2001-07 13304S	1.063 Head Diameter, Stellite Face
Keeper	Both	2001-07 121-1098	3 RD Bead Type
Stem Seal	Both	2001-07 122-1452	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2001-07 140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

18 2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S4 B5244S4
 2004-10 L5 149 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int	2004-10 13302	1.220 Head Diameter
	Exh	2004-10 13304S	1.063 Head Diameter, Stellite Face
Keeper	Both	2004-10 121-1098	3 RD Bead Type
Stem Seal	Both	2004-10 122-1452	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2004-10 140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

19 2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S6 B5244S6
 2003-06 L5 149 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int	2003-06 13302	1.220 Head Diameter
	Exh	2003-06 13304S	1.063 Head Diameter, Stellite Face
Keeper	Both	2003-06 121-1098	3 RD Bead Type
Stem Seal	Both	2003-06 122-1452	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2003-06 140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

20 2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244S7 B5244S7
 2005-10 L5 149 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int	2005-10 13302	1.220 Head Diameter
	Exh	2005-10 13304S	1.063 Head Diameter, Stellite Face
Keeper	Both	2005-10 121-1098	3 RD Bead Type
Stem Seal	Both	2005-10 122-1452	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2005-10 140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

21 2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, Vin 56, B5244T B5244T
 2000-02 L5 149 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int	2000-02 13302	1.220 Head Diameter
	Exh	2000-02 13303	1.063 Head Diameter, Inconel
Keeper	Both	2000-02 121-1098	3 RD Bead Type
Stem Seal	Both	2000-02 122-1452	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2000-02 140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

(Cont'd) **VOLVO / PASSENGER CAR**

2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244T3 **B5244T3 22**
2001-03 L5 149 CID BORE - 83mm/3.27"

PART		YEARS	PART NO.	NOTES
Valve	Int	2001-03	13302	1.220 Head Diameter
	Exh	2001-03	13303	1.063 Head Diameter,Inconel
Keeper	Both	2001-03	121-1098	3 RD Bead Type
Stem Seal	Both	2001-03	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2001-03	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244T5 **B5244T5 23**
2005-09 L5 149 CID BORE - 83mm/3.27"

PART		YEARS	PART NO.	NOTES
Valve	Int	2005-09	13302	1.220 Head Diameter
	Exh	2005-09	13303	1.063 Head Diameter,Inconel
Keeper	Both	2005-09	121-1098	3 RD Bead Type
Stem Seal	Both	2005-09	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2005-09	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2435cc, (2.4L), DOHC, GAS, FI, 20 Valve, B5244T7 **B5244T7 24**
2003-04 L5 149 CID BORE - 83mm/3.27"

PART		YEARS	PART NO.	NOTES
Valve	Int	2003-04	13302	1.220 Head Diameter
	Exh	2003-04	13303	1.063 Head Diameter,Inconel
Keeper	Both	2003-04	121-1098	3 RD Bead Type
Stem Seal	Both	2003-04	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2003-04	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin 59, B5254T2 **B5254T2 25**
2003-09 L5 154 CID BORE - 83mm/3.27"

PART		YEARS	PART NO.	NOTES
Valve	Int	2003-09	13302	1.220 Head Diameter
	Exh	2003-09	13303	1.063 Head Diameter,Inconel
Keeper	Both	2003-09	121-1098	3 RD Bead Type
Stem Seal	Both	2003-09	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2003-09	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, Vin 68, B5254T3 **B5254T3 26**
2004-07 L5 154 CID BORE - 83mm/3.27"

PART		YEARS	PART NO.	NOTES
Valve	Int	2004-07	13302	1.220 Head Diameter
	Exh	2004-07	13303	1.063 Head Diameter,Inconel
Keeper	Both	2004-07	121-1098	3 RD Bead Type
Stem Seal	Both	2004-07	122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-07	140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T4 **B5254T4 27**
2004-07 L5 154 CID BORE - 83mm/3.27"

PART		YEARS	PART NO.	NOTES
Valve	Int	2004-07	13302	1.220 Head Diameter
	Exh	2004-07	13303	1.063 Head Diameter,Inconel
Keeper	Both	2004-07	121-1098	3 RD Bead Type
Stem Seal	Both	2004-07	122-1452	Positive Type,Viton Material,Metal Clad Style

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27 2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T4 B5254T4
 (cont.) 2004-07 L5 154 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Guide	Both	2004-07 140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

28 2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T5 B5254T5
 2012-12 L5 154 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2012-12 13302 2012-12 13303	1.220 Head Diameter 1.063 Head Diameter, Inconel
Keeper	Both	2012-12 121-1098	3 RD Bead Type
Stem Seal	Both	2012-12 122-1452	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2012-12 140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

29 2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T7 B5254T7
 2008-13 L5 154 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2008-13 13302 2008-13 13303	1.220 Head Diameter 1.063 Head Diameter, Inconel
Keeper	Both	2008-13 121-1098	3 RD Bead Type
Stem Seal	Both	2008-13 122-1452	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2008-13 140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

30 2521cc, (2.5L), DOHC, GAS, FI, 20 Valve, B5254T12 B5254T12
 2013-16 L5 154 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2013-15 13302 2013-15 13303	1.220 Head Diameter 1.063 Head Diameter, Inconel
Keeper	Both	2013-15 121-1098	3 RD Bead Type
Stem Seal	Both	2013-15 122-1452	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2013-15 140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

31 2673cc, (2.7L), SOHC, GAS, FI, 12 Valve, B27F B27F
 1976-79 V6 163 CID BORE - 88mm/3.47"

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1976-79 122-1082	Positive Type, Viton Material, Metal Clad Style

32 2849cc, (2.8L), SOHC, GAS, FI, 12 Valve, Vin 6, B28F B28F
 1980-85 V6 174 CID BORE - 90.9mm/3.58"

PART	YEARS	PART NO.	NOTES
Stem Seal	Both	1980-85 122-1082	Positive Type, Viton Material, Metal Clad Style

33 2917cc, (2.9L), DOHC, GAS, FI, 24 Valve, B6294S B6294S
 2000-03 L6 178 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2000-03 121-1098	3 RD Bead Type
Stem Seal	Both	2000-03 122-1452	Positive Type, Viton Material, Metal Clad Style
Guide	Both	2000-03 140-3180	0.2364 I.D., 1.778 Length, 0.4720 O.D.

34 2917cc, (2.9L), DOHC, GAS, FI, 24 Valve, B6294S2 B6294S2
 2004-04 L6 178 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2004-04 13302 2004-04 13304S	1.220 Head Diameter 1.063 Head Diameter, Stellite Face

(Cont'd) **VOLVO / PASSENGER CAR**

2917cc, (2.9L), DOHC, GAS, FI, 24 Valve, B6294S2 B6294S2 **34**
2004-04 L6 178 CID BORE - 83mm/3.27" (cont.)

PART	YEARS	PART NO.	NOTES
Keeper	Both	2004-04 121-1098	3 RD Bead Type
Stem Seal	Both	2004-04 122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2004-04 140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2917cc, (2.9L), DOHC, GAS, FI, 24 Valve, Vin 91, B6294T B6294T **35**
2002-05 L6 178 CID BORE - 83mm/3.27"

PART	YEARS	PART NO.	NOTES
Valve	Int Exh	2002-05 13302 2002-05 13303	1.220 Head Diameter 1.063 Head Diameter,Inconel
Keeper	Both	2002-05 121-1098	3 RD Bead Type
Stem Seal	Both	2002-05 122-1452	Positive Type,Viton Material,Metal Clad Style
Guide	Both	2002-05 140-3180	0.2364 I.D.,1.778 Length,0.4720 O.D.

2953cc, (3.0L), DOHC, GAS, FI, 24 Valve, B6304T2 B6304T2 **36**
2008-10 L6 180 CID BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2008-10 121-1098	3 RD Bead Type

2953cc, (3.0L), DOHC, GAS, FI, 24 Valve, B6304T4 B6304T4 **37**
2011-16 L6 180 CID BORE - 82mm/3.23"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2011-15 121-1098	3 RD Bead Type

2980cc, (3.0L), OHV, GAS, CARB, B30A B30A **38**
1970-71 L6 182 CID BORE - 89mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1970-71 SB1437-51	17/16 O.D.,1.130T I.D.,0.2500 Depth

2980cc, (3.0L), OHV, GAS, FI, B30E B30E **39**
1972-75 L6 182 CID BORE - 88.9mm/3.50"

PART	YEARS	PART NO.	NOTES
Valve Seat Insert	Exh	1972-75 SB1437-51	17/16 O.D.,1.130T I.D.,0.2500 Depth

3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 98, B6324S B6324S **40**
2007-10 L6 195 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2007-10 121-1098	3 RD Bead Type

3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, B6324S2 B6324S2 **41**
2010-10 L6 127 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2010-10 121-1098	3 RD Bead Type

3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 94, B6324S4 B6324S4 **42**
2011-15 L6 195 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2011-15 121-1098	3 RD Bead Type

3192cc, (3.2L), DOHC, GAS, FI, 24 Valve, Vin 95, B6324S5 B6324S5 **43**
2011-15 L6 195 CID BORE - 84mm/3.31"

PART	YEARS	PART NO.	NOTES
Keeper	Both	2011-15 121-1098	3 RD Bead Type

WAUKESHA / HEAVY DUTY

Engine	Models	Line No.
4 Cylinder		
144 C.I., (2.4L), 180GKB		1
155 C.I., (2.5L), VRG155		2
6 Cylinder		
310 C.I., (5.1L), Diesel Industrial		3
554 C.I., (9.1L), 140GZB 12 Valve		4
818 C.I., (13.4L), 145GZB 12 Valve		5
818 C.I., (13.4L), F817G 12 Valve		6
1196 C.I., (19.6L), 6WAKBC 12 Valve		7
1905 C.I., (31.2L), Natural Gas		8
2895 C.I., (47.4L), F2895D 12 Valve		9
12 Cylinder		
7042 C.I., (115.4L), L7042G		10
7044 C.I., (115.4L), L7044G		11
16 Cylinder		
9390 C.I., (153.9L), P9390G		12

1 144 C.I., (2.4L), 180GKB **180GKB**
L4 144 CID **BORE - 92.075mm/3.60"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available
Valve	Int	00912	1.454 Head Diameter, OEM # 180336A
	Exh	00793	1.395 Head Diameter, OEM # 190336A
Keeper	Both	121-1000	2 RD Bead Type
Guide	Int	140-1947	0.3745 I.D., 2.500 Length, 0.6265 O.D., OEM # 106608A

2 155 C.I., (2.5L), VRG155 **VRG155**
L4 155 CID **BORE - 92.075mm/3.60"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1562-1	1 ⁹ / ₁₆ O.D., 1 ⁵ / ₁₆ I.D., ⁷ / ₃₂ Depth, +5 & +10 O/S Available, Also Available In Powdered Metal (PM) & Non-Magnetic (N) Material
	Exh	SB1500-3	1 ¹ / ₂ O.D., 1 ¹ / ₄ I.D., ¹ / ₄ Depth, +3 O/S Available
Valve	Int	00912	1.454 Head Diameter, OEM # 180336
	Exh	00793	1.395 Head Diameter, OEM # 190336A
Keeper	Both	121-1000	2 RD Bead Type
Guide	Int	140-1952	0.3745 I.D., 2.406 Length, 0.6260 O.D., W/ Old Style Seal, OEM # 222209
		140-7398	0.3745 I.D., 2.406 Length, 0.6260 O.D., W/ New Style Seal, OEM # 224609C
	Exh	140-1953	0.3745 I.D., 2.313 Length, 0.6260 O.D., OEM # 106609A

3 310 C.I., (5.1L), Diesel Industrial **VRD310**
L6 310 CID **BORE - 98.4mm/3.875"**

PART		PART NO.	NOTES
Guide	Both	140-1965	0.3745 I.D., 3.500 Length, 0.6260 O.D., OEM # 164904A

4 554 C.I., (9.1L), 140GZB 12 Valve **140GZB**
L6 554 CID **BORE - 114.2mm/4.50"**

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB2187-4	2 ³ / ₁₆ O.D., 1 ⁷ / ₈ I.D., ⁹ / ₃₂ Depth

(Cont'd) **WAUKESHA / HEAVY DUTY**

554 C.I., (9.1L), 140GZB 12 Valve			140GZB 4
L6 554 CID			BORE - 114.2mm/4.50" (cont.)
PART		PART NO.	NOTES
Valve Seat Insert	Exh	SB1750-0	1¾ O.D., 1⅜ I.D., ⅜ Depth
818 C.I., (13.4L), 145GZB 12 Valve			145GZB 5
L6 818 CID			BORE - 136.42mm/5.375"
PART		PART NO.	NOTES
Valve	Int	00734	2.557 Head Diameter, OEM # 145436-A
	Exh	00819S	2.005 Head Diameter, Stellite Face, OEM # 145336, 145336-A
Guide	Int	140-1593	0.4995 I.D., 5.438 Length, 0.8765 O.D., OEM # 145009
	Exh	140-1592	0.5005 I.D., 4.313 Length, 0.8765 O.D., OEM # 145109T
818 C.I., (13.4L), F817G 12 Valve			F817G 6
L6 818 CID			BORE - 136.42mm/5.375"
PART		PART NO.	NOTES
Valve	Int	00734	2.557 Head Diameter, OEM # 145436-A
	Exh	00819S	2.005 Head Diameter, Stellite Face, OEM # 145336, 145336-A
Guide	Exh	140-1592	0.5005 I.D., 4.313 Length, 0.8765 O.D., OEM # 145109T
1196 C.I., (19.6L), 6WAKBC 12 Valve			6WAKBC 7
L6 1196 CID			BORE - 158.75mm/6.25"
PART		PART NO.	NOTES
Valve	Int	00555	2.645 Head Diameter, OEM # 123036-L
	Exh	00554	2.227 Head Diameter, OEM # 123136-G
Guide	Both	140-7476	0.5005 I.D., 4.325 Length, 0.8765 O.D., Non-Flanged, OEM # 125009J
1905 C.I., (31.2L), Natural Gas			F1905G 8
L6 1905 CID			BORE - 177.8mm/7.00"
PART		PART NO.	NOTES
Guide	Int	140-6202	0.6245 I.D., 6.000 Length, 1.0020 O.D., OEM # 97109D
	Exh	140-6201	0.6245 I.D., 5.188 Length, 1.0020 O.D., OEM # 97009F
2895 C.I., (47.4L), F2895D 12 Valve			F2895D 9
L6 2895 CID			BORE - 215.9mm/8.50"
PART		PART NO.	NOTES
Guide	Int	140-8011	0.5550 I.D., 5.188 Length, 1.0020 O.D., Late Type, Guides Must Be Reamed In Place To .5608/.5615. Always Press Wet Guide Out Toward Valve Seat And In From Valve Seat Side
	Exh	140-7892	0.5550 I.D., 5.188 Length, 1.0020 O.D., Use In Cyl. Head W/ Rectangular Water Outlet & Water Cooled Guides
7042 C.I., (115.4L), L7042G			L7042G 10
V12 7042 CID			BORE - 238.125mm/9.375"
PART		PART NO.	NOTES
Guide	Int	140-8011	0.5550 I.D., 5.188 Length, 1.0020 O.D., Late Type, Guides Must Be Reamed In Place To .5608/.5615. Always Press Wet Guide Out Toward Valve Seat And In From Valve Seat Side
	Exh	140-7892	0.5550 I.D., 5.188 Length, 1.0020 O.D., Use In Cyl. Head W/ Rectangular Water Outlet & Water Cooled Guides
7044 C.I., (115.4L), L7044G			L7044G 11
V12 7044 CID			BORE - 238.125mm/9.375"
PART		PART NO.	NOTES
Guide	Int	140-3132	0.5620 I.D., 5.520 Length, 1.0025 O.D., OEM # 204209E
	Exh	140-3133	0.5620 I.D., 4.820 Length, 1.0025 O.D., OEM # 204209A, 204209D, 204209F

WAUKESHA / HEAVY DUTY (Cont'd)

12 9390 C.I., (153.9L), P9390G

P9390G

V16 9390 CID

BORE - 238.125mm/9.375"

PART	PART NO.	NOTES
Guide	Int 140-8011	0.5550 I.D.,5.188 Length,1.0020 O.D.,Late Type, Guides Must Be Reamed In Place To .5608/.5615. Always Press Wet Guide Out Toward Valve Seat And In From Valve Seat Side 0.5550 I.D.,5.188 Length,1.0020 O.D.,Use In Cyl. Head W/ Rectangular Water Outlet & Water Cooled Guides
	Exh 140-7892	

WISCONSIN / HEAVY DUTY

Engine	Models	Line No.
1 Cylinder		
19 C.I., (.03L), AD, ADH		1
23 C.I., (.04L), AE, AEH, AEM, AEN		2
2 Cylinder		
46 C.I., (.08L), TE, TED, VE4, VE41, VE4D		3
54 C.I., (.09L), TF, TFD, TH, THD, TJD		4
4 Cylinder		
108 C.I., (1.8L), VF4, VF4D, VH4, VH4D, VH4DM		5
154 C.I., (2.5L), Industrial		6
154 C.I., (2.5L), V460D, 461D		7
177 C.I., (2.9L), V465		8

1 19 C.I., (.03L), AD, ADH

AD

L1 19 CID

BORE - 69.85mm/2.75"

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1375-5	1 $\frac{3}{8}$ O.D.,1 $\frac{1}{8}$ I.D.,17/64 Depth
Valve	Both 00249	1.313 Head Diameter
Keeper	Both 121-1011	1 SQ Bead Type
Guide	Both 140-1723 140-1909	0.3115 I.D.,2.500 Length,0.5018 O.D.,Optional Repair Guide 0.3135 I.D.,2.064 Length,0.4385 O.D.

2 23 C.I., (.04L), AE, AEH, AEM, AEN

AE

L1 23 CID

BORE - 76.2mm/3.00"

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1375-5	1 $\frac{3}{8}$ O.D.,1 $\frac{1}{8}$ I.D.,17/64 Depth
Valve	Both 00249	1.313 Head Diameter
Keeper	Both 121-1011	1 SQ Bead Type
Guide	Both 140-1723 140-1909	0.3115 I.D.,2.500 Length,0.5018 O.D.,Optional Repair Guide 0.3135 I.D.,2.064 Length,0.4385 O.D.

3 46 C.I., (.08L), TE, TED, VE4, VE41, VE4D

T_V3.0

L2 46 CID

BORE - 76.2mm/3.00"

PART	PART NO.	NOTES
Valve Seat Insert	Both SB1375-5	1 $\frac{3}{8}$ O.D.,1 $\frac{1}{8}$ I.D.,17/64 Depth
Valve	Exh 00598S Both 00249	1.250 Head Diameter,Stellite Face 1.313 Head Diameter
Keeper	Both 121-1011	1 SQ Bead Type
Guide	Both 140-1723 140-1907	0.3115 I.D.,2.500 Length,0.5018 O.D.,Optional Repair Guide 0.3135 I.D.,1.813 Length,0.4390 O.D.

(Cont'd) **WISCONSIN / HEAVY DUTY**

54 C.I., (.09L), TF, TFD, TH, THD, TJD T3.25 **4**
L2 54 CID BORE - 82.55mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1375-5	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., 17/64 Depth
Valve	Exh	00598S	1.250 Head Diameter, Stellite Face
	Both	00249	1.313 Head Diameter
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1723	0.3115 I.D., 2.500 Length, 0.5018 O.D., Optional Repair Guide
		140-1909	0.3135 I.D., 2.064 Length, 0.4385 O.D.

108 C.I., (1.8L), VF4, VF4D, VH4, VH4D, VH4DM V3.25 **5**
L4 108 CID BORE - 82.55mm/3.25"

PART		PART NO.	NOTES
Valve Seat Insert	Both	SB1375-5	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., 17/64 Depth
Valve	Exh	00598S	1.250 Head Diameter, Stellite Face
	Both	00249	1.313 Head Diameter
Keeper	Both	121-1011	1 SQ Bead Type
Guide	Both	140-1723	0.3115 I.D., 2.500 Length, 0.5018 O.D., Optional Repair Guide
		140-1909	0.3135 I.D., 2.064 Length, 0.4385 O.D.

154 C.I., (2.5L), Industrial VG4D **6**
L4 154 CID BORE - 88.8mm/3.50"

PART		PART NO.	NOTES
Guide	Both	140-1908	0.3135 I.D., 2.500 Length, 0.4385 O.D., Also Fits AG, AGN, VM4/D, VP4/D

154 C.I., (2.5L), V460D, 461D V3.5 **7**
L4 154 CID BORE - 88.8mm/3.50"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-2	1 $\frac{3}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1375-5	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., 17/64 Depth
Guide	Both	140-6053	0.3435 I.D., 2.125 Length, 0.4695 O.D.

177 C.I., (2.9L), V465 V465 **8**
L4 177 CID BORE - 95.2mm/3.70"

PART		PART NO.	NOTES
Valve Seat Insert	Int	SB1625-2	1 $\frac{3}{8}$ O.D., 1 $\frac{3}{8}$ I.D., $\frac{1}{4}$ Depth, Also Available In Non-Magnetic (N) Material
	Exh	SB1375-5	1 $\frac{3}{8}$ O.D., 1 $\frac{1}{8}$ I.D., 17/64 Depth

WITTE / HEAVY DUTY

Engine Models Line No.

1 Cylinder

BD 1

BD BD **1**
L1 0 CID BORE - 127.0mm/5.00"

PART		PART NO.	NOTES
Guide	Both	140-6529	0.3745 I.D., 3.625 Length, 0.7520 O.D.

YANMAR / TRACTOR

Engine Models Line No.

3 Cylinder

1,491cc, (1.5L), 3TNE84D Yanmar, 6 Valve, Diesel 1

YANMAR / TRACTOR (Cont'd)

Engine	Models	Line No.
3 Cylinder		
1,491cc, (1.5L), 3TNV84/T Yanmar, 6 Valve, Turbo/Non Turbo, Diesel		2
1,639cc, (1.6L), 3TNE88 Yanmar, 6 Valve, Diesel		3
1,639cc, (1.6L), 3TNV88 Yanmar, 6 Valve, Diesel		4
4 Cylinder		
1,999cc, (2.0L), 4TNE84D Yanmar, 8 Valve, Diesel		5
1,999cc, (2.0L), 4TNE84T Yanmar, 8 Valve, Turbo Diesel		6
1,999cc, (2.0L), 4TNV84 Yanmar, 8 Valve, Diesel		7
1,999cc, (2.0L), 4TNV84T Yanmar, 16 Valve, Turbo Diesel		8
2,098cc, (2.1L), TK486V Yanmar, 8 Valve, 4 Stroke, Water Cooled, Diesel		9
2,098cc, (2.1L), TK486 Yanmar, 8 Valve, 4 Stroke, Water Cooled, Diesel		10
2,196cc, (2.2L), 4TNE88 Yanmar, 8 Valve, Diesel		11
2,196cc, (2.2L), 4TNV88 Yanmar, 8 Valve, Diesel		12
2,769cc, (2.8L), 4TNE94 Yanmar, 8 Valve, Diesel	Industrial Forklift	13
3,048cc, (3.1L), 4TNV94 Yanmar, 16 Valve, Diesel	Industrial Forklift	14
3,310cc, (3.3L), 4TNE98 Yanmar, 8 Valve, Diesel	Industrial Forklift	15
3,327cc, (3.3L), 4TNV98 Yanmar, 16 Valve, Diesel	Industrial Forklift	16
4,408cc, (4.4L), 4TNE106D Yanmar, 8 Valve, Diesel		17
4,408cc, (4.4L), 4TNE106T Yanmar, 8 Valve, Turbo Diesel		18
4,408cc, (4.4L), 4TNV106D Yanmar, 8 Valve, Diesel		19
4,408cc, (4.4L), 4TNV106T Yanmar, 8 Valve, Turbo Diesel		20
4,408cc, (4.4L), 4TNV106D Yanmar, 16 Valve, Diesel		21
4,408cc, (4.4L), 4TNV106T Yanmar, 16 Valve, Turbo Diesel		22

1 1,491cc, (1.5L), 3TNE84D Yanmar, 6 Valve, Diesel **3TNE84D**
L3 91 CID **BORE - 84mm/3.30"**

PART	PART NO.	NOTES
Valve	Int 13415	1.378 Head Diameter,OEM # 129100-11100
	Exh 13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both 121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int 122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh 122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int 140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh 140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both 160-1665	1.760 Length,OEM # 129795-11120

2 1,491cc, (1.5L), 3TNV84/T Yanmar, 6 Valve, Turbo/Non Turbo, Diesel **3TNV84/T**
L3 91 CID **BORE - 84mm/3.30"**

PART	PART NO.	NOTES
Valve	Int 13414	1.417 Head Diameter,OEM # 129004-11130
	Exh 13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both 121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int 122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh 122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int 140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860

(Cont'd) YANMAR / TRACTOR

1,491cc, (1.5L), 3TNV84/T Yanmar, 6 Valve, Turbo/Non Turbo, Diesel **3TNV84/T 2**
 L3 91 CID BORE - 84mm/3.30" (cont.)

PART		PART NO.	NOTES
Guide	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

1,639cc, (1.6L), 3TNE88 Yanmar, 6 Valve, Diesel **3TNE88 3**
 L3 100 CID BORE - 88mm/3.46"

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # 129100-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

1,639cc, (1.6L), 3TNV88 Yanmar, 6 Valve, Diesel **3TNV88 4**
 L3 100 CID BORE - 88mm/3.46"

PART		PART NO.	NOTES
Valve	Int	13413	1.496 Head Diameter,OEM # 129005-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

1,999cc, (2.0L), 4TNE84D Yanmar, 8 Valve, Diesel **4TNE84D 5**
 L4 122 CID BORE - 84mm/3.30"

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # 129100-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

1,999cc, (2.0L), 4TNE84T Yanmar, 8 Valve, Turbo Diesel **4TNE84T 6**
 L4 122 CID BORE - 84mm/3.30"

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # 129100-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810

YANMAR / TRACTOR (Cont'd)

6 1,999cc, (2.0L), 4TNE84T Yanmar, 8 Valve, Turbo Diesel 4TNE84T
 (cont.) L4 122 CID BORE - 84mm/3.30"

PART		PART NO.	NOTES
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

7 1,999cc, (2.0L), 4TNV84 Yanmar, 8 Valve, Diesel 4TNV84
 L4 122 CID BORE - 84mm/3.30"

PART		PART NO.	NOTES
Valve	Int	13414	1.417 Head Diameter,OEM # 129004-11130
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

8 1,999cc, (2.0L), 4TNV84T Yanmar, 16 Valve, Turbo Diesel 4TNV84T-16V
 L4 122 CID BORE - 84mm/3.30"

PART		PART NO.	NOTES
Valve	Int	13407	1.102 Head Diameter,OEM # 129508-11100
	Exh	13408	0.965 Head Diameter,OEM # 129508-11110
Keeper	Both	121-1136	1 SQ Bead Type,OEM # 119717-11190
Stem Seal	Int	122-1480	Positive Type,Viton Material,Metal Clad Style,OEM # 119717-11340
	Exh	122-1481	Positive Type,Viton Material,Metal Clad Style,OEM # 119717-11350
Guide	Both	140-3188	0.2365 I.D.,1.378 Length,0.3945 O.D.,OEM # 119717-11800
Spring	Both	160-1662	1.462 Length,OEM # 129508-11130

9 2,098cc, (2.1L), TK486V Yanmar, 8 Valve, 4 Stroke, Water Cooled, Diesel YANTK486V
 L4 126 CID BORE - 86mm/3.38"

PART		PART NO.	NOTES
Valve	Int	13414	1.417 Head Diameter,OEM # 129004-11130
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

10 2,098cc, (2.1L), TK486 Yanmar, 8 Valve, 4 Stroke, Water Cooled, Diesel YANTK486
 L4 126 CID BORE - 86mm/3.38"

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # 129100-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

(Cont'd) YANMAR / TRACTOR**2,196cc, (2.2L), 4TNE88 Yanmar, 8 Valve, Diesel****4TNE88 11**

L4 134 CID

BORE - 88mm/3.46"

PART		PART NO.	NOTES
Valve	Int	13415	1.378 Head Diameter,OEM # 129100-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

2,196cc, (2.2L), 4TNV88 Yanmar, 8 Valve, Diesel**4TNV88 12**

L4 134 CID

BORE - 88mm/3.46"

PART		PART NO.	NOTES
Valve	Int	13413	1.496 Head Diameter,OEM # 129005-11100
	Exh	13416	1.181 Head Diameter,OEM # 129100-11130
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Int	122-1483	Positive Type,Viton Material,Metal Clad Style,OEM # 124460-11340
	Exh	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Int	140-3190	0.3158 I.D.,1.930 Length,0.5128 O.D.,OEM # 120130-11860
	Exh	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1665	1.760 Length,OEM # 129795-11120

2,769cc, (2.8L), 4TNE94 Yanmar, 8 Valve, Diesel**4TNE94 13**

L4 169 CID

BORE - 94mm/3.701"

PART		PART NO.	NOTES
Valve	Int	13411	1.614 Head Diameter,OEM # 129900-11100
	Exh	13412	1.378 Head Diameter,OEM # 129900-11110
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Both	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340
Guide	Both	140-3191	0.3158 I.D.,1.810 Length,0.5128 O.D.,OEM # 129150-11810
Spring	Both	160-1664	1.880 Length,OEM # 129900-11120

3,048cc, (3.1L), 4TNV94 Yanmar, 16 Valve, Diesel**4TNV94 14**

L4 186 CID

BORE - 94mm/3.701"

PART		PART NO.	NOTES
Valve	Int	13405	1.299 Head Diameter,OEM # 129907-11100
	Exh	13406	1.102 Head Diameter,OEM # 129907-11110
Keeper	Both	121-1137	1 SQ Bead Type,OEM # 27310-070001
Stem Seal	Both	122-1479	Positive Type,Viton Material,Metal Clad Style,OEM # 124950-11340
Guide	Both	140-3187	0.2760 I.D.,1.695 Length,0.4735 O.D.,OEM # 129907-11800
Spring	Both	160-1661	1.580 Length,OEM # 129907-11120

3,310cc, (3.3L), 4TNE98 Yanmar, 8 Valve, Diesel**4TNE98 15**

L4 202 CID

BORE - 98mm/3.858"

PART		PART NO.	NOTES
Valve	Int	13411	1.614 Head Diameter,OEM # 129900-11100
	Exh	13412	1.378 Head Diameter,OEM # 129900-11110
Keeper	Both	121-1138	1 SQ Bead Type,OEM # 27310-080001
Stem Seal	Both	122-1484	Positive Type,Viton Material,Metal Clad Style,OEM # 121400-11340

YANMAR / TRACTOR (Cont'd)

15 3,310cc, (3.3L), 4TNE98 Yanmar, 8 Valve, Diesel 4TNE98
 (cont.) L4 202 CID BORE - 98mm/3.858"

PART		PART NO.	NOTES
Guide	Both	140-3191	0.3158 I.D., 1.810 Length, 0.5128 O.D., OEM # 129150-11810
Spring	Both	160-1664	1.880 Length, OEM # 129900-11120

16 3,327cc, (3.3L), 4TNV98 Yanmar, 16 Valve, Diesel 4TNV98
 L4 203 CID BORE - 98mm/3.858"

PART		PART NO.	NOTES
Valve	Int	13405	1.299 Head Diameter, OEM # 129907-11100
	Exh	13406	1.102 Head Diameter, OEM # 129907-11110
Keeper	Both	121-1137	1 SQ Bead Type, OEM # 27310-070001
Stem Seal	Both	122-1479	Positive Type, Viton Material, Metal Clad Style, OEM # 124950-11340
Guide	Both	140-3187	0.2760 I.D., 1.695 Length, 0.4735 O.D., OEM # 129907-11800
Spring	Both	160-1661	1.580 Length, OEM # 129907-11120

17 4,408cc, (4.4L), 4TNE106D Yanmar, 8 Valve, Diesel 4TNE106D
 L4 269 CID BORE - 106mm/4.17"

PART		PART NO.	NOTES
Valve	Int	13409	1.752 Head Diameter, OEM # 123900-11100
	Exh	13410	1.535 Head Diameter, OEM # 123900-11110
Keeper	Both	121-1139	1 SQ Bead Type, OEM # 27310-090001
Stem Seal	Both	122-1482	Positive Type, Viton Material, Metal Clad Style, OEM # 121850-11150
Guide	Both	140-3189	0.3545 I.D., 1.990 Length, 0.5325 O.D., OEM # 119000-11810
Spring	Both	160-1663	2.006 Length, OEM # 123900-11120

18 4,408cc, (4.4L), 4TNE106T Yanmar, 8 Valve, Turbo Diesel 4TNE106T
 L4 269 CID BORE - 106mm/4.17"

PART		PART NO.	NOTES
Valve	Int	13409	1.752 Head Diameter, OEM # 123900-11100
	Exh	13410	1.535 Head Diameter, OEM # 123900-11110
Keeper	Both	121-1139	1 SQ Bead Type, OEM # 27310-090001
Stem Seal	Both	122-1482	Positive Type, Viton Material, Metal Clad Style, OEM # 121850-11150
Guide	Both	140-3189	0.3545 I.D., 1.990 Length, 0.5325 O.D., OEM # 119000-11810
Spring	Both	160-1663	2.006 Length, OEM # 123900-11120

19 4,408cc, (4.4L), 4TNV106D Yanmar, 8 Valve, Diesel 4TNV106D-8V
 L4 269 CID BORE - 106mm/4.17"

PART		PART NO.	NOTES
Valve	Int	13409	1.752 Head Diameter, OEM # 123900-11100
	Exh	13410	1.535 Head Diameter, OEM # 123900-11110
Keeper	Both	121-1139	1 SQ Bead Type, OEM # 27310-090001
Stem Seal	Both	122-1482	Positive Type, Viton Material, Metal Clad Style, OEM # 121850-11150
Guide	Both	140-3189	0.3545 I.D., 1.990 Length, 0.5325 O.D., OEM # 119000-11810
Spring	Both	160-1663	2.006 Length, OEM # 123900-11120

20 4,408cc, (4.4L), 4TNV106T Yanmar, 8 Valve, Turbo Diesel 4TNV106T-8V
 L4 269 CID BORE - 106mm/4.17"

PART		PART NO.	NOTES
Valve	Int	13409	1.752 Head Diameter, OEM # 123900-11100
	Exh	13410	1.535 Head Diameter, OEM # 123900-11110
Keeper	Both	121-1139	1 SQ Bead Type, OEM # 27310-090001

(Cont'd) YANMAR / TRACTOR**4,408cc, (4.4L), 4TNV106T Yanmar, 8 Valve, Turbo Diesel****4TNV106T-8V 20**

L4 269 CID

BORE - 106mm/4.17" (cont.)

PART		PART NO.	NOTES
Stem Seal	Both	122-1482	Positive Type,Viton Material,Metal Clad Style,OEM # 121850-11150
Guide	Both	140-3189	0.3545 I.D.,1.990 Length,0.5325 O.D.,OEM # 119000-11810
Spring	Both	160-1663	2.006 Length,OEM # 123900-11120

4,408cc, (4.4L), 4TNV106D Yanmar, 16 Valve, Diesel**4TNV106D-16V 21**

L4 269 CID

BORE - 106mm/4.17"

PART		PART NO.	NOTES
Valve	Int	13403	1.437 Head Diameter,OEM # 123907-11100
	Exh	13404	1.220 Head Diameter,OEM # 123907-11110
Keeper	Both	121-1137	1 SQ Bead Type,OEM # 27310-070001
Stem Seal	Both	122-1478	Positive Type,Viton Material,Metal Clad Style,OEM # 124160-11340
Guide	Int	140-3185	0.2760 I.D.,1.910 Length,0.4735 O.D.,OEM # 123907-11800
	Exh	140-3186	0.2760 I.D.,1.770 Length,0.4735 O.D.,OEM # 123907-11810
Spring	Both	160-1660	1.739 Length,OEM # 123907-11120

4,408cc, (4.4L), 4TNV106T Yanmar, 16 Valve, Turbo Diesel**4TNV106T-16V 22**

L4 269 CID

BORE - 106mm/4.17"

PART		PART NO.	NOTES
Valve	Int	13403	1.437 Head Diameter,OEM # 123907-11100
	Exh	13404	1.220 Head Diameter,OEM # 123907-11110
Keeper	Both	121-1137	1 SQ Bead Type,OEM # 27310-070001
Stem Seal	Both	122-1478	Positive Type,Viton Material,Metal Clad Style,OEM # 124160-11340
Guide	Int	140-3185	0.2760 I.D.,1.910 Length,0.4735 O.D.,OEM # 123907-11800
	Exh	140-3186	0.2760 I.D.,1.770 Length,0.4735 O.D.,OEM # 123907-11810
Spring	Both	160-1660	1.739 Length,OEM # 123907-11120

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1000-1	3/4		1	3/16	45	
SB1000-2	13/16		1	3/16	45	
SB1000-3	1/2		1	7/16	45	
SB1004E-2N	19.5mm		25.5mm	6.5mm	45	
SB1043E-1N	20.5mm		26.5mm	6.5mm	45	
SB1062-2	7/8		1 1/16	3/16	45	
SB1062-3	25/32		1 1/16	3/16	45	
SB1062-4	25/32		1 1/16	1/4	45	
SB1062-5	13/16		1 1/16	3/16	45	
SB1062-50	0.790		1 1/16	0.2540	45	
SB1062-51	0.870		1 1/16	0.1950	45	
SB1062-6	9/16		1 1/16	7/16	45	
SB1083E-2N	21.5mm		27.5mm	6.5mm	45	
SB1088E-1	0.890T	0.955	1.088	0.2210	45	
SB1102E-1	20mm		28mm	8mm	45	
SB1102E-1N	20mm		28mm	8mm	45	
SB1122E-1N	22mm		28.5mm	7mm	45	
SB1125-1	7/8		1 1/8	7/32	45	
SB1125-10	3/4		1 1/8	1/4	45	
SB1125-11	5/8		1 1/8	7/16	45	
SB1125-2	13/16		1 1/8	3/16	45	
SB1125-4	7/8		1 1/8	1/4	45	
SB1125-5	7/8		1 1/8	3/16	45	
SB1125-51	0.854		1 1/8	0.2370	45	
SB1125-52	0.825T	0.925	1 1/8	0.2850	45	
SB1125-53	0.890T	0.976	1 1/8	0.2370	45	
SB1125-54	0.900		1 1/8	0.3250	45	
SB1125-55	0.830		1 1/8	0.2400	45	
SB1125-6	15/16		1 1/8	3/16	45	
SB1125-7	7/8		1 1/8	5/16	45	
SB1125-8	15/16		1 1/8	7/32	45	
SB1142E-2	21mm		29mm	8.5mm	45	
SB1142E-2N	21mm		29mm	8.5mm	45	
SB1160E-1	0.960T	1.032	1.160	0.2210	45	
SB1161E-1	0.910T	0.975	1.161	0.2220	30	005,010,020,030,062
SB1161E-1+005	0.910T	0.975	1.166	0.2220	30	
SB1161E-1+010	0.910T	0.975	1.171	0.2220	30	
SB1161E-1+020	0.910T	0.975	1.181	0.2220	30	
SB1161E-1+030	0.910T	0.975	1.191	0.2220	30	
SB1161E-1+040	0.910T	0.975	1.201	0.2220	30	
SB1161E-1+062	0.910T	0.975	1.223	0.2220	30	
SB1161E-2N	23mm		29.5mm	7mm	45	
SB1175E-1	0.945T	1.032	1.175	0.2210	45	
SB1181E-1	22mm		30mm	8.5mm	45	
SB1181E-1N	22mm		30mm	8.5mm	45	
SB1187-1	1.000		1 3/16	3/16	45	
SB1187-12	1 1/16		1 3/16	7/16	45	
SB1187-2	7/8		1 3/16	1/4	45	
SB1187-4	15/16		1 3/16	3/16	45	
SB1187-5	15/16		1 3/16	1/4	45	
SB1187-51	0.905		1 3/16	0.2570	45	
SB1187-52	0.934T	0.995	1 3/16	0.2570	45	
SB1187-53	0.935		1 3/16	0.2350	45	
SB1187-54	0.880		1 3/16	0.2800	45	
SB1187-7	1.000		1 3/16	7/32	45	
SB1201E-2N	24mm		30.5mm	7mm	45	
SB1218E-1	1.020T	1.123	1.218	0.2210	45	
SB1221E-2	23mm		31mm	8.5mm	45	
SB1221E-2N	23mm		31mm	8.5mm	45	
SB1240E-2N	25.5mm		31.5mm	7mm	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1250-0	1.000		1¼	¾	45	
SB1250-1	1.000		1¼	7/32	45	
SB1250-12	1.000		1¼	5/16	45	
SB1250-13	¾		1¼	7/16	45	
SB1250-15N	0.905		1¼	¼	45	
SB1250-2	1.000		1¼	¾	45	
SB1250-3	1.000		1¼	¼	45	
SB1250-4	7/8		1¼	¾	45	
SB1250-50	0.965T	1.060	1¼	¼	45	
SB1250-52	0.910T	1.052	1¼	0.2850	45	
SB1250-53	1.024		1¼	0.2570	45	
SB1250-54	1.010T	1.056	1¼	0.2570	45	
SB1250-56	0.905T	1.005	1¼	0.2300	45	
SB1250-58	0.955		1¼	0.2550	45	
SB1250-59	0.982		1¼	0.3290	45	
SB1250-60	1.023T	1.110	1¼	0.2730	45	
SB1250-61	0.976		1¼	0.1800	45	
SB1250-62	1.000		1¼	0.3050	45	
SB1250-63	0.930		1¼	0.3250	45	
SB1250-64	0.970		1¼	0.2700	45	
SB1250-65	1.030		1¼	0.2150	45	
SB1260E-1	24mm		32mm	8.5mm	45	
SB1260E-1N	24mm		32mm	8.5mm	45	
SB1262E-1	0.975T	1.045	1.262	¼	30	005,010,020,030,040,062
SB1262E-1+005	0.975T	1.045	1.267	¼	30	
SB1262E-1+010	0.975T	1.045	1.272	¼	30	
SB1262E-1+020	0.975T	1.045	1.282	¼	30	
SB1262E-1+030	0.975T	1.045	1.292	¼	30	
SB1262E-1+040	0.975T	1.045	1.302	¼	30	
SB1262E-1+062	0.975T	1.045	1.324	¼	30	
SB1264E-1	0.977	1.098	1.264	0.2370	45	005
SB1264E-1+005	0.977	1.098	1.269	0.2370	45	
SB1280E-1N	26mm		32.5mm	7mm	45	
SB1299E-1	25mm		33mm	8.5mm	45	
SB1299E-1N	25mm		33mm	8.5mm	45	
SB1312-0	1½		1½	¾	45	
SB1312-1	1½		1½	¾	45	
SB1312-10	1½		1½	5/16	45	
SB1312-11	1¾		1½	7/32	45	
SB1312-13	1½		1½	7/32	45	
SB1312-16	1¾		1½	7/16	45	
SB1312-2	1.000		1½	¾	45	
SB1312-3	1.000		1½	7/32	45	
SB1312-4	1.000		1½	¼	45	
SB1312-5	1.000		1½	5/16	45	
SB1312-50	1.086T	1.153	1½	0.3050	45	
SB1312-52	1.060T	1.087	1½	0.2400	45	
SB1312-53	0.980T	1.106	1½	0.2930	45	
SB1312-56	1.086		1½	0.3050	45	
SB1312-57	1.060		1½	0.2800	45	
SB1312-59	1.044		1½	0.2730	45	
SB1312-6	1½		1½	7/32	45	
SB1312-62	1.065T	1.120	1½	0.2850	45	
SB1312-63	0.965T	1.075	1½	0.2350	45	
SB1312-64	1.045		1½	0.3160	45	
SB1312-67	1.042		1½	0.2380	45	
SB1312-68	0.975		1½	0.2800	45	
SB1312-7	1½		1½	¾	45	
SB1312-9	1½		1½	¼	45	
SB1319E-1N	27mm		33.5mm	7mm	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1322E-1	1.114	1.135	1.322	0.2360	45	
SB1339E-2	26mm		34mm	8.5mm	45	
SB1339E-2N	26mm		34mm	8.5mm	45	
SB1343E-1	1.069	1.180	1.343	0.2370	45	005
SB1343E-1+005	1.069	1.180	1.348	0.2370	45	
SB1348E-1N	1.087		1.348	0.2000	45	010
SB1348E-1N+010	1.087		1.358	0.2000	45	
SB1358E-1N	28mm		34.5mm	7mm	45	
SB1375-0	1 $\frac{1}{8}$		1 $\frac{3}{8}$	$\frac{3}{8}$	45	
SB1375-1	1 $\frac{1}{8}$		1 $\frac{3}{8}$	$\frac{7}{32}$	45	030
SB1375-1+030	1 $\frac{1}{8}$		1.410	$\frac{7}{32}$	45	
SB1375-10	1 $\frac{5}{16}$		1 $\frac{3}{8}$	$\frac{5}{16}$	45	
SB1375-18	1 $\frac{1}{16}$		1 $\frac{3}{8}$	$\frac{5}{16}$	45	
SB1375-1N	1 $\frac{1}{8}$		1 $\frac{3}{8}$	$\frac{7}{32}$	45	
SB1375-2	1 $\frac{1}{8}$		1 $\frac{3}{8}$	$\frac{1}{4}$	45	
SB1375-22	1 $\frac{3}{16}$		1 $\frac{3}{8}$	$\frac{7}{32}$	45	
SB1375-25	1 $\frac{3}{32}$		1 $\frac{3}{8}$	0.2030	45	
SB1375-26	1.000		1 $\frac{3}{8}$	$\frac{9}{32}$	45	
SB1375-27	$\frac{7}{8}$		1 $\frac{3}{8}$	$\frac{7}{16}$	45	
SB1375-3	1 $\frac{1}{16}$		1 $\frac{3}{8}$	$\frac{3}{16}$	45	
SB1375-3N	1 $\frac{1}{16}$		1 $\frac{3}{8}$	$\frac{3}{16}$	45	
SB1375-4	1 $\frac{1}{8}$		1 $\frac{3}{8}$	$\frac{3}{16}$	45	
SB1375-5	1 $\frac{1}{8}$		1 $\frac{3}{8}$	17/64	45	
SB1375-50	1.109T	1.218	1 $\frac{3}{8}$	0.2550	45	
SB1375-51	1.060T	1.150	1 $\frac{3}{8}$	0.2800	45	
SB1375-52	1.000T	1.109	1 $\frac{3}{8}$	0.4100	45	
SB1375-54	1.022T	1.085	1 $\frac{3}{8}$	0.2300	45	
SB1375-55	1.120		1 $\frac{3}{8}$	0.3250	45	
SB1375-56	1.102		1 $\frac{3}{8}$	0.2600	45	
SB1375-6	1 $\frac{1}{16}$		1 $\frac{3}{8}$	$\frac{7}{32}$	45	
SB1375-60	1.107T	1.217	1 $\frac{3}{8}$	0.2370	45	
SB1375-61	1.130T	1.272	1 $\frac{3}{8}$	0.3040	45	
SB1375-62	1.100T	1.210	1 $\frac{3}{8}$	0.3000	45	
SB1375-63	1.057T	1.110	1 $\frac{3}{8}$	0.2400	45	
SB1375-64	1.000		1 $\frac{3}{8}$	0.2800	45	
SB1375-65	1.165		1 $\frac{3}{8}$	0.3100	45	
SB1375-7	1 $\frac{1}{16}$		1 $\frac{3}{8}$	$\frac{1}{4}$	45	
SB1375-8	1.000		1 $\frac{3}{8}$	$\frac{3}{16}$	45	
SB1375E-1	1.100T	1.140	1.375	0.2270	30	010
SB1375E-1+010	1.100	1.140	1.385	0.2270	30	
SB1375E-2N	1.100T	1.130	1.375	0.2270	45	005, 010, 020
SB1375E-2N+005	1.100T	1.130	1.380	0.2270	45	
SB1375E-2N+010	1.100	1.140	1.385	0.2270	45	
SB1375E-2N+020	1.100T	1.130	1.395	0.2270	45	
SB1378E-1	26mm		35mm	9mm	45	
SB1378E-1N	26mm		35mm	9mm	45	
SB1381E-1	1.161	1.240	1.381	0.255	30	
SB1398E-1N	28.5mm		35.5mm	7.5mm	45	
SB1400E-1PM	1.170	1.205	1.400	0.2170	45	
SB1417E-1	27mm		36mm	9mm	45	
SB1417E-1N	27mm		36mm	9mm	45	
SB1437-1	1 $\frac{1}{4}$		1 $\frac{7}{16}$	$\frac{7}{32}$	45	
SB1437-10	1 $\frac{1}{8}$		1 $\frac{7}{16}$	$\frac{3}{16}$	45	
SB1437-14	1 $\frac{7}{32}$		1 $\frac{7}{16}$	$\frac{1}{4}$	45	
SB1437-17	1.000		1 $\frac{7}{16}$	$\frac{1}{4}$	45	
SB1437-18	1.000		1 $\frac{7}{16}$	$\frac{5}{16}$	45	
SB1437-1N	1 $\frac{1}{4}$		1 $\frac{7}{16}$	$\frac{7}{32}$	45	
SB1437-2	1 $\frac{7}{32}$		1 $\frac{7}{16}$	$\frac{7}{32}$	45	
SB1437-22	1 $\frac{1}{16}$		1 $\frac{7}{16}$	$\frac{5}{16}$	45	
SB1437-24	1 $\frac{3}{16}$		1 $\frac{7}{16}$	$\frac{3}{16}$	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1437-25	1 ³ / ₁₆		1 ⁷ / ₁₆	5/ ₁₆	45	
SB1437-28	1 ¹ / ₄		1 ⁷ / ₁₆	3/ ₁₆	45	
SB1437-2N	1 ⁷ / ₃₂		1 ⁷ / ₁₆	7/ ₃₂	45	
SB1437-2PM	1 ⁷ / ₃₂		1 ⁷ / ₁₆	7/ ₃₂	45	
SB1437-3	1 ³ / ₁₆		1 ⁷ / ₁₆	7/ ₃₂	45	
SB1437-30	1 ¹ / ₄		1 ⁷ / ₁₆	5/ ₁₆	45	
SB1437-32	1 ⁵ / ₁₆		1 ⁷ / ₁₆	7/ ₁₆	45	
SB1437-3N	1 ³ / ₁₆		1 ⁷ / ₁₆	7/ ₃₂	45	
SB1437-3PM	1 ³ / ₁₆		1 ⁷ / ₁₆	7/ ₃₂	45	
SB1437-4	1 ¹ / ₈		1 ⁷ / ₁₆	7/ ₃₂	45	
SB1437-5	1 ³ / ₁₆		1 ⁷ / ₁₆	1/ ₄	45	
SB1437-50	1.140T	1.241	1 ⁷ / ₁₆	0.3050	45	
SB1437-51	1.130T	1.311	1 ⁷ / ₁₆	0.2500	45	
SB1437-53	1.090T	1.101	1 ⁷ / ₁₆	0.3540	45	
SB1437-56	1.110T	1.215	1 ⁷ / ₁₆	0.3150	45	
SB1437-58	1.095T	1.262	1 ⁷ / ₁₆	0.2370	45	
SB1437-59	1.180T	1.245	1 ⁷ / ₁₆	0.3050	45	
SB1437-6	1 ¹ / ₈		1 ⁷ / ₁₆	5/ ₁₆	45	
SB1437-60	1.125		1 ⁷ / ₁₆	0.2570	45	
SB1437-61	1.162		1 ⁷ / ₁₆	0.3100	45	
SB1437-62	1.200		1 ⁷ / ₁₆	0.2970	45	
SB1437-63	1.181T	1.285	1 ⁷ / ₁₆	0.2800	45	
SB1437-65	1.105		1 ⁷ / ₁₆	0.3220	45	
SB1437-66	1.120		1 ⁷ / ₁₆	0.3000	45	
SB1437-67	1.180T	1.270	1 ⁷ / ₁₆	0.2550	45	
SB1437-68	1.135T	1.250	1 ⁷ / ₁₆	0.3160	45	
SB1437-69	1.140T	1.228	1 ⁷ / ₁₆	0.2370	45	
SB1437-72	1.150T	1.243	1 ⁷ / ₁₆	0.2570	45	
SB1437-73	1.142T	1.265	1 ⁷ / ₁₆	0.3360	45	
SB1437-74	1.162		1 ⁷ / ₁₆	0.2300	45	
SB1437-75	1.175		1 ⁷ / ₁₆	0.2600	45	
SB1437-8	1 ¹ / ₈		1 ⁷ / ₁₆	1/ ₄	45	
SB1437-9	1 ¹ / ₁₆		1 ⁷ / ₁₆	3/ ₁₆	45	
SB1437E-2	1.125T	1.219	1.437	0.2365	30	
SB1437E-3N	29.5mm		36.5mm	7.5mm	45	
SB1441E-1	1-13/64T	1.245	1.441	0.2150	30	
SB1442E-1	1-9/64T	1.200	1.442	1/ ₄	30	005,010,020,030,040,063
SB1442E-1+005	1-9/64T	1.200	1.447	1/ ₄	30	
SB1442E-1+010	1-9/64T	1.200	1.452	1/ ₄	30	
SB1442E-1+020	1-9/64T	1.200	1.462	1/ ₄	30	
SB1442E-1+030	1-9/64T	1.200	1.472	1/ ₄	30	
SB1442E-1+040	1-9/64T	1.200	1.482	1/ ₄	30	
SB1442E-1+063	1-9/64T	1.200	1.505	1/ ₄	30	
SB1442E-2	1 ⁷ / ₃₂		1.442	1 ¹ / ₃₂	45	
SB1457E-2	28mm		37mm	9mm	45	
SB1457E-2N	28mm		37mm	9mm	45	
SB1459E-1	1.200		1.459	0.2170	24.5	
SB1476E-2	1.200T	1.277	1.476	0.2445	30	
SB1476E-3N	30.5mm		37.5mm	7.5mm	45	
SB1479E-1C	1.210T	1.295	1.479	0.2570	45	
SB1480E-2	1.288T	1.299	1.480	1/ ₄	45	010
SB1480E-2+010	1.288T	1.299	1.490	1/ ₄	45	
SB1486E-1	1.270		1.486	0.2910	30	
SB1496E-1	29mm		38mm	9mm	45	
SB1496E-1N	29mm		38mm	9mm	45	
SB1500-0	1 ¹ / ₄		1 ¹ / ₂	3/ ₈	45	
SB1500-1	1 ¹ / ₄		1 ¹ / ₂	7/ ₃₂	45	
SB1500-10	1 ³ / ₁₆		1 ¹ / ₂	5/ ₁₆	45	
SB1500-11	1 ⁷ / ₃₂		1 ¹ / ₂	1/ ₄	45	
SB1500-12	1 ¹ / ₄		1 ¹ / ₂	5/ ₁₆	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1500-13	1¼		1½	¾ ₁₆	45	
SB1500-19	1.000		1½	¾ ₈	45	
SB1500-1N	1¼		1½	7 ₃₂	45	
SB1500-1PM	1¼		1½	7 ₃₂	45	
SB1500-2	1¾ ₁₆		1½	7 ₃₂	45	
SB1500-23	1¼ ₁₆		1½	5 ₁₆	45	
SB1500-26	1¾ ₁₆		1½	¾ ₈	45	
SB1500-28	1¼		1½	9 ₃₂	45	
SB1500-29	15 ₁₆		1½	¾ ₁₆	45	
SB1500-3	1¼		1½	¼	45	003
SB1500-3+003	1¼		1.507	¼	45	
SB1500-30	15 ₁₆		1½	7 ₃₂	45	
SB1500-33	1.000		1½	7 ₁₆	45	
SB1500-4	17 ₃₂ T	11 ₃₂	1½	7 ₃₂	45	
SB1500-5	1⅛		1½	¾ ₁₆	45	
SB1500-50	1.203T	1.266	1½	0.2800	45	
SB1500-50N	1.203T	1.266	1½	0.2800	45	
SB1500-53	1.180T	1.241	1½	0.3070	45	
SB1500-54	1.180T	1.325	1½	0.3070	45	
SB1500-56	1.275T	1.318	1½	0.2500	45	
SB1500-57	1.100T	1.213	1½	0.3160	45	
SB1500-58	1.200T	1.220	1½	0.3150	45	
SB1500-6	1¾ ₁₆		1½	¼	45	
SB1500-62	1.220T	1.284	1½	0.3100	45	
SB1500-63	1.210T	1.248	1½	0.3450	45	
SB1500-70	1.203		1½	0.2830	45	
SB1500-71	1.240		1½	0.3170	45	
SB1500-73	1.230		1½	0.2780	45	
SB1500-73N	1.230		1½	0.2780	45	
SB1500-74	1.180T	1.280	1½	0.2140	45	
SB1500-75	1.180		1½	0.3000	45	
SB1500-77	1.175T	1.235	1½	0.2360	45	
SB1500-79	1.295		1½	0.2620	45	
SB1500-8	1⅛		1½	7 ₃₂	45	
SB1500-80	1.250		1½	0.2300	45	
SB1500-9	1⅛		1½	5 ₁₆	45	
SB1505E-1	1¼		1.504	0.3350	45	
SB1516E-1	1¼		1.5160	¼	45	
SB1516E-2N	31.5mm		38.5mm	7.5mm	45	
SB1518E-1	1.245T	1.325	1.518	0.2450	45	
SB1535E-1	30mm		39mm	9mm	45	
SB1535E-1N	30mm		39mm	9mm	45	
SB1536E-2N	1.255T	1.405	1.5365	0.3585	45	015
SB1536E-2N+015	1.255T	1.405	1.5515	0.3585	45	
SB1538E-2	1.240T	1.395	1.5385	0.2550	45	
SB1539E-2	1.297T	1.390	1.5395	0.2760	0	
SB1539E-5	1.240R	1.345	1.5385	0.2540	45	
SB1540E-1	1.295		1.540	0.2610	30	
SB1554E-1	1.280T	1.324	1.554	0.2360	30	010, 020
SB1554E-1+010	1.280T	1.324	1.564	0.2360	30	
SB1554E-1+020	1.280T	1.324	1.574	0.2360	30	
SB1554E-2	1.301T	1.348	1.554	0.1900	45	010,020
SB1554E-2+010	1.301T	1.348	1.564	0.1900	45	
SB1554E-2+020	1.301T	1.348	1.574	0.1900	45	
SB1555E-1N	32.5mm		39.5mm	7.5mm	45	
SB1558E-1PM	1.320		1.558	0.2170	45	
SB1562-0	1¾ ₁₆		19 ₁₆	¾ ₈	45	
SB1562-1	15 ₁₆		19 ₁₆	7 ₃₂	45	005,010
SB1562-1+005	15 ₁₆		1.572	7 ₃₂	45	
SB1562-1+010	15 ₁₆		1.577	7 ₃₂	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1562-11	1 ³ / ₁₆		1 ⁹ / ₁₆	5/ ₁₆	30	
SB1562-12	1 ³ / ₈		1 ⁹ / ₁₆	7/ ₃₂	45	
SB1562-13	1 ³ / ₁₆		1 ⁹ / ₁₆	7/ ₃₂	45	
SB1562-15	1 ¹ / ₈		1 ⁹ / ₁₆	1/ ₄	45	
SB1562-16	1 ¹ / ₄		1 ⁹ / ₁₆	3/ ₁₆	45	
SB1562-17	1 ¹ / ₄		1 ⁹ / ₁₆	5/ ₁₆	45	
SB1562-18	1 ⁵ / ₁₆		1 ⁹ / ₁₆	5/ ₁₆	45	
SB1562-1N	1 ⁵ / ₁₆		1 ⁹ / ₁₆	7/ ₃₂	45	
SB1562-1PM	1 ⁵ / ₁₆		1 ⁹ / ₁₆	7/ ₃₂	45	
SB1562-2	1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	1/ ₄	45	
SB1562-26	1 ¹ / ₁₆		1 ⁹ / ₁₆	3/ ₈	45	
SB1562-28	1 ¹ / ₈		1 ⁹ / ₁₆	5/ ₁₆	45	
SB1562-29	1 ¹ / ₈		1 ⁹ / ₁₆	3/ ₈	45	
SB1562-2N	1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	1/ ₄	45	
SB1562-3	1 ¹¹ / ₃₂		1 ⁹ / ₁₆	7/ ₃₂	45	
SB1562-31	1 ³ / ₁₆		1 ⁹ / ₁₆	1/ ₄	45	
SB1562-34	1 ³ / ₁₆ T	1 ¹ / ₄	1 ⁹ / ₁₆	0.3100	45	
SB1562-35	1 ¹ / ₄		1 ⁹ / ₁₆	3/ ₈	45	
SB1562-36	1 ⁵ / ₁₆		1 ⁹ / ₁₆	3/ ₁₆	45	
SB1562-36N	1 ⁵ / ₁₆		1 ⁹ / ₁₆	3/ ₁₆	45	
SB1562-39	1 ⁵ / ₁₆		1 ⁹ / ₁₆	3/ ₈	45	
SB1562-4	1 ⁵ / ₁₆		1 ⁹ / ₁₆	1/ ₄	45	010
SB1562-4+010	1 ⁵ / ₁₆		1.577	1/ ₄	45	
SB1562-42	1 ³ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	7/ ₃₂	45	
SB1562-44	1 ¹ / ₁₆		1 ⁹ / ₁₆	7/ ₁₆	45	
SB1562-46N	1 ¹ / ₄		1 ⁹ / ₁₆	9/ ₃₂	45	
SB1562-5	1 ³ / ₈		1 ⁹ / ₁₆	1/ ₄	45	
SB1562-50	1.260T	1.412	1 ⁹ / ₁₆	0.2800	45	
SB1562-51	1.245T	1.268	1 ⁹ / ₁₆	0.3540	45	
SB1562-54	1.220T	1.356	1 ⁹ / ₁₆	0.3440	45	
SB1562-57	1.246T	1.303	1 ⁹ / ₁₆	0.2300	45	
SB1562-6	1 ¹ / ₄		1 ⁹ / ₁₆	7/ ₃₂	45	
SB1562-66	1.265T	1.294	1 ⁹ / ₁₆	0.2800	45	
SB1562-67	1.255T	1.307	1 ⁹ / ₁₆	0.3190	45	
SB1562-69	1.219		1 ⁹ / ₁₆	0.3170	45	
SB1562-69N	1.219		1 ⁹ / ₁₆	0.3170	45	
SB1562-6N	1 ¹ / ₄		1 ⁹ / ₁₆	7/ ₃₂	45	
SB1562-6PM	1 ¹ / ₄		1 ⁹ / ₁₆	7/ ₃₂	45	
SB1562-7	1 ¹ / ₄		1 ⁹ / ₁₆	1/ ₄	45	
SB1562-72	1.180		1 ⁹ / ₁₆	0.3160	45	
SB1562-74	1.290T	1.325	1 ⁹ / ₁₆	0.3240	45	
SB1562-77	1.170		1 ⁹ / ₁₆	0.2670	45	
SB1562-78	1.230		1 ⁹ / ₁₆	0.2780	45	
SB1562-8	1 ⁵ / ₁₆		1 ⁹ / ₁₆	7/ ₃₂	30	
SB1562-9	1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	7/ ₃₂	45	
SB1562-9N	1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	7/ ₃₂	45	
SB1575E-3	30mm		40mm	9.5mm	45	
SB1575E-3N	30mm		40mm	9.5mm	45	
SB1577E-1	1.340T	1.412	1.577	0.2200	30	010, 020
SB1577E-1+010	1.340T	1.412	1.587	0.2200	30	
SB1577E-1+020	1.340T	1.412	1.597	0.2200	30	
SB1578E-1	1.300T	1.331	1.578	0.3170	45	
SB1579E-1C	1.210R	1.369	1.5775	0.2525	30	
SB1584E-1	1.328T	1.397	1.584	1/ ₄	30	010
SB1584E-1+010	1.328T	1.397	1.594	1/ ₄	30	
SB1594E-1N	33mm		40.5mm	8mm	45	
SB1600E-1	1.340		1.600	0.3000	45	020
SB1600E-1+020	1.340		1.620	0.3000	45	
SB1609E-1	1.400		1.609	1/ ₄	45	
SB1614E-1	31mm		41mm	9.5mm	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1614E-1N	31mm		41mm	9.5mm	45	
SB1624E-1N	1-21/64		1.624	3/8	45	
SB1625-0	1 3/8		1 5/8	3/8	45	
SB1625-1	1 3/8		1 5/8	7/32	45	005,010
SB1625-1+005	1 3/8		1.635	7/32	45	
SB1625-1+010	1 3/8		1.640	7/32	45	
SB1625-10	1 5/16		1 5/8	5/16	45	
SB1625-11	1 11/32		1 5/8	7/32	45	006
SB1625-11+006	1 11/32		1.636	7/32	45	
SB1625-14	1 3/8		1 5/8	5/16	45	
SB1625-15	1 3/8		1 5/8	17/64	45	
SB1625-17	1 7/16		1 5/8	7/32	45	
SB1625-18	1 5/16		1 5/8	9/32	45	
SB1625-1N	1 3/8		1 5/8	7/32	45	
SB1625-1PM	1 3/8		1 5/8	7/32	45	
SB1625-2	1 3/8		1 5/8	1/4	45	
SB1625-20	1 5/16		1 5/8	0.3950	45	
SB1625-29	1 1/4		1 5/8	3/8	45	
SB1625-2N	1 3/8		1 5/8	1/4	45	
SB1625-3	1 5/16		1 5/8	1/4	45	
SB1625-30	1 5/16		1 5/8	3/16	45	
SB1625-33	1 3/8		1 5/8	3/16	45	
SB1625-35	1 7/16		1 5/8	3/16	45	
SB1625-36	1 7/16		1 5/8	1/4	45	
SB1625-39	1 13/32		1 5/8	1/4	45	
SB1625-3N	1 5/16		1 5/8	1/4	45	
SB1625-4	1 5/16		1 5/8	7/32	45	020
SB1625-4+020	1 5/16		1.650	7/32	45	
SB1625-41	1 1/8		1 5/8	7/16	45	
SB1625-4N	1 5/16		1 5/8	7/32	45	
SB1625-4PM	1 5/16		1 5/8	7/32	45	
SB1625-5	1 11/32		1 5/8	1/4	45	
SB1625-50	1.340T	1.426	1 5/8	0.3070	45	
SB1625-52	1.260T	1.427	1 5/8	0.3150	45	
SB1625-53	1.255T	1.437	1 5/8	0.3000	45	
SB1625-54	1.329		1 5/8	0.2800	45	
SB1625-55	1.333T	1.495	1 5/8	0.2370	45	
SB1625-56	1.298T	1.382	1 5/8	0.3170	45	010,030
SB1625-56+010	1.298T	1.382	1.642	0.3170	45	
SB1625-56+030	1.298T	1.382	1.662	0.3170	45	
SB1625-58	1.280T	1.361	1 5/8	0.3150	45	
SB1625-59	1.380		1 5/8	0.2570	45	
SB1625-6	1 1/4		1 5/8	1/4	45	
SB1625-60	1 1/4T	1.408	1 5/8	0.2930	45	
SB1625-62	1.320		1 5/8	0.3000	45	
SB1625-63	1.345T	1.380	1 5/8	0.2900	45	
SB1625-64	1.335T	1.387	1 5/8	0.4200	45	
SB1625-64N	1.335T	1.387	1 5/8	0.4200	45	
SB1625-7	1 1/4		1 5/8	5/16	45	
SB1625-8	1 3/16		1 5/8	3/8	45	
SB1625-9	1 1/4		1 5/8	7/32	45	
SB1626E-1N	1.348T	1.406	1.626	0.3650	45	
SB1628E-1N	1.348T	1.524	1.628	0.3650	45	010,013
SB1628E-1N+010	1.348T	1.524	1.638	0.3650	45	
SB1628E-1N+013	1.348T	1.524	1.641	0.3650	45	
SB1628E-2	1 11/32T	1.380	1.628	1/4	30	010,020,030
SB1628E-2+010	1 11/32T	1.380	1.638	1/4	30	
SB1628E-2+020	1 11/32T	1.380	1.648	1/4	30	
SB1628E-2+030	1 11/32T	1.380	1.658	1/4	30	
SB1628E-3	1.357T	1.414	1.628	0.2490	30	010,020,030

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1628E-3+010	1.357T	1.414	1.638	0.2490	30	
SB1628E-3+020	1.357T	1.414	1.648	0.2490	30	
SB1628E-3+030	1.357T	1.414	1.658	0.2490	30	
SB1628E-3SA	1.357		1.6285	0.2490	30	
SB1630E-1	1.335		1.630	0.3120	45	005,010,020
SB1630E-1+005	1.335		1.635	0.3120	45	
SB1630E-1+010	1.335		1.640	0.3120	45	
SB1630E-1+020	1.335		1.650	0.3120	45	
SB1630E-1N	1.335		1.630	0.3120	45	
SB1634E-2N	33.5mm		41.5mm	8mm	45	
SB1634E-3	1.360T	1.466	1.6340	0.3000	45	
SB1634E-3N	1.360T	1.466	1.6340	0.3000	45	
SB1638E-1N	1.412		1.638	0.2180	45	
SB1638E-2	1.400		1.638	0.2180	30	
SB1638E-2T	1.400		1.638	0.2370	30	
SB1640E-1	1 $\frac{3}{8}$		1.640	$\frac{1}{4}$	45	
SB1654E-1N	1.367		1.654	0.3120	45	
SB1654E-3	32mm		42mm	9.5mm	45	
SB1654E-3N	32mm		42mm	9.5mm	45	
SB1656E-1	1.410		1.656	0.2580	30	
SB1656E-2	1.273T	1.387	1.656	0.3170	30	
SB1656E-3	1.410		1.656	0.2180	30	
SB1657E-1	1.312T	1.460	1.657	0.3950	45	
SB1658E-1C	1.300R	1.433	1.6585	0.2880	30	
SB1669E-1	1.372T	1.429	1.669	0.2720	37	
SB1669E-2N	1.415T	1.530	1.669	0.2765	45	
SB1670E-1	1.420		1.670	0.3020	30	
SB1671E-1N	1.367		1.671	0.3110	45	
SB1673E-1N	34.5mm		42.5mm	8mm	45	
SB1676E-1	1.400T	1.486	1.676	0.2370	30	
SB1678E-1	1.446		1.678	0.3120	45	
SB1681E-1	1-13/64		1.681	$\frac{5}{16}$	45	
SB1681E-3	1.251	1.351	1.681	$\frac{3}{8}$	45	
SB1687-0	1 $\frac{9}{16}$		1 $\frac{11}{16}$	$\frac{3}{8}$	45	
SB1687-1	1 $\frac{13}{32}$		1 $\frac{11}{16}$	$\frac{1}{4}$	45	010
SB1687-1+010	1 $\frac{13}{32}$		1.702	$\frac{1}{4}$	45	
SB1687-10	1 $\frac{3}{8}$ T	1 $\frac{7}{16}$	1 $\frac{11}{16}$	$\frac{5}{16}$	45	
SB1687-10N	1 $\frac{3}{8}$ T	1 $\frac{7}{16}$	1 $\frac{11}{16}$	$\frac{5}{16}$	45	
SB1687-11	1 $\frac{9}{16}$		1 $\frac{11}{16}$	$\frac{5}{16}$	45	
SB1687-12	1 $\frac{3}{8}$		1 $\frac{11}{16}$	$\frac{3}{8}$	45	
SB1687-13	1 $\frac{7}{16}$		1 $\frac{11}{16}$	$\frac{9}{16}$	45	
SB1687-14	1 $\frac{7}{16}$		1 $\frac{11}{16}$	$\frac{3}{8}$	45	
SB1687-15	1 $\frac{7}{16}$		1 $\frac{11}{16}$	$\frac{5}{32}$	45	
SB1687-16	1 $\frac{7}{16}$		1 $\frac{11}{16}$	$\frac{3}{16}$	45	
SB1687-17	1 $\frac{1}{2}$		1 $\frac{11}{16}$	$\frac{7}{32}$	45	
SB1687-18	1 $\frac{3}{8}$		1 $\frac{11}{16}$	$\frac{9}{32}$	45	
SB1687-19	1 $\frac{1}{4}$		1 $\frac{11}{16}$	$\frac{1}{4}$	45	
SB1687-1N	1 $\frac{13}{32}$		1 $\frac{11}{16}$	$\frac{1}{4}$	45	
SB1687-2	1 $\frac{7}{16}$		1 $\frac{11}{16}$	$\frac{7}{32}$	45	010
SB1687-2+010	1 $\frac{7}{16}$		1.702	$\frac{7}{32}$	45	
SB1687-22	1 $\frac{1}{4}$		1 $\frac{11}{16}$	$\frac{7}{32}$	45	
SB1687-23	1 $\frac{1}{4}$		1 $\frac{11}{16}$	$\frac{5}{16}$	45	
SB1687-27	1 $\frac{11}{32}$		1 $\frac{11}{16}$	$\frac{7}{32}$	45	
SB1687-29	1 $\frac{3}{8}$		1 $\frac{11}{16}$	$\frac{3}{16}$	45	
SB1687-2N	1 $\frac{7}{16}$		1 $\frac{11}{16}$	$\frac{7}{32}$	45	
SB1687-2PM	1 $\frac{7}{16}$		1 $\frac{11}{16}$	$\frac{7}{32}$	45	
SB1687-3	1 $\frac{7}{16}$		1 $\frac{11}{16}$	$\frac{1}{4}$	45	
SB1687-32	1 $\frac{1}{2}$		1 $\frac{11}{16}$	$\frac{3}{16}$	45	
SB1687-33	1 $\frac{1}{2}$		1 $\frac{11}{16}$	$\frac{1}{4}$	45	
SB1687-35	1 $\frac{1}{2}$		1 $\frac{11}{16}$	$\frac{3}{8}$	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1687-3N	1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1/4	45	
SB1687-4	1 ¹¹ / ₃₂		1 ¹¹ / ₁₆	5/16	45	
SB1687-40	1 ¹³ / ₃₂		1 ¹¹ / ₁₆	5/16	45	
SB1687-42	1 ³ / ₁₆		1 ¹¹ / ₁₆	7/16	45	
SB1687-4N	1 ¹¹ / ₃₂		1 ¹¹ / ₁₆	5/16	45	
SB1687-5	1 ³ / ₈		1 ¹¹ / ₁₆	7/32	45	
SB1687-51	1.390T	1.452	1 ¹¹ / ₁₆	0.3050	45	
SB1687-54	1.450		1 ¹¹ / ₁₆	0.2970	45	
SB1687-55	1.340		1 ¹¹ / ₁₆	0.3150	45	
SB1687-56	1.375T	1.475	1 ¹¹ / ₁₆	0.2950	45	
SB1687-58	1.397T	1.469	1 ¹¹ / ₁₆	0.2750	45	
SB1687-5N	1 ³ / ₈		1 ¹¹ / ₁₆	7/32	45	
SB1687-6	1 ⁵ / ₁₆		1 ¹¹ / ₁₆	1/4	45	
SB1687-7	1 ³ / ₈		1 ¹¹ / ₁₆	1/4	45	005
SB1687-7+005	1 ³ / ₈		1.697	1/4	45	
SB1687-8	1 ³ / ₈		1 ¹¹ / ₁₆	5/16	45	
SB1687-9	1 ⁵ / ₁₆		1 ¹¹ / ₁₆	7/32	45	
SB1687-9N	1 ⁵ / ₁₆		1 ¹¹ / ₁₆	7/32	45	
SB1687E-1N	1 ⁷ / ₁₆ T	1.546	1.687	0.3650	45	See SB1693E-1N
SB1687E-4N	1.410		1.687	0.3650	20	010,020
SB1687E-4N+010	1.410		1.697	0.3650	20	
SB1687E-4N+020	1.410		1.707	0.3650	20	
SB1687E-5C	1.318T	1.358	1.687	0.3150	20	010,020
SB1687E-5C+010	1.318T	1.358	1.697	0.3150	20	
SB1687E-5C+020	1.318T	1.358	1.707	0.3150	20	
SB1687E-6C	1.437T	1.546	1.687	0.3650	45	
SB1690E-1	1.251	1.351	1.690	3/8	45	
SB1691E-1	1 ⁷ / ₁₆		1.691	0.1810	30	010
SB1691E-1+010	1 ⁷ / ₁₆		1.701	0.1810	30	
SB1691E-2	1 ⁷ / ₁₆		1.693	0.2000	30	010
SB1691E-2+010	1 ⁷ / ₁₆		1.701	0.2000	30	
SB1692E-1N	1.430		1.693	0.2480	30	005,015,030
SB1692E-1N+005	1.430		1.698	0.2480	30	
SB1692E-1N+015	1.430		1.708	0.2480	30	
SB1692E-1N+030	1.430		1.723	0.2480	30	
SB1693E-1N	1 ⁷ / ₁₆ T	1.546	1.693	0.3650	45	010,020,030
SB1693E-1N+010	1 ⁷ / ₁₆ T	1.546	1.703	0.3650	45	
SB1693E-1N+020	1 ⁷ / ₁₆ T	1.546	1.713	0.3650	45	
SB1693E-1N+030	1 ⁷ / ₁₆ T	1.546	1.723	0.3650	45	
SB1693E-2	1 ⁷ / ₁₆ T	1.546	1.693	3/8	45	020,030
SB1693E-2+020	1 ⁷ / ₁₆ T	1.546	1.713	3/8	45	
SB1693E-2+030	1 ⁷ / ₁₆ T	1.546	1.723	3/8	45	
SB1693E-4	33mm		43mm	9.5mm	45	
SB1693E-4N	33mm		43mm	9.5mm	45	
SB1693E-8N	1.458		1.693	0.2340	45	005
SB1693E-8N+005	1.458		1.698	0.2340	45	
SB1695E-1	1.348T	1.482	1.695	0.2430	30	010,020
SB1695E-1+010	1.345T	1.482	1.705	0.2420	30	
SB1695E-1+020	1.345T	1.482	1.715	0.2420	30	
SB1696E-1C	1.260R	1.359	1.696	0.2860	30	
SB1696E-2C	1.295R	1.439	1.696	0.3160	30	
SB1696E-3	1.350R	1.452	1.6965	0.3190	45	
SB1696E-4	1.350R	1.4525	1.6965	0.3055	36	
SB1697E-1	1.450T	1.542	1.697	0.2760	45	
SB1697E-2	1.300R	1.4255	1.6955	0.2950	40	
SB1711E-1C	1.416T	1.525	1.711	0.3780	45	
SB1722E-1	1.357T	1.574	1.722	0.2650	45	
SB1722E-3	1.382T	1.455	1.722	0.2650	20	
SB1725E-2N	1.460		1.725	0.2510	30	
SB1727E-2N	1.310T	1.421	1.727	0.3800	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1732E-1	34mm		44mm	9.5mm	45	
SB1732E-1N	34mm		44mm	9.5mm	45	
SB1733E-2N	1.455T	1.597	1.733	0.3650	45	
SB1744E-1N	1.445		1.744	0.3120	45	
SB1750-0	1 $\frac{3}{8}$		1 $\frac{3}{4}$	$\frac{3}{8}$	45	
SB1750-1	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	010
SB1750-1+010	1 $\frac{1}{2}$		1.765	$\frac{1}{4}$	45	
SB1750-10	1 $\frac{1}{4}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-11	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{3}{16}$	45	
SB1750-12	1.438T	1.610	1 $\frac{3}{4}$	0.2030	45	
SB1750-13	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{5}{16}$	45	
SB1750-15	1 $\frac{3}{8}$		1 $\frac{3}{4}$	$\frac{9}{32}$	45	
SB1750-17	1 $\frac{5}{16}$		1 $\frac{3}{4}$	$\frac{5}{16}$	45	
SB1750-1N	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-2	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	010
SB1750-2+010	1 $\frac{1}{2}$		1.765	$\frac{7}{32}$	45	
SB1750-20	1 $\frac{1}{4}$		1 $\frac{3}{4}$	$\frac{5}{16}$	45	
SB1750-23	1 $\frac{5}{16}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	
SB1750-24	1 $\frac{5}{16}$		1 $\frac{3}{4}$	$\frac{3}{8}$	45	
SB1750-25	1 $\frac{5}{16}$		1 $\frac{3}{4}$	$\frac{7}{16}$	45	
SB1750-2N	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	
SB1750-2PM	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	
SB1750-3	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	
SB1750-32	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{3}{8}$	45	
SB1750-33	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{7}{16}$	45	
SB1750-34	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{3}{16}$	45	
SB1750-36	1 $\frac{1}{2}$		1 $\frac{3}{4}$	$\frac{3}{8}$	45	
SB1750-38	1 $\frac{5}{16}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	
SB1750-39	1 $\frac{5}{16}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-3N	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	
SB1750-4	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-43	1 $\frac{1}{4}$		1 $\frac{3}{4}$	$\frac{7}{16}$	45	
SB1750-4N	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-5	1 $\frac{7}{16}$		1 $\frac{3}{4}$	$\frac{5}{16}$	45	
SB1750-51	1.410T	1.600	1 $\frac{3}{4}$	0.2800	45	
SB1750-52	1.455T	1.595	1 $\frac{3}{4}$	0.3070	45	
SB1750-59	1.360T	1.503	1 $\frac{3}{4}$	0.3150	45	
SB1750-6	1 $\frac{5}{16}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-60	1.437T	1.555	1 $\frac{3}{4}$	0.3020	45	
SB1750-61	1.445T	1.617	1 $\frac{3}{4}$	0.3100	45	
SB1750-65	1.468		1 $\frac{3}{4}$	0.2760	45	
SB1750-68	1.415		1 $\frac{3}{4}$	0.3160	45	
SB1750-7	1 $\frac{3}{8}$		1 $\frac{3}{4}$	$\frac{7}{32}$	45	
SB1750-8	1 $\frac{3}{8}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-8N	1 $\frac{3}{8}$		1 $\frac{3}{4}$	$\frac{1}{4}$	45	
SB1750-9	1 $\frac{3}{8}$		1 $\frac{3}{4}$	$\frac{5}{16}$	45	
SB1772E-2	34.5mm		45mm	10mm	45	
SB1772E-2N	34.5mm		45mm	10mm	45	
SB1775E-1	1.458T	1.680	1.775	0.3000	45	
SB1775E-3	1.450T	1.555	1.775	0.3330	45	
SB1775E-4	1.450R	1.573	1.775	0.3330	30	
SB1776E-1C	1.340R	1.470	1.7765	0.2975	25	
SB1781E-1N	1.476		1.781	0.3110	45	
SB1782E-1	1.490T	1.623	1.782	0.3400	30	015
SB1782E-1+015	1.490T	1.623	1.797	0.3400	30	
SB1782E-2	1.535T	1.595	1.782	0.2450	45	
SB1784E-1N	1.417T	1.563	1.784	0.2920	45	
SB1792E-1	1.535		1.792	0.2570	30	
SB1803E-1	1.571		1.803	0.3120	45	
SB1811E-1	35.5mm		46mm	10mm	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1811E-1N	35.5mm		46mm	10mm	45	
SB1811E-2N	1.548T	1.650	1.811	0.3340	45	015
SB1811E-2N+015	1.548T	1.650	1.826	0.3340	45	
SB1811E-3	1.548T	1.650	1.811	0.3340	45	
SB1812-0	1 ⁷ / ₁₆		1 ¹³ / ₁₆	3 ³ / ₈	45	
SB1812-1	1 ⁹ / ₁₆		1 ¹³ / ₁₆	1 ¹ / ₄	45	
SB1812-10	1 ⁹ / ₁₆		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812-11	1 ⁷ / ₁₆		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812-12	1 ⁵ / ₈		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-13	1 ³ / ₈		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-14	1 ³ / ₈		1 ¹³ / ₁₆	1 ¹ / ₄	45	
SB1812-15	1 ³ / ₈		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812-16	1 ³ / ₈		1 ¹³ / ₁₆	3 ³ / ₈	45	
SB1812-17	1 ⁷ / ₁₆		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-18	1 ¹ / ₂		1 ¹³ / ₁₆	3 ³ / ₈	45	
SB1812-19	1 ⁹ / ₁₆		1 ¹³ / ₁₆	3 ³ / ₈	45	
SB1812-1N	1 ⁹ / ₁₆		1 ¹³ / ₁₆	1 ¹ / ₄	45	
SB1812-2	1 ¹ / ₂		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-20	1 ¹ / ₂		1 ¹³ / ₁₆	7 ¹ / ₁₆	45	
SB1812-21N	1 ¹⁹ / ₃₂		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812-24	1 ⁵ / ₁₆		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812-25	1 ⁵ / ₁₆		1 ¹³ / ₁₆	3 ³ / ₈	45	
SB1812-3	1 ¹ / ₂ T	1 ⁵ / ₈	1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-34	1 ¹ / ₂		1 ¹³ / ₁₆	3 ³ / ₁₆	45	
SB1812-36	1 ⁹ / ₁₆		1 ¹³ / ₁₆	3 ³ / ₁₆	45	
SB1812-38	1 ⁵ / ₈		1 ¹³ / ₁₆	1 ¹ / ₄	45	
SB1812-4	1 ⁹ / ₁₆		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-4N	1 ⁹ / ₁₆		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-4PM	1 ⁹ / ₁₆		1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-5	1 ¹ / ₂		1 ¹³ / ₁₆	1 ¹ / ₄	45	030
SB1812-5+030	1 ¹ / ₂		1.847	1 ¹ / ₄	45	
SB1812-50	1.490T	1.588	1 ¹³ / ₁₆	0.3070	45	
SB1812-51	1.530T	1.670	1 ¹³ / ₁₆	0.3070	45	
SB1812-52	1.440T	1.490	1 ¹³ / ₁₆	0.3150	45	
SB1812-53	1.420T	1.620	1 ¹³ / ₁₆	0.3150	45	
SB1812-54	1.405T	1.592	1 ¹³ / ₁₆	0.3150	45	
SB1812-55	1 ¹ / ₂ T	1.555	1 ¹³ / ₁₆	0.2780	45	
SB1812-56	1.535		1 ¹³ / ₁₆	0.2930	45	
SB1812-5N	1 ¹ / ₂		1 ¹³ / ₁₆	1 ¹ / ₄	45	
SB1812-7	1 ⁷ / ₁₆		1 ¹³ / ₁₆	1 ¹ / ₄	45	
SB1812-8	1 ¹ / ₂ T	1 ⁹ / ₁₆	1 ¹³ / ₁₆	7 ¹ / ₃₂	45	
SB1812-9	1 ¹ / ₂		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812-9N	1 ¹ / ₂		1 ¹³ / ₁₆	5 ¹ / ₁₆	45	
SB1812E-1	1 ⁹ / ₁₆ T	1.662	1.812	0.3650	45	See SB1818E-1
SB1812E-3	1.540T	1.610	1.812	0.3650	30	See SB1817E-3
SB1812E-4	1.450		1.812	0.1860	30	005,010,020,030
SB1812E-4+005	1.450		1.817	0.1860	30	
SB1812E-4+010	1.450		1.822	0.1860	30	
SB1812E-4+020	1.450		1.832	0.1860	30	
SB1812E-4+030	1.450		1.842	0.1860	30	
SB1812E-4T	1.520		1.812	0.2240	30	
SB1812E-6N	1.540		1.812	0.3650	20	010,020
SB1812E-6N+010	1.540		1.822	0.3650	20	
SB1812E-6N+020	1.540		1.832	0.3650	20	
SB1812E-7	1.535		1.812	0.3650	30	
SB1812E-8	1.530T	1.580	1.812	0.3650	30	
SB1812E-9	1.4300		1.8125	0.1860	30	005, 010, 020
SB1812E-9+005	1.4300		1.8175	0.1860	30	
SB1812E-9+010	1.4300		1.8225	0.1860	30	
SB1812E-9+020	1.4300		1.8325	0.1860	30	

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SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1813E-1	1.540		1.813	0.3150	20	010,020
SB1813E-1+010	1.540		1.823	0.3150	20	
SB1813E-1+020	1.540		1.833	0.3150	20	
SB1814E-1	1.600		1.814	0.3150	45	
SB1814E-4C	1.550		1.814	0.2400	45	
SB1815E-1	1.595		1.815	¼	45	
SB1815E-2	1.570		1.815	0.2610	30	
SB1817E-3	1.540T	1.610	1.817	0.3650	30	010,020,030,040
SB1817E-3+010	1.540T	1.610	1.827	0.3650	30	
SB1817E-3+020	1.540T	1.610	1.837	0.3650	30	
SB1817E-3+030	1.540T	1.610	1.847	0.3650	30	
SB1817E-3+040	1.540T	1.610	1.857	0.3650	30	
SB1818E-1	1 ⁷ / ₁₆ T	1.662	1.818	0.3650	45	
SB1818E-2	1 ⁷ / ₁₆ T	1.662	1.818	⅜	45	020
SB1818E-2+020	1 ⁷ / ₁₆ T	1.662	1.838	⅜	45	
SB1819E-1	1.571		1.819	0.2830	30	005,010,020
SB1819E-1+005	1.571		1.824	0.2830	30	
SB1819E-1+010	1.571		1.829	0.2830	30	
SB1819E-1+020	1.571		1.839	0.2830	30	
SB1823E-1	1.560T	1.569	1.823	0.2730	30	015
SB1823E-1+015	1.560T	1.569	1.838	0.2730	30	
SB1828E-1	1 ⁷ / ₁₆		1.828	⅜	45	
SB1831E-1	1.555		1.831	0.2800	30	005,015,030
SB1831E-1+005	1.555		1.836	0.2800	30	
SB1831E-1+015	1.555		1.846	0.2800	30	
SB1831E-1+030	1.555		1.861	0.2800	30	
SB1831E-2	1.550		1.831	0.2530	20	005,015,030
SB1831E-2+005	1.550		1.836	0.2530	20	
SB1831E-2+015	1.550		1.846	0.2530	20	
SB1831E-2+030	1.550		1.861	0.2530	20	
SB1832E-1	1.510T	1.585	1.832	0.2410	30	
SB1835E-1	1.490R	1.631	1.835	0.2950	45	
SB1841E-1	1.560		1.841	0.2510	20	
SB1847E-1	1 ⁷ / ₁₆		1.846	⅝	30	
SB1850E-2	36.5mm		47mm	10mm	45	
SB1850E-2N	36.5mm		47mm	10mm	45	
SB1853E-1	1.498T	1.700	1.853	0.2730	30	
SB1853E-2	1.495T	1.556	1.853	0.2710	20	
SB1854E-1	1.610T	1.680	1.854	0.2770	45	
SB1854E-2	1.609T	1.705	1.854	0.2775	45	
SB1856E-1	1.550T		1.857	0.2570	30	010,020
SB1856E-1+010	1.550T		1.867	0.2570	30	
SB1856E-1+020	1.550T		1.877	0.2570	30	
SB1856E-2	1.325T	1.530	1.856	0.3100	30	
SB1857E-1	1.575T	1.660	1.857	0.2290	45	
SB1857E-1T	1.575T	1.660	1.857	0.2500	45	
SB1857E-2	1.573T	1.617	1.857	0.2290	20	
SB1858E-1N	1.608		1.858	0.2090	30	
SB1874E-2	1.555T	1.725	1.874	0.2375	45	
SB1874E-3	1.525R	1.603	1.874	0.2950	30	
SB1874E-4N	1.525R	1.603	1.874	0.2950	30	
SB1875-0	1½		1 ⁷ / ₈	⅜	45	
SB1875-1	1 ⁵ / ₈		1 ⁷ / ₈	¼	45	
SB1875-11	1 ⁹ / ₁₆		1 ⁷ / ₈	⅝	45	
SB1875-12	1 ⁷ / ₁₆		1 ⁷ / ₈	¼	45	
SB1875-13	1½		1 ⁷ / ₈	7/32	45	
SB1875-14	1½		1 ⁷ / ₈	⅝	45	
SB1875-16	1 ⁹ / ₁₆		1 ⁷ / ₈	⅜	45	
SB1875-17	1 ⁵ / ₈		1 ⁷ / ₈	⅝	45	
SB1875-18	1 ⁵ / ₈		1 ⁷ / ₈	⅜	45	

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SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1875-19	1 ⁹ / ₁₆		1 ⁷ / ₈	⁷ / ₃₂	45	
SB1875-1N	1 ⁵ / ₈		1 ⁷ / ₈	¹ / ₄	45	
SB1875-2	1 ⁹ / ₁₆		1 ⁷ / ₈	¹ / ₄	45	
SB1875-20	1 ¹¹ / ₁₆		1 ⁷ / ₈	⁷ / ₃₂	45	
SB1875-21	1 ¹ / ₂		1 ⁷ / ₈	⁷ / ₁₆	45	
SB1875-32	1 ⁷ / ₁₆		1 ⁷ / ₈	⁵ / ₁₆	45	
SB1875-33	1 ⁷ / ₁₆		1 ⁷ / ₈	³ / ₈	45	
SB1875-35	1 ¹¹ / ₁₆		1 ⁷ / ₈	¹ / ₄	45	
SB1875-38	1 ⁵ / ₈		1 ⁷ / ₈	³ / ₁₆	45	
SB1875-39	1 ³ / ₈		1 ⁷ / ₈	⁷ / ₁₆	45	
SB1875-4	1 ⁵ / ₈		1 ⁷ / ₈	⁹ / ₃₂	45	
SB1875-5	1 ³ / ₈		1 ⁷ / ₈	¹ / ₄	45	
SB1875-50	1.640		1 ⁷ / ₈	0.2800	45	
SB1875-51	1.575T	1.692	1 ⁷ / ₈	0.3170	45	
SB1875-53	1.505T	1.689	1 ⁷ / ₈	0.3800	45	
SB1875-54	1.575T	1.672	1 ⁷ / ₈	0.2900	45	
SB1875-56	1.600T	1.673	1 ⁷ / ₈	0.2520	45	
SB1875-57	1.505T	1.630	1 ⁷ / ₈	0.2800	45	
SB1875-6	1 ⁵ / ₈		1 ⁷ / ₈	⁷ / ₃₂	45	
SB1875-7	1 ¹⁹ / ₃₂		1 ⁷ / ₈	¹ / ₄	45	
SB1875-8	1 ¹ / ₂ T	1 ⁵ / ₈	1 ⁷ / ₈	⁷ / ₃₂	45	
SB1875-9	1 ¹ / ₂		1 ⁷ / ₈	¹ / ₄	45	
SB1880E-1	1 ¹³ / ₃₂		1.880	⁷ / ₃₂	45	
SB1880E-2	1 ⁹ / ₁₆ T	1.625	1.880	⁷ / ₁₆	30	020
SB1880E-2+020	1 ⁹ / ₁₆ T	1.625	1.900	⁷ / ₁₆	30	
SB1882E-1C	1.595		1.882	0.3190	30	
SB1890E-2	37.5mm		48mm	10mm	45	
SB1890E-2N	37.5mm		48mm	10mm	45	
SB1891E-1	1.615T	1.637	1.891	0.3060	30	010,020,030
SB1891E-1+010	1.615T	1.637	1.901	0.3060	30	
SB1891E-1+020	1.615T	1.637	1.911	0.3060	30	
SB1891E-1+030	1.615T	1.637	1.921	0.3060	30	
SB1891E-2	1.615T	1.655	1.891	0.3060	30	
SB1894E-1	1.570T	1.660	1.894	0.2920	30	
SB1894E-4	1.580T	1.643T	1.894	0.2410	30	
SB1899E-1	1 ¹⁷ / ₃₂ T	1.600	1.898	0.2750	30	
SB1900E-1	1.650		1.900	0.3000	45	
SB1900E-2	1.645		1.900	0.2500	45	020
SB1900E-2+020	1.645		1.920	0.2500	45	
SB1900E-3	1.650		1.900	0.2200	30	
SB1912E-1	1 ⁵ / ₈		1.912	⁹ / ₃₂	45	010,020
SB1912E-1+010	1 ⁵ / ₈		1.922	⁹ / ₃₂	45	
SB1912E-1+020	1 ⁵ / ₈		1.932	⁹ / ₃₂	45	
SB1919E-1N	1.665		1.919	0.2500	45	
SB1929E-1	38.5mm		49mm	10mm	45	
SB1929E-1N	38.5mm		49mm	10mm	45	
SB1933E-2	1.454T	1.778	1.933	0.2410	30	
SB1934E-1	1.562		1.934	0.3100	20	
SB1937-0	1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	³ / ₈	45	
SB1937-1	1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	¹ / ₄	45	
SB1937-10	1 ¹ / ₂		1 ¹⁵ / ₁₆	³ / ₈	45	
SB1937-12	1.578T	1.720	1 ¹⁵ / ₁₆	0.2030	30	
SB1937-15	1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	⁹ / ₃₂	45	
SB1937-17	1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	⁷ / ₃₂	45	
SB1937-19	1 ³ / ₄		1 ¹⁵ / ₁₆	⁷ / ₃₂	45	
SB1937-2	1 ⁵ / ₈		1 ¹⁵ / ₁₆	¹ / ₄	45	
SB1937-20	1 ¹ / ₂		1 ¹⁵ / ₁₆	⁵ / ₁₆	45	
SB1937-23	1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	³ / ₁₆	45	
SB1937-27	1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	⁷ / ₃₂	45	
SB1937-3	1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	⁵ / ₁₆	45	

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SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB1937-30	1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	5/ ₁₆	45	
SB1937-39	1 ⁷ / ₁₆		1 ¹⁵ / ₁₆	7/ ₁₆	45	
SB1937-4	1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	1/ ₄	45	
SB1937-4N	1 ⁹ / ₁₆		1 ¹⁵ / ₁₆	1/ ₄	45	
SB1937-5	1 ⁵ / ₈		1 ¹⁵ / ₁₆	9/ ₃₂	45	
SB1937-51	1.540T	1.718	1 ¹⁵ / ₁₆	0.3150	45	
SB1937-52	1.573T	1.620	1 ¹⁵ / ₁₆	0.3790	45	
SB1937-55	1.640T	1.730	1 ¹⁵ / ₁₆	0.2900	45	
SB1937-6	1 ⁵ / ₈		1 ¹⁵ / ₁₆	7/ ₃₂	45	
SB1937-7	1 ⁵ / ₈		1 ¹⁵ / ₁₆	5/ ₁₆	45	
SB1937-8	1 ⁵ / ₈		1 ¹⁵ / ₁₆	3/ ₈	45	
SB1937-9	1 ¹ / ₂		1 ¹⁵ / ₁₆	1/ ₄	45	
SB1946E-1N	1.574		1.946	0.3150	45	
SB1951E-1	1.510T	1.642	1.951	0.2900	30	010
SB1951E-1+010	1.510T	1.642	1.961	0.2900	20	
SB1953E-2C	1.640T	1.670	1.953	0.2150	45	
SB1953E-3	1.640T	1.828	1.953	0.1950	20	005
SB1953E-3+005	1.640T	1.828	1.958	0.1950	20	
SB1953E-4	1.640T	1.819	1.953	0.1950	20	005, 010
SB1953E-4+005	1.640T	1.819	1.958	0.1950	20	
SB1953E-4+010	1.640T	1.819	1.963	0.1950	20	
SB1957ST	1.563T	1.755	1.957	0.3130	30	
SB1962E-1N	1.595T	1.730	1.962	0.3650	30	
SB1969E-2	39mm		50mm	10.5mm	45	
SB1969E-2N	39mm		50mm	10.5mm	45	
SB1969E-3	1.704		1.969	0.2340	30	
SB1969E-4N	1.726	1.656	1.969	0.2480	30	
SB1973E-1	1.658T	1.875	1.973	0.3000	45	
SB1991E-1N	1.616T	1.672	1.991	0.3090	45	
SB1999E-1	1.712T	1.767	1.999	0.3860	30	
SB2000-0	1 ⁵ / ₈		2.000	3/ ₈	45	
SB2000-1	1 ³ / ₄		2.000	7/ ₃₂	45	
SB2000-10	1 ⁹ / ₁₆		2.000	1/ ₄	45	
SB2000-11	1 ⁹ / ₁₆		2.000	5/ ₁₆	45	
SB2000-12	1 ⁵ / ₈		2.000	7/ ₃₂	45	
SB2000-13	1 ⁵ / ₈		2.000	1/ ₄	45	
SB2000-13N	1 ⁵ / ₈		2.000	1/ ₄	45	
SB2000-14	1 ⁵ / ₈		2.000	5/ ₁₆	45	
SB2000-15	1 ¹¹ / ₁₆		2.000	7/ ₃₂	45	
SB2000-16	1 ¹¹ / ₁₆		2.000	1/ ₄	45	
SB2000-17	1 ³ / ₄		2.000	1/ ₄	45	
SB2000-18	1 ³ / ₄		2.000	5/ ₁₆	45	
SB2000-1N	1 ³ / ₄		2.000	7/ ₃₂	45	
SB2000-2	1 ¹¹ / ₁₆		2.000	9/ ₃₂	45	
SB2000-20	1 ³ / ₄		2.000	9/ ₃₂	45	
SB2000-24	1 ¹ / ₂		2.000	7/ ₁₆	45	
SB2000-25	1.600		2.000	9/ ₃₂	45	
SB2000-27	1 ⁵ / ₈		2.000	7/ ₁₆	45	
SB2000-29	1 ¹¹ / ₁₆		2.000	5/ ₁₆	45	
SB2000-3	1 ⁵ / ₈		2.000	19/ ₆₄	45	
SB2000-33	1 ⁹ / ₁₆		2.000	7/ ₃₂	45	
SB2000-34	1 ⁹ / ₁₆		2.000	3/ ₈	45	
SB2000-36	1 ³ / ₄		2.000	3/ ₁₆	45	
SB2000-38	1 ¹³ / ₁₆		2.000	1/ ₄	45	
SB2000-3C	1 ⁵ / ₈		2.000	19/ ₆₄	45	
SB2000-3N	1 ⁵ / ₈		2.000	19/ ₆₄	45	
SB2000-4	1 ¹¹ / ₁₆		2.000	3/ ₈	45	
SB2000-50	1.625T	1.800	2.000	0.3680	45	
SB2000-51	1.690T	1.765	2.000	0.2700	45	
SB2000-6	1 ⁵ / ₈		2.000	9/ ₃₂	45	

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SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB2000-7	1 ¹³ / ₁₆		2.000	7/ ₃₂	45	
SB2000-8	17/ ₁₆		2.000	1/ ₄	45	
SB2000-9	1 ¹ / ₂		2.000	3/ ₈	45	
SB2001E-1	1.712T	1.870	2.001	0.3860	30	010,013
SB2001E-1+010	1.712T	1.870	2.011	0.3850	30	
SB2001E-1+013	1.712T	1.870	2.014	0.3850	30	
SB2001E-2	1.712T	1.870	2.001	0.3560	30	
SB2003E-1	1 ¹¹ / ₁₆		2.003	9/ ₃₂	30	See SB2006E-1
SB2003E-1N	1 ¹¹ / ₁₆		2.003	9/ ₃₂	30	See SB2006E-1N
SB2003E-3N	1 ¹¹ / ₁₆		2.003	0.2340	30	See SB2006E-3N
SB2003E-6N	1.625		2.003	0.2795	45	005, 010
SB2003E-6N+005	1.625		2.008	0.2795	45	
SB2003E-6N+010	1.625		2.013	0.2795	45	
SB2004E-2	1 ¹¹ / ₁₆ T	1.748	2.003	7/ ₁₆	30	See SB2006E-2
SB2004E-3N	1.685T	1.735	2.004	0.3170	30	005,010,020
SB2004E-3N+005	1.685T	1.735	2.009	0.3170	30	
SB2004E-3N+010	1.685T	1.735	2.014	0.3170	30	
SB2004E-3N+020	1.685T	1.735	2.024	0.3170	30	
SB2004E-4N	1.688		2.004	0.4380	30	
SB2006E-1	1 ¹¹ / ₁₆		2.006	9/ ₃₂	30	005,010,020,030
SB2006E-1+005	1 ¹¹ / ₁₆		2.011	9/ ₃₂	30	
SB2006E-1+010	1 ¹¹ / ₁₆		2.016	9/ ₃₂	30	
SB2006E-1+020	1 ¹¹ / ₁₆		2.026	9/ ₃₂	30	
SB2006E-1+030	1 ¹¹ / ₁₆		2.036	9/ ₃₂	30	
SB2006E-1N	1 ¹¹ / ₁₆		2.006	9/ ₃₂	30	005,010,020,030
SB2006E-1N+005	1 ¹¹ / ₁₆		2.011	9/ ₃₂	30	
SB2006E-1N+010	1 ¹¹ / ₁₆		2.016	9/ ₃₂	30	
SB2006E-1N+020	1 ¹¹ / ₁₆		2.026	9/ ₃₂	30	
SB2006E-1N+030	1 ¹¹ / ₁₆		2.036	9/ ₃₂	30	
SB2006E-2	1 ¹¹ / ₁₆ T	1.748	2.006	7/ ₁₆	30	010,020,030
SB2006E-2+010	1 ¹¹ / ₁₆ T	1.748	2.016	7/ ₁₆	30	
SB2006E-2+020	1 ¹¹ / ₁₆ T	1.748	2.026	7/ ₁₆	30	
SB2006E-2+030	1 ¹¹ / ₁₆ T	1.748	2.036	7/ ₁₆	30	
SB2006E-3N	1 ¹¹ / ₁₆		2.006	0.2340	30	
SB2006E-5	1.690		2.006	0.2140	30	010,020,030
SB2006E-5+010	1.690		2.016	0.2140	30	
SB2006E-5+020	1.690		2.026	0.2140	30	
SB2006E-5+030	1.690		2.036	0.2140	30	
SB2006E-6C	1.630		2.006	0.2800	45	
SB2006E-7C	1.690		2.006	0.2150	30	
SB2008E-2	40mm		51mm	10.5mm	45	
SB2008E-2N	40mm		51mm	10.5mm	45	
SB2013E-1	1.770T	1.801	2.013	0.2885	45	
SB2020E-1	1.589		2.020	0.2825	45	
SB2047E-1	41mm		52mm	10.5mm	45	
SB2047E-1N	41mm		52mm	10.5mm	45	
SB2049E-1	1 ²⁵ / ₃₂ T	1.871	2.049	1 ¹ / ₃₂	30	005,010,020
SB2049E-1+005	1 ²⁵ / ₃₂ T	1.871	2.054	1 ¹ / ₃₂	30	
SB2049E-1+010	1 ²⁵ / ₃₂ T	1.871	2.059	1 ¹ / ₃₂	30	
SB2049E-1+020	1 ²⁵ / ₃₂ T	1.871	2.069	1 ¹ / ₃₂	30	
SB2051E-4	1.744T	1.957	2.051	0.2410	30	
SB2051E-5	1.744T	1.792	2.051	0.2410	30	
SB2062-1	1 ¹³ / ₁₆ T	17/ ₈	2 ¹ / ₁₆	1/ ₄	45	
SB2062-11	15/ ₈		2 ¹ / ₁₆	1/ ₄	45	
SB2062-13	19/ ₁₆		2 ¹ / ₁₆	3/ ₈	45	
SB2062-15	15/ ₈		2 ¹ / ₁₆	3/ ₈	45	
SB2062-19	19/ ₁₆		2 ¹ / ₁₆	5/ ₁₆	45	
SB2062-2	13/ ₄		2 ¹ / ₁₆	9/ ₃₂	45	
SB2062-20	19/ ₁₆		2 ¹ / ₁₆	7/ ₁₆	45	
SB2062-21	15/ ₈		2 ¹ / ₁₆	5/ ₁₆	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB2062-22	1 ¹¹ / ₁₆		2 ¹ / ₁₆	7/ ₃₂	45	
SB2062-23	1 ¹¹ / ₁₆		2 ¹ / ₁₆	3/ ₈	45	
SB2062-24	1 ¹¹ / ₁₆		2 ¹ / ₁₆	7/ ₁₆	45	
SB2062-25	1 ³ / ₄		2 ¹ / ₁₆	7/ ₃₂	45	
SB2062-27	1 ³ / ₄		2 ¹ / ₁₆	5/ ₁₆	45	
SB2062-28	1 ³ / ₄		2 ¹ / ₁₆	1 ¹ / ₃₂	45	
SB2062-29	1 ¹³ / ₁₆		2 ¹ / ₁₆	7/ ₃₂	45	
SB2062-3	1 ¹³ / ₁₆		2 ¹ / ₁₆	1/ ₄	45	
SB2062-30	1 ¹³ / ₁₆		2 ¹ / ₁₆	3/ ₁₆	45	
SB2062-31	1 ¹³ / ₁₆		2 ¹ / ₁₆	5/ ₁₆	45	
SB2062-4	1 ¹¹ / ₁₆		2 ¹ / ₁₆	1/ ₄	45	
SB2062-5	1 ¹¹ / ₁₆		2 ¹ / ₁₆	5/ ₁₆	45	
SB2062-50	1.750		2 ¹ / ₁₆	0.4200	45	
SB2062-50N	1.750		2 ¹ / ₁₆	0.4200	45	
SB2062-51	1.750T	1.810	2 ¹ / ₁₆	0.3900	45	
SB2062-51N	1.750T	1.810	2 ¹ / ₁₆	0.3900	45	
SB2062-52	1 ³ / ₄		2 ¹ / ₁₆	0.2800	45	
SB2062-6	1 ⁹ / ₁₆		2 ¹ / ₁₆	1/ ₄	45	
SB2062-8	1 ¹¹ / ₁₆		2 ¹ / ₁₆	9/ ₃₂	45	
SB2062-9	1 ⁵ / ₈		2 ¹ / ₁₆	7/ ₁₆	45	
SB2087E-2	42mm		53mm	10.5mm	45	
SB2087E-2N	42mm		53mm	10.5mm	45	
SB2088E-1	1.692		2.088	0.2990	30	015,030
SB2088E-1+015	1.692		2.103	0.2990	30	
SB2088E-1+030	1.692		2.118	0.2990	30	
SB2100E-1	1.782		2.100	0.2670	30	
SB2125-0	1 ³ / ₄		2 ¹ / ₈	3/ ₈	45	
SB2125-1	1 ¹³ / ₁₆		2 ¹ / ₈	1/ ₄	45	
SB2125-10	1 ³ / ₄		2 ¹ / ₈	9/ ₃₂	45	
SB2125-11	1 ³ / ₄		2 ¹ / ₈	7/ ₃₂	45	
SB2125-12	1 ⁵ / ₈		2 ¹ / ₈	7/ ₁₆	45	
SB2125-15	1 ¹¹ / ₁₆		2 ¹ / ₈	5/ ₁₆	30	
SB2125-16	1 ¹¹ / ₁₆		2 ¹ / ₈	1/ ₄	45	
SB2125-2	1 ⁷ / ₈		2 ¹ / ₈	1/ ₄	45	
SB2125-21	1 ⁹ / ₁₆		2 ¹ / ₈	3/ ₈	45	
SB2125-26	1 ⁵ / ₈		2 ¹ / ₈	3/ ₈	45	
SB2125-3	1 ¹⁵ / ₁₆		2 ¹ / ₈	3/ ₁₆	45	
SB2125-30	1 ³ / ₄		2 ¹ / ₈	7/ ₁₆	45	
SB2125-31	1 ¹³ / ₁₆		2 ¹ / ₈	7/ ₃₂	45	
SB2125-32	1 ¹³ / ₁₆		2 ¹ / ₈	5/ ₁₆	45	
SB2125-33	1 ¹³ / ₁₆		2 ¹ / ₈	3/ ₈	45	
SB2125-34	1 ⁷ / ₈		2 ¹ / ₈	7/ ₃₂	45	
SB2125-38	1 ¹³ / ₁₆		2 ¹ / ₈	3/ ₁₆	45	
SB2125-39	1 ¹⁵ / ₁₆		2 ¹ / ₈	7/ ₃₂	45	
SB2125-4	1 ²⁹ / ₃₂		2 ¹ / ₈	1/ ₄	45	
SB2125-6	1 ⁵ / ₈		2 ¹ / ₈	9/ ₃₂	45	
SB2125-7	1 ³ / ₄		2 ¹ / ₈	1/ ₄	45	
SB2125-8	1 ³ / ₄		2 ¹ / ₈	5/ ₁₆	45	
SB2126E-1	43mm		54mm	10.5mm	45	
SB2126E-1N	43mm		54mm	10.5mm	45	
SB2126E-2	1.752T	1.806	2.126	0.3230	20	
SB2129E-1	1 ¹³ / ₁₆ T	1.863	2.129	7/ ₁₆	30	See SB2131E-1
SB2129E-2	1.752T	1.868	2.129	0.3060	30	
SB2131E-1	1 ¹³ / ₁₆ T	1.863	2.131	7/ ₁₆	30	010,020,030
SB2131E-1+010	1 ¹³ / ₁₆ T	1.863	2.141	7/ ₁₆	30	
SB2131E-1+020	1 ¹³ / ₁₆ T	1.863	2.151	7/ ₁₆	30	
SB2131E-1+030	1 ¹³ / ₁₆ T	1.863	2.161	7/ ₁₆	30	
SB2136E-1N	1.705T	1.785	2.136	0.3190	45	020
SB2136E-1N+020	1.705T	1.785	2.156	0.3190	45	
SB2136E-2PM	1.705		2.136	0.2950	30	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB2136E-3PM	1.652		2.136	0.3100	37	
SB2150E-1	1-55/64		2.150	0.2920	30	010,020
SB2150E-1+010	1-55/64		2.160	0.2920	30	
SB2150E-1+020	1-55/64		2.170	0.2920	30	
SB2165E-1	44mm		55mm	11mm	45	
SB2165E-1N	44mm		55mm	11mm	45	
SB2187-1	1 ¹³ / ₁₆		2 ³ / ₁₆	1/4	45	
SB2187-11	1 ⁷ / ₈		2 ³ / ₁₆	3/16	45	
SB2187-12	1 ⁷ / ₈		2 ³ / ₁₆	1/4	45	
SB2187-15	1 ³ / ₄		2 ³ / ₁₆	7/32	45	
SB2187-1C	1 ¹³ / ₁₆		2 ³ / ₁₆	1/4	45	
SB2187-2	1 ¹³ / ₁₆		2 ³ / ₁₆	9/32	45	
SB2187-27	1 ¹⁵ / ₁₆		2 ³ / ₁₆	1/4	45	
SB2187-3	1 ³ / ₄		2 ³ / ₁₆	9/32	45	
SB2187-31	1 ¹¹ / ₁₆		2 ³ / ₁₆	7/16	45	
SB2187-4	1 ⁷ / ₈		2 ³ / ₁₆	9/32	45	
SB2187-50	1.820T	2.024	2 ³ / ₁₆	0.3410	45	
SB2187-7	1 ³ / ₄		2 ³ / ₁₆	7/16	45	
SB2187-8	1 ³ / ₄		2 ³ / ₁₆	3/8	45	
SB2187-9	1 ¹³ / ₁₆		2 ³ / ₁₆	3/8	45	
SB2205E-2	45mm		56mm	11mm	45	
SB2212E-1N	1.960		2.212	0.2500	45	
SB2220E-1	1.843		2.220	0.3120	45	
SB2244E-1	46mm		57mm	11mm	45	
SB2250-1	1 ¹⁵ / ₁₆		2 ¹ / ₄	3/16	45	
SB2250-10	2.000		2 ¹ / ₄	9/32	45	
SB2250-12	1 ¹⁵ / ₁₆		2 ¹ / ₄	9/32	45	
SB2250-13	1 ⁷ / ₈		2 ¹ / ₄	3/8	45	
SB2250-15	1 ¹⁵ / ₁₆		2 ¹ / ₄	1/4	45	
SB2250-16	1 ⁵ / ₈		2 ¹ / ₄	3/8	45	
SB2250-17	1 ³ / ₄		2 ¹ / ₄	7/16	45	
SB2250-18	1 ¹³ / ₁₆		2 ¹ / ₄	7/16	45	
SB2250-2	1 ⁷ / ₈		2 ¹ / ₄	9/32	45	
SB2250-20	1 ⁷ / ₈		2 ¹ / ₄	5/16	45	
SB2250-21	1 ⁵ / ₈		2 ¹ / ₄	5/16	45	
SB2250-35	1 ¹⁵ / ₁₆		2 ¹ / ₄	7/32	45	
SB2250-36	2.000		2 ¹ / ₄	7/32	45	
SB2250-37	2.000		2 ¹ / ₄	1/4	45	
SB2250-5	1 ³ / ₄		2 ¹ / ₄	7/32	45	
SB2250-50	1 ⁷ / ₈		2 ¹ / ₄	3/8	45	
SB2250-7	1 ³ / ₄		2 ¹ / ₄	3/8	45	
SB2250-8	1 ¹³ / ₁₆		2 ¹ / ₄	1/4	45	
SB2250-9	1 ⁷ / ₈		2 ¹ / ₄	1/4	45	
SB2284E-2	47mm		58mm	11mm	45	
SB2312-1	1 ⁷ / ₈		2 ⁵ / ₁₆	9/32	45	
SB2312-11	1 ¹³ / ₁₆		2 ⁵ / ₁₆	3/8	45	
SB2312-16	1 ¹⁵ / ₁₆		2 ⁵ / ₁₆	1/4	45	
SB2312-2	1 ¹⁵ / ₁₆		2 ⁵ / ₁₆	9/32	45	
SB2312-4	2.000		2 ⁵ / ₁₆	9/32	45	
SB2312-6	1 ³ / ₄		2 ⁵ / ₁₆	1/4	30	
SB2312-8	1 ¹³ / ₁₆		2 ⁵ / ₁₆	7/16	45	
SB2312-9	2.000		2 ⁵ / ₁₆	1/4	45	
SB2323E-2	48mm		59mm	11mm	45	
SB2366E-2N	1.977		2.366	0.3920	45	
SB2367E-1	2.045		2.367	0.3820	30	
SB2368E-2N	1.890		2.368	0.4600	20	See SB2388E-1N
SB2368E-3N	1.890T	1.935	2.368	0.4600	20	See SB2388E-2N
SB2375-15	1 ⁷ / ₈		2 ³ / ₈	7/16	45	
SB2375-2	2.000		2 ³ / ₈	9/32	45	
SB2375-2N	2.000		2 ³ / ₈	9/32	45	

Valve Seat Insert Numerical Listing

SBI Part #	I.D.	I.D. Top Taper	O.D.	Depth	Seat Angle	Oversizes Available
SB2381E-1	1.930		2.381	0.3225	30	010
SB2381E-1+010	1.930		2.391	0.3225	30	
SB2381E-1C	1.930		2.381	0.3225	30	
SB2381E-2	2.030		2.381	0.3225	30	010
SB2381E-2+010	2.030		2.391	0.3225	30	
SB2381E-2C	2.030		2.381	0.3225	30	
SB2387E-1	1.970	2.047	2.387	0.3820	30	
SB2387E-2	1.890		2.387	0.3610	20	
SB2388E-1N	1.890	1.932	2.388	0.4600	20	
SB2388E-2N	1.890T	1.935	2.388	0.4600	20	
SB2402E-1	49mm		61mm	11.5mm	45	
SB2402E-1N	49mm		61mm	11.5mm	45	
SB2435E-1	2 ¹ / ₈ T	2.207	2.435	⁵ / ₈	30	010,020
SB2435E-1+010	2 ¹ / ₈ T	2.207	2.445	⁵ / ₈	30	
SB2435E-1+020	2 ¹ / ₈ T	2.207	2.455	⁵ / ₈	30	
SB2435E-2N	2 ¹ / ₈		2.435	0.6250	30	
SB2441E-1	50mm		62mm	11.5mm	45	
SB2441E-1N	50mm		62mm	11.5mm	45	
SB2444E-1	2.046		2.444	0.2990	30	015,030,062
SB2444E-1+015	2.046		2.459	0.2990	30	
SB2444E-1+030	2.046		2.474	0.2990	30	
SB2444E-1+062	2.046		2.506	0.2990	30	
SB2480E-1	51mm		63mm	11.5mm	45	
SB2503E-1	2.000		2.503	¹ / ₂	45	See SB2506E-1
SB2503E-2	2 ¹ / ₁₆ T	2.160	2.503	¹ / ₂	45	See SB2506E-2
SB2506E-1	2.000		2.506	¹ / ₂	45	020,030
SB2506E-1+020	2.000		2.526	¹ / ₂	45	
SB2506E-2	2 ¹ / ₁₆ T	2.160	2.506	¹ / ₂	45	020
SB2506E-2+020	2 ¹ / ₁₆ T	2.160	2.526	¹ / ₂	45	
SB2520E-1	52mm		64mm	11.5mm	45	
SB2562-1	2 ³ / ₁₆		2 ⁹ / ₁₆	¹ / ₄	30	
SB2590E-1	2 ⁹ / ₃₂ T	2.360	2.590	⁵ / ₈	30	010,020
SB2590E-1+010	2 ⁹ / ₃₂ T	2.360	2.600	⁵ / ₈	30	
SB2590E-1+020	2 ⁹ / ₃₂ T	2.360	2.610	⁵ / ₈	30	
SB2677E-1	55mm		68mm	12mm	45	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1/2		1	1.0045	7/16	45	SB1000-3	
9/16		1 1/16	1.0670	7/16	45	SB1062-6	
5/8		1 1/8	1.1295	7/16	45	SB1125-11	
11/16		1 3/16	1.1920	7/16	45	SB1187-12	
3/4		1	1.0045	3/16	45	SB1000-1	
3/4		1 1/8	1.1295	1/4	45	SB1125-10	
3/4		1 1/4	1.2545	7/16	45	SB1250-13	
19.5mm		25.5mm	1.0040	6.5mm	45	SB1004E-2N	
25/32		1 1/16	1.0670	3/16	45	SB1062-3	
25/32		1 1/16	1.0670	1/4	45	SB1062-4	
20mm		28mm	1.1024	8mm	45	SB1102E-1	
20mm		28mm	1.1024	8mm	45	SB1102E-1N	
0.790		1 1/16	1.0695	0.2540	45	SB1062-50	
20.5mm		26.5mm	1.0430	6.5mm	45	SB1043E-1N	
13/16		1	1.0045	3/16	45	SB1000-2	
13/16		1 1/16	1.0670	3/16	45	SB1062-5	
13/16		1 1/8	1.1295	3/16	45	SB1125-2	
13/16		1 5/16	1.3170	7/16	45	SB1312-16	
0.825T	0.925	1 1/8	1.1320	0.2850	45	SB1125-52	
21mm		29mm	1.1417	8.5mm	45	SB1142E-2N	
21mm		29mm	1.1417	8.5mm	45	SB1142E-2	
0.830		1 1/8	1.1320	0.2400	45	SB1125-55	
21.5mm		27.5mm	1.0827	6.5mm	45	SB1083E-2N	
0.854		1 1/8	1.1320	0.2370	45	SB1125-51	
22mm		30mm	1.1811	8.5mm	45	SB1181E-1	
22mm		30mm	1.1811	8.5mm	45	SB1181E-1N	
22mm		28.5mm	1.1220	7mm	45	SB1122E-1N	
0.870		1 1/16	1.0695	0.1950	45	SB1062-51	
7/8		1 1/16	1.0670	3/16	45	SB1062-2	
7/8		1 1/8	1.1295	3/16	45	SB1125-5	
7/8		1 1/8	1.1295	7/32	45	SB1125-1	
7/8		1 1/8	1.1295	1/4	45	SB1125-4	
7/8		1 1/8	1.1295	5/16	45	SB1125-7	
7/8		1 3/16	1.1920	1/4	45	SB1187-2	
7/8		1 1/4	1.2545	3/16	45	SB1250-4	
7/8		1 3/8	1.3795	7/16	45	SB1375-27	
0.880		1 3/16	1.1945	0.2800	45	SB1187-54	
0.890T	0.955	1.088	1.0888	0.2210	45	SB1088E-1	
0.890T	0.976	1 1/8	1.1320	0.2370	45	SB1125-53	
0.900		1 1/8	1.1320	0.3250	45	SB1125-54	
0.905		1 1/4	1.2550	1/4	45	SB1250-15N	
0.905		1 3/16	1.1945	0.2570	45	SB1187-51	
0.905T	1.005	1 1/4	1.2570	0.2300	45	SB1250-56	
23mm		29.5mm	1.1614	7mm	45	SB1161E-2N	
23mm		31mm	1.2205	8.5mm	45	SB1221E-2	
23mm		31mm	1.2205	8.5mm	45	SB1221E-2N	
0.910T	0.975	1.161	1.1610	0.2220	30	SB1161E-1	005,010,020,030,062
0.910T	0.975	1.166	1.1660	0.2220	30	SB1161E-1+005	
0.910T	0.975	1.171	1.1710	0.2220	30	SB1161E-1+010	
0.910T	0.975	1.181	1.1810	0.2220	30	SB1161E-1+020	
0.910T	0.975	1.191	1.1910	0.2220	30	SB1161E-1+030	
0.910T	0.975	1.201	1.2010	0.2220	30	SB1161E-1+040	
0.910T	0.975	1.223	1.2230	0.2220	30	SB1161E-1+062	
0.910T	1.052	1 1/4	1.2570	0.2850	45	SB1250-52	
0.930		1 1/4	1.2570	0.3250	45	SB1250-63	
0.934T	0.995	1 3/16	1.1945	0.2570	45	SB1187-52	
0.935		1 3/16	1.1945	0.2350	45	SB1187-53	
15/16		1 3/16	1.1920	1/4	45	SB1187-5	
15/16		1 1/8	1.1295	3/16	45	SB1125-6	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
15/16		1 1/8	1.1295	7/32	45	SB1125-8	
15/16		1 3/16	1.1920	3/16	45	SB1187-4	
15/16		1 3/8	1.3795	5/16	45	SB1375-10	
15/16		1 7/16	1.4420	7/16	45	SB1437-32	
24mm		30.5mm	1.2008	7mm	45	SB1201E-2N	
0.945T	1.032	1.175	1.1755	0.2210	45	SB1175E-1	
24mm		32mm	1.2598	8.5mm	45	SB1260E-1N	
24mm		32mm	1.2598	8.5mm	45	SB1260E-1	
0.955		1 1/4	1.2570	0.2550	45	SB1250-58	
0.960T	1.032	1.160	1.1600	0.2210	45	SB1160E-1	
0.965T	1.060	1 1/4	1.2570	1/4	45	SB1250-50	
0.965T	1.075	1 5/16	1.3195	0.2350	45	SB1312-63	
0.970		1 1/4	1.2570	0.2700	45	SB1250-64	
0.975T	1.045	1.262	1.2620	1/4	30	SB1262E-1	005,010,020,030,040,062
0.975T	1.045	1.267	1.2670	1/4	30	SB1262E-1+005	
0.975T	1.045	1.272	1.2720	1/4	30	SB1262E-1+010	
0.975T	1.045	1.282	1.2820	1/4	30	SB1262E-1+020	
0.975T	1.045	1.292	1.2920	1/4	30	SB1262E-1+030	
0.975T	1.045	1.302	1.3020	1/4	30	SB1262E-1+040	
0.975		1 5/16	1.3195	0.2800	45	SB1312-68	
0.975T	1.045	1.324	1.3240	1/4	30	SB1262E-1+062	
0.976		1 1/4	1.2570	0.1800	45	SB1250-61	
0.977	1.098	1.264	1.2645	0.2370	45	SB1264E-1	005
0.977	1.098	1.269	1.2695	0.2370	45	SB1264E-1+005	
0.980T	1.106	1 5/16	1.3195	0.2930	45	SB1312-53	
0.982		1 1/4	1.2570	0.3290	45	SB1250-59	
25mm		33mm	1.2992	8.5mm	45	SB1299E-1	
25mm		33mm	1.2992	8.5mm	45	SB1299E-1N	
1.000		1 3/16	1.1920	3/16	45	SB1187-1	
1.000		1 3/16	1.1920	7/32	45	SB1187-7	
1.000		1 1/4	1.2545	3/16	45	SB1250-2	
1.000		1 1/4	1.2545	7/32	45	SB1250-1	
1.000		1 1/4	1.2545	1/4	45	SB1250-3	
1.000		1 1/4	1.2545	5/16	45	SB1250-12	
1.000		1 1/4	1.2545	3/8	45	SB1250-0	
1.000		1 1/4	1.2570	0.3050	45	SB1250-62	
1.000		1 5/16	1.3170	3/16	45	SB1312-2	
1.000		1 5/16	1.3170	7/32	45	SB1312-3	
1.000		1 5/16	1.3170	1/4	45	SB1312-4	
1.000		1 5/16	1.3170	5/16	45	SB1312-5	
1.000		1 3/8	1.3795	3/16	45	SB1375-8	
1.000		1 3/8	1.3795	9/32	45	SB1375-26	
1.000		1 3/8	1.3820	0.2800	45	SB1375-64	
1.000T	1.109	1 3/8	1.3820	0.4100	45	SB1375-52	
1.000		1 7/16	1.4420	1/4	45	SB1437-17	
1.000		1 7/16	1.4420	5/16	45	SB1437-18	
1.000		1 1/2	1.5045	3/8	45	SB1500-19	
1.000		1 1/2	1.5045	7/16	45	SB1500-33	
25.5mm		31.5mm	1.2401	7mm	45	SB1240E-2N	
1.010T	1.056	1 1/4	1.2570	0.2570	45	SB1250-54	
1.020T	1.123	1.218	1.2185	0.2210	45	SB1218E-1	
1.022T	1.085	1 3/8	1.3820	0.2300	45	SB1375-54	
1.023T	1.110	1 1/4	1.2570	0.2730	45	SB1250-60	
26mm		32.5mm	1.2795	7mm	45	SB1280E-1N	
1.024		1 1/4	1.2570	0.2570	45	SB1250-53	
26mm		34mm	1.3386	8.5mm	45	SB1339E-2	
26mm		34mm	1.3386	8.5mm	45	SB1339E-2N	
26mm		35mm	1.3780	9mm	45	SB1378E-1	
26mm		35mm	1.3780	9mm	45	SB1378E-1N	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.030		1¼	1.2570	0.2150	45	SB1250-65	
1.042		1⅝	1.3195	0.2380	45	SB1312-67	
1.044		1⅝	1.3195	0.2730	45	SB1312-59	
1.045		1⅝	1.3195	0.3160	45	SB1312-64	
1.057T	1.110	1⅜	1.3820	0.2400	45	SB1375-63	
1.060T	1.087	1⅝	1.3195	0.2400	45	SB1312-52	
1.060		1⅝	1.3195	0.2800	45	SB1312-57	
1.060T	1.150	1⅜	1.3820	0.2800	45	SB1375-51	
1⅛		1⅝	1.3170	⅜	45	SB1312-1	
1⅛		1⅝	1.3170	7/32	45	SB1312-6	
1⅛		1⅝	1.3170	¼	45	SB1312-9	
1⅛		1⅝	1.3170	5/16	45	SB1312-10	
1⅛		1⅝	1.3170	3/8	45	SB1312-0	
27mm		33.5mm	1.3189	7mm	45	SB1319E-1N	
1⅛		1⅜	1.3795	3/16	45	SB1375-3N	
1⅛		1⅜	1.3795	3/16	45	SB1375-3	
1⅛		1⅜	1.3795	7/32	45	SB1375-6	
1⅛		1⅜	1.3795	¼	45	SB1375-7	
1⅛		1⅜	1.3795	5/16	45	SB1375-18	
27mm		36mm	1.4173	9mm	45	SB1417E-1	
27mm		36mm	1.4173	9mm	45	SB1417E-1N	
1⅛		17/16	1.4420	3/16	45	SB1437-9	
1⅛		17/16	1.4420	5/16	45	SB1437-22	
1⅛		1½	1.5045	5/16	45	SB1500-23	
1⅛		1⅞	1.5670	3/8	45	SB1562-26	
1⅛		1⅞	1.5670	7/16	45	SB1562-44	
1.065T	1.120	1⅝	1.3195	0.2850	45	SB1312-62	
1.069	1.180	1.343	1.3430	0.2370	45	SB1343E-1	005
1.069	1.180	1.348	1.3480	0.2370	45	SB1343E-1+005	
1.086		1⅝	1.3195	0.3050	45	SB1312-56	
1.086T	1.153	1⅝	1.3195	0.3050	45	SB1312-50	
1.087		1.348	1.3480	0.2000	45	SB1348E-1N	010
1.087		1.358	1.3580	0.2000	45	SB1348E-1N+010	
1.090T	1.101	17/16	1.4445	0.3540	45	SB1437-53	
1⅜		1⅝	1.3170	7/32	45	SB1312-11	
1⅜		1⅜	1.3795	0.2030	45	SB1375-25	
1.095T	1.262	17/16	1.4445	0.2370	45	SB1437-58	
1.100T	1.210	1⅜	1.3820	0.3000	45	SB1375-62	
1.100T	1.213	1½	1.5070	0.3160	45	SB1500-57	
1.100T	1.140	1.375	1.3750	0.2270	30	SB1375E-1	010
1.100T	1.130	1.375	1.3750	0.2270	45	SB1375E-2N	005, 010, 020
1.100T	1.130	1.380	1.3800	0.2270	45	SB1375E-2N+005	
1.100	1.140	1.385	1.3850	0.2270	30	SB1375E-1+010	
1.100	1.140	1.385	1.3850	0.2270	45	SB1375E-2N+010	
1.100T	1.130	1.395	1.3950	0.2270	45	SB1375E-2N+020	
1.102		1⅜	1.3820	0.2600	45	SB1375-56	
28mm		37mm	1.4567	9mm	45	SB1457E-2N	
28mm		37mm	1.4567	9mm	45	SB1457E-2	
28mm		34.5mm	1.3582	7mm	45	SB1358E-1N	
1.105		17/16	1.4445	0.3220	45	SB1437-65	
1.107T	1.217	1⅜	1.3820	0.2370	45	SB1375-60	
1.109T	1.218	1⅜	1.3820	0.2550	45	SB1375-50	
1.110T	1.215	17/16	1.4445	0.3150	45	SB1437-56	
1.114	1.135	1.322	1.3220	0.2360	45	SB1322E-1	
1.120		1⅜	1.3820	0.3250	45	SB1375-55	
1.120		17/16	1.4445	0.3000	45	SB1437-66	
28.5mm		35.5mm	1.3976	7.5mm	45	SB1398E-1N	
1.125T	1.219	1.437	1.4370	0.2365	30	SB1437E-2	
1⅝		1⅝	1.3170	3/16	45	SB1312-7	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1 $\frac{1}{8}$		1 $\frac{5}{16}$	1.3170	$\frac{7}{32}$	45	SB1312-13	
1 $\frac{1}{8}$		1 $\frac{3}{8}$	1.3795	$\frac{3}{16}$	45	SB1375-4	
1 $\frac{1}{8}$		1 $\frac{3}{8}$	1.3795	$\frac{7}{32}$	45	SB1375-1	030
1 $\frac{1}{8}$		1 $\frac{3}{8}$	1.3795	$\frac{1}{4}$	45	SB1375-2	
1 $\frac{1}{8}$		1 $\frac{3}{8}$	1.3795	17/64	45	SB1375-5	
1 $\frac{1}{8}$		1 $\frac{3}{8}$	1.3795	$\frac{3}{8}$	45	SB1375-0	
1 $\frac{1}{8}$		1 $\frac{3}{8}$	1.3800	$\frac{7}{32}$	45	SB1375-1N	
1 $\frac{1}{8}$		1.410	1.4095	$\frac{7}{32}$	45	SB1375-1+030	
1 $\frac{1}{8}$		1 $\frac{7}{16}$	1.4420	$\frac{3}{16}$	45	SB1437-10	
1 $\frac{1}{8}$		1 $\frac{7}{16}$	1.4420	$\frac{7}{32}$	45	SB1437-4	
1 $\frac{1}{8}$		1 $\frac{7}{16}$	1.4420	$\frac{1}{4}$	45	SB1437-8	
1 $\frac{1}{8}$		1 $\frac{7}{16}$	1.4420	$\frac{5}{16}$	45	SB1437-6	
1.125		1 $\frac{7}{16}$	1.4445	0.2570	45	SB1437-60	
1 $\frac{1}{8}$		1 $\frac{1}{2}$	1.5045	$\frac{3}{16}$	45	SB1500-5	
1 $\frac{1}{8}$		1 $\frac{1}{2}$	1.5045	$\frac{7}{32}$	45	SB1500-8	
1 $\frac{1}{8}$		1 $\frac{1}{2}$	1.5045	$\frac{5}{16}$	45	SB1500-9	
1 $\frac{1}{8}$		1 $\frac{9}{16}$	1.5670	$\frac{1}{4}$	45	SB1562-15	
1 $\frac{1}{8}$		1 $\frac{9}{16}$	1.5670	$\frac{5}{16}$	45	SB1562-28	
1 $\frac{1}{8}$		1 $\frac{9}{16}$	1.5670	$\frac{3}{8}$	45	SB1562-29	
1 $\frac{1}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{7}{16}$	45	SB1625-41	
1.130T	1.272	1 $\frac{3}{8}$	1.3820	0.3040	45	SB1375-61	
1.130T	1.311	1 $\frac{7}{16}$	1.4420	0.2500	45	SB1437-51	
1.135T	1.250	1 $\frac{7}{16}$	1.4445	0.3160	45	SB1437-68	
1.140T	1.228	1 $\frac{7}{16}$	1.4445	0.2370	45	SB1437-69	
1.140T	1.241	1 $\frac{7}{16}$	1.4445	0.3050	45	SB1437-50	
1.142T	1.265	1 $\frac{7}{16}$	1.4445	0.3360	45	SB1437-73	
29mm		38mm	1.4961	9mm	45	SB1496E-1N	
29mm		38mm	1.4961	9mm	45	SB1496E-1	
1-9/64T	1.200	1.442	1.4420	$\frac{1}{4}$	30	SB1442E-1	005,010,020,030,040,063
1.150T	1.243	1 $\frac{7}{16}$	1.4445	0.2570	45	SB1437-72	
1-9/64T	1.200	1.447	1.4470	$\frac{1}{4}$	30	SB1442E-1+005	
1-9/64T	1.200	1.452	1.4520	$\frac{1}{4}$	30	SB1442E-1+010	
1-9/64T	1.200	1.462	1.4620	$\frac{1}{4}$	30	SB1442E-1+020	
1-9/64T	1.200	1.472	1.4720	$\frac{1}{4}$	30	SB1442E-1+030	
1-9/64T	1.200	1.482	1.4820	$\frac{1}{4}$	30	SB1442E-1+040	
1-9/64T	1.200	1.505	1.5050	$\frac{1}{4}$	30	SB1442E-1+063	
29.5mm		36.5mm	1.4370	7.5mm	45	SB1437E-3N	
1.161	1.240	1.381	1.3810	0.255	30	SB1381E-1	
1.162		1 $\frac{7}{16}$	1.4445	0.2300	45	SB1437-74	
1.162		1 $\frac{7}{16}$	1.4445	0.3100	45	SB1437-61	
1.165		1 $\frac{3}{8}$	1.3820	0.3100	45	SB1375-65	
1.170	1.205	1.400	1.4000	0.2170	45	SB1400E-1PM	
1.170		1 $\frac{9}{16}$	1.5695	0.2670	45	SB1562-77	
1.175		1 $\frac{7}{16}$	1.4445	0.2600	45	SB1437-75	
1.175T	1.235	1 $\frac{1}{2}$	1.5070	0.2360	45	SB1500-77	
1.180T	1.270	1 $\frac{7}{16}$	1.4445	0.2550	45	SB1437-67	
1.180T	1.245	1 $\frac{7}{16}$	1.4445	0.3050	45	SB1437-59	
1.180T	1.280	1 $\frac{1}{2}$	1.5070	0.2140	45	SB1500-74	
1.180		1 $\frac{1}{2}$	1.5070	0.3000	45	SB1500-75	
1.180T	1.241	1 $\frac{1}{2}$	1.5070	0.3070	45	SB1500-53	
1.180T	1.325	1 $\frac{1}{2}$	1.5070	0.3070	45	SB1500-54	
1.180		1 $\frac{9}{16}$	1.5695	0.3160	45	SB1562-72	
1.181T	1.285	1 $\frac{7}{16}$	1.4445	0.2800	45	SB1437-63	
30mm		39mm	1.5354	9mm	45	SB1535E-1	
30mm		39mm	1.5354	9mm	45	SB1535E-1N	
30mm		40mm	1.5748	9.5mm	45	SB1575E-3	
30mm		40mm	1.5748	9.5mm	45	SB1575E-3N	
1 $\frac{3}{16}$		1 $\frac{3}{8}$	1.3795	$\frac{7}{32}$	45	SB1375-22	
1 $\frac{3}{16}$		1 $\frac{7}{16}$	1.4420	$\frac{3}{16}$	45	SB1437-24	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1 ³ / ₁₆		1 ⁷ / ₁₆	1.4420	⁷ / ₃₂	45	SB1437-3N	
1 ³ / ₁₆		1 ⁷ / ₁₆	1.4420	⁷ / ₃₂	45	SB1437-3	
1 ³ / ₁₆		1 ⁷ / ₁₆	1.4420	¹ / ₄	45	SB1437-5	
1 ³ / ₁₆		1 ⁷ / ₁₆	1.4420	⁵ / ₁₆	45	SB1437-25	
1 ³ / ₁₆		1 ⁷ / ₁₆	1.4425	⁷ / ₃₂	45	SB1437-3PM	
1 ³ / ₁₆		1 ¹ / ₂	1.5045	⁷ / ₃₂	45	SB1500-2	
1 ³ / ₁₆		1 ¹ / ₂	1.5045	¹ / ₄	45	SB1500-6	
1 ³ / ₁₆		1 ¹ / ₂	1.5045	⁵ / ₁₆	45	SB1500-10	
1 ³ / ₁₆		1 ¹ / ₂	1.5045	³ / ₈	45	SB1500-26	
1 ³ / ₁₆		1 ⁹ / ₁₆	1.5670	⁷ / ₃₂	45	SB1562-13	
1 ³ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	1.5670	⁷ / ₃₂	45	SB1562-42	
1 ³ / ₁₆		1 ⁹ / ₁₆	1.5670	¹ / ₄	45	SB1562-31	
1 ³ / ₁₆ T	1 ¹ / ₄	1 ⁹ / ₁₆	1.5670	0.3100	45	SB1562-34	
1 ³ / ₁₆		1 ⁹ / ₁₆	1.5670	⁵ / ₁₆	30	SB1562-11	
1 ³ / ₁₆		1 ⁹ / ₁₆	1.5670	³ / ₈	45	SB1562-0	
1 ³ / ₁₆		1 ⁵ / ₈	1.6300	³ / ₈	45	SB1625-8	
1 ³ / ₁₆		1 ¹¹ / ₁₆	1.6925	⁷ / ₁₆	45	SB1687-42	
1.200T	1.277	1.476	1.4760	0.2445	30	SB1476E-2	
1.200		1 ⁷ / ₁₆	1.4445	0.2970	45	SB1437-62	
1.200		1.459	1.4595	0.2170	24.5	SB1459E-1	
1.200T	1.220	1 ¹ / ₂	1.5070	0.3150	45	SB1500-58	
30.5mm		37.5mm	1.4763	7.5mm	45	SB1476E-3N	
1-13/64T	1.245	1.441	1.4410	0.2150	30	SB1441E-1	
1.203T	1.266	1 ¹ / ₂	1.5070	0.2800	45	SB1500-50	
1.203T	1.266	1 ¹ / ₂	1.5070	0.2800	45	SB1500-50N	
1.203		1 ¹ / ₂	1.5070	0.2830	45	SB1500-70	
1-13/64		1.681	1.6810	⁵ / ₁₆	45	SB1681E-1	
1.210T	1.248	1 ¹ / ₂	1.5070	0.3450	45	SB1500-63	
1.210R	1.369	1.5775	1.5795	0.2525	30	SB1579E-1C	
1.210T	1.295	1.479	1.4790	0.2570	45	SB1479E-1C	
1 ⁷ / ₃₂		1 ⁷ / ₁₆	1.4420	⁷ / ₃₂	45	SB1437-2	
1 ⁷ / ₃₂		1 ⁷ / ₁₆	1.4420	⁷ / ₃₂	45	SB1437-2N	
1 ⁷ / ₃₂		1 ⁷ / ₁₆	1.4420	¹ / ₄	45	SB1437-14	
1 ⁷ / ₃₂		1.442	1.4420	¹¹ / ₃₂	45	SB1442E-2	
1 ⁷ / ₃₂		1 ⁷ / ₁₆	1.4425	⁷ / ₃₂	45	SB1437-2PM	
1 ⁷ / ₃₂ T	1 ¹¹ / ₃₂	1 ¹ / ₂	1.5045	⁷ / ₃₂	45	SB1500-4	
1 ⁷ / ₃₂		1 ¹ / ₂	1.5045	¹ / ₄	45	SB1500-11	
1.219		1 ⁹ / ₁₆	1.5695	0.3170	45	SB1562-69N	
1.219		1 ⁹ / ₁₆	1.5695	0.3170	45	SB1562-69	
1.220T	1.284	1 ¹ / ₂	1.5070	0.3100	45	SB1500-62	
1.220T	1.356	1 ⁹ / ₁₆	1.5695	0.3440	45	SB1562-54	
31mm		41mm	1.6142	9.5mm	45	SB1614E-1	
31mm		41mm	1.6142	9.5mm	45	SB1614E-1N	
1.230		1 ¹ / ₂	1.5070	0.2780	45	SB1500-73	
1.230		1 ¹ / ₂	1.5070	0.2780	45	SB1500-73N	
1.230		1 ⁹ / ₁₆	1.5695	0.2780	45	SB1562-78	
1.240		1 ¹ / ₂	1.5070	0.3170	45	SB1500-71	
31.5mm		38.5mm	1.5157	7.5mm	45	SB1516E-2N	
1.240R	1.345	1.5385	1.5385	0.2540	45	SB1539E-5	
1.240T	1.395	1.5385	1.5385	0.2550	45	SB1538E-2	
1.245T	1.268	1 ⁹ / ₁₆	1.5695	0.3540	45	SB1562-51	
1.245T	1.325	1.518	1.5180	0.2450	45	SB1518E-1	
1.246T	1.303	1 ⁹ / ₁₆	1.5695	0.2300	45	SB1562-57	
1 ¹ / ₄		1 ⁷ / ₁₆	1.4420	³ / ₁₆	45	SB1437-28	
1 ¹ / ₄		1 ⁷ / ₁₆	1.4420	⁷ / ₃₂	45	SB1437-1N	
1 ¹ / ₄		1 ⁷ / ₁₆	1.4420	⁷ / ₃₂	45	SB1437-1	
1 ¹ / ₄		1 ⁷ / ₁₆	1.4420	⁵ / ₁₆	45	SB1437-30	
1 ¹ / ₄		1 ¹ / ₂	1.5045	³ / ₁₆	45	SB1500-13	
1 ¹ / ₄		1 ¹ / ₂	1.5045	⁷ / ₃₂	45	SB1500-1	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1¼		1½	1.5045	7/32	45	SB1500-1PM	
1¼		1½	1.5045	¼	45	SB1500-3	003
1¼		1½	1.5045	9/32	45	SB1500-28	
1¼		1½	1.5045	5/16	45	SB1500-12	
1¼		1.504	1.5045	0.3350	45	SB1505E-1	
1¼		1½	1.5045	3/8	45	SB1500-0	
1¼		1½	1.5050	7/32	45	SB1500-1N	
1.250		1½	1.5070	0.2300	45	SB1500-80	
1¼		1.507	1.5075	¼	45	SB1500-3+003	
1¼		1.5160	1.5160	¼	45	SB1516E-1	
1¼		19/16	1.5670	3/16	45	SB1562-16	
1¼		19/16	1.5670	7/32	45	SB1562-6	
1¼		19/16	1.5670	¼	45	SB1562-7	
1¼		19/16	1.5670	5/16	45	SB1562-17	
1¼		19/16	1.5670	3/8	45	SB1562-35	
1¼		19/16	1.5675	7/32	45	SB1562-6N	
1¼		19/16	1.5680	7/32	45	SB1562-6PM	
1¼		19/16	1.5680	9/32	45	SB1562-46N	
1¼		15/8	1.6300	7/32	45	SB1625-9	
1¼		15/8	1.6300	¼	45	SB1625-6	
1¼		15/8	1.6300	5/16	45	SB1625-7	
1¼		15/8	1.6300	3/8	45	SB1625-29	
1¼T	1.408	15/8	1.6320	0.2930	45	SB1625-60	
1¼		11/16	1.6925	7/32	45	SB1687-22	
1¼		11/16	1.6925	¼	45	SB1687-19	
1¼		11/16	1.6925	5/16	45	SB1687-23	
1¼		1¾	1.7550	¼	45	SB1750-10	
1¼		1¾	1.7550	5/16	45	SB1750-20	
1¼		1¾	1.7550	7/16	45	SB1750-43	
1.251	1.351	1.681	1.6810	3/8	45	SB1681E-3	
1.251	1.351	1.690	1.6900	3/8	45	SB1690E-1	
1.255T	1.405	1.5365	1.5365	0.3585	45	SB1536E-2N	015
1.255T	1.405	1.5515	1.5515	0.3585	45	SB1536E-2N+015	
1.255T	1.307	19/16	1.5695	0.3190	45	SB1562-67	
1.255T	1.437	15/8	1.6320	0.3000	45	SB1625-53	
1.260T	1.412	19/16	1.5695	0.2800	45	SB1562-50	
1.260T	1.427	15/8	1.6320	0.3150	45	SB1625-52	
32mm		42mm	1.6535	9.5mm	45	SB1654E-3N	
32mm		42mm	1.6535	9.5mm	45	SB1654E-3	
1.260R	1.359	1.696	1.6960	0.2860	30	SB1696E-1C	
1.265T	1.294	19/16	1.5695	0.2800	45	SB1562-66	
1.270		1.486	1.4860	0.2910	30	SB1486E-1	
1.273T	1.387	1.656	1.6560	0.3170	30	SB1656E-2	
1.275T	1.318	1½	1.5070	0.2500	45	SB1500-56	
32.5mm		39.5mm	1.5551	7.5mm	45	SB1555E-1N	
1.280T	1.361	15/8	1.6300	0.3150	45	SB1625-58	
1.280T	1.324	1.554	1.5545	0.2360	30	SB1554E-1	010, 020
1.280T	1.324	1.564	1.5645	0.2360	30	SB1554E-1+010	
1.280T	1.324	1.574	1.5745	0.2360	30	SB1554E-1+020	
1.288T	1.299	1.480	1.4800	¼	45	SB1480E-2	010
1.288T	1.299	1.490	1.4900	¼	45	SB1480E-2+010	
1.290T	1.325	19/16	1.5695	0.3240	45	SB1562-74	
33mm		43mm	1.6933	9.5mm	45	SB1693E-4	
1.295		1½	1.5070	0.2620	45	SB1500-79	
1.295		1.540	1.5400	0.2610	30	SB1540E-1	
1.295R	1.439	1.696	1.6960	0.3160	30	SB1696E-2C	
1.297T	1.390	1.5395	1.5395	0.2760	0	SB1539E-2	
1.298T	1.382	15/8	1.6320	0.3170	45	SB1625-56	010,030
1.298T	1.382	1.642	1.6420	0.3170	45	SB1625-56+010	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.298T	1.382	1.662	1.6620	0.3170	45	SB1625-56+030	
33mm		43mm	1.6929	9.5mm	45	SB1693E-4N	
33mm		40.5mm	1.5944	8mm	45	SB1594E-1N	
1.300R	1.433	1.6585	1.6585	0.2880	30	SB1658E-1C	
1.300R	1.4255	1.6955	1.6975	0.2950	40	SB1697E-2	
1.300T	1.331	1.578	1.5775	0.3170	45	SB1578E-1	
1.301T	1.348	1.554	1.5545	0.1900	45	SB1554E-2	010,020
1.301T	1.348	1.564	1.5645	0.1900	45	SB1554E-2+010	
1.301T	1.348	1.574	1.5745	0.1900	45	SB1554E-2+020	
1.310T	1.421	1.727	1.7270	0.3800	45	SB1727E-2N	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5680	7 ⁷ / ₃₂	45	SB1562-1PM	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	7 ⁷ / ₃₂	45	SB1625-4PM	
1.312T	1.460	1.657	1.6570	0.3950	45	SB1657E-1	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5670	7 ⁷ / ₃₂	45	SB1562-1	005,010
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5670	5 ¹ / ₁₆	45	SB1562-18	
1 ⁵ / ₁₆		1.572	1.5720	7 ⁷ / ₃₂	45	SB1562-1+005	
1 ⁵ / ₁₆		1.577	1.5770	7 ⁷ / ₃₂	45	SB1562-1+010	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6305	1 ¹ / ₄	45	SB1625-3N	
1 ⁵ / ₁₆		1 ¹ / ₂	1.5045	3 ³ / ₁₆	45	SB1500-29	
1 ⁵ / ₁₆		1 ¹ / ₂	1.5045	7 ⁷ / ₃₂	45	SB1500-30	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5670	3 ³ / ₁₆	45	SB1562-36	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5670	7 ⁷ / ₃₂	30	SB1562-8	
1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	1.5670	7 ⁷ / ₃₂	45	SB1562-9N	
1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	1.5670	7 ⁷ / ₃₂	45	SB1562-9	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5670	1 ¹ / ₄	45	SB1562-4	010
1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	1.5670	1 ¹ / ₄	45	SB1562-2	
1 ⁵ / ₁₆ T	1 ³ / ₈	1 ⁹ / ₁₆	1.5670	1 ¹ / ₄	45	SB1562-2N	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5670	3 ³ / ₈	45	SB1562-39	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5675	3 ³ / ₁₆	45	SB1562-36N	
1 ⁵ / ₁₆		1 ⁹ / ₁₆	1.5680	7 ⁷ / ₃₂	45	SB1562-1N	
1 ⁵ / ₁₆		1.577	1.5770	1 ¹ / ₄	45	SB1562-4+010	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	3 ³ / ₁₆	45	SB1625-30	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	7 ⁷ / ₃₂	45	SB1625-4N	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	7 ⁷ / ₃₂	45	SB1625-4	020
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	1 ¹ / ₄	45	SB1625-3	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	9 ⁹ / ₃₂	45	SB1625-18	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	5 ¹ / ₁₆	45	SB1625-10	
1 ⁵ / ₁₆		1 ⁵ / ₈	1.6300	0.3950	45	SB1625-20	
1 ⁵ / ₁₆		1.650	1.6500	7 ⁷ / ₃₂	45	SB1625-4+020	
1 ⁵ / ₁₆		1 ¹¹ / ₁₆	1.6925	7 ⁷ / ₃₂	45	SB1687-9	
1 ⁵ / ₁₆		1 ¹¹ / ₁₆	1.6925	1 ¹ / ₄	45	SB1687-6	
1 ⁵ / ₁₆		1 ¹¹ / ₁₆	1.6925	5 ¹ / ₁₆	45	SB1687-11	
1 ⁵ / ₁₆		1 ¹¹ / ₁₆	1.6925	3 ³ / ₈	45	SB1687-0	
1 ⁵ / ₁₆		1 ¹¹ / ₁₆	1.6930	7 ⁷ / ₃₂	45	SB1687-9N	
1 ⁵ / ₁₆		1 ³ / ₄	1.7550	7 ⁷ / ₃₂	45	SB1750-23	
1 ⁵ / ₁₆		1 ³ / ₄	1.7550	1 ¹ / ₄	45	SB1750-6	
1 ⁵ / ₁₆		1 ³ / ₄	1.7550	5 ¹ / ₁₆	45	SB1750-17	
1 ⁵ / ₁₆		1 ³ / ₄	1.7550	3 ³ / ₈	45	SB1750-24	
1 ⁵ / ₁₆		1 ³ / ₄	1.7550	7 ⁷ / ₁₆	45	SB1750-25	
1 ⁵ / ₁₆		1 ¹³ / ₁₆	1.8175	5 ¹ / ₁₆	45	SB1812-24	
1 ⁵ / ₁₆		1 ¹³ / ₁₆	1.8175	3 ³ / ₈	45	SB1812-25	
1.318T	1.358	1.687	1.6870	0.3150	20	SB1687E-5C	010,020
1.318T	1.358	1.697	1.6970	0.3150	20	SB1687E-5C+010	
1.318T	1.358	1.707	1.7070	0.3150	20	SB1687E-5C+020	
33.5mm		41.5mm	1.6338	8mm	45	SB1634E-2N	
1.320		1.558	1.5580	0.2170	45	SB1558E-1PM	
1.320		1 ⁵ / ₈	1.6320	0.3000	45	SB1625-62	
1.325T	1.530	1.856	1.8560	0.3100	30	SB1856E-2	
1.328T	1.397	1.584	1.5840	1 ¹ / ₄	30	SB1584E-1	010

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.328T	1.397	1.594	1.5940	1/4	30	SB1584E-1+010	
1.329		1 ⁵ / ₈	1.6320	0.2800	45	SB1625-54	
1-21/64		1.624	1.6245	3/8	45	SB1624E-1N	
1.333T	1.495	1 ⁵ / ₈	1.6320	0.2370	45	SB1625-55	
1.335		1.630	1.6300	0.3120	45	SB1630E-1	005,010,020
1.335		1.630	1.6300	0.3120	45	SB1630E-1N	
1.335T	1.387	1 ⁵ / ₈	1.6320	0.4200	45	SB1625-64	
1.335T	1.387	1 ⁵ / ₈	1.6320	0.4200	45	SB1625-64N	
1.335		1.635	1.6350	0.3120	45	SB1630E-1+005	
1.335		1.640	1.6400	0.3120	45	SB1630E-1+010	
1.335		1.650	1.6500	0.3120	45	SB1630E-1+020	
34mm		44mm	1.7323	9.5mm	45	SB1732E-1	
34mm		44mm	1.7323	9.5mm	45	SB1732E-1N	
1.340R	1.470	1.7765	1.7765	0.2975	25	SB1776E-1C	
1.340T	1.412	1.577	1.5775	0.2200	30	SB1577E-1	010, 020
1.340T	1.412	1.587	1.5875	0.2200	30	SB1577E-1+010	
1.340T	1.412	1.597	1.5975	0.2200	30	SB1577E-1+020	
1.340		1.600	1.6000	0.3000	45	SB1600E-1	020
1.340		1.620	1.6200	0.3000	45	SB1600E-1+020	
1.340T	1.426	1 ⁵ / ₈	1.6320	0.3070	45	SB1625-50	
1.340		1 ¹¹ / ₁₆	1.6945	0.3150	45	SB1687-55	
1 ¹¹ / ₃₂		1 ⁹ / ₁₆	1.5670	7/32	45	SB1562-3	
1 ¹¹ / ₃₂ T	1.380	1.628	1.6280	1/4	30	SB1628E-2	010,020,030
1 ¹¹ / ₃₂		1 ⁵ / ₈	1.6300	7/32	45	SB1625-11	006
1 ¹¹ / ₃₂		1 ⁵ / ₈	1.6300	1/4	45	SB1625-5	
1 ¹¹ / ₃₂		1.636	1.6360	7/32	45	SB1625-11+006	
1 ¹¹ / ₃₂ T	1.380	1.638	1.6380	1/4	30	SB1628E-2+010	
1 ¹¹ / ₃₂ T	1.380	1.648	1.6480	1/4	30	SB1628E-2+020	
1 ¹¹ / ₃₂ T	1.380	1.658	1.6580	1/4	30	SB1628E-2+030	
1 ¹¹ / ₃₂		1 ¹¹ / ₁₆	1.6925	7/32	45	SB1687-27	
1 ¹¹ / ₃₂		1 ¹¹ / ₁₆	1.6925	5/16	45	SB1687-4	
1 ¹¹ / ₃₂		1 ¹¹ / ₁₆	1.6935	5/16	45	SB1687-4N	
1.345T	1.380	1 ⁵ / ₈	1.6320	0.2900	45	SB1625-63	
1.345T	1.482	1.705	1.7050	0.2420	30	SB1695E-1+010	
1.345T	1.482	1.715	1.7150	0.2420	30	SB1695E-1+020	
1.348T	1.406	1.626	1.6265	0.3650	45	SB1626E-1N	
1.348T	1.524	1.628	1.6285	0.3650	45	SB1628E-1N	010,013
1.348T	1.524	1.638	1.6385	0.3650	45	SB1628E-1N+010	
1.348T	1.524	1.641	1.6415	0.3650	45	SB1628E-1N+013	
1.348T	1.482	1.695	1.6955	0.2430	30	SB1695E-1	010,020
1.350R	1.4525	1.6965	1.6965	0.3055	36	SB1696E-4	
1.350R	1.452	1.6965	1.6965	0.3190	45	SB1696E-3	
1.357		1.6285	1.6285	0.2490	30	SB1628E-3SA	
1.357T	1.414	1.628	1.6285	0.2490	30	SB1628E-3	010,020,030
1.357T	1.414	1.638	1.6385	0.2490	30	SB1628E-3+010	
1.357T	1.414	1.648	1.6485	0.2490	30	SB1628E-3+020	
1.357T	1.414	1.658	1.6585	0.2490	30	SB1628E-3+030	
1.357T	1.574	1.722	1.7220	0.2650	45	SB1722E-1	
34.5mm		45mm	1.7717	10mm	45	SB1772E-2	
34.5mm		45mm	1.7717	10mm	45	SB1772E-2N	
34.5mm		42.5mm	1.6732	8mm	45	SB1673E-1N	
1.360T	1.503	1 ³ / ₄	1.7570	0.3150	45	SB1750-59	
1.360T	1.466	1.6340	1.6340	0.3000	45	SB1634E-3	
1.360T	1.466	1.6340	1.6340	0.3000	45	SB1634E-3N	
1.367		1.654	1.6544	0.3120	45	SB1654E-1N	
1.367		1.671	1.6710	0.3110	45	SB1671E-1N	
1.372T	1.429	1.669	1.6690	0.2720	37	SB1669E-1	
1 ³ / ₈		1 ⁹ / ₁₆	1.5670	7/32	45	SB1562-12	
1 ³ / ₈		1 ⁹ / ₁₆	1.5670	1/4	45	SB1562-5	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{3}{16}$	45	SB1625-33	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{7}{32}$	45	SB1625-1N	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{7}{32}$	45	SB1625-1	005,010
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{7}{32}$	45	SB1625-1PM	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{1}{4}$	45	SB1625-2	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{1}{4}$	45	SB1625-2N	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	17/64	45	SB1625-15	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{5}{16}$	45	SB1625-14	
1 $\frac{3}{8}$		1 $\frac{5}{8}$	1.6300	$\frac{3}{8}$	45	SB1625-0	
1 $\frac{3}{8}$		1.635	1.6350	$\frac{7}{32}$	45	SB1625-1+005	
1 $\frac{3}{8}$		1.640	1.6395	$\frac{1}{4}$	45	SB1640E-1	
1 $\frac{3}{8}$		1.640	1.6400	$\frac{7}{32}$	45	SB1625-1+010	
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6925	$\frac{3}{16}$	45	SB1687-29	
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6925	$\frac{7}{32}$	45	SB1687-5	
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6925	$\frac{7}{32}$	45	SB1687-5N	
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6925	$\frac{1}{4}$	45	SB1687-7	005
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6925	$\frac{9}{32}$	45	SB1687-18	
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6925	$\frac{5}{16}$	45	SB1687-8	
1 $\frac{3}{8}$ T	17/16	1 $\frac{11}{16}$	1.6925	$\frac{5}{16}$	45	SB1687-10	
1 $\frac{3}{8}$ T	17/16	1 $\frac{11}{16}$	1.6925	$\frac{5}{16}$	45	SB1687-10N	
1 $\frac{3}{8}$		1 $\frac{11}{16}$	1.6925	$\frac{3}{8}$	45	SB1687-12	
1.375T	1.475	1 $\frac{11}{16}$	1.6945	0.2950	45	SB1687-56	
1 $\frac{3}{8}$		1.697	1.6975	$\frac{1}{4}$	45	SB1687-7+005	
1 $\frac{3}{8}$		1 $\frac{3}{4}$	1.7550	$\frac{7}{32}$	45	SB1750-7	
1 $\frac{3}{8}$		1 $\frac{3}{4}$	1.7550	$\frac{1}{4}$	45	SB1750-8	
1 $\frac{3}{8}$		1 $\frac{3}{4}$	1.7550	$\frac{9}{32}$	45	SB1750-15	
1 $\frac{3}{8}$		1 $\frac{3}{4}$	1.7550	$\frac{5}{16}$	45	SB1750-9	
1 $\frac{3}{8}$		1 $\frac{3}{4}$	1.7550	$\frac{3}{8}$	45	SB1750-0	
1 $\frac{3}{8}$		1 $\frac{3}{4}$	1.7555	$\frac{1}{4}$	45	SB1750-8N	
1 $\frac{3}{8}$		1 $\frac{13}{16}$	1.8175	$\frac{7}{32}$	45	SB1812-13	
1 $\frac{3}{8}$		1 $\frac{13}{16}$	1.8175	$\frac{1}{4}$	45	SB1812-14	
1 $\frac{3}{8}$		1 $\frac{13}{16}$	1.8175	$\frac{5}{16}$	45	SB1812-15	
1 $\frac{3}{8}$		1 $\frac{13}{16}$	1.8175	$\frac{3}{8}$	45	SB1812-16	
1 $\frac{3}{8}$		1 $\frac{7}{8}$	1.8800	$\frac{1}{4}$	45	SB1875-5	
1 $\frac{3}{8}$		1 $\frac{7}{8}$	1.8800	$\frac{7}{16}$	45	SB1875-39	
1.380		1 $\frac{5}{8}$	1.6320	0.2570	45	SB1625-59	
1.382T	1.455	1.722	1.7220	0.2650	20	SB1722E-3	
1.390T	1.452	1 $\frac{11}{16}$	1.6945	0.3050	45	SB1687-51	
1.397T	1.469	1 $\frac{11}{16}$	1.6945	0.2750	45	SB1687-58	
35.5mm		46mm	1.8110	10mm	45	SB1811E-1	
35.5mm		46mm	1.8110	10mm	45	SB1811E-1N	
1.400		1.638	1.6380	0.2370	30	SB1638E-2T	
1.400		1.609	1.6090	$\frac{1}{4}$	45	SB1609E-1	
1.400		1.638	1.6380	0.2180	30	SB1638E-2	
1.400T	1.486	1.676	1.6760	0.2370	30	SB1676E-1	
1.405T	1.592	1 $\frac{13}{16}$	1.8195	0.3150	45	SB1812-54	
1 $\frac{13}{32}$		1 $\frac{5}{8}$	1.6300	$\frac{1}{4}$	45	SB1625-39	
1 $\frac{13}{32}$		1 $\frac{11}{16}$	1.6925	$\frac{1}{4}$	45	SB1687-1	010
1 $\frac{13}{32}$		1 $\frac{11}{16}$	1.6925	$\frac{5}{16}$	45	SB1687-40	
1 $\frac{13}{32}$		1 $\frac{11}{16}$	1.6930	$\frac{1}{4}$	45	SB1687-1N	
1 $\frac{13}{32}$		1.702	1.7025	$\frac{1}{4}$	45	SB1687-1+010	
1 $\frac{13}{32}$		1.880	1.8800	$\frac{7}{32}$	45	SB1880E-1	
1.410		1.656	1.6560	0.2180	30	SB1656E-3	
1.410		1.656	1.6560	0.2580	30	SB1656E-1	
1.410		1.687	1.6875	0.3650	20	SB1687E-4N	010,020
1.410		1.697	1.6975	0.3650	20	SB1687E-4N+010	
1.410		1.707	1.7075	0.3650	20	SB1687E-4N+020	
1.410T	1.600	1 $\frac{3}{4}$	1.7570	0.2800	45	SB1750-51	
1.412		1.638	1.6380	0.2180	45	SB1638E-1N	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.415		1¾	1.7570	0.3160	45	SB1750-68	
1.415T	1.530	1.669	1.6690	0.2765	45	SB1669E-2N	
1.416T	1.525	1.711	1.7110	0.3780	45	SB1711E-1C	
1.417T	1.563	1.784	1.7845	0.2920	45	SB1784E-1N	
1.420		1.670	1.6700	0.3020	30	SB1670E-1	
1.420T	1.620	1 ¹³ / ₁₆	1.8195	0.3150	45	SB1812-53	
1.430		1.693	1.6925	0.2480	30	SB1692E-1N	005,015,030
1.430		1.698	1.6975	0.2480	30	SB1692E-1N+005	
1.430		1.708	1.7075	0.2480	30	SB1692E-1N+015	
1.430		1.723	1.7225	0.2480	30	SB1692E-1N+030	
1.4300		1.8125	1.8125	0.1860	30	SB1812E-9	005, 010, 020
1.4300		1.8175	1.8175	0.1860	30	SB1812E-9+005	
1.4300		1.8225	1.8225	0.1860	30	SB1812E-9+010	
1.4300		1.8325	1.8325	0.1860	30	SB1812E-9+020	
1.437T	1.546	1.687	1.6870	0.3650	45	SB1687E-6C	
1.437T	1.555	1¾	1.7570	0.3020	45	SB1750-60	
36.5mm		47mm	1.8504	10mm	45	SB1850E-2	
36.5mm		47mm	1.8504	10mm	45	SB1850E-2N	
1 ⁷ / ₁₆		1¾	1.7550	⁷ / ₃₂	45	SB1750-3	
1 ⁷ / ₁₆		1¾	1.7550	¹ / ₄	45	SB1750-4	
1 ⁷ / ₁₆		1¾	1.7555	¹ / ₄	45	SB1750-4N	
1 ⁷ / ₁₆		1 ¹³ / ₁₆	1.8175	¹ / ₄	45	SB1812-7	
1 ⁷ / ₁₆		1 ⁵ / ₈	1.6300	³ / ₁₆	45	SB1625-35	
1 ⁷ / ₁₆		1 ⁵ / ₈	1.6300	⁷ / ₃₂	45	SB1625-17	
1 ⁷ / ₁₆		1 ⁵ / ₈	1.6300	¹ / ₄	45	SB1625-36	
1 ⁷ / ₁₆ T	1.546	1.687	1.6870	0.3650	45	SB1687E-1N	See SB1693E-1N
1 ⁷ / ₁₆		1.691	1.6905	0.1810	30	SB1691E-1	010
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6920	⁷ / ₃₂	45	SB1687-2PM	
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	⁵ / ₃₂	45	SB1687-15	
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	³ / ₁₆	45	SB1687-16	
1 ⁷ / ₁₆		1.693	1.6925	0.2000	30	SB1691E-2	010
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	⁷ / ₃₂	45	SB1687-2	010
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	¹ / ₄	45	SB1687-3	
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	¹ / ₄	45	SB1687-3N	
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	⁵ / ₁₆	45	SB1687-13	
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6925	³ / ₈	45	SB1687-14	
1 ⁷ / ₁₆		1 ¹¹ / ₁₆	1.6930	⁷ / ₃₂	45	SB1687-2N	
1 ⁷ / ₁₆ T	1.546	1.693	1.6930	0.3650	45	SB1693E-1N	010,020,030
1 ⁷ / ₁₆ T	1.546	1.693	1.6930	³ / ₈	45	SB1693E-2	020,030
1 ⁷ / ₁₆		1.701	1.7005	0.1810	30	SB1691E-1+010	
1 ⁷ / ₁₆		1.701	1.7025	0.2000	30	SB1691E-2+010	
1 ⁷ / ₁₆		1.702	1.7025	⁷ / ₃₂	45	SB1687-2+010	
1 ⁷ / ₁₆ T	1.546	1.703	1.7030	0.3650	45	SB1693E-1N+010	
1 ⁷ / ₁₆ T	1.546	1.713	1.7130	0.3650	45	SB1693E-1N+020	
1 ⁷ / ₁₆ T	1.546	1.713	1.7130	³ / ₈	45	SB1693E-2+020	
1 ⁷ / ₁₆ T	1.546	1.723	1.7230	0.3650	45	SB1693E-1N+030	
1 ⁷ / ₁₆ T	1.546	1.723	1.7230	³ / ₈	45	SB1693E-2+030	
1 ⁷ / ₁₆		1¾	1.7550	³ / ₁₆	45	SB1750-11	
1.438T	1.610	1¾	1.7550	0.2030	45	SB1750-12	
1 ⁷ / ₁₆		1¾	1.7550	⁷ / ₃₂	45	SB1750-3N	
1 ⁷ / ₁₆		1¾	1.7550	⁵ / ₁₆	45	SB1750-5	
1 ⁷ / ₁₆		1¾	1.7550	³ / ₈	45	SB1750-32	
1 ⁷ / ₁₆		1¾	1.7550	⁷ / ₁₆	45	SB1750-33	
1 ⁷ / ₁₆		1 ¹³ / ₁₆	1.8175	⁷ / ₃₂	45	SB1812-17	
1 ⁷ / ₁₆		1 ¹³ / ₁₆	1.8175	⁵ / ₁₆	45	SB1812-11	
1 ⁷ / ₁₆		1 ¹³ / ₁₆	1.8175	³ / ₈	45	SB1812-0	
1 ⁷ / ₁₆		1.828	1.8280	³ / ₈	45	SB1828E-1	
1 ⁷ / ₁₆		1 ⁷ / ₈	1.8800	¹ / ₄	45	SB1875-12	
1 ⁷ / ₁₆		1 ⁷ / ₈	1.8800	⁵ / ₁₆	45	SB1875-32	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1 ⁷ / ₁₆		1 ⁷ / ₈	1.8800	³ / ₈	45	SB1875-33	
1 ⁷ / ₁₆		1 ¹⁵ / ₁₆	1.9425	⁷ / ₁₆	45	SB1937-39	
1 ⁷ / ₁₆		2.000	2.0055	¹ / ₄	45	SB2000-8	
1.440T	1.490	1 ¹³ / ₁₆	1.8195	0.3150	45	SB1812-52	
1.445		1.744	1.7445	0.3120	45	SB1744E-1N	
1.445T	1.617	1 ³ / ₄	1.7570	0.3100	45	SB1750-61	
1.446		1.678	1.6785	0.3120	45	SB1678E-1	
1.450T	1.542	1.697	1.6975	0.2760	45	SB1697E-1	
1.450		1 ¹¹ / ₁₆	1.6945	0.2970	45	SB1687-54	
1.450		1.812	1.8120	0.1860	30	SB1812E-4	005,010,020,030
1.450		1.817	1.8170	0.1860	30	SB1812E-4+005	
1.450		1.822	1.8220	0.1860	30	SB1812E-4+010	
1.450		1.832	1.8320	0.1860	30	SB1812E-4+020	
1.450		1.842	1.8420	0.1860	30	SB1812E-4+030	
1.450R	1.573	1.775	1.7755	0.3330	30	SB1775E-4	
1.450T	1.555	1.775	1.7755	0.3330	45	SB1775E-3	
1.454T	1.778	1.933	1.9330	0.2410	30	SB1933E-2	
1.455T	1.597	1.733	1.7330	0.3650	45	SB1733E-2N	
1.455T	1.595	1 ³ / ₄	1.7570	0.3070	45	SB1750-52	
1.458		1.693	1.6935	0.2340	45	SB1693E-8N	005
1.458		1.698	1.6985	0.2340	45	SB1693E-8N+005	
1.458T	1.680	1.775	1.7750	0.3000	45	SB1775E-1	
1.460		1.725	1.7255	0.2510	30	SB1725E-2N	
1.468		1 ³ / ₄	1.7570	0.2760	45	SB1750-65	
1 ¹⁵ / ₃₂		1 ¹³ / ₁₆	1.8175	⁵ / ₁₆	45	SB1812-21N	
1.476		1.781	1.7810	0.3110	45	SB1781E-1N	
37.5mm		48mm	1.8898	10mm	45	SB1890E-2	
37.5mm		48mm	1.8898	10mm	45	SB1890E-2N	
1.490T	1.623	1.782	1.7825	0.3400	30	SB1782E-1	015
1.490T	1.623	1.797	1.7975	0.3400	30	SB1782E-1+015	
1.490T	1.588	1 ¹³ / ₁₆	1.8195	0.3070	45	SB1812-50	
1.490R	1.631	1.835	1.8345	0.2950	45	SB1835E-1	
1.495T	1.556	1.853	1.8535	0.2710	20	SB1853E-2	
1.498T	1.700	1.853	1.8530	0.2730	30	SB1853E-1	
1 ¹ / ₂		1 ¹¹ / ₁₆	1.6925	³ / ₁₆	45	SB1687-32	
1 ¹ / ₂		1 ¹¹ / ₁₆	1.6925	⁷ / ₃₂	45	SB1687-17	
1 ¹ / ₂		1 ¹¹ / ₁₆	1.6925	¹ / ₄	45	SB1687-33	
1 ¹ / ₂		1 ¹¹ / ₁₆	1.6925	³ / ₈	45	SB1687-35	
1 ¹ / ₂		1 ³ / ₄	1.7550	³ / ₁₆	45	SB1750-34	
1 ¹ / ₂		1 ³ / ₄	1.7550	⁷ / ₃₂	45	SB1750-2N	
1 ¹ / ₂		1 ³ / ₄	1.7550	⁷ / ₃₂	45	SB1750-2	010
1 ¹ / ₂		1 ³ / ₄	1.7550	⁷ / ₃₂	45	SB1750-2PM	
1 ¹ / ₂		1 ³ / ₄	1.7550	¹ / ₄	45	SB1750-1	010
1 ¹ / ₂		1 ³ / ₄	1.7550	⁵ / ₁₆	45	SB1750-13	
1 ¹ / ₂		1 ³ / ₄	1.7550	³ / ₈	45	SB1750-36	
1 ¹ / ₂		1 ³ / ₄	1.7555	¹ / ₄	45	SB1750-1N	
1 ¹ / ₂		1.765	1.7650	⁷ / ₃₂	45	SB1750-2+010	
1 ¹ / ₂		1.765	1.7650	¹ / ₄	45	SB1750-1+010	
1 ¹ / ₂		1 ¹³ / ₁₆	1.8175	³ / ₁₆	45	SB1812-34	
1 ¹ / ₂		1 ¹³ / ₁₆	1.8175	⁷ / ₃₂	45	SB1812-2	
1 ¹ / ₂ T	1 ⁹ / ₁₆	1 ¹³ / ₁₆	1.8175	⁷ / ₃₂	45	SB1812-8	
1 ¹ / ₂ T	1 ⁵ / ₈	1 ¹³ / ₁₆	1.8175	⁷ / ₃₂	45	SB1812-3	
1 ¹ / ₂		1 ¹³ / ₁₆	1.8175	¹ / ₄	45	SB1812-5	030
1 ¹ / ₂		1 ¹³ / ₁₆	1.8175	⁵ / ₁₆	45	SB1812-9	
1 ¹ / ₂		1 ¹³ / ₁₆	1.8175	³ / ₈	45	SB1812-18	
1 ¹ / ₂		1 ¹³ / ₁₆	1.8175	⁷ / ₁₆	45	SB1812-20	
1 ¹ / ₂		1 ¹³ / ₁₆	1.8180	¹ / ₄	45	SB1812-5N	
1 ¹ / ₂		1 ¹³ / ₁₆	1.8180	⁵ / ₁₆	45	SB1812-9N	
1 ¹ / ₂ T	1.555	1 ¹³ / ₁₆	1.8195	0.2780	45	SB1812-55	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1½		1.847	1.8475	¼	45	SB1812-5+030	
1½T	1⅝	1⅞	1.8800	7/32	45	SB1875-8	
1½		1⅞	1.8800	7/32	45	SB1875-13	
1½		1⅞	1.8800	¼	45	SB1875-9	
1½		1⅞	1.8800	5/16	45	SB1875-14	
1½		1⅞	1.8800	3/8	45	SB1875-0	
1½		1⅞	1.8800	7/16	45	SB1875-21	
1½		1⅝ ₁₆	1.9430	¼	45	SB1937-9	
1½		1⅝ ₁₆	1.9430	5/16	45	SB1937-20	
1½		1⅝ ₁₆	1.9430	3/8	45	SB1937-10	
1½		2.000	2.0055	3/8	45	SB2000-9	
1½		2.000	2.0055	7/16	45	SB2000-24	
1.505T	1.630	1⅞	1.8820	0.2800	45	SB1875-57	
1.505T	1.689	1⅞	1.8820	0.3800	45	SB1875-53	
1.510T	1.585	1.832	1.8320	0.2410	30	SB1832E-1	
1.510T	1.642	1.951	1.9515	0.2900	30	SB1951E-1	010
1.510T	1.642	1.961	1.9615	0.2900	20	SB1951E-1+010	
38.5mm		49mm	1.9291	10mm	45	SB1929E-1	
38.5mm		49mm	1.9291	10mm	45	SB1929E-1N	
1.520		1.812	1.8120	0.2240	30	SB1812E-4T	
1.525R	1.603	1.874	1.8740	0.2950	30	SB1874E-4N	
1.525R	1.603	1.874	1.8740	0.2950	30	SB1874E-3	
1.530T	1.580	1.812	1.8125	0.3650	30	SB1812E-8	
1.530T	1.670	1⅞ ₁₆	1.8195	0.3070	45	SB1812-51	
1⅞ ₃₂ T	1.600	1.898	1.8985	0.2750	30	SB1899E-1	
1.535		1.792	1.7925	0.2570	30	SB1792E-1	
1.535		1.812	1.8120	0.3650	30	SB1812E-7	
1.535		1⅞ ₁₆	1.8195	0.2930	45	SB1812-56	
39mm		50mm	1.9685	10.5mm	45	SB1969E-2N	
39mm		50mm	1.9685	10.5mm	45	SB1969E-2	
1.535T	1.595	1.782	1.7820	0.2450	45	SB1782E-2	
1.540T	1.610	1.812	1.8120	0.3650	30	SB1812E-3	See SB1817E-3
1.540		1.812	1.8125	0.3650	20	SB1812E-6N	010,020
1.540		1.813	1.8130	0.3150	20	SB1813E-1	010,020
1.540T	1.610	1.817	1.8170	0.3650	30	SB1817E-3	010,020,030,040
1.540		1.822	1.8225	0.3650	20	SB1812E-6N+010	
1.540		1.823	1.8230	0.3150	20	SB1813E-1+010	
1.540T	1.610	1.827	1.8270	0.3650	30	SB1817E-3+010	
1.540		1.832	1.8325	0.3650	20	SB1812E-6N+020	
1.540		1.833	1.8330	0.3150	20	SB1813E-1+020	
1.540T	1.610	1.837	1.8370	0.3650	30	SB1817E-3+020	
1.540T	1.610	1.847	1.8470	0.3650	30	SB1817E-3+030	
1.540T	1.610	1.857	1.8570	0.3650	30	SB1817E-3+040	
1.540T	1.718	1⅝ ₁₆	1.9420	0.3150	45	SB1937-51	
1.548T	1.650	1.811	1.8110	0.3340	45	SB1811E-2N	015
1.548T	1.650	1.811	1.8110	0.3340	45	SB1811E-3	
1.548T	1.650	1.826	1.8260	0.3340	45	SB1811E-2N+015	
1.550		1.831	1.8315	0.2530	20	SB1831E-2	005,015,030
1.550		1.836	1.8365	0.2530	20	SB1831E-2+005	
1.550		1.846	1.8465	0.2530	20	SB1831E-2+015	
1.550		1.861	1.8615	0.2530	20	SB1831E-2+030	
1.550		1.814	1.8140	0.2400	45	SB1814E-4C	
1.550T		1.857	1.8570	0.2570	30	SB1856E-1	010,020
1.550T		1.867	1.8670	0.2570	30	SB1856E-1+010	
1.550T		1.877	1.8770	0.2570	30	SB1856E-1+020	
1.555T	1.725	1.874	1.8740	0.2375	45	SB1874E-2	
1.555		1.831	1.8315	0.2800	30	SB1831E-1	005,015,030
1.555		1.836	1.8365	0.2800	30	SB1831E-1+005	
1.555		1.846	1.8465	0.2800	30	SB1831E-1+015	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.555		1.861	1.8615	0.2800	30	SB1831E-1+030	
1.560		1.841	1.8415	0.2510	20	SB1841E-1	
1.560T	1.569	1.823	1.8230	0.2730	30	SB1823E-1	015
1.560T	1.569	1.838	1.8380	0.2730	30	SB1823E-1+015	
1 ¹ / ₁₆		1 ¹⁵ / ₁₆	1.9425	5 ¹ / ₁₆	45	SB1937-3	
1 ¹ / ₁₆		1 ¹³ / ₁₆	1.8175	3 ¹ / ₁₆	45	SB1812-36	
1.562		1.934	1.9340	0.3100	20	SB1934E-1	
1 ¹ / ₁₆		1 ³ / ₄	1.7550	7 ¹ / ₃₂	45	SB1750-38	
1 ¹ / ₁₆		1 ³ / ₄	1.7550	1 ¹ / ₄	45	SB1750-39	
1 ¹ / ₁₆ T	1.662	1.812	1.8120	0.3650	45	SB1812E-1	See SB1818E-1
1 ¹ / ₁₆		1 ¹³ / ₁₆	1.8175	7 ¹ / ₃₂	45	SB1812-4N	
1 ¹ / ₁₆		1 ¹³ / ₁₆	1.8175	7 ¹ / ₃₂	45	SB1812-4	
1 ¹ / ₁₆		1 ¹³ / ₁₆	1.8175	1 ¹ / ₄	45	SB1812-1N	
1 ¹ / ₁₆		1 ¹³ / ₁₆	1.8175	1 ¹ / ₄	45	SB1812-1	
1 ¹ / ₁₆		1 ¹³ / ₁₆	1.8175	5 ¹ / ₁₆	45	SB1812-10	
1 ¹ / ₁₆		1 ¹³ / ₁₆	1.8175	3 ¹ / ₈	45	SB1812-19	
1 ¹ / ₁₆		1 ¹³ / ₁₆	1.8180	7 ¹ / ₃₂	45	SB1812-4PM	
1 ¹ / ₁₆ T	1.662	1.818	1.8180	0.3650	45	SB1818E-1	
1 ¹ / ₁₆ T	1.662	1.818	1.8180	3 ¹ / ₈	45	SB1818E-2	020
1 ¹ / ₁₆ T	1.662	1.838	1.8380	3 ¹ / ₈	45	SB1818E-2+020	
1 ¹ / ₁₆		1.846	1.8465	9 ¹ / ₃₂	30	SB1847E-1	
1 ¹ / ₁₆		1 ⁷ / ₈	1.8800	7 ¹ / ₃₂	45	SB1875-19	
1 ¹ / ₁₆		1 ⁷ / ₈	1.8800	1 ¹ / ₄	45	SB1875-2	
1 ¹ / ₁₆		1 ⁷ / ₈	1.8800	5 ¹ / ₁₆	45	SB1875-11	
1 ¹ / ₁₆		1 ⁷ / ₈	1.8800	3 ¹ / ₈	45	SB1875-16	
1 ¹ / ₁₆ T	1.625	1.880	1.8800	7 ¹ / ₁₆	30	SB1880E-2	020
1 ¹ / ₁₆ T	1.625	1.900	1.9000	7 ¹ / ₁₆	30	SB1880E-2+020	
1 ¹ / ₁₆		1 ¹⁵ / ₁₆	1.9425	1 ¹ / ₄	45	SB1937-4	
1 ¹ / ₁₆		1 ¹⁵ / ₁₆	1.9430	7 ¹ / ₃₂	45	SB1937-27	
1 ¹ / ₁₆		1 ¹⁵ / ₁₆	1.9430	1 ¹ / ₄	45	SB1937-4N	
1 ¹ / ₁₆		1 ¹⁵ / ₁₆	1.9430	3 ¹ / ₈	45	SB1937-0	
1.563T	1.755	1.957	1.9570	0.3130	30	SB1957ST	
1 ¹ / ₁₆		2.000	2.0055	7 ¹ / ₃₂	45	SB2000-33	
1 ¹ / ₁₆		2.000	2.0055	1 ¹ / ₄	45	SB2000-10	
1 ¹ / ₁₆		2.000	2.0055	5 ¹ / ₁₆	45	SB2000-11	
1 ¹ / ₁₆		2.000	2.0055	3 ¹ / ₈	45	SB2000-34	
1 ¹ / ₁₆		2 ¹ / ₁₆	2.0680	1 ¹ / ₄	45	SB2062-6	
1 ¹ / ₁₆		2 ¹ / ₁₆	2.0680	5 ¹ / ₁₆	45	SB2062-19	
1 ¹ / ₁₆		2 ¹ / ₁₆	2.0680	3 ¹ / ₈	45	SB2062-13	
1 ¹ / ₁₆		2 ¹ / ₁₆	2.0680	7 ¹ / ₁₆	45	SB2062-20	
1 ¹ / ₁₆		2 ¹ / ₈	2.1305	3 ¹ / ₈	45	SB2125-21	
1.570T	1.660	1.894	1.8945	0.2920	30	SB1894E-1	
1.570		1.815	1.8150	0.2610	30	SB1815E-2	
1.571		1.803	1.8035	0.3120	45	SB1803E-1	
1.571		1.819	1.8195	0.2830	30	SB1819E-1	005,010,020
1.571		1.824	1.8245	0.2830	30	SB1819E-1+005	
1.571		1.829	1.8295	0.2830	30	SB1819E-1+010	
1.571		1.839	1.8395	0.2830	30	SB1819E-1+020	
1.573T	1.617	1.857	1.8570	0.2290	20	SB1857E-2	
1.573T	1.620	1 ¹⁵ / ₁₆	1.9445	0.3790	45	SB1937-52	
1.574		1.946	1.9465	0.3150	45	SB1946E-1N	
1.575T	1.660	1.857	1.8570	0.2290	45	SB1857E-1	
1.575T	1.660	1.857	1.8570	0.2500	45	SB1857E-1T	
1.575T	1.672	1 ⁷ / ₈	1.8820	0.2900	45	SB1875-54	
1.575T	1.692	1 ⁷ / ₈	1.8820	0.3170	45	SB1875-51	
40mm		51mm	2.0079	10.5mm	45	SB2008E-2	
40mm		51mm	2.0079	10.5mm	45	SB2008E-2N	
1.578T	1.720	1 ¹⁵ / ₁₆	1.9430	0.2030	30	SB1937-12	
1.580T	1.643T	1.894	1.8940	0.2410	30	SB1894E-4	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.589		2.020	2.0200	0.2825	45	SB2020E-1	
1 ¹⁹ / ₃₂		1 ⁷ / ₈	1.8800	1/4	45	SB1875-7	
1.595		1.815	1.8150	1/4	45	SB1815E-1	
1.595		1.882	1.8820	0.3190	30	SB1882E-1C	
1.595T	1.730	1.962	1.9620	0.3650	30	SB1962E-1N	
1.600		1.814	1.8140	0.3150	45	SB1814E-1	
1.600T	1.673	1 ⁷ / ₈	1.8820	0.2520	45	SB1875-56	
1.600		2.000	2.0055	9/32	45	SB2000-25	
1.608		1.858	1.8580	0.2090	30	SB1858E-1N	
1.609T	1.705	1.854	1.8545	0.2775	45	SB1854E-2	
1 ⁵ / ₈		1 ⁷ / ₈	1.8810	1/4	45	SB1875-1	
1.610T	1.680	1.854	1.8545	0.2770	45	SB1854E-1	
1 ⁵ / ₈		1 ⁷ / ₈	1.8815	1/4	45	SB1875-1N	
41mm		52mm	2.0472	10.5mm	45	SB2047E-1	
41mm		52mm	2.0472	10.5mm	45	SB2047E-1N	
1.615T	1.655	1.891	1.8910	0.3060	30	SB1891E-2	
1.615T	1.637	1.891	1.8910	0.3060	30	SB1891E-1	010,020,030
1.615T	1.637	1.901	1.9010	0.3060	30	SB1891E-1+010	
1.615T	1.637	1.911	1.9110	0.3060	30	SB1891E-1+020	
1.615T	1.637	1.921	1.9210	0.3060	30	SB1891E-1+030	
1.616T	1.672	1.991	1.9910	0.3090	45	SB1991E-1N	
1 ⁵ / ₈		1 ¹³ / ₁₆	1.8175	7/32	45	SB1812-12	
1 ⁵ / ₈		1 ¹³ / ₁₆	1.8175	1/4	45	SB1812-38	
1 ⁵ / ₈		1 ⁷ / ₈	1.8800	3/16	45	SB1875-38	
1 ⁵ / ₈		1 ⁷ / ₈	1.8800	7/32	45	SB1875-6	
1 ⁵ / ₈		1 ⁷ / ₈	1.8800	9/32	45	SB1875-4	
1 ⁵ / ₈		1 ⁷ / ₈	1.8800	5/16	45	SB1875-17	
1 ⁵ / ₈		1 ⁷ / ₈	1.8800	3/8	45	SB1875-18	
1 ⁵ / ₈		1.912	1.9120	9/32	45	SB1912E-1	010,020
1 ⁵ / ₈		1.922	1.9220	9/32	45	SB1912E-1+010	
1 ⁵ / ₈		1.932	1.9320	9/32	45	SB1912E-1+020	
1 ⁵ / ₈		1 ¹⁵ / ₁₆	1.9425	1/4	45	SB1937-2	
1 ⁵ / ₈		1 ¹⁵ / ₁₆	1.9425	5/16	45	SB1937-7	
1 ⁵ / ₈		1 ¹⁵ / ₁₆	1.9430	7/32	45	SB1937-6	
1 ⁵ / ₈		1 ¹⁵ / ₁₆	1.9430	9/32	45	SB1937-5	
1 ⁵ / ₈		1 ¹⁵ / ₁₆	1.9430	3/8	45	SB1937-8	
1.625		2.003	2.0030	0.2795	45	SB2003E-6N	005, 010
1 ⁵ / ₈		2.000	2.0055	7/32	45	SB2000-12	
1 ⁵ / ₈		2.000	2.0055	1/4	45	SB2000-13N	
1 ⁵ / ₈		2.000	2.0055	1/4	45	SB2000-13	
1 ⁵ / ₈		2.000	2.0055	9/32	45	SB2000-6	
1 ⁵ / ₈		2.000	2.0055	19/64	45	SB2000-3	
1 ⁵ / ₈		2.000	2.0055	19/64	45	SB2000-3C	
1 ⁵ / ₈		2.000	2.0055	5/16	45	SB2000-14	
1 ⁵ / ₈		2.000	2.0055	3/8	45	SB2000-0	
1 ⁵ / ₈		2.000	2.0055	7/16	45	SB2000-27	
1 ⁵ / ₈		2.000	2.0060	19/64	45	SB2000-3N	
1.625T	1.800	2.000	2.0070	0.3680	45	SB2000-50	
1.625		2.008	2.0080	0.2795	45	SB2003E-6N+005	
1.625		2.013	2.0130	0.2795	45	SB2003E-6N+010	
1 ⁵ / ₈		2 ¹ / ₁₆	2.0670	7/16	45	SB2062-9	
1 ⁵ / ₈		2 ¹ / ₁₆	2.0680	1/4	45	SB2062-11	
1 ⁵ / ₈		2 ¹ / ₁₆	2.0680	5/16	45	SB2062-21	
1 ⁵ / ₈		2 ¹ / ₁₆	2.0680	3/8	45	SB2062-15	
1 ⁵ / ₈		2 ¹ / ₈	2.1305	9/32	45	SB2125-6	
1 ⁵ / ₈		2 ¹ / ₈	2.1305	3/8	45	SB2125-26	
1 ⁵ / ₈		2 ¹ / ₈	2.1305	7/16	45	SB2125-12	
1 ⁵ / ₈		2 ¹ / ₄	2.2555	5/16	45	SB2250-21	
1 ⁵ / ₈		2 ¹ / ₄	2.2555	3/8	45	SB2250-16	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.630		2.006	2.0060	0.2800	45	SB2006E-6C	
1.640T	1.819	1.953	1.9535	0.1950	20	SB1953E-4	005, 010
1.640T	1.819	1.958	1.9585	0.1950	20	SB1953E-4+005	
1.640T	1.819	1.963	1.9635	0.1950	20	SB1953E-4+010	
1.640		1 ⁷ / ₈	1.8820	0.2800	45	SB1875-50	
1.640T	1.730	1 ¹⁵ / ₁₆	1.9445	0.2900	45	SB1937-55	
1.640T	1.828	1.953	1.9535	0.1950	20	SB1953E-3	005
1.640T	1.670	1.953	1.9535	0.2150	45	SB1953E-2C	
1.640T	1.828	1.958	1.9585	0.1950	20	SB1953E-3+005	
1.645		1.900	1.9000	0.2500	45	SB1900E-2	020
1.645		1.920	1.9200	0.2500	45	SB1900E-2+020	
1.650		1.900	1.9000	0.2200	30	SB1900E-3	
1.650		1.900	1.9000	0.3000	45	SB1900E-1	
1.652		2.136	2.1360	0.3100	37	SB2136E-3PM	
42mm		53mm	2.0866	10.5mm	45	SB2087E-2N	
42mm		53mm	2.0866	10.5mm	45	SB2087E-2	
1.658T	1.875	1.973	1.9730	0.3000	45	SB1973E-1	
1.665		1.919	1.9195	0.2500	45	SB1919E-1N	
1.685T	1.735	2.004	2.0040	0.3170	30	SB2004E-3N	005,010,020
1.685T	1.735	2.009	2.0090	0.3170	30	SB2004E-3N+005	
1.685T	1.735	2.014	2.0140	0.3170	30	SB2004E-3N+010	
1.685T	1.735	2.024	2.0240	0.3170	30	SB2004E-3N+020	
1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	1.9425	⁷ / ₃₂	45	SB1937-17	
1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	1.9425	¹ / ₄	45	SB1937-1	
1 ¹¹ / ₁₆		1 ⁷ / ₈	1.8800	⁷ / ₃₂	45	SB1875-20	
1 ¹¹ / ₁₆		1 ⁷ / ₈	1.8810	¹ / ₄	45	SB1875-35	
1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	1.9430	³ / ₁₆	45	SB1937-23	
1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	1.9430	⁹ / ₃₂	45	SB1937-15	
1 ¹¹ / ₁₆		1 ¹⁵ / ₁₆	1.9430	⁵ / ₁₆	45	SB1937-30	
1 ¹¹ / ₁₆		2.003	2.0030	0.2340	30	SB2003E-3N	See SB2006E-3N
1 ¹¹ / ₁₆		2.003	2.0030	⁹ / ₃₂	30	SB2003E-1N	See SB2006E-1N
1 ¹¹ / ₁₆		2.003	2.0030	⁹ / ₃₂	30	SB2003E-1	See SB2006E-1
1 ¹¹ / ₁₆ T	1.748	2.003	2.0035	⁷ / ₁₆	30	SB2004E-2	See SB2006E-2
1.688		2.004	2.0040	0.4380	30	SB2004E-4N	
1 ¹¹ / ₁₆		2.000	2.0055	⁷ / ₃₂	45	SB2000-15	
1 ¹¹ / ₁₆		2.000	2.0055	¹ / ₄	45	SB2000-16	
1 ¹¹ / ₁₆		2.000	2.0055	⁹ / ₃₂	45	SB2000-2	
1 ¹¹ / ₁₆		2.000	2.0055	⁵ / ₁₆	45	SB2000-29	
1 ¹¹ / ₁₆		2.000	2.0055	³ / ₈	45	SB2000-4	
1 ¹¹ / ₁₆ T	1.748	2.006	2.0055	⁷ / ₁₆	30	SB2006E-2	010,020,030
1 ¹¹ / ₁₆		2.006	2.0060	0.2340	30	SB2006E-3N	
1 ¹¹ / ₁₆ T	1.748	2.016	2.0155	⁷ / ₁₆	30	SB2006E-2+010	
1 ¹¹ / ₁₆ T	1.748	2.026	2.0255	⁷ / ₁₆	30	SB2006E-2+020	
1 ¹¹ / ₁₆ T	1.748	2.036	2.0355	⁷ / ₁₆	30	SB2006E-2+030	
1 ¹¹ / ₁₆		2 ¹ / ₁₆	2.0680	⁷ / ₃₂	45	SB2062-22	
1 ¹¹ / ₁₆		2 ¹ / ₁₆	2.0680	¹ / ₄	45	SB2062-4	
1 ¹¹ / ₁₆		2 ¹ / ₁₆	2.0680	⁹ / ₃₂	45	SB2062-8	
1 ¹¹ / ₁₆		2 ¹ / ₁₆	2.0680	⁵ / ₁₆	45	SB2062-5	
1 ¹¹ / ₁₆		2 ¹ / ₁₆	2.0680	³ / ₈	45	SB2062-23	
1 ¹¹ / ₁₆		2 ¹ / ₁₆	2.0680	⁷ / ₁₆	45	SB2062-24	
1 ¹¹ / ₁₆		2 ¹ / ₈	2.1305	¹ / ₄	45	SB2125-16	
1 ¹¹ / ₁₆		2 ¹ / ₈	2.1305	⁵ / ₁₆	30	SB2125-15	
1 ¹¹ / ₁₆		2 ³ / ₁₆	2.1930	⁷ / ₁₆	45	SB2187-31	
1.690		2.006	2.0060	0.2140	30	SB2006E-5	010,020,030
1.690		2.006	2.0060	0.2150	30	SB2006E-7C	
1 ¹¹ / ₁₆		2.006	2.0060	⁹ / ₃₂	30	SB2006E-1	005,010,020,030
1 ¹¹ / ₁₆		2.006	2.0060	⁹ / ₃₂	30	SB2006E-1N	005,010,020,030
1.690T	1.765	2.000	2.0070	0.2700	45	SB2000-51	
1 ¹¹ / ₁₆		2.011	2.0110	⁹ / ₃₂	30	SB2006E-1N+005	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1 ¹¹ / ₁₆		2.011	2.0110	9/32	30	SB2006E-1+005	
1.690		2.016	2.0160	0.2140	30	SB2006E-5+010	
1 ¹¹ / ₁₆		2.016	2.0160	9/32	30	SB2006E-1N+010	
1 ¹¹ / ₁₆		2.016	2.0160	9/32	30	SB2006E-1+010	
1.690		2.026	2.0260	0.2140	30	SB2006E-5+020	
1 ¹¹ / ₁₆		2.026	2.0260	9/32	30	SB2006E-1+020	
1 ¹¹ / ₁₆		2.026	2.0260	9/32	30	SB2006E-1N+020	
1.690		2.036	2.0360	0.2140	30	SB2006E-5+030	
1 ¹¹ / ₁₆		2.036	2.0360	9/32	30	SB2006E-1+030	
1 ¹¹ / ₁₆		2.036	2.0360	9/32	30	SB2006E-1N+030	
1.692		2.088	2.0880	0.2990	30	SB2088E-1	015,030
1.692		2.103	2.1030	0.2990	30	SB2088E-1+015	
1.692		2.118	2.1180	0.2990	30	SB2088E-1+030	
43mm		54mm	2.1260	10.5mm	45	SB2126E-1	
43mm		54mm	2.1260	10.5mm	45	SB2126E-1N	
1.704		1.969	1.9690	0.2340	30	SB1969E-3	
1.705		2.136	2.1360	0.2950	30	SB2136E-2PM	
1.705T	1.785	2.136	2.1360	0.3190	45	SB2136E-1N	020
1.705T	1.785	2.156	2.1560	0.3190	45	SB2136E-1N+020	
1.712T	1.870	2.001	2.0010	0.3560	30	SB2001E-2	
1.712T	1.870	2.001	2.0010	0.3860	30	SB2001E-1	010,013
1.712T	1.870	2.011	2.0110	0.3850	30	SB2001E-1+010	
1.712T	1.870	2.014	2.0145	0.3850	30	SB2001E-1+013	
1.712T	1.767	1.999	1.9995	0.3860	30	SB1999E-1	
1.726	1.656	1.969	1.9690	0.2480	30	SB1969E-4N	
44mm		55mm	2.1654	11mm	45	SB2165E-1	
44mm		55mm	2.1654	11mm	45	SB2165E-1N	
1.744T	1.792	2.051	2.0510	0.2410	30	SB2051E-5	
1.744T	1.957	2.051	2.0510	0.2410	30	SB2051E-4	
1 ³ / ₄		2 ¹ / ₁₆	2.0695	0.2800	45	SB2062-52	
1.750T	1.810	2 ¹ / ₁₆	2.0695	0.3900	45	SB2062-51N	
1.750		2 ¹ / ₁₆	2.0695	0.4200	45	SB2062-50	
1.750		2 ¹ / ₁₆	2.0695	0.4200	45	SB2062-50N	
1 ³ / ₄		1 ¹⁵ / ₁₆	1.9430	7/32	45	SB1937-19	
1 ³ / ₄		2.000	2.0055	3/16	45	SB2000-36	
1 ³ / ₄		2.000	2.0055	7/32	45	SB2000-1N	
1 ³ / ₄		2.000	2.0055	7/32	45	SB2000-1	
1 ³ / ₄		2.000	2.0055	1/4	45	SB2000-17	
1 ³ / ₄		2.000	2.0055	9/32	45	SB2000-20	
1 ³ / ₄		2.000	2.0055	5/16	45	SB2000-18	
1 ³ / ₄		2 ¹ / ₁₆	2.0680	7/32	45	SB2062-25	
1 ³ / ₄		2 ¹ / ₁₆	2.0680	9/32	45	SB2062-2	
1 ³ / ₄		2 ¹ / ₁₆	2.0680	5/16	45	SB2062-27	
1 ³ / ₄		2 ¹ / ₁₆	2.0680	11/32	45	SB2062-28	
1.750T	1.810	2 ¹ / ₁₆	2.0695	0.3900	45	SB2062-51	
1 ³ / ₄		2 ¹ / ₈	2.1305	7/32	45	SB2125-11	
1 ³ / ₄		2 ¹ / ₈	2.1305	1/4	45	SB2125-7	
1 ³ / ₄		2 ¹ / ₈	2.1305	9/32	45	SB2125-10	
1 ³ / ₄		2 ¹ / ₈	2.1305	5/16	45	SB2125-8	
1 ³ / ₄		2 ¹ / ₈	2.1305	3/8	45	SB2125-0	
1 ³ / ₄		2 ¹ / ₈	2.1305	7/16	45	SB2125-30	
1 ³ / ₄		2 ³ / ₁₆	2.1930	7/32	45	SB2187-15	
1 ³ / ₄		2 ³ / ₁₆	2.1930	9/32	45	SB2187-3	
1 ³ / ₄		2 ³ / ₁₆	2.1930	3/8	45	SB2187-8	
1 ³ / ₄		2 ³ / ₁₆	2.1930	7/16	45	SB2187-7	
1 ³ / ₄		2 ¹ / ₄	2.2555	7/32	45	SB2250-5	
1 ³ / ₄		2 ¹ / ₄	2.2555	3/8	45	SB2250-7	
1 ³ / ₄		2 ¹ / ₄	2.2555	7/16	45	SB2250-17	
1 ³ / ₄		2 ⁵ / ₁₆	2.3180	1/4	30	SB2312-6	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1.752T	1.806	2.126	2.1265	0.3230	20	SB2126E-2	
1.752T	1.868	2.129	2.1290	0.3060	30	SB2129E-2	
1.770T	1.801	2.013	2.0130	0.2885	45	SB2013E-1	
45mm		56mm	2.2047	11mm	45	SB2205E-2	
1 ²⁵ / ₃₂ T	1.871	2.049	2.0485	1 ¹ / ₃₂	30	SB2049E-1	005,010,020
1 ²⁵ / ₃₂ T	1.871	2.054	2.0535	1 ¹ / ₃₂	30	SB2049E-1+005	
1 ²⁵ / ₃₂ T	1.871	2.059	2.0585	1 ¹ / ₃₂	30	SB2049E-1+010	
1 ²⁵ / ₃₂ T	1.871	2.069	2.0685	1 ¹ / ₃₂	30	SB2049E-1+020	
1.782		2.100	2.1000	0.2670	30	SB2100E-1	
1 ¹³ / ₁₆ T	1.863	2.129	2.1290	7 ¹ / ₁₆	30	SB2129E-1	See SB2131E-1
46mm		57mm	2.2441	11mm	45	SB2244E-1	
1 ¹³ / ₁₆		2.000	2.0055	7 ¹ / ₃₂	45	SB2000-7	
1 ¹³ / ₁₆		2 ¹ / ₈	2.1305	3 ¹ / ₁₆	45	SB2125-38	
1 ¹³ / ₁₆		2 ¹ / ₈	2.1305	1 ¹ / ₄	45	SB2125-1	
1 ¹³ / ₁₆		2.000	2.0055	1 ¹ / ₄	45	SB2000-38	
1 ¹³ / ₁₆		2 ¹ / ₁₆	2.0680	3 ¹ / ₁₆	45	SB2062-30	
1 ¹³ / ₁₆		2 ¹ / ₁₆	2.0680	7 ¹ / ₃₂	45	SB2062-29	
1 ¹³ / ₁₆ T	1 ⁷ / ₈	2 ¹ / ₁₆	2.0680	1 ¹ / ₄	45	SB2062-1	
1 ¹³ / ₁₆		2 ¹ / ₁₆	2.0680	1 ¹ / ₄	45	SB2062-3	
1 ¹³ / ₁₆		2 ¹ / ₁₆	2.0680	5 ¹ / ₁₆	45	SB2062-31	
1 ¹³ / ₁₆		2 ¹ / ₈	2.1305	7 ¹ / ₃₂	45	SB2125-31	
1 ¹³ / ₁₆		2 ¹ / ₈	2.1305	5 ¹ / ₁₆	45	SB2125-32	
1 ¹³ / ₁₆		2 ¹ / ₈	2.1305	3 ¹ / ₈	45	SB2125-33	
1 ¹³ / ₁₆ T	1.863	2.131	2.1310	7 ¹ / ₁₆	30	SB2131E-1	010,020,030
1 ¹³ / ₁₆ T	1.863	2.141	2.1410	7 ¹ / ₁₆	30	SB2131E-1+010	
1 ¹³ / ₁₆ T	1.863	2.151	2.1510	7 ¹ / ₁₆	30	SB2131E-1+020	
1 ¹³ / ₁₆ T	1.863	2.161	2.1610	7 ¹ / ₁₆	30	SB2131E-1+030	
1 ¹³ / ₁₆		2 ³ / ₁₆	2.1930	1 ¹ / ₄	45	SB2187-1C	
1 ¹³ / ₁₆		2 ³ / ₁₆	2.1930	1 ¹ / ₄	45	SB2187-1	
1 ¹³ / ₁₆		2 ³ / ₁₆	2.1930	9 ¹ / ₃₂	45	SB2187-2	
1 ¹³ / ₁₆		2 ³ / ₁₆	2.1930	3 ¹ / ₈	45	SB2187-9	
1 ¹³ / ₁₆		2 ¹ / ₄	2.2555	1 ¹ / ₄	45	SB2250-8	
1 ¹³ / ₁₆		2 ¹ / ₄	2.2555	7 ¹ / ₁₆	45	SB2250-18	
1 ¹³ / ₁₆		2 ⁵ / ₁₆	2.3180	3 ¹ / ₈	45	SB2312-11	
1 ¹³ / ₁₆		2 ⁵ / ₁₆	2.3180	7 ¹ / ₁₆	45	SB2312-8	
1.820T	2.024	2 ³ / ₁₆	2.1945	0.3410	45	SB2187-50	
1.843		2.220	2.2200	0.3120	45	SB2220E-1	
47mm		58mm	2.2835	11mm	45	SB2284E-2	
1-55/64		2.150	2.1500	0.2920	30	SB2150E-1	010,020
1-55/64		2.160	2.1600	0.2920	30	SB2150E-1+010	
1-55/64		2.170	2.1700	0.2920	30	SB2150E-1+020	
1 ⁷ / ₈		2 ¹ / ₈	2.1305	7 ¹ / ₃₂	45	SB2125-34	
1 ⁷ / ₈		2 ¹ / ₈	2.1305	1 ¹ / ₄	45	SB2125-2	
1 ⁷ / ₈		2 ³ / ₁₆	2.1930	3 ¹ / ₁₆	45	SB2187-11	
1 ⁷ / ₈		2 ³ / ₁₆	2.1930	1 ¹ / ₄	45	SB2187-12	
1 ⁷ / ₈		2 ³ / ₁₆	2.1930	9 ¹ / ₃₂	45	SB2187-4	
1 ⁷ / ₈		2 ¹ / ₄	2.2555	1 ¹ / ₄	45	SB2250-9	
1 ⁷ / ₈		2 ¹ / ₄	2.2555	9 ¹ / ₃₂	45	SB2250-2	
1 ⁷ / ₈		2 ¹ / ₄	2.2555	5 ¹ / ₁₆	45	SB2250-20	
1 ⁷ / ₈		2 ¹ / ₄	2.2555	3 ¹ / ₈	45	SB2250-13	
1 ⁷ / ₈		2 ¹ / ₄	2.2570	3 ¹ / ₈	45	SB2250-50	
1 ⁷ / ₈		2 ³ / ₁₆	2.3180	9 ¹ / ₃₂	45	SB2312-1	
1 ⁷ / ₈		2 ³ / ₈	2.3805	7 ¹ / ₁₆	45	SB2375-15	
48mm		59mm	2.3228	11mm	45	SB2323E-2	
1.890		2.368	2.3680	0.4600	20	SB2368E-2N	See SB2388E-1N
1.890		2.387	2.3875	0.3610	20	SB2387E-2	
1.890T	1.935	2.368	2.3680	0.4600	20	SB2368E-3N	See SB2388E-2N
1.890T	1.935	2.388	2.3880	0.4600	20	SB2388E-2N	
1.890	1.932	2.388	2.3880	0.4600	20	SB2388E-1N	

Valve Seat Inserts

Progressive Size Listing By Inside Diameter

Nominal I.D.	Taper	Nominal O.D.	Exact O.D.	Nominal Depth	Seat Angle	SBI Part #	Oversizes Available
1 ²⁹ / ₃₂		2 ¹ / ₈	2.1310	1/4	45	SB2125-4	
49mm		61mm	2.4016	11.5mm	45	SB2402E-1N	
49mm		61mm	2.4016	11.5mm	45	SB2402E-1	
1.930		2.381	2.3810	0.3225	30	SB2381E-1C	
1.930		2.381	2.3810	0.3225	30	SB2381E-1	010
1.930		2.391	2.3910	0.3225	30	SB2381E-1+010	
1 ¹⁵ / ₁₆		2 ¹ / ₄	2.2555	3/16	45	SB2250-1	
1 ¹⁵ / ₁₆		2 ¹ / ₈	2.1305	3/16	45	SB2125-3	
1 ¹⁵ / ₁₆		2 ¹ / ₈	2.1305	7/32	45	SB2125-39	
1 ¹⁵ / ₁₆		2 ³ / ₁₆	2.1930	1/4	45	SB2187-27	
1 ¹⁵ / ₁₆		2 ¹ / ₄	2.2555	7/32	45	SB2250-35	
1 ¹⁵ / ₁₆		2 ¹ / ₄	2.2555	1/4	45	SB2250-15	
1 ¹⁵ / ₁₆		2 ¹ / ₄	2.2555	9/32	45	SB2250-12	
1 ¹⁵ / ₁₆		2 ⁵ / ₁₆	2.3180	1/4	45	SB2312-16	
1 ¹⁵ / ₁₆		2 ⁵ / ₁₆	2.3180	9/32	45	SB2312-2	
1.960		2.212	2.2125	0.2500	45	SB2212E-1N	
50mm		62mm	2.4409	11.5mm	45	SB2441E-1	
50mm		62mm	2.4409	11.5mm	45	SB2441E-1N	
1.970	2.047	2.387	2.3870	0.3820	30	SB2387E-1	
1.977		2.366	2.3665	0.3920	45	SB2366E-2N	
2.000		2 ¹ / ₄	2.2555	7/32	45	SB2250-36	
2.000		2 ¹ / ₄	2.2555	1/4	45	SB2250-37	
2.000		2 ¹ / ₄	2.2555	9/32	45	SB2250-10	
2.000		2 ⁵ / ₁₆	2.3180	1/4	45	SB2312-9	
2.000		2 ⁵ / ₁₆	2.3180	9/32	45	SB2312-4	
2.000		2 ³ / ₈	2.3805	9/32	45	SB2375-2N	
2.000		2 ³ / ₈	2.3805	9/32	45	SB2375-2	
2.000		2.503	2.5030	1/2	45	SB2503E-1	See SB2506E-1
2.000		2.506	2.5060	1/2	45	SB2506E-1	020,030
2.000		2.526	2.5260	1/2	45	SB2506E-1+020	
51mm		63mm	2.4803	11.5mm	45	SB2480E-1	
2.030		2.381	2.3810	0.3225	30	SB2381E-2C	
2.030		2.381	2.3810	0.3225	30	SB2381E-2	010
2.030		2.391	2.3910	0.3225	30	SB2381E-2+010	
2.045		2.367	2.3670	0.3820	30	SB2367E-1	
2.046		2.444	2.4440	0.2990	30	SB2444E-1	015,030,062
2.046		2.459	2.4590	0.2990	30	SB2444E-1+015	
2.046		2.474	2.4740	0.2990	30	SB2444E-1+030	
2.046		2.506	2.5060	0.2990	30	SB2444E-1+062	
52mm		64mm	2.5197	11.5mm	45	SB2520E-1	
2 ¹ / ₁₆ T	2.160	2.503	2.5030	1/2	45	SB2503E-2	See SB2506E-2
2 ¹ / ₁₆ T	2.160	2.506	2.5060	1/2	45	SB2506E-2	020
2 ¹ / ₁₆ T	2.160	2.526	2.5260	1/2	45	SB2506E-2+020	
2 ¹ / ₈ T	2.207	2.435	2.4350	5/8	30	SB2435E-1	010,020
2 ¹ / ₈		2.435	2.4350	0.6250	30	SB2435E-2N	
2 ¹ / ₈ T	2.207	2.445	2.4450	5/8	30	SB2435E-1+010	
2 ¹ / ₈ T	2.207	2.455	2.4550	5/8	30	SB2435E-1+020	
55mm		68mm	2.6772	12mm	45	SB2677E-1	
2 ³ / ₁₆		2 ³ / ₁₆	2.5685	1/4	30	SB2562-1	
2 ³ / ₃₂ T	2.360	2.590	2.5900	5/8	30	SB2590E-1	010,020
2 ³ / ₃₂ T	2.360	2.600	2.6000	5/8	30	SB2590E-1+010	
2 ³ / ₃₂ T	2.360	2.610	2.6100	5/8	30	SB2590E-1+020	

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
00100	1.537	5.730	0.3110	N/A	45	MR	N	N
00121	1.468	5.810	0.3715	0.1882	45	1G	N	N
00122	1.531	5.810	0.3727	0.1880	45	1G	N	N
00154	1.313	4.906	0.3412	0.4220	45	1G	N	N
00155	1.438	4.906	0.3412	0.3591	45	1G	N	N
00159	1.594	6.700	0.4340	0.4840	45	2G	N	N
00160	1.718	6.670	0.4340	0.4840	45	2G	N	N
00161	1.219	4.844	0.3410	0.2030	45	1G	N	N
00162	1.342	4.832	0.3410	0.2062	45	1G	N	N
00168	1.500	5.156	0.3715	0.4220	45	1G	N	N
00169	1.688	5.161	0.3715	0.4220	45	1G	N	N
00170	1.203	5.179	0.3381	0.4530	45	DR	N	N
00185	1.407	4.840	0.3405	0.2500	45	2G	N	N
00193	1.500	5.363	0.3410	0.2430	45	2G	N	N
00196	1.328	5.197	0.3387	0.4530	44	DR	N	N
00203	1.656	5.844	0.3715	0.2500	45	2G	N	N
00204	1.812	5.848	0.3715	0.2500	45	2G	N	N
00205	1.375	5.359	0.3410	0.2430	45	2G	N	N
00210	1.328	5.198	0.3387	0.4150	44	1G	N	N
00212	1.510	4.819	0.3410	0.2565	45	1G	N	N
00214	1.510	4.818	0.3415	0.2600	45	1G	N	N
00220	1.281	4.807	0.3410	0.2565	45	1G	N	N
00230	1.094	3.395	0.3100	0.2331	45	1G	N	N
00234	1.015	3.938	0.3128	0.2350	45	DR	N	N
00249	1.313	4.771	0.3085	0.2449	45	1G	N	N
00257	1.501	4.844	0.3400	0.2508	45	2G	N	N
00268	1.203	4.993	0.3387	0.2500	45	1G	N	N
00269	1.328	4.957	0.3411	0.2500	30	1G	N	N
00270	1.283	4.700	0.3410	0.4025	45	TA	N	N
00298	1.718	4.845	0.3410	0.2510	45	2G	N	N
00302	2.000	4.791	0.3733	0.1870	45	1G	N	N
00303	1.468	5.913	0.3715	0.1858	45	1G	N	N
00308	1.875	6.391	0.3415	0.7563	30	2G	N	N
00310	1.281	4.505	0.3095	0.2970	45	1G	N	N
00311	1.511	4.498	0.3095	0.2965	45	1G	N	N
00312	1.156	4.942	0.3410	0.2059	45	1G	N	N
00313	1.342	4.941	0.3410	0.2059	45	2G	N	N
00318	2.028	7.788	0.4365	N/A	44	TA	N	N
00319	1.840	7.781	0.4365	N/A	44	TA	N	N
00326S	1.745	7.058	0.4025	0.4010	30	2G	N	N
00327	1.584	6.443	0.3421	0.3583	30	1G	N	N
00343	1.278	3.977	0.3146	0.2660	30	DR	N	N
00348	1.510	4.978	0.3410	N/A	45	TA	N	N
00349	1.531	4.845	0.3405	0.2500	45	2G	N	N
00373	1.780	5.110	0.3421	0.2000	45	1G	N	N
00375	1.510	5.089	0.3418	0.2000	45	1G	N	N
00376	1.647	5.090	0.3420	0.2000	45	1G	N	N
00399	1.720	4.917	0.3413	0.2591	45	2G	N	N
00399+15	1.720	4.917	0.3563	0.2591	45	2G	N	N
00400	1.500	4.928	0.3412T	0.2890	45	2G	N	N
00400+15	1.500	4.928	0.3562T	0.2890	45	2G	N	N
00400+3	1.500	4.928	0.3445T	0.2890	45	2G	N	N
00411	1.584	6.444	0.3420	0.3585	30	1G	N	N
00427S	1.656	6.083	0.3715	0.2488	45	2G	N	N
00428	1.812	6.083	0.3715	0.2485	45	2G	N	N
00485	0.906	3.390	0.3100	0.2330	45	1G	N	N
00486	1.140	4.084	0.3128	0.2950	44	1G	N	N
00489	1.015	4.077	0.3128	0.2000	44	1G	N	N
00494	1.925	5.110	0.3421	0.2000	44	1G	N	N
00503	1.312	5.281	0.3410	0.2060	44	2G	N	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
00504	1.500	5.280	0.3410	0.2060	44	2G	N	N
00514	1.844	4.599	0.3725	0.2130	45	2G	N	N
00518	1.563	4.539	0.3715	0.0989	45	4G	N	N
00520	1.600	4.889	0.3725T	0.2235	45	4G	N	N
00530SN	1.634	5.700	0.4339	0.2700	44.5	1G	Y	N
00531S	2.020	5.742	0.4353	0.2716	44	1G	Y	N
00548	2.080	4.869	0.3725	0.3365	45	2G	N	N
00549	1.406	4.892	0.3720T	0.0874	44	4G	N	N
00550	1.787	4.899	0.3720	0.0898	29	4G	N	N
00554	2.227	8.820	0.4960	0.4380	45	2G	N	N
00555	2.645	8.820	0.4970	0.4380	30	2G	N	N
00559S	1.609	5.473	0.3720	0.5181	45	2G	N	N
00560	1.969	5.223	0.3725	0.2840	45	2G	N	N
00564	1.268	4.260	0.3100	0.1900	45	1G	N	N
00567	1.620	4.774	0.3725	0.3365	45	2G	N	N
00567+15	1.620	4.774	0.3875	0.3365	45	2G	N	N
00574S	2.282	9.264	0.4955	N/A	45	TA	N	N
00585	2.027	5.446	0.3716	0.3209	30	1G	N	N
00592	1.300	6.063	0.3720	0.2772	45	1G	N	N
00593	1.652	6.063	0.3720	0.2772	45	1G	N	N
00598S	1.250	4.771	0.3085T	0.2450	45	1G	N	N
00600	1.656	5.086	0.3720	0.2772	30	2G	N	N
00601	1.781	5.072	0.3720	0.2772	30	2G	N	N
00602	1.870	7.063	0.4505	0.4010	30	2G	N	N
00602S	1.870	7.063	0.4505	0.4010	30	2G	Y	N
00603	1.870	7.063	0.4505	0.4010	30	2G	N	N
00608	1.510	5.825	0.3410	N/A	44	TA	N	N
00609	1.647	5.931	0.3418	0.2465	44	1G	N	N
00626	1.688	5.157	0.3726	0.4220	30	1G	N	N
00627	1.527	4.260	0.3105	0.1902	44	1G	N	N
00637	2.027	5.446	0.3716	0.3209	45	1G	N	N
00637+15	2.027	5.446	0.3866	0.3209	45	1G	N	N
00658	1.500	5.731	0.3720	0.3280	44	2G	N	N
00659	1.688	5.700	0.3720	0.3280	44	2G	N	N
00678	1.731	7.245	0.4025	0.2500	45	1G	N	N
00682	1.415	5.288	0.3411	0.4240	30	2G	N	N
00683	1.270	5.325	0.3387	0.4720	45	1G	N	N
00690	1.403	6.352	0.3404	0.3130	45	2G	Y	N
00691	1.604	6.352	0.3414	0.3130	45	2G	Y	N
00696	1.940	4.880	0.3414	0.2591	45	2G	N	N
00702	1.870	6.605	0.4505	0.3976	30	2G	N	N
00703	1.870	6.605	0.4505	0.3970	30	2G	N	N
00734	2.557	8.125	0.4970	0.2810	30	2G	N	N
00742	1.450	4.863	0.3420	0.2398	45	1G	N	N
00746S	1.360	4.797	0.3715	0.3543	43	2G	N	N
00751S	2.350	9.390	0.4955	N/A	29	TA	N	N
00752S	2.505	9.388	0.4955	N/A	29	TA	N	N
00753S	1.771	6.563	0.3717	0.2827	29	2G	N	N
00754	1.771	6.563	0.3720	0.2830	30	2G	N	N
00755	1.895	6.563	0.3717	0.2730	29	2G	N	N
00758	1.400	6.408	0.3103	0.3583	30	1G	N	N
00759	1.090	5.552	0.2484	0.3100	30	1G	N	N
00793	1.395	4.984	0.3715	0.3120	45	2G	N	N
00810	1.516	5.157	0.3410	0.4528	30	DR	N	N
00819S	2.005	8.128	0.4960	0.2810	45	2G	N	N
00852S	2.343	9.295	0.4955	N/A	45	TA	N	N
00867	1.641	5.532	0.3406	0.3370	30	2G	N	N
00873	1.315	4.499	0.3115	0.1800	45	1G	N	N
00874	1.534	4.500	0.3115	0.1803	45	1G	N	N
00882A	1.440	4.848	0.3725	0.2028	45	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
00883	1.744	4.829	0.3730	0.1930	45	1G	N	N
00912	1.454	4.984	0.3725	0.3122	44	2G	N	N
00917SN	1.506	5.370	0.4343	0.3228	44	2G	Y	N
00917SN+15	1.506	5.370	0.4493	0.3228	44	2G	Y	N
00918	1.753	5.393	0.3715	0.4732	45	1G	Y	N
00919	1.600	4.904	0.3415	0.2890	45	2G	Y	N
00921	1.375	6.060	0.3720	0.2771	45	1G	N	N
00922	1.679	6.035	0.3720	0.2772	45	1G	N	N
00923	1.625	6.238	0.4350	0.2984	45	2G	N	N
00924	1.940	6.150	0.4350	0.2984	45	2G	N	N
00938	1.780	4.979	0.3725	0.3362	45	2G	N	N
00938+15	1.780	4.979	0.3875	0.3362	45	2G	N	N
00947	1.781	4.863	0.3420	0.2398	45	1G	N	N
00949	1.753	5.393	0.3715	0.3030	44	1G	N	N
00958	1.920	4.898	0.3411	0.2200	29	2G	N	N
00963	1.781	4.810	0.3420	0.2402	45	1G	N	N
00969	1.875	4.740	0.3427	0.2280	44	1G	N	N
00970	1.562	4.728	0.3422	0.2280	44	1G	N	Y
00974	1.624	4.695	0.3422	0.2579	44	1G	Y	N
00975	1.625	4.643	0.3410	0.1195	45	1G	N	N
00976	1.375	4.643	0.3407T	0.1195	45	1G	N	N
00982S	2.000	7.863	0.4965	0.7035	44	1G	Y	N
00983	2.375	7.863	0.4965	0.7035	29	1G	N	N
00988	2.020	4.880	0.3415	0.2591	45	2G	Y	N
00989	1.375	4.942	0.3412	0.3590	45	1G	N	N
00996S	1.660	5.367	0.3718	0.2201	45	1G	Y	N
00996S+15	1.660	5.367	0.3868	0.2201	45	1G	Y	N
00997	1.840	5.235	0.3720	0.2201	45	1G	Y	N
01000	1.451	4.873	0.3415	0.3602	45	1G	N	N
01000+15	1.451	4.873	0.3565	0.3602	45	1G	N	N
01001	1.780	4.873	0.3420	0.3602	44.5	1G	N	N
01001+15	1.780	4.873	0.3570	0.3602	44.5	1G	N	N
01002	2.072	4.688	0.3427	0.2585	30	1G	N	N
01017S	1.500	5.690	0.4335	0.3630	45	2G	Y	N
01018	1.090	5.552	0.2484	0.3100	30	1G	N	N
01036S	2.245	6.859	0.4970	0.2661	30	1G	Y	N
01037	1.890	6.864	0.4960	0.2657	30	1G	Y	N
01041	1.250	4.438	0.3095	0.3000	45	1G	N	N
01042	1.480	5.356	0.3095	0.3663	30	1G	N	N
01047	1.625	4.917	0.3720T	0.1850	44	1G	N	Y
01048	2.025	4.899	0.3720	0.1850	29	1G	N	N
01055	1.375	5.524	0.3386	0.3370	44	1G	N	N
01057S	1.753	5.393	0.3714	0.4730	44	1G	Y	N
01057S+15	1.753	5.393	0.3864	0.4730	44	1G	Y	N
01072	1.640	4.877	0.3410	0.2201	44	2G	Y	Y
01073	1.438	4.952	0.3425	0.3430	45	1G	N	N
01075S	1.516	5.053	0.3715	0.2770	30	1G	N	N
01082	1.875	5.009	0.3725	0.1195	45	1G	Y	N
01083	1.625	5.246	0.3418	0.2100	44	1G	Y	Y
01084	2.000	5.233	0.3420	0.2098	44	1G	N	N
01087	1.940	5.230	0.3720	0.2201	45	1G	Y	N
01087+15	1.940	5.230	0.3870	0.2201	45	1G	Y	N
01093	1.660	4.984	0.3410	0.2200	44	2G	Y	N
01097	1.770	5.093	0.3410	0.2201	44	2G	Y	N
01098	2.110	5.098	0.3415	0.2200	29	2G	Y	N
01102	1.654	5.080	0.3420	0.4000	44	1G	Y	Y
01103	2.083	5.288	0.3420	0.3402	45	1G	Y	N
01105	2.000	5.138	0.3725	0.1195	45	1G	Y	N
01106	1.720	5.355	0.3715	0.2201	45	1G	Y	N
01106+15	1.720	5.355	0.3865	0.2201	45	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01107	2.065	5.230	0.3720	0.2201	45	1G	Y	N
01107+15	2.065	5.230	0.3870	0.2201	45	1G	Y	N
01120	1.780	4.810	0.3420	0.2402	45	1G	Y	N
01120+15	1.780	4.810	0.3570	0.2402	45	1G	Y	N
01131	1.875	5.355	0.3718	0.2201	45	1G	Y	Y
01133S	1.734	5.479	0.4145	0.5181	45	2G	Y	Y
01135	1.451	5.070	0.3414	0.4811	45	1G	Y	N
01135+15	1.451	5.070	0.3564	0.4811	45	1G	Y	N
01135+3	1.451	5.070	0.3444	0.4811	45	1G	Y	N
01135S	1.451	5.070	0.3414	0.4811	45	1G	Y	N
01137	1.781	5.050	0.3420	0.4610	45	1G	Y	N
01137+15	1.781	5.050	0.3570	0.4610	45	1G	Y	N
01145S	1.646	5.997	0.3717	0.3160	44	2G	N	N
01146S	1.771	5.997	0.3717	0.3160	44	2G	N	N
01147	1.203	5.190	0.3381	0.2882	45	1G	N	N
01148	1.516	5.167	0.3409	0.2882	30	1G	N	N
01152	2.078	5.250	0.3725	0.3200	30	2G	N	N
01156	1.740	4.885	0.3722T	0.2235	45	4G	Y	Y
01156+15	1.740	4.885	0.3872T	0.2235	45	4G	Y	Y
01160	1.770	4.975	0.3410	0.2200	44	2G	Y	N
01161	2.110	4.979	0.3415	0.2200	29	2G	Y	N
01164	2.190	5.225	0.3720	0.2201	45	1G	Y	N
01169	1.655	5.050	0.3415	0.1961	45	4G	N	N
01169+15	1.655	5.050	0.3565	0.1961	45	4G	N	N
01170	2.041	5.231	0.3419	0.2118	45	4G	N	N
01170+15	2.041	5.231	0.3569	0.2118	45	4G	N	N
01171	1.709	5.050	0.3415	0.1960	44	4G	Y	N
01172	2.190	5.231	0.3420	0.2120	44	4G	Y	N
01177S	1.560	4.810	0.3419	0.2449	44	1G	Y	Y
01177S+15	1.560	4.810	0.3569	0.2449	44	1G	Y	Y
01179	1.680	4.910	0.3720T	0.1850	44	1G	N	Y
01180	1.880	4.981	0.3725	0.3362	45	2G	N	N
01180+15	1.880	4.981	0.3875	0.3362	45	2G	N	N
01186	1.811	4.979	0.3725	0.3362	45	2G	N	N
01188	1.500	5.027	0.3725	0.1197	45	1G	Y	N
01189	1.625	5.158	0.3725	0.1195	45	1G	Y	N
01192	1.500	4.928	0.3412T	0.2890	45	2G	Y	N
01192+15	1.500	4.928	0.3562T	0.2890	45	2G	Y	N
01192+3	1.500	4.928	0.3445T	0.2890	45	2G	Y	N
01193	1.720	4.917	0.3413	0.2591	45	2G	Y	N
01193+15	1.720	4.917	0.3563	0.2591	45	2G	Y	N
01193+3	1.720	4.917	0.3443	0.2591	45	2G	Y	N
01194	1.720	4.917	0.3420	0.2591	45	2G	Y	N
01195	1.940	4.880	0.3414	0.2591	45	2G	Y	N
01195+15	1.940	4.880	0.3564	0.2591	45	2G	Y	N
01195+3	1.940	4.880	0.3444	0.2591	45	2G	Y	N
01199	1.417	4.353	0.3153	0.2461	44	3G	Y	N
01200	1.654	4.376	0.3163	0.2461	44	3G	Y	N
01203	1.896	5.469	0.3717	0.2770	29	2G	N	N
01204	2.020	5.510	0.3717	0.3080	29	2G	N	N
01205S	1.896	5.469	0.3717	0.2772	29	2G	N	N
01206S	1.500	4.923	0.3412T	0.2890	45	2G	Y	N
01206S+15	1.500	4.923	0.3563T	0.2890	45	2G	Y	Y
01210	1.684	4.675	0.3423	0.2580	30	1G	N	Y
01212	1.622	4.708	0.3423	0.2280	30	1G	N	N
01215	1.770	4.875	0.3410	0.2200	44	2G	Y	N
01216	2.110	4.880	0.3415	0.2200	29	2G	Y	N
01217S	1.508	5.373	0.3704	0.3030	44	1G	Y	N
01233	1.575	5.157	0.3720	0.3386	44	1G	Y	N
01234	1.772	5.157	0.3720	0.3385	44	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01235S	1.660	5.367	0.3716	0.2200	45	1G	Y	N
01237	1.541	5.070	0.3415	0.3930	45	1G	Y	N
01237+15	1.541	5.070	0.3565	0.3930	45	1G	Y	N
01238	1.842	5.070	0.3420	0.3929	45	1G	Y	N
01238+15	1.842	5.070	0.3570	0.3929	45	1G	Y	N
01241SN	1.660	5.350	0.3716	0.2205	46	1G	Y	N
01242	1.559	5.436	0.3715	0.3209	45	1G	Y	N
01242+15	1.559	5.436	0.3865	0.3209	45	1G	Y	N
01245	1.660	4.959	0.3410	0.2200	44	2G	Y	Y
01247	1.660	4.870	0.3410	0.2197	44	2G	Y	Y
01257	1.680	4.930	0.3720T	0.2551	44	1G	N	Y
01258	2.025	4.899	0.3720	0.1825	29	4G	N	N
01258+15	2.025	4.899	0.3870	0.1825	29	4G	N	N
01260	1.787	4.899	0.3720	0.1825	29	4G	N	N
01261S	1.720	5.355	0.3716	0.2201	45	1G	Y	Y
01261S+15	1.720	5.355	0.3866	0.2201	45	1G	Y	Y
01263	1.875	4.667	0.3428	0.2579	44	1G	N	N
01265	1.360	4.796	0.3715	0.2235	43	4G	Y	N
01266	1.390	4.260	0.3101	0.1902	45	1G	Y	N
01266+15	1.390	4.260	0.3251	0.1902	45	1G	Y	N
01268	1.651	4.260	0.3103	0.1902	44	1G	Y	N
01271	1.654	4.983	0.3419	0.4000	45	1G	Y	N
01271+15	1.654	4.983	0.3569	0.4000	45	1G	Y	N
01272	2.083	5.198	0.3419	0.3398	45	1G	Y	N
01272+15	2.083	5.198	0.3569	0.3398	45	1G	Y	N
01273	1.880	4.981	0.3720	0.2238	45	4G	N	N
01285	1.570	4.158	0.3165	0.2008	44	1G	Y	N
01288	1.715	6.227	0.3720	0.3250	45	2G	Y	N
01289	1.902	6.245	0.3720	0.3252	44	2G	Y	N
01292	1.625	4.998	0.3414	0.2220	44	1G	Y	Y
01293	2.000	4.985	0.3416	0.2220	44	1G	N	N
01294S	1.500	4.923	0.3716T	0.2890	45	2G	Y	N
01294S+15	1.500	4.923	0.3868T	0.2890	45	2G	Y	Y
01296	1.960	4.980	0.3415	0.2200	44	2G	Y	N
01300	1.269	4.162	0.3153	0.1799	44	3G	Y	N
01305S	1.457	5.322	0.3720	0.2725	44	1G	N	N
01306	1.772	5.312	0.3720	0.4325	44	2G	N	N
01307	1.600	5.006	0.3715	0.2236	43	4G	Y	N
01309	1.600	5.006	0.3715	0.4085	43	2G	N	N
01310	1.660	4.809	0.3410	0.2201	44	2G	Y	N
01311	2.110	4.810	0.3415	0.2201	29	2G	N	N
01312S	1.517	4.996	0.3715	0.4079	45	2G	Y	N
01314S	2.020	5.510	0.3717	0.3079	29	2G	N	N
01320	1.550	5.016	0.3726	0.1185	45	1G	Y	N
01321	1.687	5.155	0.3726	0.1195	45	1G	Y	N
01322	1.300	4.680	0.3423	0.2579	30	1G	Y	N
01323	1.522	4.667	0.3428	0.2579	44	1G	N	N
01324	1.622	4.675	0.3423	0.2579	30	1G	Y	N
01325	1.406	4.892	0.3721T	0.1825	44	4G	Y	Y
01326	1.680	4.910	0.3720T	0.1823	44	4G	Y	Y
01326+15	1.680	4.910	0.3864T	0.1823	44	4G	Y	Y
01327	1.461	5.070	0.3414	0.3929	44	1G	Y	N
01328	1.782	5.070	0.3419	0.3929	45	1G	Y	N
01328+15	1.782	5.070	0.3569	0.3929	45	1G	Y	N
01328+3	1.782	5.070	0.3449	0.3929	45	1G	Y	N
01329	1.500	5.003	0.3715	0.2235	43	4G	Y	N
01329+15	1.500	5.003	0.3865	0.2235	43	4G	Y	N
01332	1.508	5.373	0.3704	0.3030	44	1G	Y	N
01332+15	1.508	5.373	0.3854	0.3030	44	1G	Y	N
01336S	1.902	6.148	0.3720	0.3250	44	2G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01346S	1.635	5.702	0.4340	0.2717	44	1G	Y	N
01348	1.753	5.393	0.3714	0.3030	44	1G	Y	N
01350S	1.370	5.800	0.3100	0.1890	44	1G	N	N
01351S	1.430	5.800	0.3100	0.1890	44	1G	N	N
01354	1.502	4.688	0.3423	0.2578	30	1G	Y	N
01357	1.751	4.260	0.3103	0.1902	45	1G	Y	N
01358	1.560	4.810	0.3419	0.2449	45	1G	Y	N
01358+15	1.560	4.810	0.3569	0.2449	45	1G	Y	N
01361	1.500	5.078	0.3412	0.2858	45	2G	Y	Y
01362	1.720	5.078	0.3419	0.2860	45	2G	Y	N
01365	1.203	4.016	0.3145	0.2000	30	1G	N	N
01366	1.380	5.528	0.3104	0.3100	30	1G	N	N
01367	1.655	5.050	0.3414	0.2862	45	1G	Y	Y
01367+15	1.655	5.050	0.3564	0.2862	45	1G	Y	Y
01368S	1.508	4.983	0.3419	0.4000	44	1G	Y	Y
01375	1.715	6.133	0.3720	0.3250	44	1G	Y	N
01376S	1.500	5.945	0.3720	0.2960	44	1G	N	N
01377	1.715	6.208	0.3720	0.3250	29	1G	Y	N
01378	1.804	5.693	0.3715T	0.3217	45	2G	N	N
01379	2.094	5.698	0.3725	0.3220	30	2G	N	N
01380	2.041	5.231	0.3419	0.2618	45	1G	Y	N
01380+15	2.041	5.231	0.3569	0.2618	45	1G	Y	N
01381	1.562	4.954	0.3704	0.3992	45	1G	Y	Y
01382	1.784	5.147	0.3714	0.2920	44	1G	Y	N
01383SN	1.563	4.953	0.3708	0.3008	44.5	1G	Y	N
01383SN+15	1.563	4.953	0.3858	0.3008	44	1G	Y	N
01384S	1.784	5.147	0.3714	0.2921	44	1G	Y	N
01384S+15	1.784	5.147	0.3864	0.2921	44	1G	Y	N
01385SN	1.670	4.953	0.3708	0.3008	45	1G	Y	N
01385SN+15	1.670	4.953	0.3858	0.3008	45	1G	Y	N
01386S	2.064	5.147	0.3714	0.2921	44	1G	Y	N
01386S+15	2.064	5.147	0.3864	0.2921	44	1G	Y	N
01387	1.500	4.717	0.3408	0.2717	45	1G	Y	N
01388	1.710	4.713	0.3407	0.2717	45	1G	Y	N
01389	1.500	4.718	0.3408	0.2717	45	1G	Y	N
01393	1.840	4.912	0.3413	0.2591	45	2G	Y	N
01393+15	1.840	4.912	0.3563	0.2591	45	2G	Y	N
01394	1.307	4.730	0.3413	0.2890	45	2G	Y	N
01395	1.600	4.700	0.3413	0.2591	45	2G	Y	N
01397	1.500	4.807	0.3414	0.3780	44	4G	Y	N
01399	1.500	4.982	0.3715	0.2232	45	4G	Y	N
01402	1.688	5.914	0.3720	0.2960	44	2G	N	N
01403	1.715	6.192	0.3720	0.3200	29	2G	Y	N
01404	1.750	6.128	0.3720	0.3200	29	2G	Y	N
01406	1.875	6.561	0.4340	0.3500	44	1G	Y	N
01407	2.150	6.596	0.4340	0.3500	44	2G	Y	N
01408	1.875	6.708	0.4341	0.4690	44	1G	Y	N
01409	2.031	6.732	0.4341	0.4690	30	1G	Y	N
01412	1.875	6.655	0.4342	0.3750	30	1G	Y	N
01415S	2.245	6.864	0.4970	0.2913	30	1G	Y	N
01417	1.617	4.995	0.3716	0.4085	45	2G	Y	N
01417+15	1.617	4.995	0.3866	0.4085	45	2G	Y	N
01419	1.517	4.995	0.3716	0.4085	45	2G	Y	N
01419+15	1.517	4.995	0.3866	0.4085	45	2G	Y	N
01420S	1.605	5.565	0.3788	0.2433	30	1G	N	N
01422S	1.600	5.792	0.3712T	0.2252	45	1G	Y	N
01423	1.970	5.806	0.3720	0.2248	30	1G	Y	N
01429S	1.180	5.529	0.3104	0.3100	30	1G	N	N
01431S	1.535	5.482	0.3720	0.2840	45	1G	Y	Y
01432	2.054	5.467	0.3725	0.4831	44	1G	N	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01441	1.406	4.892	0.3720T	0.2453	44	1G	Y	Y
01442	1.787	4.899	0.3720	0.2453	29	1G	N	N
01446	1.889	6.864	0.4955	0.2920	30	1G	Y	N
01448	1.394	4.442	0.3116T	0.2583	45	4G	Y	N
01449	1.598	4.419	0.3127	0.3543	45	1G	Y	N
01450	1.750	4.667	0.3428	0.2579	44	1G	N	N
01451	1.457	5.189	0.3152	0.3248	45	3G	Y	N
01452	1.654	5.306	0.3163	0.3598	45	3G	Y	N
01455	1.665	5.932	0.3413	0.2591	45	1G	N	N
01456	1.811	5.932	0.3413	0.2591	30	1G	N	N
01457	1.995	4.707	0.3427	0.2580	44	1G	N	N
01458S	2.282	9.266	0.3717T	0.7900	45	2G	N	N
01459S	2.343	9.297	0.3717	0.7700	45	1G	N	N
01460S	2.350	9.391	0.3717T	0.5045	30	2G	N	N
01461S	2.505	9.390	0.3717	0.5045	30	2G	N	N
01462S	1.771	7.140	0.3717	0.4902	29	2G	Y	N
01468S	1.646	7.132	0.3717	0.4900	44	2G	Y	N
01469	1.461	4.845	0.3414	0.1780	44.5	4G	Y	N
01470	1.782	4.840	0.3419	0.1833	44.5	4G	Y	N
01471S	1.821	5.167	0.3720	0.3385	30	2G	Y	N
01476S	2.350	9.392	0.3717T	0.5043	30	2G	N	N
01478	1.500	4.939	0.3115T	0.2457	44	1G	Y	N
01479	1.910	4.912	0.3115	0.2457	44	1G	N	N
01480	1.425	4.736	0.3413	0.2890	45	2G	Y	N
01480+15	1.425	4.736	0.3563	0.2890	45	2G	Y	N
01481	1.718	4.705	0.3413	0.2591	45	2G	Y	N
01481+15	1.718	4.705	0.3563	0.2591	45	2G	Y	N
01482S	1.496	5.108	0.3718T	0.2760	45	2G	Y	N
01483S	1.653	5.108	0.3719T	0.2750	45	2G	Y	N
01484	1.811	5.108	0.3413	0.2752	45	2G	Y	N
01491S	1.896	5.467	0.3717	0.2772	29	2G	N	N
01497S	1.804	5.683	0.3715T	0.3217	45	2G	Y	N
01498S	2.205	8.622	0.3717	0.6910	30	2G	N	N
01500	1.180	5.529	0.3104	0.3100	30	1G	N	N
01504	1.560	4.750	0.3420	0.2898	44.5	1G	Y	N
01504+15	1.560	4.750	0.3570	0.2898	44.5	1G	Y	N
01504S	1.560	4.750	0.3420	0.2898	44.5	1G	Y	N
01505	1.781	4.750	0.3420	0.2400	44.5	1G	Y	N
01505+15	1.781	4.750	0.3570	0.2400	44.5	1G	Y	N
01506S	1.805	6.101	0.4342	0.3190	44	1G	Y	N
01507	2.157	6.099	0.4345	0.3190	14	1G	N	N
01508	2.157	6.099	0.4345	0.3190	45	1G	N	N
01511	1.750	6.428	0.4025T	0.2500	45	2G	Y	N
01512	2.000	6.428	0.4025	0.2500	45	2G	Y	N
01519	1.455	5.640	0.3721	0.1840	45	1G	N	N
01520	1.710	5.689	0.3722	0.2250	30	1G	Y	N
01523S	1.444	5.997	0.3708	0.4010	30	1G	N	N
01524	1.620	5.996	0.3718	0.4008	29	1G	N	N
01525S	1.651	6.017	0.3708	0.4012	29.5	1G	N	N
01526	1.839	6.016	0.3718	0.4012	29	1G	N	N
01527	1.380	4.807	0.3414	0.3779	44	4G	Y	Y
01528	1.610	4.787	0.3419	0.3779	44	4G	Y	N
01531	1.673	6.940	0.3789	0.4122	30	1G	Y	N
01532	1.673	6.945	0.3789	0.4122	30	1G	N	N
01533S	2.220	7.545	0.4948	0.4600	30	1G	Y	N
01534	2.220	7.545	0.4950	0.4600	30	1G	Y	N
01535	1.371	4.615	0.3125	0.2803	44	3G	Y	Y
01535+15	1.371	4.615	0.3275	0.2803	44	3G	Y	Y
01536	1.661	4.615	0.3130	0.2217	44	3G	Y	N
01536+15	1.661	4.615	0.3280	0.2217	44	3G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01537	1.451	4.942	0.3414	0.4811	44	1G	Y	Y
01538	1.782	4.942	0.3420	0.3929	44	1G	Y	N
01542	1.595	5.670	0.3718T	0.2469	37	1G	Y	Y
01542S	1.595	5.674	0.3718T	0.2469	37	1G	Y	Y
01542S+15	1.595	5.674	0.3868T	0.2469	37	1G	Y	Y
01543	1.877	5.687	0.3719	0.2740	30	1G	Y	Y
01543+15	1.877	5.697	0.3869	0.2740	30	1G	Y	Y
01545	1.339	5.271	0.3152	0.3250	45	3G	Y	N
01546	1.535	5.383	0.3163	0.3600	44	3G	Y	N
01547	1.654	4.983	0.3419	0.4000	44	1G	Y	N
01547+15	1.654	4.983	0.3569	0.4000	44	1G	Y	N
01548	1.978	5.180	0.3419	0.3398	44	1G	Y	N
01548+15	1.978	5.180	0.3569	0.3398	44	1G	Y	N
01548S	1.977	5.198	0.3419	0.3398	44	1G	Y	N
01550	1.500	4.355	0.3132T	0.1870	45	1G	Y	N
01550+15	1.500	4.355	0.3282T	0.1870	45	1G	Y	N
01551	1.720	4.394	0.3135	0.2421	45	1G	Y	N
01551+15	1.720	4.394	0.3285	0.2421	45	1G	Y	N
01552	1.394	4.522	0.3116T	0.2579	45	4G	Y	N
01553	1.599	4.499	0.3122	0.3543	45	1G	Y	N
01554	1.394	4.523	0.3117T	0.2579	45	4G	Y	N
01555	1.598	4.499	0.3128	0.3543	45	1G	Y	N
01556	1.500	4.940	0.3115T	0.1559	44	1G	Y	N
01556+15	1.500	4.940	0.3265T	0.1559	44	1G	Y	N
01557	1.910	4.912	0.3115	0.1559	44	1G	N	N
01557+15	1.910	4.912	0.3265	0.1559	44	1G	N	N
01566	1.556	8.497	0.3430	0.6149	30	1G	Y	N
01567	1.732	8.498	0.3435	0.5949	30	1G	Y	N
01568	1.457	5.165	0.3132	0.2799	45	1G	Y	N
01569	1.693	5.456	0.3136	0.2580	45	1G	Y	N
01570	1.573	6.867	0.3715	0.4095	30	1G	Y	N
01571S	1.694	6.955	0.3725	0.4095	30	1G	Y	N
01572	1.654	6.806	0.3715	0.4095	30	1G	Y	N
01573S	1.771	6.846	0.3725	0.4095	20	1G	Y	N
01574S	1.455	5.688	0.3713T	0.2252	45	1G	Y	N
01578S	1.720	5.355	0.3716	0.2200	45	1G	Y	N
01579S	1.575	6.961	0.3150	0.2830	45	1G	N	N
01580	1.850	6.976	0.3150	0.2830	30	1G	N	N
01581S	1.654	6.850	0.3717	0.6330	45	2G	N	N
01582	1.772	6.850	0.3717	0.5720	30	2G	N	N
01582S	1.772	6.850	0.3717	0.5720	30	2G	N	N
01584S	2.205	8.622	0.3717	0.6910	20	2G	Y	N
01586	1.850	6.174	0.3720	0.3248	30	1G	Y	N
01587	2.008	6.060	0.3730	0.3591	30	1G	Y	N
01588	1.673	5.257	0.3095	0.2567	30	1G	Y	Y
01589	1.835	5.278	0.3100	0.2567	30	1G	Y	N
01590S	2.031	6.661	0.4342	0.3750	20	1G	Y	N
01591	1.500	4.541	0.3133T	0.1870	45	1G	Y	N
01591+15	1.500	4.541	0.3283T	0.1870	45	1G	NR	N
01592	1.720	4.591	0.3135	0.2421	45	1G	Y	N
01592+15	1.720	4.591	0.3285	0.2421	45	1G	NR	N
01597	1.500	4.787	0.3414	0.3779	45	4G	Y	Y
01598	1.735	4.787	0.3419	0.3779	45	4G	Y	N
01600	1.881	5.349	0.3715	0.2180	45	1G	Y	N
01630S	1.896	6.395	0.3717	0.2770	30	2G	N	N
01631S	2.020	6.437	0.3717	0.3079	30	2G	N	N
01632S	1.646	7.140	0.3717	0.4900	20	2G	Y	N
01646S	1.500	4.923	0.3719	0.2890	46	2G	Y	N
01648	1.727	6.042	0.3723	0.7230	45	2G	Y	N
01649	1.924	6.020	0.3728	0.7780	45	2G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01650S	1.750	6.428	0.4025T	0.2500	45	2G	Y	N
01653	1.500	5.745	0.3704	0.2449	45	2G	N	N
01654	1.805	5.743	0.3714	0.2449	45	1G	N	N
01656S	1.745	7.108	0.4025	0.4010	15	2G	Y	N
01658S	1.673	6.944	0.3789	0.4122	30	1G	Y	N
01659S	1.870	7.726	0.3789	0.4120	30	1G	N	N
01660	1.870	7.723	0.3789	0.4120	30	1G	N	N
01661S	1.870	7.726	0.3789	0.4120	30	1G	N	N
01662S	1.673	7.695	0.3789	0.4122	30	1G	Y	N
01662SNR	1.673	7.695	0.3789	0.4122	30	1G	Y	N
01663	1.673	7.690	0.3789	0.4122	30	1G	Y	N
01664	1.654	5.076	0.3138	0.2362	45	1G	Y	N
01664R	1.654	5.076	0.3138	0.2362	45	1G	NR	N
01665	1.772	5.084	0.3138	0.2360	30	1G	Y	N
01665R	1.772	5.084	0.3138	0.2360	30	1G	NR	N
01666	1.811	5.937	0.3736	0.2220	45	1G	Y	Y
01667	2.047	5.946	0.3736	0.2224	30	1G	Y	N
01670	1.476	4.974	0.3116	0.2670	45	4G	Y	N
01671	1.791	4.949	0.3128	0.2622	45	2G	Y	N
01673	1.398	4.330	0.2748	0.1756	44	1G	Y	N
01674	1.182	4.311	0.2743	0.1759	44	1G	Y	N
01675	1.617	4.995	0.3716	0.4087	45	2G	Y	Y
01693S	1.203	5.190	0.3381	0.2882	45	1G	N	N
01694	1.842	5.742	0.3718	0.2449	30	1G	Y	N
01695S	1.510	5.742	0.3705	0.2449	45	2G	N	N
01698	1.339	4.607	0.2740	0.4840	45	3G	Y	N
01698S	1.339	4.622	0.2740	0.4990	45	3G	Y	N
01699	1.752	4.607	0.2750	0.4840	45	3G	Y	N
01699S	1.752	4.622	0.2750	0.4989	45	3G	Y	N
01701	1.842	5.070	0.3419	0.3930	44	1G	Y	N
01702	1.260	4.100	0.2739	0.2000	45	1G	Y	N
01703	1.437	4.091	0.2742	0.1970	45	1G	Y	N
01704	1.457	5.165	0.3132	0.2098	45	1G	Y	N
01705	1.732	5.457	0.3136	0.1890	45	1G	Y	N
01706	1.142	3.564	0.2335	0.1460	45	1G	N	N
01707	1.308	4.169	0.2335	0.1860	45	1G	N	N
01708	1.181	4.578	0.2740	0.4560	44	3G	Y	N
01709	1.456	5.337	0.2750	0.6530	44	3G	Y	N
01710	1.490	4.727	0.3408	0.2980	45	1G	Y	N
01711	1.710	4.726	0.3407	0.2972	45	1G	Y	N
01712	1.378	4.516	0.2734	0.1768	45	3G	Y	N
01713	1.142	4.959	0.2722	0.2689	45	3G	Y	N
01714	1.920	4.906	0.3115	0.1559	44	1G	N	N
01714+15	1.920	4.906	0.3265	0.1559	44	1G	N	N
01715	1.624	4.920	0.3115T	0.1559	43.5	1G	Y	N
01715+15	1.639	4.920	0.3265T	0.1559	43.5	1G	Y	N
01716	2.087	6.594	0.3720	0.3740	37	1G	Y	N
01717S	2.087	6.536	0.3730	0.5315	29	1G	Y	N
01720S	1.673	6.945	0.3793	0.4120	30	1G	Y	N
01721S	1.875	7.115	0.4505	0.4010	20	2G	Y	N
01721S-OEM	1.875	7.115	0.4505	0.4010	20	2G	Y	N
01723	2.083	5.175	0.3419	0.3398	44.5	1G	Y	N
01726	1.437	4.320	0.2748	0.1756	44	1G	Y	N
01727	1.238	4.309	0.2743	0.1776	44	1G	Y	N
01728	1.260	4.520	0.2356	0.3570	44	3G	Y	N
01729	1.023	4.545	0.2346	0.3540	44	3G	Y	N
01730	1.370	4.399	0.2340	0.4704	45	1G	Y	N
01731	1.201	4.324	0.2328	0.4744	45	1G	Y	N
01734	2.220	7.545	0.4948	0.4598	30	1G	Y	N
01735	1.520	4.713	0.3132	0.2004	45	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01736	1.732	5.465	0.2742	0.2040	45	1G	Y	N
01737	1.457	5.142	0.2738	0.2220	45	1G	Y	Y
01738S	2.220	7.550	0.4950	0.4600	30	1G	Y	N
01739	1.229	4.188	0.2335	0.1860	45	1G	N	N
01741	1.309	4.513	0.2340	0.2940	45	1G	Y	N
01742	1.130	4.614	0.2328	0.2460	45	1G	Y	Y
01743	1.735	4.787	0.2750	0.3410	45	3G	Y	N
01744	1.500	4.807	0.2740	0.3410	45	3G	Y	N
01745	1.260	3.823	0.2376	0.2390	45	1G	Y	N
01746	1.102	3.801	0.2369	0.2319	45	1G	Y	N
01750	1.573	6.887	0.3715	0.4095	29.75	1G	Y	N
01754	1.595	5.674	0.3719T	0.2470	38	1G	Y	N
01756	1.870	7.750	0.3789	0.4120	20	1G	Y	N
01757	1.870	6.160	0.3715	0.2831	30	1G	Y	N
01758	1.693	6.160	0.3704	0.2831	44	1G	Y	Y
01760S	2.020	5.350	0.3717	0.3079	30	2G	N	N
01761S	1.896	5.300	0.3717	0.2772	30	2G	Y	N
01762R	1.940	4.898	0.3415	0.2591	45	1G	Y	Y
01763R	2.020	4.898	0.3415	0.2591	45	1G	Y	Y
01764R	2.020	4.998	0.3415	0.2591	45	1G	Y	Y
01765R	2.055	4.898	0.3415	0.2591	45	1G	Y	Y
01766R	2.055	4.998	0.3415	0.2591	45	1G	Y	Y
01767R	2.080	4.898	0.3415	0.2591	45	1G	Y	Y
01768R	2.080	4.998	0.3415	0.2591	45	1G	Y	Y
01769R	1.500	4.905	0.3415T	0.2889	45	1G	Y	Y
01770R	1.600	4.905	0.3415T	0.2889	45	1G	Y	Y
01771R	1.600	5.005	0.3415T	0.2886	45	1G	Y	Y
01772R	1.625	4.905	0.3415T	0.2889	45	1G	Y	Y
01773R	2.190	5.230	0.3720	0.2201	45	1G	Y	Y
01774R	2.250	5.230	0.3720	0.2201	45	1G	Y	Y
01775R	2.300	5.230	0.3720	0.2201	45	1G	Y	Y
01776R	1.725	5.347	0.3715T	0.2201	45	1G	Y	Y
01777R	1.880	5.347	0.3715T	0.2201	45	1G	Y	Y
01780S	1.535	5.112	0.3718T	0.2759	45	2G	Y	Y
01781	1.920	5.728	0.3115	0.2555	43.5	1G	N	N
01782	1.624	5.743	0.3115T	0.2555	43.5	1G	Y	N
01783	1.741	4.838	0.3729	0.2031	45	1G	Y	N
01784	1.473	4.855	0.3718	0.2028	45	1G	Y	Y
01785	1.680	5.805	0.3122	0.3409	30	1G	Y	N
01786	1.680	5.799	0.3122	0.2909	37	1G	Y	Y
01787	1.378	4.510	0.2356	0.3571	45	3G	Y	N
01788	1.181	4.546	0.2346	0.3543	45	3G	Y	N
01789	1.861	4.840	0.2750	0.1224	45	3G	Y	N
01790	1.782	4.840	0.2750	0.1224	44.5	3G	Y	N
01791	1.461	4.845	0.2740	0.1169	45	3G	Y	N
01792	1.781	4.750	0.3419	0.2898	44	1G	Y	N
01798	1.441	5.004	0.3724	0.2035	44	1G	Y	Y
01801	1.654	5.135	0.3138	0.2950	45	1G	Y	N
01804	2.205	8.622	0.3717	0.6910	19	2G	Y	N
01805S	2.205	8.622	0.3717T	0.6910	45	2G	N	N
01806	1.840	4.880	0.3413	0.2598	45	1G	Y	N
01807	1.500	4.920	0.3413T	0.2890	45	1G	Y	Y
01807+15	1.500	4.920	0.3563T	0.2890	45	1G	Y	Y
01807S	1.500	4.920	0.3413T	0.2890	45	1G	Y	Y
01807S+15	1.500	4.920	0.3563T	0.2891	45	1G	Y	Y
01809	1.500	4.904	0.3413T	0.2890	45	1G	Y	N
01810	1.718	4.713	0.3139	0.1839	45	1G	Y	N
01811	1.425	4.736	0.3132	0.1890	45	1G	Y	Y
01813	1.720	4.649	0.3421	0.3417	45	2G	Y	N
01814	1.500	4.600	0.3415	0.2889	45	2G	Y	Y

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01826	2.000	6.428	0.4025	0.2500	30	2G	Y	N
01830S	1.771	7.250	0.3717	0.6080	30	2G	Y	N
01831S	1.646	7.250	0.3717	0.6080	45	2G	Y	N
01832SN	1.654	4.980	0.3415	0.3976	45	1G	Y	N
01832SN+15	1.654	4.980	0.3565	0.3976	45	1G	Y	N
01847S	1.870	7.726	0.3789	0.4120	45	1G	N	N
01857S	1.771	7.140	0.3717	0.4902	20	2G	N	N
01858	1.800	4.721	0.3134	0.1988	45	1G	Y	N
01862	1.654	5.081	0.3137	0.2440	20	1G	Y	Y
01875	1.780	4.750	0.3419	0.2398	45	1G	Y	N
01877	1.541	5.070	0.3414	0.4810	44	1G	Y	N
01880	1.812	4.502	0.3103	0.2902	30	1G	N	N
01881	1.602	4.502	0.3093	0.1882	45	1G	N	Y
01882	1.550	4.539	0.3093	0.1880	30	1G	Y	Y
01887	1.772	4.836	0.3729	0.2031	45	1G	Y	N
01889	1.830	7.716	0.3543	0.3010	30	1G	Y	N
01899	1.970	5.789	0.3124	0.2750	30	1G	Y	N
01900S	1.600	5.790	0.3112	0.2744	45	1G	Y	N
01901	1.437	4.516	0.2734	0.1766	45	3G	Y	N
01902	1.732	5.265	0.2746	0.1840	45	1G	Y	N
01903	1.457	4.980	0.2738	0.2019	45	1G	Y	Y
01904	1.791	5.021	0.3128	0.2616	45	2G	Y	N
01905	1.476	5.045	0.3116	0.2665	45	4G	Y	N
01910S	1.694	6.955	0.3725	0.4095	20	1G	Y	N
01911	1.850	7.951	0.3717	0.5622	29	2G	Y	N
01912	1.646	7.953	0.3717	0.6040	44	2G	Y	N
01913	1.811	4.524	0.2744	0.4170	45	3G	Y	N
01914	1.535	4.524	0.2734	0.5740	45	3G	Y	N
01916	1.910	4.911	0.3114	0.1335	46	3G	N	N
01916+15	1.910	4.911	0.3264	0.1335	46	3G	N	N
01917	1.500	4.939	0.3115T	0.1331	46	3G	Y	N
01917+15	1.500	4.939	0.3265T	0.1331	46	3G	Y	N
01918	1.915	4.481	0.2734	0.3724	45	3G	Y	N
01919	1.457	4.539	0.2722	0.4283	45	3G	Y	N
01920	1.331	4.257	0.2340	0.2685	45	3G	Y	N
01921	1.094	4.178	0.2329	0.2716	45	3G	Y	N
01924	1.752	4.756	0.2748	0.4980	45	3G	Y	N
01924S	1.752	4.752	0.2750	0.4990	45	3G	Y	N
01925	1.418	4.682	0.2740	0.4980	45	3G	Y	N
01925S	1.418	4.681	0.2740	0.4990	45	3G	Y	N
01929	1.760	4.684	0.3139	0.1843	45	1G	Y	N
01931	1.940	4.880	0.3413	0.2600	45	1G	Y	N
01931+15	1.940	4.880	0.3563	0.2600	45	1G	Y	N
01934	1.890	4.869	0.3136	0.2040	45	1G	Y	N
01934S	1.890	4.869	0.3136	0.2040	45	1G	Y	N
01935	1.551	4.915	0.3136	0.2070	45	1G	Y	N
01935R-155	1.550	4.915	0.3135	0.1600	45	1G	Y	Y
01935R-157	1.570	4.915	0.3135	0.1600	45	1G	Y	Y
01935R-160	1.600	4.915	0.3135	0.1600	45	1G	Y	Y
01935S	1.551	4.915	0.3136	0.2030	45	1G	Y	N
01936	1.457	5.108	0.3151	0.1770	45	3G	Y	N
01937	1.141	4.238	0.2328	0.1157	44.5	1G	Y	N
01941	1.396	4.207	0.2333	0.1130	44	1G	Y	N
01943	1.970	5.787	0.3722	0.2440	30	1G	Y	N
01944S	1.600	5.787	0.3714	0.2440	45	1G	Y	N
01945	1.786	5.992	0.3722	0.2420	30	1G	Y	N
01946S	1.786	5.992	0.3714	0.2420	45	1G	Y	N
01949	1.272	3.800	0.2349	0.2760	45	1G	Y	N
01950	1.080	3.772	0.2344	0.2780	45	1G	Y	N
01952R	1.600	4.925	0.3415	0.2500	45	1G	Y	Y

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
01954R	1.600	5.025	0.3415	0.2500	45	1G	Y	Y
01960R	1.880	5.420	0.3715	0.2500	45	1G	Y	Y
01961R	1.880	5.520	0.3715	0.2500	45	1G	Y	Y
01962R	1.880	5.520	0.3415	0.2500	45	1G	Y	Y
01964R	2.190	5.320	0.3715	0.2200	45	1G	Y	Y
01991	1.309	4.513	0.2340	0.1830	45	3G	Y	N
01992	1.130	4.614	0.2329	0.1360	45	3G	Y	N
01993	1.890	4.969	0.2734	0.1520	45	4G	Y	N
01994	1.398	5.023	0.2722	0.1690	45	4G	Y	N
01997	1.382	4.026	0.2347	0.2350	44.8	3G	Y	N
01998	1.457	4.149	0.2346	0.2460	44	3G	Y	Y
01999	1.201	4.246	0.2339	0.2450	44	3G	Y	Y
02000	2.000	4.869	0.3136	0.2040	45	1G	Y	N
02000R-200	2.000	4.870	0.3135	0.1600	45	1G	Y	Y
02000R-202	2.020	4.870	0.3135	0.1600	45	1G	Y	Y
02000R-205	2.050	4.870	0.3135	0.1600	45	1G	Y	Y
02006	1.378	4.073	0.2156	0.1840	45	1G	NR	N
02007	1.181	4.120	0.2153	0.1772	45	1G	NR	N
02008	1.370	4.399	0.2340	0.3583	45	3G	Y	N
02009	1.120	4.324	0.2329	0.3558	45	3G	Y	Y
02010	1.185	3.975	0.2343	0.2360	45	3G	Y	N
02010S	1.185	3.975	0.2343	0.2360	45	3G	Y	N
02014	1.299	4.907	0.2756	0.2990	30	1G	Y	N
02014R	1.299	4.907	0.2756	0.2990	30	1G	NR	N
02015	1.299	4.893	0.2756	0.3000	45	1G	Y	N
02016R	1.500	4.925	0.3415	0.2500	45	1G	Y	Y
02021R	2.065	5.220	0.3715	0.2200	45	1G	Y	Y
02024R	1.600	5.125	0.3415	0.2500	45	1G	Y	Y
02026R	1.940	5.025	0.3415	0.2500	45	1G	Y	Y
02029R	2.080	5.125	0.3415	0.2500	45	1G	Y	Y
02034	1.370	4.399	0.2340	0.3583	45	3G	Y	N
02035	1.120	4.324	0.2329	0.3560	45	3G	Y	N
02036	1.457	4.539	0.2722	0.4283	45	3G	Y	N
02040S	1.142	3.634	0.2340	0.1260	45	3G	Y	N
02043R	1.880	5.420	0.3415	0.2500	45	1G	Y	Y
02044	1.736	5.256	0.3163	0.2468	45	3G	Y	N
02045	1.551	4.915	0.3126	0.2070	45	1G	Y	N
02046	1.661	4.637	0.2750	0.2217	45	3G	Y	N
02047	1.371	4.615	0.2740	0.2803	45	3G	Y	N
02053	1.426	4.408	0.2335	0.2460	45	1G	Y	N
02054	1.103	3.678	0.2335	0.2460	45	1G	Y	N
02057	1.718	4.682	0.3139	0.2142	45	1G	Y	N
02058	1.425	4.716	0.3135	0.2141	45	1G	Y	N
02059R	1.940	5.447	0.3415T	0.2200	45	1G	Y	Y
02061R	1.880	5.447	0.3415T	0.2200	45	1G	Y	Y
02062R	1.880	5.347	0.3415T	0.2200	45	1G	Y	Y
02063R	2.300	5.330	0.3415	0.2200	45	1G	Y	Y
02064R	2.250	5.330	0.3415	0.2200	45	1G	Y	Y
02065R	2.190	5.330	0.3415	0.2200	45	1G	Y	Y
02084	1.484	6.238	0.4025T	0.2500	45	1G	N	N
02095	1.573	6.992	0.3715	0.5095	30	1G	Y	N
02101	2.187	5.224	0.3717	0.2160	45	1G	Y	N
02103	2.000	4.929	0.3127	0.1535	45	3G	Y	N
02118	1.331	4.618	0.2356	0.3460	44.5	3G	Y	N
02118S	1.331	4.618	0.2356	0.3460	45	3G	Y	N
02119	1.479	4.583	0.2345	0.4130	44.5	3G	Y	N
02119S	1.479	4.583	0.2345	0.4130	44.5	3G	Y	N
02126S	1.720	5.395	0.3711	0.2181	45	1G	Y	N
02131	1.970	5.992	0.3722	0.2440	30	1G	Y	N
02160S	1.693	7.839	0.3717	0.2500	45	2G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
02161S	1.575	7.209	0.3150	0.4330	30	1G	Y	N
02166	1.594	5.205	0.3724	0.2250	45	1G	N	N
02167	1.845	5.215	0.3734	0.2200	45	1G	N	N
02168S	2.205	8.622	0.4950	0.7440	45	1G	Y	N
02172	1.760	4.684	0.3138	0.1840	45	1G	Y	N
02173	1.425	4.757	0.3132	0.1900	45	1G	Y	N
02175	1.299	4.975	0.2739	0.5210	45	1G	NR	N
02175R	1.299	4.975	0.2739	0.5210	45	1G	NR	N
02176	1.220	4.963	0.2730	0.5200	45	1G	NR	N
02176R	1.220	4.963	0.2730	0.5200	45	1G	NR	N
02177	1.339	4.392	0.2153	0.2620	45	1G	NR	N
02178S	1.142	4.398	0.2150	0.2510	45	1G	NR	N
02179	1.339	5.058	0.2737	0.3571	30	1G	Y	N
02179R	1.339	5.058	0.2737	0.3571	30	1G	NR	N
02180	1.102	5.059	0.2737	0.3598	37.5	1G	Y	N
02180R	1.102	5.059	0.2737	0.3598	37.5	1G	NR	N
02181	1.441	3.912	0.2744	0.1980	45	1G	NR	N
02182S	1.230	3.813	0.2736	0.1952	45	1G	NR	N
02187	1.496	5.424	0.3138	0.3358	45	1G	Y	N
02188	1.496	5.423	0.3138	0.3350	30	1G	Y	N
02192	1.378	3.999	0.1955	0.4370	45	1G	NR	N
02193	1.215	3.989	0.1952	0.4350	45	1G	NR	N
02194	1.094	3.798	0.2154	0.1340	45	1G	NR	N
02195	0.980	3.764	0.2141	0.1320	45	1G	NR	N
02196	1.240	4.052	0.2352	0.1700	45	1G	NR	N
02197	1.063	3.993	0.2352	0.1437	45	1G	NR	N
02220	1.555	4.845	0.3126	0.1535	45	3G	Y	N
02231	1.850	6.971	0.3150	0.2840	29	1G	N	N
02234	1.189	4.095	0.2740	0.1181	45	1G	NR	N
02235	1.120	4.108	0.2740	0.1201	45.5	1G	NR	N
02237	1.969	5.549	0.3523	0.4508	45	1G	NR	N
02238	1.654	5.537	0.3516	0.4504	45	1G	NR	Y
02239	1.830	5.551	0.3522	0.4520	30	1G	NR	N
02240	1.004	3.461	0.1957	0.1378	45	1G	NR	N
02241	1.205	3.514	0.1957	0.1398	45	1G	NR	N
02243	1.384	4.319	0.2745	0.1970	45	1G	NR	N
02244	1.185	4.299	0.2735	0.1790	45	1G	NR	Y
02245	1.378	3.640	0.2156	0.1180	45	1G	NR	N
02246	1.185	3.614	0.2153	0.1180	45	1G	NR	N
02247	1.124	3.999	0.2345	0.1740	45	1G	Y	N
02248S	1.073	3.982	0.2337	0.1730	45	1G	Y	N
02249	1.193	4.032	0.2345	0.1740	45	1G	Y	N
02250S	1.021	4.014	0.2337	0.1730	45	1G	Y	N
02254	1.811	5.942	0.3736	0.2220	20	1G	Y	N
02254S	1.811	5.942	0.3736	0.2220	20	1G	Y	N
02255	2.047	5.952	0.3736	0.2222	20	1G	Y	N
02255S	2.047	5.952	0.3736	0.2222	20	1G	Y	N
02257	1.772	5.085	0.3138	0.2360	20	1G	Y	N
02258S	1.646	7.621	0.3717	0.4900	20	2G	Y	N
02259S	1.771	7.621	0.3717	0.4900	20	2G	N	N
02260S	1.417	7.264	0.3717	0.6142	24	2G	Y	N
02261	1.417	7.205	0.3717	0.6150	45	2G	Y	N
02262	1.870	8.503	0.3789	0.4669	20	1G	Y	N
02263S	1.790	8.810	0.3789	0.7579	45	1G	Y	N
02265	1.476	4.583	0.2346	0.4134	45	3G	Y	N
02267	2.000	4.869	0.3136	0.2040	45	1G	Y	N
05000	1.772	4.839	0.3730	0.2031	30	1G	Y	N
05001	1.693	4.837	0.3526	0.2200	45	1G	Y	N
05002S	1.620	4.842	0.3524	0.2200	45	1G	Y	N
05003	1.772	4.886	0.3529	0.2200	45	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
05004	1.654	4.890	0.3524	0.2185	45	1G	Y	N
10015	1.648	4.583	0.3139	0.1190	44	1G	Y	N
10030	1.382	4.094	0.3139	0.1570	45	1G	Y	N
10031	1.462	4.089	0.3141	0.1590	45	1G	Y	N
10033S	1.188	4.083	0.3132	0.1580	44	1G	Y	N
10034S	1.140	4.083	0.3130	0.1570	44	1G	N	N
10036S	1.382	4.619	0.3131	0.1220	45	1G	Y	N
10037	1.419	4.483	0.3139	0.1831	45	1G	Y	N
10048	1.692	4.543	0.3142	0.1831	45	1G	N	N
10056	1.738	4.580	0.3138	0.1130	45	1G	Y	N
10060S	1.297	4.206	0.3162	0.2209	45	1G	Y	N
10061	1.656	4.258	0.3161	0.3369	45	1G	N	N
10064	1.376	4.394	0.3124	0.1240	45	1G	N	N
10065	1.689	4.432	0.3140	0.1280	45	1G	N	N
10069	1.478	4.922	0.3140	0.1831	45	3G	Y	N
10070	1.811	4.917	0.3142	0.1748	45	3G	N	N
10076	1.488	4.158	0.3140	0.1080	45	1G	NR	N
10078	1.378	4.445	0.2594	0.1970	45	1G	N	N
10083	1.220	4.028	0.3126	0.1180	45	1G	NR	N
10086	1.339	4.363	0.3130	0.1382	45	1G	Y	N
10087	1.673	4.315	0.3130	0.1402	45	1G	Y	N
10102S	1.181	4.510	0.2738	0.3000	45	1G	Y	Y
10103	1.417	4.550	0.2738	0.3080	45	1G	Y	N
10104	1.220	4.140	0.2740	0.1799	45	1G	Y	Y
10105	1.415	4.140	0.2742	0.1799	45	1G	Y	N
10106	1.220	4.212	0.2745	0.2360	44	1G	Y	Y
10107	1.417	4.212	0.2746	0.2362	44	1G	Y	N
10116	1.437	4.095	0.2750	0.1642	44	1G	Y	N
10117	1.692	4.085	0.2760	0.1598	44	1G	Y	N
10118	1.261	4.144	0.2745	0.1961	45	1G	Y	N
10122	1.217	4.157	0.2591	0.2067	45	1G	Y	N
10123	1.084	4.201	0.2578	0.1803	45	1G	Y	N
10126A	1.339	4.317	0.2587	0.2000	45	1G	NR	N
10126R	1.378	4.317	0.2587	0.2000	45	1G	Y	N
10127	1.496	4.070	0.3135	0.1575	45	1G	NR	N
10128A	1.201	4.319	0.2575	0.2000	45	1G	NR	N
10128R	1.221	4.319	0.2575	0.2000	45	1G	Y	N
10129	1.220	3.936	0.3125	0.1622	45	1G	NR	N
10137	1.122	3.681	0.2353	0.1835	45	1G	Y	N
10138	0.965	3.699	0.2351	0.1783	45	1G	Y	N
10141	1.693	4.323	0.3136	0.1390	45	1G	Y	N
10142	1.378	4.277	0.3126	0.1386	45	1G	Y	N
10143	1.811	4.195	0.3137	0.1378	45	1G	Y	N
10144	1.496	4.141	0.3126	0.1390	45	1G	Y	N
10145	1.810	4.250	0.3134	0.1528	45	1G	Y	N
10146	1.493	4.170	0.3125	0.1772	45	1G	Y	N
10146S	1.493	4.170	0.3125	0.1772	45	1G	Y	N
10147	1.693	4.024	0.3137	0.1390	45	1G	Y	N
10148	1.378	4.012	0.3126	0.1386	45	1G	Y	N
10153	1.103	4.120	0.2735	0.2150	45	1G	Y	Y
10157	1.220	4.148	0.2354	0.1689	45	1G	Y	N
10158S	1.555	3.616	0.3136	0.1535	45	3G	N	N
10159	1.031	4.150	0.2350	0.1690	45	1G	Y	N
10162	1.280	4.559	0.2747	0.3138	45	1G	Y	N
10163	1.339	4.575	0.2745	0.3154	45	1G	Y	N
10164	1.339	4.575	0.2745	0.3100	45	1G	Y	N
10169	1.378	3.313	0.2151	0.2010	45	1G	Y	N
10170	1.102	3.311	0.2144	0.2030	45	1G	Y	N
10172	1.441	4.550	0.2744	0.3110	45	1G	Y	N
10173S	1.278	4.506	0.2736	0.3031	45	1G	Y	Y

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
10176	1.201	3.924	0.2354	0.1799	45	1G	Y	N
10177	1.004	3.926	0.2352	0.1843	45	1G	Y	N
10190	1.142	4.526	0.2159	0.1970	45	1G	Y	N
10191	0.984	4.675	0.2148	0.2080	45	1G	Y	N
10192	1.180	4.747	0.2591	0.2500	45	1G	Y	N
10193	1.376	4.762	0.2730	0.2350	45	1G	Y	N
10195	1.299	4.110	0.2594	0.2094	45	1G	Y	N
10196	1.102	4.171	0.2580	0.2055	45	1G	Y	N
10197A	1.339	4.411	0.2161	0.1160	45	1G	NR	N
10198A	1.142	4.862	0.2148	0.2010	45	1G	NR	N
10206	1.339	4.080	0.2592	0.1992	45	1G	Y	N
10207	1.142	4.044	0.2579	0.1965	45	1G	Y	N
10213	1.646	4.085	0.2760	0.1600	44	1G	Y	N
10214	1.496	4.561	0.3132	0.1732	45	1G	NR	N
10215S	1.260	4.561	0.3121	0.1795	45	1G	NR	N
10216	1.575	4.560	0.3125	0.1783	45	1G	Y	N
10217	1.339	4.560	0.3115	0.1783	45	1G	Y	Y
10218	1.663	4.357	0.3130	0.1382	45	1G	Y	N
10219	1.736	4.280	0.3130	0.1382	45	1G	Y	N
10220S	1.413	4.340	0.3123	0.1390	45	1G	Y	N
10221S	1.453	4.260	0.3123	0.1390	45	1G	Y	Y
10224	1.181	3.632	0.2153	0.1500	45	1G	NR	N
10226	1.441	3.989	0.2743	0.2106	45	1G	Y	N
10227S	1.232	3.892	0.2736	0.2138	45	1G	Y	N
10228	1.339	3.991	0.2352	0.1870	45	1G	Y	N
10229	1.181	4.028	0.2343	0.1874	45	1G	Y	Y
10234	1.298	3.990	0.2352	0.1701	45	1G	Y	N
10235	1.103	3.997	0.2350	0.1693	45	1G	Y	N
10236	1.732	4.405	0.3164	0.2476	45	1G	Y	N
10237	1.417	4.397	0.3162	0.2492	45	1G	Y	N
10243	1.312	4.435	0.2746	0.1909	45	1G	Y	N
10244	1.417	4.482	0.2743	0.1917	45	1G	Y	N
10247	1.366	4.536	0.2350	0.3201	45	1G	Y	N
10248	1.217	4.747	0.2350	0.3189	45	1G	Y	N
10255	1.460	4.586	0.2744	0.2030	45	1G	Y	N
10256	1.185	4.569	0.2735	0.1360	45	1G	Y	N
10263	1.339	3.499	0.2348	0.1772	45	1G	Y	N
10268	1.658	4.899	0.3140	0.2228	45	1G	Y	N
10269	1.500	4.940	0.3130	0.2291	45	1G	Y	Y
10270	1.617	4.224	0.2744	0.2287	45	1G	Y	N
10271	1.381	4.261	0.2737	0.2319	45	1G	Y	Y
10273	1.339	4.780	0.2745	0.2311	45	1G	Y	N
10274S	1.575	4.820	0.3130	0.2295	45	1G	Y	Y
10275	1.575	4.609	0.3140	0.1862	45	1G	NR	N
10276S	1.339	4.606	0.3131	0.1854	45	1G	NR	N
10277	1.732	4.500	0.3139	0.1201	45	1G	Y	N
10278S	1.378	4.537	0.3130	0.1154	45	1G	Y	N
10281	1.657	4.945	0.2744	0.1748	45	1G	Y	N
10282	1.382	4.901	0.3137	0.1728	45	1G	Y	Y
10282S	1.382	4.901	0.3137	0.1728	45	1G	Y	N
10284	1.339	4.060	0.2354	0.1780	45	1G	Y	N
10285S	1.164	4.081	0.2343	0.1799	45	1G	Y	N
10288	1.496	4.609	0.3138	0.1834	45	1G	NR	N
10289S	1.260	4.605	0.3130	0.1815	45	1G	NR	Y
10299	1.280	3.976	0.2344	0.1819	45	1G	Y	N
10300	1.102	3.983	0.2344	0.1827	45	1G	Y	N
10302	1.181	4.509	0.2736	0.3067	45	1G	Y	Y
10305	1.339	3.743	0.2353	0.1815	45	1G	Y	N
10306S	1.073	3.727	0.2352	0.1846	45	1G	Y	N
10307	1.417	3.933	0.3137	0.1618	45	1G	NR	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
10308	1.142	3.934	0.3137	0.1630	45	1G	NR	Y
10309	0.945	3.612	0.2354	0.2917	45	1G	Y	N
10310	1.181	3.635	0.2349	0.2661	45	1G	Y	N
10311	1.220	3.636	0.2352	0.2717	45	1G	Y	N
10314	1.181	3.597	0.2353	0.1787	45	1G	Y	N
10315	0.967	3.618	0.2353	0.1799	45	1G	Y	N
10321	1.476	4.073	0.2352	0.1799	45	1G	Y	N
10322	1.575	4.262	0.3140	0.2787	45	1G	Y	N
10323	1.417	4.272	0.3140	0.2811	45	1G	Y	Y
10328A	1.770	4.494	0.3134	0.1878	45	1G	NR	N
10330A	1.457	4.420	0.3138	0.1890	45	1G	NR	N
10337	1.260	3.860	0.2350	0.2039	45	1G	Y	N
10338S	1.083	3.862	0.2350	0.2004	45	1G	Y	N
10339SA	1.654	4.101	0.3140	0.2598	45	1G	NR	N
10340A	1.378	4.103	0.3140	0.2610	45	1G	NR	Y
10342S	1.476	5.047	0.3130	0.2319	45	1G	Y	Y
10348	1.570	4.819	0.3134	0.1850	45	3G	N	N
10349S	1.334	4.829	0.3509	0.1874	45	3G	Y	N
10356S	1.299	3.591	0.3127	0.1260	45	3G	Y	N
10367	1.337	4.124	0.3138	0.1181	45	3G	N	N
10370S	1.227	4.116	0.3127	0.1102	45	3G	N	N
10373	1.651	4.035	0.2743	0.1600	45	3G	Y	N
10374S	1.415	4.035	0.2737	0.1610	45	3G	Y	N
10385	1.656	4.134	0.3163	0.2051	45	1G	Y	N
10385+15	1.656	4.134	0.3313	0.2051	45	1G	Y	N
10386	1.418	4.138	0.3153	0.1831	45	3G	Y	N
10386+15	1.418	4.138	0.3303	0.1831	45	3G	Y	N
10387	1.712	4.089	0.3163	0.2067	44.5	1G	Y	N
10387+15	1.713	4.094	0.3313	0.2071	45	1G	Y	N
10388	1.358	4.098	0.3153	0.1850	45	3G	Y	N
10388+15	1.358	4.098	0.3303	0.1850	45	3G	Y	N
10406	1.732	4.350	0.3135	0.1929	45	3G	Y	N
10407S	1.378	4.362	0.3131	0.1929	45	3G	Y	N
10413	1.299	4.481	0.2583	0.1701	45	1G	Y	N
10414	1.102	4.132	0.2580	0.2055	45	1G	Y	N
10420	1.063	3.876	0.2351	0.1810	44	1G	NR	N
10421	1.260	3.843	0.2353	0.1803	44	1G	NR	N
10432	1.260	4.411	0.2161	0.1165	45	1G	Y	N
10434	1.299	4.033	0.2157	0.1270	45	1G	Y	N
10435	1.103	4.037	0.2148	0.1240	45	1G	Y	N
10436	1.299	4.518	0.2157	0.1790	45	1G	Y	N
10437	1.104	4.635	0.2146	0.2213	45	1G	Y	N
10473	1.417	4.073	0.2353	0.1803	45	1G	Y	N
10474	1.201	4.091	0.2351	0.1780	45	1G	Y	N
10495	1.023	3.971	0.2585	0.1638	45	1G	Y	N
10496	1.220	3.969	0.2584	0.1642	45	1G	Y	N
10497	1.299	3.981	0.2576	0.1650	45	1G	Y	N
10498	1.181	4.338	0.2354	0.2524	45	1G	Y	N
10499	1.063	4.480	0.2345	0.2531	45	1G	Y	N
10500	1.375	4.186	0.2588	0.2016	45	1G	Y	N
10501	1.200	4.153	0.2576	0.2030	45	1G	Y	N
10502	1.339	3.898	0.2348	0.1626	45	1G	Y	N
10503	1.181	3.955	0.2347	0.1606	45	1G	Y	Y
10506	1.221	3.445	0.2354	0.1811	45	1G	Y	N
10507	0.965	3.466	0.2351	0.1811	45	1G	Y	N
10516	1.149	3.630	0.2154	0.2220	45	1G	Y	N
10517	0.986	3.147	0.2144	0.2250	45	1G	Y	Y
10518	1.319	3.882	0.2354	0.1811	45	1G	Y	N
10519	1.142	3.900	0.2352	0.1764	44	1G	Y	N
10520	1.272	3.996	0.2738	0.1910	45	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
10521	1.081	3.967	0.2732	0.1950	45	1G	Y	N
10522	1.575	5.469	0.2737	0.2374	45	1G	Y	N
10523	1.339	5.475	0.2730	0.2417	45	1G	Y	N
10524	1.181	4.668	0.2159	0.1180	45	1G	NR	N
10525	1.023	4.565	0.2148	0.1180	45	1G	NR	N
10534A	1.299	4.424	0.2348	0.2516	45	1G	NR	N
10535A	1.142	4.497	0.2344	0.2504	45	1G	NR	N
10536	0.984	3.646	0.2146	0.1512	45	1G	NR	N
10537	1.417	3.840	0.2350	0.1835	44	1G	Y	N
10538	1.232	3.744	0.2343	0.1819	44	1G	Y	N
10541	1.339	4.567	0.2161	0.1752	45	1G	NR	N
10542	1.142	4.496	0.2148	0.1752	45	1G	NR	N
10543	1.378	4.201	0.2155	0.1240	45	1G	Y	N
10544	1.181	4.210	0.2153	0.1240	45	1G	Y	N
10546	1.142	4.920	0.2148	0.2059	45	1G	Y	N
10547	1.079	3.898	0.2348	0.1968	45	1G	Y	N
10548	1.260	3.906	0.2340	0.2401	45	1G	Y	N
10549	1.260	3.870	0.2344	0.2102	45	1G	Y	N
10550	1.260	3.698	0.2352	0.1425	45	1G	Y	N
10551	1.086	3.741	0.2350	0.1417	45	1G	Y	N
10552	1.339	3.758	0.2157	0.1421	45	1G	Y	N
10553S	1.073	3.755	0.2155	0.1398	44.5	1G	Y	N
10554S	1.555	3.616	0.2742	0.1560	45	3G	N	N
10555S	1.295	3.589	0.2734	0.1260	45	3G	N	N
10556	1.535	4.171	0.2742	0.1180	45	3G	Y	N
10557S	1.346	4.211	0.2737	0.1180	45	3G	Y	N
10562	1.240	3.534	0.2350	0.1705	45	1G	Y	N
10563	1.089	3.543	0.2354	0.1705	45	1G	Y	N
10624	1.693	4.054	0.3137	0.1390	45	1G	Y	N
10625	1.378	4.042	0.3126	0.1390	45	1G	Y	N
10695	1.299	4.177	0.2349	0.1720	45	3G	Y	N
10696S	1.198	4.160	0.2343	0.1710	45	3G	Y	N
10723	1.257	4.031	0.2349	0.2770	45	1G	Y	N
10724	1.081	4.126	0.2339	0.2210	45	1G	Y	N
10725	1.772	5.034	0.3524	0.2260	45	1G	Y	Y
10726	1.476	5.030	0.3513	0.2236	45	1G	Y	N
10728S	1.476	5.028	0.3514	0.2258	45	1G	Y	N
10731	1.415	3.813	0.2741	0.1342	45	3G	Y	N
10732S	1.238	3.813	0.2733	0.1338	45	3G	Y	N
10733	1.555	3.616	0.2748	0.1359	45	3G	Y	N
10734S	1.295	3.589	0.2742	0.1080	45	3G	Y	N
10735	1.260	3.485	0.2155	0.1340	45	1G	Y	N
10736	1.081	3.491	0.2154	0.1340	45	1G	Y	N
10739	1.338	4.088	0.2347	0.1460	45	1G	Y	N
10740	1.142	4.073	0.2344	0.1470	45	1G	Y	N
10742	1.224	4.152	0.2592	0.2120	45	1G	Y	N
10744	1.553	4.429	0.3161	0.2783	45	1G	Y	N
10745	1.181	4.428	0.3152	0.2653	45	1G	Y	N
10748	1.492	4.318	0.3417	0.2000	45	1G	Y	N
10749	1.260	4.313	0.3410	0.1886	45	1G	Y	N
10750	1.492	4.320	0.3421	0.3913	45	1G	Y	N
10751	1.254	4.308	0.3422	0.3930	45	1G	Y	N
10752	1.653	4.345	0.3401	0.2170	45	1G	N	N
10753	1.260	4.355	0.3397	0.2100	45	1G	N	N
10754	1.692	4.318	0.3330	0.2823	45	2G	Y	N
10755	1.457	4.337	0.3331	0.1472	45	2G	Y	N
10756	1.689	4.312	0.3330	0.1840	45	1G	Y	N
10757	1.453	4.331	0.3330	0.1850	45	1G	Y	N
10758	1.493	4.074	0.3137	0.3059	45	2G	Y	N
10759	1.168	4.086	0.3132	0.3118	45	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
10760	1.496	4.072	0.3136	0.1807	45	1G	Y	N
10761	1.781	4.072	0.3139	0.1771	45	1G	Y	N
10762	1.652	4.753	0.3532	0.1680	46	1G	NR	N
10763	1.370	4.748	0.3530	0.1650	46	1G	NR	N
10766	1.689	5.748	0.3921	0.2400	45	1G	Y	N
10767S	1.610	5.748	0.3913	0.2400	45	1G	Y	N
10768	1.732	4.630	0.3531	0.1398	45	1G	N	N
10769	1.319	4.685	0.3524	0.1398	45	1G	N	Y
10770	1.535	4.567	0.3134	0.1299	45	1G	NR	N
10771	1.300	4.567	0.3130	0.1299	45	1G	NR	Y
10772	1.575	4.291	0.3138	0.1299	45	1G	NR	N
10773	1.338	4.291	0.3130	0.1299	45	1G	NR	Y
10778	1.378	4.567	0.2160	0.1815	45	1G	NR	N
10779	1.181	4.496	0.2148	0.1815	45	1G	NR	N
10780	1.220	3.490	0.2156	0.1350	45	1G	NR	N
10781	1.024	3.492	0.2155	0.1350	45	1G	NR	N
10784	1.260	4.020	0.2347	0.1260	45	3G	Y	N
10786	1.297	3.394	0.2349	0.1775	45	1G	Y	N
10787S	1.102	3.379	0.2339	0.1750	45	1G	Y	N
10788S	1.299	4.014	0.2351	0.2018	45	1G	Y	N
10792	1.441	3.986	0.2745	0.1930	45	1G	NR	N
10793S	1.232	3.889	0.2740	0.1920	45	1G	NR	N
10794	1.339	3.872	0.2350	0.1819	45	1G	NR	N
10795	1.181	3.909	0.2340	0.1840	45	1G	NR	N
10798	1.339	4.004	0.2155	0.1402	45	1G	NR	N
10799	1.161	3.982	0.2155	0.1350	45	1G	NR	N
10803S	1.177	4.090	0.2340	0.1570	45	3G	Y	N
10804S	1.059	4.137	0.2348	0.2220	45	3G	Y	N
10805S	1.177	4.090	0.2340	0.2220	45	3G	Y	N
10806	1.417	4.748	0.2344	0.1950	45	1G	NR	N
10807	1.239	4.791	0.2343	0.1898	45	1G	NR	N
10808	1.260	3.781	0.2350	0.1950	45	1G	NR	N
10809	1.083	3.823	0.2345	0.2165	45	1G	NR	N
10810	1.378	4.183	0.2585	0.2027	45	1G	NR	N
10811	1.201	4.150	0.2574	0.2010	45	1G	NR	N
10812	1.110	3.614	0.2345	0.2030	45	1G	NR	N
10813	0.984	3.638	0.2342	0.2010	45	1G	NR	N
10814	1.327	4.061	0.2352	0.1440	45	1G	NR	N
10815	1.140	4.093	0.2350	0.1440	45	1G	NR	N
10816	1.257	4.502	0.2349	0.2720	45	1G	NR	N
10817	1.081	4.598	0.2339	0.2205	45	1G	NR	N
13000	1.732	8.498	0.3435	0.5949	30	1G	Y	N
13001	1.556	8.497	0.3429	0.6150	30	1G	Y	N
13001S	1.556	8.497	0.3429	0.6150	30	1G	Y	N
13002	1.564	5.826	0.3121	0.4681	30	1G	Y	N
13003	1.439	5.811	0.3113	0.4681	45	1G	Y	N
13006	1.299	4.893	0.2756	0.3000	45	1G	Y	N
13006R	1.299	4.893	0.2756	0.3000	45	1G	NR	N
13013	1.830	4.724	0.3133	0.2000	45	1G	Y	N
13016	1.652	4.966	0.3404	0.3594	30	2G	N	N
13017	1.357	4.961	0.3404	0.3602	45	1G	N	N
13018	1.652	5.377	0.3404	0.3575	30	2G	N	N
13019	1.357	5.373	0.3404	0.3578	45	1G	N	N
13020	1.225	3.532	0.2742	0.3779	45	1G	NR	N
13021	1.084	3.532	0.2742	0.3779	45	1G	NR	N
13022	1.299	3.980	0.3134	0.2795	45	1G	NR	N
13023	1.063	3.980	0.3134	0.2795	45	1G	NR	N
13024	1.320	4.020	0.3135	0.2952	30	1G	NR	N
13025	1.122	4.023	0.3134	0.2952	45	1G	NR	N
13028	1.122	4.023	0.3135	0.2953	45	1G	NR	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
13032	1.756	7.417	0.3715	0.5677	30	2G	Y	N
13033	1.634	7.362	0.3717	0.5953	45	2G	Y	N
13038	1.150	3.783	0.2154	0.1358	45	1G	NR	N
13039	1.015	3.740	0.2143	0.1330	45	1G	NR	N
13040	2.165	4.870	0.3135	0.2040	45	1G	Y	N
13042	1.587	4.914	0.3136	0.2040	45	1G	Y	Y
13043	1.870	4.835	0.3136	0.2040	45	1G	Y	N
13044	1.523	4.803	0.3135	0.2040	45	1G	Y	Y
13046	1.323	4.252	0.2343	0.2460	44	3G	Y	N
13047	1.146	3.614	0.2345	0.2030	45	1G	NR	N
13051	1.654	5.236	0.3130	0.1968	30	1G	Y	N
13052	1.382	5.236	0.3130	0.1968	30	1G	Y	N
13053	1.220	4.646	0.3121	0.1968	44.5	1G	Y	N
13054	1.654	5.236	0.3129	0.1968	44.5	1G	Y	N
13055	1.673	4.656	0.3157	0.1693	30	1G	N	N
13056	1.398	4.409	0.3150	0.1614	45	1G	N	N
13057	1.850	5.096	0.3532	0.1905	30	1G	NR	N
13058	1.712	4.609	0.3138	0.1402	45	1G	NR	N
13059	1.496	4.609	0.3131	0.1835	45	1G	NR	N
13060	1.413	4.075	0.3139	0.1811	45	2G	NR	N
13061	1.476	4.509	0.3161	0.2716	30	1G	N	N
13062S	1.181	4.509	0.3152	0.2716	45	1G	Y	N
13063	1.732	4.725	0.3129	0.1969	29.75	1G	NR	N
13064	1.380	4.725	0.3129	0.1969	29.75	1G	NR	N
13065	1.854	4.657	0.3139	0.1970	45	1G	NR	N
13066	1.500	4.676	0.3130	0.1970	45	1G	NR	N
13068	1.594	4.746	0.3535	0.1370	44.5	1G	NR	N
13069	1.320	4.741	0.3527	0.1370	44.5	1G	NR	N
13070	1.169	4.076	0.3134	0.1811	44	2G	NR	N
13073	1.130	4.095	0.2740	0.1181	45	1G	NR	N
13074	1.032	4.114	0.2740	0.1181	45	1G	NR	N
13077	1.405	3.826	0.2351	0.1851	45	1G	NR	N
13078	1.206	3.891	0.2347	0.1851	45	1G	NR	N
13079	1.405	3.815	0.2349	0.1515	45	1G	NR	N
13080	1.206	3.856	0.2347	0.1535	45	1G	NR	N
13081	1.456	3.988	0.2346	0.3327	45	1G	Y	N
13082	1.205	3.824	0.2343	0.3327	45	1G	Y	Y
13083S	1.732	8.498	0.3435	0.5949	30	1G	Y	N
13084	1.503	3.909	0.2745	0.1397	45	1G	NR	N
13085	1.267	3.909	0.2735	0.1397	45	1G	NR	N
13086	1.496	4.165	0.2156	0.2618	45	1G	NR	N
13087	1.260	4.345	0.2155	0.2618	45	1G	NR	N
13088	1.437	4.210	0.2157	0.1338	45	1G	NR	N
13089S	1.161	4.165	0.2155	0.1339	45	1G	NR	N
13091	1.884	5.608	0.3520	0.2303	30	1G	Y	N
13092	1.624	5.578	0.3520	0.2500	45	1G	Y	N
13093	2.125	5.705	0.3912	0.2480	30	1G	Y	N
13094S	1.886	5.669	0.3907	0.2106	45	1G	Y	N
13095	1.791	4.872	0.3526	0.2185	30	1G	NR	N
13096	1.575	4.840	0.3518	0.2185	45	1G	NR	N
13097	1.884	5.294	0.3522	0.2303	30	1G	Y	N
13098	1.624	5.283	0.3522	0.2283	45	1G	Y	N
13099	1.412	4.602	0.3125	0.2126	45	2G	N	N
13100	1.190	4.608	0.3122	0.2066	45	1G	N	N
13101	1.534	4.499	0.3115	0.1800	45	1G	N	N
13102S	1.318	4.665	0.3115	0.1800	45	1G	Y	N
13103	1.535	4.500	0.3114	0.1811	35	1G	Y	N
13105	1.328	4.333	0.3410	0.2559	30	2G	N	N
13106S	1.203	4.358	0.3388	0.2315	44.5	1G	N	N
13111	1.440	4.855	0.3718	0.2035	45	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
13112	1.315	4.500	0.3114	0.1800	35	1G	N	N
13115	1.811	5.030	0.3526	0.2244	45	1G	NR	N
13117	1.929	5.275	0.3912	0.2421	30	1G	NR	N
13118S	1.815	5.193	0.3905	0.2389	45	1G	NR	Y
13120	1.476	5.030	0.3513	0.2236	45	1G	NR	N
13121	1.457	5.140	0.3130	0.4173	29.5	1G	NR	N
13122	1.456	5.128	0.3120	0.4173	45	1G	NR	N
13134S	1.496	5.119	0.3520	0.1905	45	1G	NR	N
13135	1.740	4.838	0.3729	0.2031	30	1G	Y	N
13136	1.693	4.842	0.3527	0.2204	30	1G	Y	N
13137	1.823	5.086	0.3529	0.2381	29.5	1G	NR	N
13138	1.634	5.086	0.3518	0.2381	29.5	1G	NR	N
13139S	1.417	4.169	0.2346	0.2519	45	1G	NR	N
13140S	1.260	4.181	0.2342	0.2540	45	1G	NR	N
13141	1.735	4.191	0.2747	0.1476	44.5	3G	Y	N
13142	1.465	4.185	0.2736	0.1476	44.5	3G	Y	N
13143	1.735	4.191	0.2747	0.1476	44.5	3G	Y	N
13151	1.756	7.417	0.3715	0.5677	30	2G	Y	N
13161	1.299	4.893	0.2756	0.3000	45	1G	Y	N
13162	1.496	5.423	0.3138	0.3350	30	1G	Y	N
13163	1.496	5.424	0.3138	0.3358	45	1G	Y	N
13168	1.646	4.085	0.2760	0.1598	44	1G	NR	N
13169S	1.437	4.095	0.2750	0.1543	44	1G	NR	N
13172	1.378	4.291	0.2157	0.1220	45	1G	NR	N
13173	1.181	4.280	0.2148	0.1220	45	1G	NR	N
13174	1.398	3.497	0.2748	0.0866	49.9	3G	N	N
13175S	1.238	3.480	0.2742	0.0826	49.9	3G	N	N
13176	1.732	7.717	0.3543	0.3012	29.5	1G	Y	N
13177S	1.575	6.398	0.3142	0.3543	29	1G	Y	N
13178S	1.575	6.398	0.3142	0.3543	29	1G	Y	N
13179	1.525	4.165	0.2347	0.2460	44	3G	Y	N
13182	1.339	5.138	0.2738	0.4366	37	1G	Y	N
13183	1.161	5.138	0.2738	0.4366	39.5	1G	Y	N
13190	1.378	4.456	0.2154	0.2024	44.5	1G	Y	N
13191	1.142	4.169	0.2151	0.1236	44.5	1G	Y	N
13192S	1.535	7.264	0.3150	0.4583	29.5	1G	Y	N
13193	1.417	7.269	0.3717	0.6141	44.25	2G	Y	N
13194	2.050	5.165	0.3127	0.1508	44.5	3G	Y	N
13195	1.552	5.139	0.3126	0.1504	45	3G	Y	N
13197	1.299	3.685	0.2350	0.1771	44.5	1G	NR	N
13198	1.102	3.673	0.2341	0.1771	44.5	1G	NR	N
13199	1.338	4.385	0.2350	0.2118	45	1G	NR	N
13200	1.200	4.472	0.2345	0.2118	45	1G	NR	N
13201	1.417	4.110	0.2345	0.1693	45	1G	NR	N
13203S	1.260	4.120	0.2343	0.1693	45	1G	NR	N
13204	1.386	3.984	0.2348	0.3327	45	1G	NR	N
13205	1.205	3.824	0.2344	0.3327	45	1G	NR	N
13206	2.079	4.961	0.3125	0.1535	44.5	3G	Y	N
13207	1.595	4.921	0.3125	0.1535	44.5	3G	Y	N
13208	1.476	4.185	0.2156	0.2578	44.5	1G	NR	N
13209	1.240	4.202	0.2154	0.2559	44.5	1G	NR	N
13210	1.457	3.988	0.2348	0.3327	45	1G	NR	N
13211	1.384	3.985	0.2348	0.3307	44.25	1G	NR	N
13212	1.205	3.748	0.2344	0.3307	44.25	1G	NR	Y
13213	1.337	4.185	0.2154	0.2165	45	1G	NR	N
13214	1.093	4.145	0.2151	0.2311	44.5	1G	NR	N
13215	1.398	3.960	0.2152	0.1220	45	1G	NR	N
13216	1.200	3.884	0.2142	0.1220	45	1G	NR	N
13219	1.616	4.843	0.3524	0.2165	30	1G	Y	N
13220	1.449	3.825	0.2352	0.1890	45	1G	NR	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
13221	1.195	3.730	0.2349	0.1890	45	1G	NR	N
13222	1.191	4.311	0.2340	0.2027	45	3G	Y	N
13223	0.915	4.659	0.2329	0.2028	45	3G	Y	N
13225	1.457	3.841	0.2160	0.1830	44.5	1G	NR	N
13226	1.220	3.756	0.2155	0.1831	44.5	1G	NR	N
13230	1.142	3.827	0.2343	0.3327	44.5	1G	NR	N
13231	1.693	5.175	0.3403	0.1929	45	1G	Y	N
13232S	1.427	5.175	0.3399	0.1929	45	1G	Y	Y
13233	1.226	4.006	0.1957	0.1654	44.5	1G	NR	N
13234	1.002	4.035	0.1954	0.1634	44.5	1G	NR	N
13237	1.463	3.798	0.2351	0.1909	44.5	1G	NR	N
13238	1.234	3.700	0.2348	0.1909	44.5	1G	NR	N
13239	2.165	4.890	0.3135	0.2248	45	1G	Y	N
13240	2.165	4.870	0.3135	0.2040	45	1G	NR	N
13241S	1.589	4.914	0.3136	0.2040	45	1G	Y	N
13243	1.142	3.678	0.2335	0.2460	45	1G	Y	N
13244	2.000	4.870	0.3135	0.2040	45	1G	NR	N
13246	1.457	5.337	0.2756	0.2657	29	1G	Y	N
13251	1.915	4.481	0.2734	0.2933	44.5	3G	Y	N
13252	1.457	4.539	0.2722	0.3890	44.5	3G	Y	N
13255	1.378	4.456	0.2154	0.2024	44.5	1G	NR	N
13256	1.142	4.169	0.2151	0.1236	44.5	1G	NR	N
13257	1.378	4.075	0.2151	0.1772	45	1G	NR	N
13258	1.201	4.063	0.2148	0.1772	45	1G	NR	N
13259	1.378	3.925	0.2151	0.7933	45	1G	NR	N
13260	1.201	4.142	0.2147	0.1791	45	1G	NR	N
13261	1.417	4.075	0.2150	0.1693	45	1G	NR	N
13262	1.260	4.063	0.2147	0.1673	45	1G	NR	N
13263	1.535	4.588	0.2350	0.4570	45	3G	NR	N
13264	1.181	4.551	0.2347	0.4335	45	3G	NR	N
13265	1.331	5.242	0.2748	0.6988	29.5	3G	Y	N
13266	1.195	5.242	0.2748	0.6988	44.5	3G	Y	N
13273	1.358	3.744	0.2156	0.1417	44.5	1G	NR	N
13274S	1.142	3.742	0.2155	0.1354	44.5	1G	NR	N
13276	1.375	3.303	0.2351	0.1575	45	1G	NR	N
13277	1.181	3.325	0.2342	0.1575	45	1G	NR	N
13280	1.634	7.372	0.3717	0.5953	45	2G	Y	N
13286	1.417	4.146	0.2154	0.1102	44.5	1G	NR	N
13287	1.220	4.156	0.2151	0.1102	44.5	1G	NR	N
13288	2.106	5.425	0.3127	0.1398	44.5	3G	NR	N
13289	1.654	5.348	0.3122	0.1398	44.5	3G	NR	N
13290S	2.106	5.425	0.3127	0.1398	44.5	3G	NR	N
13291S	1.654	5.348	0.3122	0.1398	44.5	3G	Y	N
13293	1.382	4.026	0.2348	0.2350	44.5	3G	NR	N
13294	1.457	4.719	0.2356	0.3898	45	3G	Y	N
13295	1.220	4.272	0.2346	0.3366	45	3G	Y	N
13300S	1.575	7.559	0.3137	0.5295	29.5	1G	Y	N
13301S	1.575	7.547	0.3132	0.5295	44.5	1G	Y	N
13302	1.220	4.102	0.2350	0.2165	44.5	3G	Y	N
13303	1.063	4.067	0.2346	0.2165	44.5	3G	NR	N
13304S	1.063	4.067	0.2346	0.2165	44.5	3G	Y	N
13305	1.378	4.071	0.2354	0.1839	45	1G	NR	N
13306	1.181	4.120	0.2352	0.1772	45	1G	NR	N
13307S	1.694	7.051	0.3725	0.5087	20	1G	Y	N
13308	1.870	8.503	0.3789	0.4669	20	1G	Y	N
13309S	1.790	8.810	0.3789	0.7579	45	1G	Y	N
13310	1.307	5.368	0.2354	0.2027	44.5	3G	N	N
13311S	1.189	5.362	0.2350	0.2028	44.5	3G	N	N
13312	1.307	4.034	0.2354	0.2028	44.5	3G	N	N
13313S	1.189	4.024	0.2350	0.2028	44.5	3G	N	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
13314	1.333	4.094	0.2354	0.2181	45	3G	N	N
13315S	1.333	4.095	0.2354	0.2173	45	3G	N	N
13316SN	1.102	4.011	0.2348	0.2177	45	3G	Y	N
13317	1.276	4.094	0.2353	0.2204	45	3G	N	N
13318	1.102	4.012	0.2348	0.2181	45	3G	Y	N
13319S	1.059	3.799	0.2348	0.1575	45	3G	N	N
13320SN	1.177	3.736	0.2340	0.1575	45	3G	N	N
13321	1.181	3.819	0.1954	0.2224	44.25	3G	N	N
13322S	0.990	4.362	0.1953	0.2224	44.25	3G	N	N
13323	1.134	4.163	0.1956	0.2224	44.25	3G	N	N
13324	1.169	3.740	0.1954	0.2224	44.25	3G	N	N
13325SN	1.031	4.337	0.1952	0.2224	44.25	3G	N	N
13326	1.457	3.920	0.2741	0.4528	45	1G	NR	N
13327	1.299	3.920	0.2734	0.4528	45	1G	NR	N
13329	1.378	4.258	0.2343	0.2953	30	3G	NR	N
13330	1.299	4.249	0.2337	0.2953	45	3G	NR	N
13331	1.380	4.025	0.2348	0.2350	45	3G	Y	N
13332SN	1.185	3.972	0.2340	0.2360	45	3G	Y	N
13333	1.510	3.962	0.2346	0.3310	44.5	1G	NR	N
13334	1.457	3.988	0.2348	0.3327	44.25	1G	NR	N
13335	1.205	3.824	0.2344	0.3327	44.25	1G	NR	Y
13336	1.417	4.606	0.2161	0.1732	44.75	1G	NR	N
13337	1.415	3.524	0.2748	0.0835	45	3G	N	N
13338S	1.238	3.504	0.2739	0.0835	45	3G	N	N
13340	1.228	4.614	0.1958	0.4094	44.5	3G	Y	N
13341S	1.083	4.577	0.1952	0.4094	45	3G	Y	N
13342	1.232	4.032	0.1958	0.0984	44.5	3G	NR	N
13343	1.083	4.007	0.1952	0.0984	44.5	3G	NR	N
13344	1.457	3.841	0.2160	0.1831	44.5	1G	NR	N
13345S	1.220	3.756	0.2155	0.1831	44.5	1G	Y	N
13347	1.437	4.344	0.2352	0.2500	44.5	1G	NR	N
13348	1.260	4.414	0.2345	0.2500	44.5	1G	NR	Y
13349	1.437	4.303	0.2352	0.2165	44.5	1G	NR	N
13350	1.260	4.468	0.2345	0.3051	44.5	1G	NR	Y
13354	1.856	9.449	0.3725	1.3780	20	1G	Y	N
13355S	1.778	9.705	0.3717	1.6340	30	1G	Y	N
13356	1.122	4.028	0.2349	0.3602	45	3G	Y	N
13357	1.000	4.028	0.2346	0.3681	45	3G	Y	N
13358	1.417	4.283	0.2157	0.1180	45	1G	NR	N
13359	1.220	4.280	0.2148	0.1180	45	1G	NR	N
13360	1.339	5.069	0.3127	0.4409	20	1G	Y	N
13361	1.496	6.010	0.3123	0.3295	45	1G	Y	N
13363	1.831	5.083	0.3529	0.3228	45	3G	NR	N
13364	1.638	5.055	0.3523	0.2937	29.5	3G	NR	N
13365	1.260	4.305	0.2157	0.2559	44.5	1G	NR	N
13366	1.084	4.262	0.2155	0.2559	44.5	1G	NR	N
13367	1.102	3.695	0.1952	0.1969	44.5	3G	NR	N
13368S	0.984	3.695	0.1944	0.1969	44.5	3G	Y	N
13369	0.984	3.695	0.1944	0.1969	44.5	3G	NR	N
13370	1.575	6.315	0.3531	0.4429	30	3G	Y	N
13371	1.496	6.315	0.3526	0.4429	45	3G	Y	N
13373	1.457	4.862	0.2756	0.2618	29.5	1G	Y	N
13374	1.339	4.797	0.2750	0.1909	29.25	1G	Y	N
13375S	1.575	7.560	0.3136	0.4882	30	3G	Y	N
13376S	1.496	7.587	0.3133	0.4882	29.5	3G	Y	N
13377S	1.654	7.555	0.3136	0.4882	24.5	3G	Y	N
13378S	1.575	7.543	0.3133	0.4882	39.5	3G	Y	N
13379	1.791	5.709	0.3520	0.4880	30	1G	Y	N
13380	1.661	5.709	0.3518	0.4880	36	1G	Y	N
13381	1.780	9.449	0.3725	1.3780	19.5	1G	Y	N

Valve Numerical Listing

SBI Part #	Head Dia.	Overall Length	Stem Dia.	Tip to Groove	Seat Angle	Stem Type	Chrome Plated NR=Nitrided	Wafer Tip
13382	1.697	9.705	0.3717	1.6340	29.5	1G	Y	N
13383	1.728	5.039	0.3134	0.1378	45	1G	NR	N
13384	1.492	5.039	0.3127	0.1378	44.75	1G	N	N
13385	1.776	6.673	0.3523	0.3740	30	1G	NR	N
13386S	1.736	6.673	0.3521	0.3740	45	1G	NR	Y
13387	1.728	5.039	0.3132	0.1378	29.75	1G	NR	N
13388S	1.492	5.039	0.3126	0.1378	44.75	1G	NR	Y
13389	1.776	6.697	0.3522	0.4724	30	1G	NR	N
13390S	1.736	6.724	0.3522	0.4724	45	1G	NR	N
13391S	1.736	6.770	0.3521	0.4724	45	1G	NR	Y
13392	1.732	5.276	0.3128	0.1969	30	1G	NR	N
13393	1.811	5.276	0.3128	0.1969	30	1G	NR	N
13394	1.457	5.276	0.3123	0.1969	30	1G	NR	N
13397	1.142	4.169	0.2151	0.1236	44.5	1G	NR	N
13398	1.337	4.185	0.2154	0.1634	44.5	1G	NR	N
13399	1.093	4.146	0.2151	0.1791	44.5	1G	NR	N
13400	1.417	5.004	0.2155	0.4181	45	3G	Y	N
13401	1.417	4.299	0.2154	0.2047	44.5	3G	Y	N
13402	1.142	4.728	0.2150	0.3937	44.5	3G	Y	N
13403	1.437	4.632	0.2741	0.2146	30	1G	NR	N
13404	1.220	4.626	0.2737	0.2146	45	1G	NR	N
13405	1.299	4.045	0.2741	0.1594	30	1G	NR	N
13406	1.102	4.045	0.2737	0.1594	45	1G	NR	N
13407	1.102	3.953	0.2347	0.1988	30	1G	NR	N
13408	0.965	3.947	0.2343	0.1988	45	1G	NR	N
13409	1.752	4.965	0.3527	0.1654	30	1G	NR	N
13410	1.535	4.957	0.3524	0.1654	45	1G	NR	N
13411	1.614	4.528	0.3140	0.1594	30	1G	NR	N
13412	1.378	4.528	0.3135	0.1594	45	1G	NR	N
13413	1.496	4.291	0.3140	0.1555	30	1G	NR	N
13414	1.417	4.291	0.3140	0.1575	30	1G	NR	N
13415	1.378	4.291	0.3140	0.1575	30	1G	NR	N
13416	1.181	4.285	0.3135	0.1555	45	1G	Y	Y
13417	1.417	5.333	0.2753	0.2669	29.5	1G	Y	N
13420	1.634	5.886	0.3150	0.4583	29.5	1G	Y	N
13421	1.476	5.886	0.3150	0.4583	44.25	1G	Y	N
13424	1.618	5.709	0.3518	0.4330	45	1G	Y	N
20525	1.023	4.565	0.2148	0.1180	45	1G	NR	N
21018	1.090	5.552	0.2484	0.3100	30	1G	N	N
21037	1.889	6.864	0.4960	0.2660	30	1G	N	N
21235S	1.660	5.367	0.3716	0.2200	20	1G	NR	N
21366	1.380	5.528	0.3104	0.3100	30	1G	N	N
21375	1.715	6.133	0.3720	0.3250	44	1G	Y	N
21377	1.715	6.208	0.3720	0.3250	29	1G	Y	N
21412	1.875	6.655	0.4342	0.3752	29	1G	Y	N
21446	1.889	6.864	0.4955	0.2920	30	1G	Y	N
21500	1.180	5.529	0.3104	0.3100	30	1G	N	N
21547	1.654	4.983	0.3419	0.4000	44	1G	Y	N
21570	1.573	6.867	0.3715	0.4095	30	1G	Y	N
21586	1.850	6.174	0.3720	0.3248	30	1G	Y	N
21661S	1.870	7.726	0.3789	0.4120	30	1G	N	N
21750	1.573	6.887	0.3715	0.4095	29.75	1G	Y	N
21911	1.850	7.951	0.3717	0.5622	29	2G	Y	N
21912	1.646	7.953	0.3717	0.6040	44	2G	Y	N
22040S	1.142	3.634	0.2340	0.1260	45	3G	Y	N
22095	1.573	6.992	0.3715	0.5095	30	1G	Y	N

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
0.906	0.3100	3.390	45	1G	00485	1.093	0.2151	4.145	44.5	1G	13214
0.915	0.2329	4.659	45	3G	13223	1.093	0.2151	4.146	44.5	1G	13399
0.945	0.2354	3.612	45	1G	10309	1.094	0.2154	3.798	45	1G	02194
0.965	0.2343	3.947	45	1G	13408	1.094	0.2329	4.178	45	3G	01921
0.965	0.2351	3.466	45	1G	10507	1.094	0.3100	3.395	45	1G	00230
0.965	0.2351	3.699	45	1G	10138	1.102	0.1952	3.695	44.5	3G	13367
0.967	0.2353	3.618	45	1G	10315	1.102	0.2144	3.311	45	1G	10170
0.980	0.2141	3.764	45	1G	02195	1.102	0.2339	3.379	45	1G	10787S
0.984	0.1944	3.695	44.5	3G	13368S	1.102	0.2341	3.673	44.5	1G	13198
0.984	0.1944	3.695	44.5	3G	13369	1.102	0.2344	3.983	45	1G	10300
0.984	0.2146	3.646	45	1G	10536	1.102	0.2347	3.953	30	1G	13407
0.984	0.2148	4.675	45	1G	10191	1.102	0.2348	4.011	45	3G	13316SN
0.984	0.2342	3.638	45	1G	10813	1.102	0.2348	4.012	45	3G	13318
0.986	0.2144	3.147	45	1G	10517	1.102	0.2369	3.801	45	1G	01746
0.990	0.1953	4.362	44.25	3G	13322S	1.102	0.2580	4.132	45	1G	10414
1.000	0.2346	4.028	45	3G	13357	1.102	0.2580	4.171	45	1G	10196
1.002	0.1954	4.035	44.5	1G	13234	1.102	0.2737	4.045	45	1G	13406
1.004	0.1957	3.461	45	1G	02240	1.102	0.2737	5.059	37.5	1G	02180
1.004	0.2352	3.926	45	1G	10177	1.102	0.2737	5.059	37.5	1G	02180R
1.015	0.2143	3.740	45	1G	13039	1.103	0.2148	4.037	45	1G	10435
1.015	0.3128	3.938	45	DR	00234	1.103	0.2335	3.678	45	1G	02054
1.015	0.3128	4.077	44	1G	00489	1.103	0.2350	3.997	45	1G	10235
1.021	0.2337	4.014	45	1G	02250S	1.103	0.2735	4.120	45	1G	10153
1.023	0.2148	4.565	45	1G	10525	1.104	0.2146	4.635	45	1G	10437
1.023	0.2148	4.565	45	1G	20525	1.110	0.2345	3.614	45	1G	10812
1.023	0.2346	4.545	44	3G	01729	1.120	0.2329	4.324	45	3G	02009
1.023	0.2585	3.971	45	1G	10495	1.120	0.2329	4.324	45	3G	02035
1.024	0.2155	3.492	45	1G	10781	1.120	0.2740	4.108	45.5	1G	02235
1.031	0.1952	4.337	44.25	3G	13325SN	1.122	0.2349	4.028	45	3G	13356
1.031	0.2350	4.150	45	1G	10159	1.122	0.2353	3.681	45	1G	10137
1.032	0.2740	4.114	45	1G	13074	1.122	0.3134	4.023	45	1G	13025
1.059	0.2348	3.799	45	3G	13319S	1.122	0.3135	4.023	45	1G	13028
1.059	0.2348	4.137	45	3G	10804S	1.124	0.2345	3.999	45	1G	02247
1.063	0.2345	4.480	45	1G	10499	1.130	0.2328	4.614	45	1G	01742
1.063	0.2346	4.067	44.5	3G	13303	1.130	0.2329	4.614	45	3G	01992
1.063	0.2346	4.067	44.5	3G	13304S	1.130	0.2740	4.095	45	1G	13073
1.063	0.2351	3.876	44	1G	10420	1.134	0.1956	4.163	44.25	3G	13323
1.063	0.2352	3.993	45	1G	02197	1.140	0.2350	4.093	45	1G	10815
1.063	0.3134	3.980	45	1G	13023	1.140	0.3128	4.084	44	1G	00486
1.073	0.2155	3.755	44.5	1G	10553S	1.140	0.3130	4.083	44	1G	10034S
1.073	0.2337	3.982	45	1G	02248S	1.141	0.2328	4.238	44.5	1G	01937
1.073	0.2352	3.727	45	1G	10306S	1.142	0.2148	4.496	45	1G	10542
1.079	0.2348	3.898	45	1G	10547	1.142	0.2148	4.862	45	1G	10198A
1.080	0.2344	3.772	45	1G	01950	1.142	0.2148	4.920	45	1G	10546
1.081	0.2154	3.491	45	1G	10736	1.142	0.2150	4.398	45	1G	02178S
1.081	0.2339	4.126	45	1G	10724	1.142	0.2150	4.728	44.5	3G	13402
1.081	0.2339	4.598	45	1G	10817	1.142	0.2151	4.169	44.5	1G	13191
1.081	0.2732	3.967	45	1G	10521	1.142	0.2151	4.169	44.5	1G	13256
1.083	0.1952	4.007	44.5	3G	13343	1.142	0.2151	4.169	44.5	1G	13397
1.083	0.1952	4.577	45	3G	13341S	1.142	0.2155	3.742	44.5	1G	13274S
1.083	0.2345	3.823	45	1G	10809	1.142	0.2159	4.526	45	1G	10190
1.083	0.2350	3.862	45	1G	10338S	1.142	0.2335	3.564	45	1G	01706
1.084	0.2155	4.262	44.5	1G	13366	1.142	0.2335	3.678	45	1G	13243
1.084	0.2578	4.201	45	1G	10123	1.142	0.2340	3.634	45	3G	02040S
1.084	0.2742	3.532	45	1G	13021	1.142	0.2340	3.634	45	3G	22040S
1.086	0.2350	3.741	45	1G	10551	1.142	0.2343	3.827	44.5	1G	13230
1.089	0.2354	3.543	45	1G	10563	1.142	0.2344	4.073	45	1G	10740
1.090	0.2484	5.552	30	1G	00759	1.142	0.2344	4.497	45	1G	10535A
1.090	0.2484	5.552	30	1G	01018	1.142	0.2352	3.900	44	1G	10519
1.090	0.2484	5.552	30	1G	21018	1.142	0.2579	4.044	45	1G	10207

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.142	0.2722	4.959	45	3G	01713	1.200	0.2142	3.884	45	1G	13216
1.142	0.3137	3.934	45	1G	10308	1.200	0.2345	4.472	45	1G	13200
1.146	0.2345	3.614	45	1G	13047	1.200	0.2576	4.153	45	1G	10501
1.149	0.2154	3.630	45	1G	10516	1.201	0.2147	4.142	45	1G	13260
1.150	0.2154	3.783	45	1G	13038	1.201	0.2148	4.063	45	1G	13258
1.156	0.3410	4.942	45	1G	00312	1.201	0.2328	4.324	45	1G	01731
1.161	0.2155	3.982	45	1G	10799	1.201	0.2339	4.246	44	3G	01999
1.161	0.2155	4.165	45	1G	13089S	1.201	0.2351	4.091	45	1G	10474
1.161	0.2738	5.138	39.5	1G	13183	1.201	0.2354	3.924	45	1G	10176
1.164	0.2343	4.081	45	1G	10285S	1.201	0.2574	4.150	45	1G	10811
1.168	0.3132	4.086	45	1G	10759	1.201	0.2575	4.319	45	1G	10128A
1.169	0.1954	3.740	44.25	3G	13324	1.203	0.3145	4.016	30	1G	01365
1.169	0.3134	4.076	44	2G	13070	1.203	0.3381	5.179	45	DR	00170
1.177	0.2340	3.736	45	3G	13320SN	1.203	0.3381	5.190	45	1G	01147
1.177	0.2340	4.090	45	3G	10803S	1.203	0.3381	5.190	45	1G	01693S
1.177	0.2340	4.090	45	3G	10805S	1.203	0.3387	4.993	45	1G	00268
1.180	0.2591	4.747	45	1G	10192	1.203	0.3388	4.358	44.5	1G	13106S
1.180	0.3104	5.529	30	1G	01429S	1.205	0.1957	3.514	45	1G	02241
1.180	0.3104	5.529	30	1G	01500	1.205	0.2343	3.824	45	1G	13082
1.180	0.3104	5.529	30	1G	21500	1.205	0.2344	3.748	44.25	1G	13212
1.181	0.1954	3.819	44.25	3G	13321	1.205	0.2344	3.824	44.25	1G	13335
1.181	0.2148	4.280	45	1G	13173	1.205	0.2344	3.824	45	1G	13205
1.181	0.2148	4.496	45	1G	10779	1.206	0.2347	3.856	45	1G	13080
1.181	0.2153	3.632	45	1G	10224	1.206	0.2347	3.891	45	1G	13078
1.181	0.2153	4.120	45	1G	02007	1.215	0.1952	3.989	45	1G	02193
1.181	0.2153	4.210	45	1G	10544	1.217	0.2350	4.747	45	1G	10248
1.181	0.2159	4.668	45	1G	10524	1.217	0.2591	4.157	45	1G	10122
1.181	0.2340	3.909	45	1G	10795	1.219	0.3410	4.844	45	1G	00161
1.181	0.2342	3.325	45	1G	13277	1.220	0.2148	4.280	45	1G	13359
1.181	0.2343	4.028	45	1G	10229	1.220	0.2151	4.156	44.5	1G	13287
1.181	0.2346	4.546	45	3G	01788	1.220	0.2155	3.756	44.5	1G	13226
1.181	0.2347	3.955	45	1G	10503	1.220	0.2155	3.756	44.5	1G	13345S
1.181	0.2347	4.551	45	3G	13264	1.220	0.2156	3.490	45	1G	10780
1.181	0.2349	3.635	45	1G	10310	1.220	0.2346	4.272	45	3G	13295
1.181	0.2352	4.120	45	1G	13306	1.220	0.2350	4.102	44.5	3G	13302
1.181	0.2353	3.597	45	1G	10314	1.220	0.2352	3.636	45	1G	10311
1.181	0.2354	4.338	45	1G	10498	1.220	0.2354	4.148	45	1G	10157
1.181	0.2736	4.509	45	1G	10302	1.220	0.2584	3.969	45	1G	10496
1.181	0.2738	4.510	45	1G	10102S	1.220	0.2730	4.963	45	1G	02176
1.181	0.2740	4.578	44	3G	01708	1.220	0.2730	4.963	45	1G	02176R
1.181	0.3135	4.285	45	1G	13416	1.220	0.2737	4.626	45	1G	13404
1.181	0.3152	4.428	45	1G	10745	1.220	0.2740	4.140	45	1G	10104
1.181	0.3152	4.509	45	1G	13062S	1.220	0.2745	4.212	44	1G	10106
1.182	0.2743	4.311	44	1G	01674	1.220	0.3121	4.646	44.5	1G	13053
1.185	0.2153	3.614	45	1G	02246	1.220	0.3125	3.936	45	1G	10129
1.185	0.2340	3.972	45	3G	13332SN	1.220	0.3126	4.028	45	1G	10083
1.185	0.2343	3.975	45	3G	02010	1.221	0.2354	3.445	45	1G	10506
1.185	0.2343	3.975	45	3G	02010S	1.221	0.2575	4.319	45	1G	10128R
1.185	0.2735	4.299	45	1G	02244	1.224	0.2592	4.152	45	1G	10742
1.185	0.2735	4.569	45	1G	10256	1.225	0.2742	3.532	45	1G	13020
1.188	0.3132	4.083	44	1G	10033S	1.226	0.1957	4.006	44.5	1G	13233
1.189	0.2350	4.024	44.5	3G	13313S	1.227	0.3127	4.116	45	3G	10370S
1.189	0.2350	5.362	44.5	3G	13311S	1.228	0.1958	4.614	44.5	3G	13340
1.189	0.2740	4.095	45	1G	02234	1.229	0.2335	4.188	45	1G	01739
1.190	0.3122	4.608	45	1G	13100	1.230	0.2736	3.813	45	1G	02182S
1.191	0.2340	4.311	45	3G	13222	1.232	0.1958	4.032	44.5	3G	13342
1.193	0.2345	4.032	45	1G	02249	1.232	0.2343	3.744	44	1G	10538
1.195	0.2349	3.730	45	1G	13221	1.232	0.2736	3.892	45	1G	10227S
1.195	0.2748	5.242	44.5	3G	13266	1.232	0.2740	3.889	45	1G	10793S
1.198	0.2343	4.160	45	3G	10696S	1.234	0.2348	3.700	44.5	1G	13238

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.238	0.2733	3.813	45	3G	10732S	1.299	0.2349	4.177	45	3G	10695
1.238	0.2739	3.504	45	3G	13338S	1.299	0.2350	3.685	44.5	1G	13197
1.238	0.2742	3.480	49.9	3G	13175S	1.299	0.2351	4.014	45	1G	10788S
1.238	0.2743	4.309	44	1G	01727	1.299	0.2576	3.981	45	1G	10497
1.239	0.2343	4.791	45	1G	10807	1.299	0.2583	4.481	45	1G	10413
1.240	0.2154	4.202	44.5	1G	13209	1.299	0.2594	4.110	45	1G	10195
1.240	0.2350	3.534	45	1G	10562	1.299	0.2734	3.920	45	1G	13327
1.240	0.2352	4.052	45	1G	02196	1.299	0.2739	4.975	45	1G	02175
1.250	0.3085T	4.771	45	1G	00598S	1.299	0.2739	4.975	45	1G	02175R
1.250	0.3095	4.438	45	1G	01041	1.299	0.2741	4.045	30	1G	13405
1.254	0.3422	4.308	45	1G	10751	1.299	0.2756	4.893	45	1G	02015
1.257	0.2349	4.031	45	1G	10723	1.299	0.2756	4.893	45	1G	13006
1.257	0.2349	4.502	45	1G	10816	1.299	0.2756	4.893	45	1G	13006R
1.260	0.2147	4.063	45	1G	13262	1.299	0.2756	4.893	45	1G	13161
1.260	0.2155	3.485	45	1G	10735	1.299	0.2756	4.907	30	1G	02014
1.260	0.2155	4.345	45	1G	13087	1.299	0.2756	4.907	30	1G	02014R
1.260	0.2157	4.305	44.5	1G	13365	1.299	0.3127	3.591	45	3G	10356S
1.260	0.2161	4.411	45	1G	10432	1.299	0.3134	3.980	45	1G	13022
1.260	0.2340	3.906	45	1G	10548	1.300	0.3130	4.567	45	1G	10771
1.260	0.2342	4.181	45	1G	13140S	1.300	0.3423	4.680	30	1G	01322
1.260	0.2343	4.120	45	1G	13203S	1.300	0.3720	6.063	45	1G	00592
1.260	0.2344	3.870	45	1G	10549	1.307	0.2354	4.034	44.5	3G	13312
1.260	0.2345	4.414	44.5	1G	13348	1.307	0.2354	5.368	44.5	3G	13310
1.260	0.2345	4.468	44.5	1G	13350	1.307	0.3413	4.730	45	2G	01394
1.260	0.2347	4.020	45	3G	10784	1.308	0.2335	4.169	45	1G	01707
1.260	0.2350	3.781	45	1G	10808	1.309	0.2340	4.513	45	1G	01741
1.260	0.2350	3.860	45	1G	10337	1.309	0.2340	4.513	45	3G	01991
1.260	0.2352	3.698	45	1G	10550	1.312	0.2746	4.435	45	1G	10243
1.260	0.2353	3.843	44	1G	10421	1.312	0.3410	5.281	44	2G	00503
1.260	0.2356	4.520	44	3G	01728	1.313	0.3085	4.771	45	1G	00249
1.260	0.2376	3.823	45	1G	01745	1.313	0.3412	4.906	45	1G	00154
1.260	0.2739	4.100	45	1G	01702	1.315	0.3114	4.500	35	1G	13112
1.260	0.3121	4.561	45	1G	10215S	1.315	0.3115	4.499	45	1G	00873
1.260	0.3130	4.605	45	1G	10289S	1.318	0.3115	4.665	45	1G	13102S
1.260	0.3397	4.355	45	1G	10753	1.319	0.2354	3.882	45	1G	10518
1.260	0.3410	4.313	45	1G	10749	1.319	0.3524	4.685	45	1G	10769
1.261	0.2745	4.144	45	1G	10118	1.320	0.3135	4.020	30	1G	13024
1.267	0.2735	3.909	45	1G	13085	1.320	0.3527	4.741	44.5	1G	13069
1.268	0.3100	4.260	45	1G	00564	1.323	0.2343	4.252	44	3G	13046
1.269	0.3153	4.162	44	3G	01300	1.327	0.2352	4.061	45	1G	10814
1.270	0.3387	5.325	45	1G	00683	1.328	0.3387	5.197	44	DR	00196
1.272	0.2349	3.800	45	1G	01949	1.328	0.3387	5.198	44	1G	00210
1.272	0.2738	3.996	45	1G	10520	1.328	0.3410	4.333	30	2G	13105
1.276	0.2353	4.094	45	3G	13317	1.328	0.3411	4.957	30	1G	00269
1.278	0.2736	4.506	45	1G	10173S	1.331	0.2340	4.257	45	3G	01920
1.278	0.3146	3.977	30	DR	00343	1.331	0.2356	4.618	44.5	3G	02118
1.280	0.2344	3.976	45	1G	10299	1.331	0.2356	4.618	45	3G	02118S
1.280	0.2747	4.559	45	1G	10162	1.331	0.2748	5.242	29.5	3G	13265
1.281	0.3095	4.505	45	1G	00310	1.333	0.2354	4.094	45	3G	13314
1.281	0.3410	4.807	45	1G	00220	1.333	0.2354	4.095	45	3G	13315S
1.283	0.3410	4.700	45	TA	00270	1.334	0.3509	4.829	45	3G	10349S
1.295	0.2734	3.589	45	3G	10555S	1.337	0.2154	4.185	44.5	1G	13398
1.295	0.2742	3.589	45	3G	10734S	1.337	0.2154	4.185	45	1G	13213
1.297	0.2349	3.394	45	1G	10786	1.337	0.3138	4.124	45	3G	10367
1.297	0.3162	4.206	45	1G	10060S	1.338	0.2347	4.088	45	1G	10739
1.298	0.2352	3.990	45	1G	10234	1.338	0.2350	4.385	45	1G	13199
1.299	0.2157	4.033	45	1G	10434	1.338	0.3130	4.291	45	1G	10773
1.299	0.2157	4.518	45	1G	10436	1.339	0.2153	4.392	45	1G	02177
1.299	0.2337	4.249	45	3G	13330	1.339	0.2155	4.004	45	1G	10798
1.299	0.2348	4.424	45	1G	10534A	1.339	0.2157	3.758	45	1G	10552

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.339	0.2161	4.411	45	1G	10197A	1.378	0.2156	3.640	45	1G	02245
1.339	0.2161	4.567	45	1G	10541	1.378	0.2156	4.073	45	1G	02006
1.339	0.2348	3.499	45	1G	10263	1.378	0.2157	4.291	45	1G	13172
1.339	0.2348	3.898	45	1G	10502	1.378	0.2160	4.567	45	1G	10778
1.339	0.2350	3.872	45	1G	10794	1.378	0.2343	4.258	30	3G	13329
1.339	0.2352	3.991	45	1G	10228	1.378	0.2354	4.071	45	1G	13305
1.339	0.2353	3.743	45	1G	10305	1.378	0.2356	4.510	45	3G	01787
1.339	0.2354	4.060	45	1G	10284	1.378	0.2585	4.183	45	1G	10810
1.339	0.2587	4.317	45	1G	10126A	1.378	0.2587	4.317	45	1G	10126R
1.339	0.2592	4.080	45	1G	10206	1.378	0.2594	4.445	45	1G	10078
1.339	0.2730	5.475	45	1G	10523	1.378	0.2734	4.516	45	3G	01712
1.339	0.2737	5.058	30	1G	02179	1.378	0.3126	4.012	45	1G	10148
1.339	0.2737	5.058	30	1G	02179R	1.378	0.3126	4.042	45	1G	10625
1.339	0.2738	5.138	37	1G	13182	1.378	0.3126	4.277	45	1G	10142
1.339	0.2740	4.607	45	3G	01698	1.378	0.3130	4.537	45	1G	10278S
1.339	0.2740	4.622	45	3G	01698S	1.378	0.3131	4.362	45	3G	10407S
1.339	0.2745	4.575	45	1G	10163	1.378	0.3135	4.528	45	1G	13412
1.339	0.2745	4.575	45	1G	10164	1.378	0.3140	4.103	45	1G	10340A
1.339	0.2745	4.780	45	1G	10273	1.378	0.3140	4.291	30	1G	13415
1.339	0.2750	4.797	29.25	1G	13374	1.380	0.2348	4.025	45	3G	13331
1.339	0.3115	4.560	45	1G	10217	1.380	0.3104	5.528	30	1G	01366
1.339	0.3127	5.069	20	1G	13360	1.380	0.3104	5.528	30	1G	21366
1.339	0.3130	4.363	45	1G	10086	1.380	0.3129	4.725	29.75	1G	13064
1.339	0.3131	4.606	45	1G	10276S	1.380	0.3414	4.807	44	4G	01527
1.339	0.3152	5.271	45	3G	01545	1.381	0.2737	4.261	45	1G	10271
1.342	0.3410	4.832	45	1G	00162	1.382	0.2347	4.026	44.8	3G	01997
1.342	0.3410	4.941	45	2G	00313	1.382	0.2348	4.026	44.5	3G	13293
1.346	0.2737	4.211	45	3G	10557S	1.382	0.3130	5.236	30	1G	13052
1.357	0.3404	4.961	45	1G	13017	1.382	0.3131	4.619	45	1G	10036S
1.357	0.3404	5.373	45	1G	13019	1.382	0.3137	4.901	45	1G	10282
1.358	0.2156	3.744	44.5	1G	13273	1.382	0.3137	4.901	45	1G	10282S
1.358	0.3153	4.098	45	3G	10388	1.382	0.3139	4.094	45	1G	10030
1.358	0.3303	4.098	45	3G	10388+15	1.384	0.2348	3.985	44.25	1G	13211
1.360	0.3715	4.796	43	4G	01265	1.384	0.2745	4.319	45	1G	02243
1.360	0.3715	4.797	43	2G	00746S	1.386	0.2348	3.984	45	1G	13204
1.366	0.2350	4.536	45	1G	10247	1.390	0.3101	4.260	45	1G	01266
1.370	0.2340	4.399	45	1G	01730	1.390	0.3251	4.260	45	1G	01266+15
1.370	0.2340	4.399	45	3G	02008	1.394	0.3116T	4.442	45	4G	01448
1.370	0.2340	4.399	45	3G	02034	1.394	0.3116T	4.522	45	4G	01552
1.370	0.3100	5.800	44	1G	01350S	1.394	0.3117T	4.523	45	4G	01554
1.370	0.3530	4.748	46	1G	10763	1.395	0.3715	4.984	45	2G	00793
1.371	0.2740	4.615	45	3G	02047	1.396	0.2333	4.207	44	1G	01941
1.371	0.3125	4.615	44	3G	01535	1.398	0.2152	3.960	45	1G	13215
1.371	0.3275	4.615	44	3G	01535+15	1.398	0.2722	5.023	45	4G	01994
1.375	0.2351	3.303	45	1G	13276	1.398	0.2748	3.497	49.9	3G	13174
1.375	0.2588	4.186	45	1G	10500	1.398	0.2748	4.330	44	1G	01673
1.375	0.3386	5.524	44	1G	01055	1.398	0.3150	4.409	45	1G	13056
1.375	0.3407T	4.643	45	1G	00976	1.400	0.3103	6.408	30	1G	00758
1.375	0.3410	5.359	45	2G	00205	1.403	0.3404	6.352	45	2G	00690
1.375	0.3412	4.942	45	1G	00989	1.405	0.2349	3.815	45	1G	13079
1.375	0.3720	6.060	45	1G	00921	1.405	0.2351	3.826	45	1G	13077
1.376	0.2730	4.762	45	1G	10193	1.406	0.3720T	4.892	44	4G	00549
1.376	0.3124	4.394	45	1G	10064	1.406	0.3720T	4.892	44	1G	01441
1.378	0.1955	3.999	45	1G	02192	1.406	0.3721T	4.892	44	4G	01325
1.378	0.2151	3.313	45	1G	10169	1.407	0.3405	4.840	45	2G	00185
1.378	0.2151	3.925	45	1G	13259	1.412	0.3125	4.602	45	2G	13099
1.378	0.2151	4.075	45	1G	13257	1.413	0.3123	4.340	45	1G	10220S
1.378	0.2154	4.456	44.5	1G	13190	1.413	0.3139	4.075	45	2G	13060
1.378	0.2154	4.456	44.5	1G	13255	1.415	0.2737	4.035	45	3G	10374S
1.378	0.2155	4.201	45	1G	10543	1.415	0.2741	3.813	45	3G	10731

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.415	0.2742	4.140	45	1G	10105	1.450	0.3420	4.863	45	1G	00742
1.415	0.2748	3.524	45	3G	13337	1.451	0.3414	4.942	44	1G	01537
1.415	0.3411	5.288	30	2G	00682	1.451	0.3414	5.070	45	1G	01135
1.417	0.2150	4.075	45	1G	13261	1.451	0.3414	5.070	45	1G	01135S
1.417	0.2154	4.146	44.5	1G	13286	1.451	0.3415	4.873	45	1G	01000
1.417	0.2154	4.299	44.5	3G	13401	1.451	0.3444	5.070	45	1G	01135+3
1.417	0.2155	5.004	45	3G	13400	1.451	0.3564	5.070	45	1G	01135+15
1.417	0.2157	4.283	45	1G	13358	1.451	0.3565	4.873	45	1G	01000+15
1.417	0.2161	4.606	44.75	1G	13336	1.453	0.3123	4.260	45	1G	10221S
1.417	0.2344	4.748	45	1G	10806	1.453	0.3330	4.331	45	1G	10757
1.417	0.2345	4.110	45	1G	13201	1.454	0.3725	4.984	44	2G	00912
1.417	0.2346	4.169	45	1G	13139S	1.455	0.3713T	5.688	45	1G	01574S
1.417	0.2350	3.840	44	1G	10537	1.455	0.3721	5.640	45	1G	01519
1.417	0.2353	4.073	45	1G	10473	1.456	0.2346	3.988	45	1G	13081
1.417	0.2738	4.550	45	1G	10103	1.456	0.2750	5.337	44	3G	01709
1.417	0.2743	4.482	45	1G	10244	1.456	0.3120	5.128	45	1G	13122
1.417	0.2746	4.212	44	1G	10107	1.457	0.2160	3.841	44.5	1G	13225
1.417	0.2753	5.333	29.5	1G	13417	1.457	0.2160	3.841	44.5	1G	13344
1.417	0.3137	3.933	45	1G	10307	1.457	0.2346	4.149	44	3G	01998
1.417	0.3140	4.272	45	1G	10323	1.457	0.2348	3.988	44.25	1G	13334
1.417	0.3140	4.291	30	1G	13414	1.457	0.2348	3.988	45	1G	13210
1.417	0.3153	4.353	44	3G	01199	1.457	0.2356	4.719	45	3G	13294
1.417	0.3162	4.397	45	1G	10237	1.457	0.2722	4.539	44.5	3G	13252
1.417	0.3717	7.205	45	2G	02261	1.457	0.2722	4.539	45	3G	01919
1.417	0.3717	7.264	24	2G	02260S	1.457	0.2722	4.539	45	3G	02036
1.417	0.3717	7.269	44.25	2G	13193	1.457	0.2738	4.980	45	1G	01903
1.418	0.2740	4.681	45	3G	01925S	1.457	0.2738	5.142	45	1G	01737
1.418	0.2740	4.682	45	3G	01925	1.457	0.2741	3.920	45	1G	13326
1.418	0.3153	4.138	45	3G	10386	1.457	0.2756	4.862	29.5	1G	13373
1.418	0.3303	4.138	45	3G	10386+15	1.457	0.2756	5.337	29	1G	13246
1.419	0.3139	4.483	45	1G	10037	1.457	0.3123	5.276	30	1G	13394
1.425	0.3132	4.736	45	1G	01811	1.457	0.3130	5.140	29.5	1G	13121
1.425	0.3132	4.757	45	1G	02173	1.457	0.3132	5.165	45	1G	01568
1.425	0.3135	4.716	45	1G	02058	1.457	0.3132	5.165	45	1G	01704
1.425	0.3413	4.736	45	2G	01480	1.457	0.3138	4.420	45	1G	10330A
1.425	0.3563	4.736	45	2G	01480+15	1.457	0.3151	5.108	45	3G	01936
1.426	0.2335	4.408	45	1G	02053	1.457	0.3152	5.189	45	3G	01451
1.427	0.3399	5.175	45	1G	13232S	1.457	0.3331	4.337	45	2G	10755
1.430	0.3100	5.800	44	1G	01351S	1.457	0.3720	5.322	44	1G	01305S
1.437	0.2157	4.210	45	1G	13088	1.460	0.2744	4.586	45	1G	10255
1.437	0.2352	4.303	44.5	1G	13349	1.461	0.2740	4.845	45	3G	01791
1.437	0.2352	4.344	44.5	1G	13347	1.461	0.3414	4.845	44.5	4G	01469
1.437	0.2734	4.516	45	3G	01901	1.461	0.3414	5.070	44	1G	01327
1.437	0.2741	4.632	30	1G	13403	1.462	0.3141	4.089	45	1G	10031
1.437	0.2742	4.091	45	1G	01703	1.463	0.2351	3.798	44.5	1G	13237
1.437	0.2748	4.320	44	1G	01726	1.465	0.2736	4.185	44.5	3G	13142
1.437	0.2750	4.095	44	1G	10116	1.468	0.3715	5.810	45	1G	00121
1.437	0.2750	4.095	44	1G	13169S	1.468	0.3715	5.913	45	1G	00303
1.438	0.3412	4.906	45	1G	00155	1.473	0.3718	4.855	45	1G	01784
1.438	0.3425	4.952	45	1G	01073	1.476	0.2156	4.185	44.5	1G	13208
1.439	0.3113	5.811	45	1G	13003	1.476	0.2346	4.583	45	3G	02265
1.440	0.3718	4.855	45	1G	13111	1.476	0.2352	4.073	45	1G	10321
1.440	0.3725	4.848	45	1G	00882A	1.476	0.3116	4.974	45	4G	01670
1.441	0.2743	3.989	45	1G	10226	1.476	0.3116	5.045	45	4G	01905
1.441	0.2744	3.912	45	1G	02181	1.476	0.3130	5.047	45	1G	10342S
1.441	0.2744	4.550	45	1G	10172	1.476	0.3150	5.886	44.25	1G	13421
1.441	0.2745	3.986	45	1G	10792	1.476	0.3161	4.509	30	1G	13061
1.441	0.3724	5.004	44	1G	01798	1.476	0.3513	5.030	45	1G	10726
1.444	0.3708	5.997	30	1G	01523S	1.476	0.3513	5.030	45	1G	13120
1.449	0.2352	3.825	45	1G	13220	1.476	0.3514	5.028	45	1G	10728S

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.478	0.3140	4.922	45	3G	10069	1.500	0.3445T	4.928	45	2G	01192+3
1.479	0.2345	4.583	44.5	3G	02119	1.500	0.3562T	4.928	45	2G	00400+15
1.479	0.2345	4.583	44.5	3G	02119S	1.500	0.3562T	4.928	45	2G	01192+15
1.480	0.3095	5.356	30	1G	01042	1.500	0.3563T	4.920	45	1G	01807+15
1.484	0.4025T	6.238	45	1G	02084	1.500	0.3563T	4.920	45	1G	01807S+15
1.488	0.3140	4.158	45	1G	10076	1.500	0.3563T	4.923	45	2G	01206S+15
1.490	0.3408	4.727	45	1G	01710	1.500	0.3704	5.745	45	2G	01653
1.492	0.3126	5.039	44.75	1G	13388S	1.500	0.3715	4.982	45	4G	01399
1.492	0.3127	5.039	44.75	1G	13384	1.500	0.3715	5.003	43	4G	01329
1.492	0.3417	4.318	45	1G	10748	1.500	0.3715	5.156	45	1G	00168
1.492	0.3421	4.320	45	1G	10750	1.500	0.3716T	4.923	45	2G	01294S
1.493	0.3125	4.170	45	1G	10146	1.500	0.3719	4.923	46	2G	01646S
1.493	0.3125	4.170	45	1G	10146S	1.500	0.3720	5.731	44	2G	00658
1.493	0.3137	4.074	45	2G	10758	1.500	0.3720	5.945	44	1G	01376S
1.496	0.2156	4.165	45	1G	13086	1.500	0.3725	5.027	45	1G	01188
1.496	0.3123	6.010	45	1G	13361	1.500	0.3865	5.003	43	4G	01329+15
1.496	0.3126	4.141	45	1G	10144	1.500	0.3868T	4.923	45	2G	01294S+15
1.496	0.3131	4.609	45	1G	13059	1.500	0.4335	5.690	45	2G	01017S
1.496	0.3132	4.561	45	1G	10214	1.501	0.3400	4.844	45	2G	00257
1.496	0.3133	7.587	29.5	3G	13376S	1.502	0.3423	4.688	30	1G	01354
1.496	0.3135	4.070	45	1G	10127	1.503	0.2745	3.909	45	1G	13084
1.496	0.3136	4.072	45	1G	10760	1.506	0.4343	5.370	44	2G	00917SN
1.496	0.3138	4.609	45	1G	10288	1.506	0.4493	5.370	44	2G	00917SN+15
1.496	0.3138	5.423	30	1G	02188	1.508	0.3419	4.983	44	1G	01368S
1.496	0.3138	5.423	30	1G	13162	1.508	0.3704	5.373	44	1G	01217S
1.496	0.3138	5.424	45	1G	02187	1.508	0.3704	5.373	44	1G	01332
1.496	0.3138	5.424	45	1G	13163	1.508	0.3854	5.373	44	1G	01332+15
1.496	0.3140	4.291	30	1G	13413	1.510	0.2346	3.962	44.5	1G	13333
1.496	0.3520	5.119	45	1G	13134S	1.510	0.3410	4.819	45	1G	00212
1.496	0.3526	6.315	45	3G	13371	1.510	0.3410	4.978	45	TA	00348
1.496	0.3718T	5.108	45	2G	01482S	1.510	0.3410	5.825	44	TA	00608
1.500	0.2740	4.807	45	3G	01744	1.510	0.3415	4.818	45	1G	00214
1.500	0.3115T	4.939	44	1G	01478	1.510	0.3418	5.089	45	1G	00375
1.500	0.3115T	4.939	46	3G	01917	1.510	0.3705	5.742	45	2G	01695S
1.500	0.3115T	4.940	44	1G	01556	1.511	0.3095	4.498	45	1G	00311
1.500	0.3130	4.676	45	1G	13066	1.516	0.3409	5.167	30	1G	01148
1.500	0.3130	4.940	45	1G	10269	1.516	0.3410	5.157	30	DR	00810
1.500	0.3132T	4.355	45	1G	01550	1.516	0.3715	5.053	30	1G	01075S
1.500	0.3133T	4.541	45	1G	01591	1.517	0.3715	4.996	45	2G	01312S
1.500	0.3265T	4.939	46	3G	01917+15	1.517	0.3716	4.995	45	2G	01419
1.500	0.3265T	4.940	44	1G	01556+15	1.517	0.3866	4.995	45	2G	01419+15
1.500	0.3282T	4.355	45	1G	01550+15	1.520	0.3132	4.713	45	1G	01735
1.500	0.3283T	4.541	45	1G	01591+15	1.522	0.3428	4.667	44	1G	01323
1.500	0.3408	4.717	45	1G	01387	1.523	0.3135	4.803	45	1G	13044
1.500	0.3408	4.718	45	1G	01389	1.525	0.2347	4.165	44	3G	13179
1.500	0.3410	5.280	44	2G	00504	1.527	0.3105	4.260	44	1G	00627
1.500	0.3410	5.363	45	2G	00193	1.531	0.3405	4.845	45	2G	00349
1.500	0.3412	5.078	45	2G	01361	1.531	0.3727	5.810	45	1G	00122
1.500	0.3412T	4.923	45	2G	01206S	1.534	0.3115	4.499	45	1G	13101
1.500	0.3412T	4.928	45	2G	00400	1.534	0.3115	4.500	45	1G	00874
1.500	0.3412T	4.928	45	2G	01192	1.535	0.2350	4.588	45	3G	13263
1.500	0.3413T	4.904	45	1G	01809	1.535	0.2734	4.524	45	3G	01914
1.500	0.3413T	4.920	45	1G	01807	1.535	0.2742	4.171	45	3G	10556
1.500	0.3413T	4.920	45	1G	01807S	1.535	0.3114	4.500	35	1G	13103
1.500	0.3414	4.787	45	4G	01597	1.535	0.3134	4.567	45	1G	10770
1.500	0.3414	4.807	44	4G	01397	1.535	0.3150	7.264	29.5	1G	13192S
1.500	0.3415	4.600	45	2G	01814	1.535	0.3163	5.383	44	3G	01546
1.500	0.3415	4.925	45	1G	02016R	1.535	0.3524	4.957	45	1G	13410
1.500	0.3415T	4.905	45	1G	01769R	1.535	0.3718T	5.112	45	2G	01780S
1.500	0.3445T	4.928	45	2G	00400+3	1.535	0.3720	5.482	45	1G	01431S

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.537	0.3110	5.730	45	MR	00100	1.584	0.3420	6.444	30	1G	00411
1.541	0.3414	5.070	44	1G	01877	1.584	0.3421	6.443	30	1G	00327
1.541	0.3415	5.070	45	1G	01237	1.587	0.3136	4.914	45	1G	13042
1.541	0.3565	5.070	45	1G	01237+15	1.589	0.3136	4.914	45	1G	13241S
1.550	0.3093	4.539	30	1G	01882	1.594	0.3535	4.746	44.5	1G	13068
1.550	0.3135	4.915	45	1G	01935R-155	1.594	0.3724	5.205	45	1G	02166
1.550	0.3726	5.016	45	1G	01320	1.594	0.4340	6.700	45	2G	00159
1.551	0.3126	4.915	45	1G	02045	1.595	0.3125	4.921	44.5	3G	13207
1.551	0.3136	4.915	45	1G	01935	1.595	0.3718T	5.670	37	1G	01542
1.551	0.3136	4.915	45	1G	01935S	1.595	0.3718T	5.674	37	1G	01542S
1.552	0.3126	5.139	45	3G	13195	1.595	0.3719T	5.674	38	1G	01754
1.553	0.3161	4.429	45	1G	10744	1.595	0.3868T	5.674	37	1G	01542S+15
1.555	0.2742	3.616	45	3G	10554S	1.598	0.3127	4.419	45	1G	01449
1.555	0.2748	3.616	45	3G	10733	1.598	0.3128	4.499	45	1G	01555
1.555	0.3126	4.845	45	3G	02220	1.599	0.3122	4.499	45	1G	01553
1.555	0.3136	3.616	45	3G	10158S	1.600	0.3112	5.790	45	1G	01900S
1.556	0.3429	8.497	30	1G	13001	1.600	0.3135	4.915	45	1G	01935R-160
1.556	0.3429	8.497	30	1G	13001S	1.600	0.3413	4.700	45	2G	01395
1.556	0.3430	8.497	30	1G	01566	1.600	0.3415	4.904	45	2G	00919
1.559	0.3715	5.436	45	1G	01242	1.600	0.3415	4.925	45	1G	01952R
1.559	0.3865	5.436	45	1G	01242+15	1.600	0.3415	5.025	45	1G	01954R
1.560	0.3419	4.810	44	1G	01177S	1.600	0.3415	5.125	45	1G	02024R
1.560	0.3419	4.810	45	1G	01358	1.600	0.3415T	4.905	45	1G	01770R
1.560	0.3420	4.750	44.5	1G	01504	1.600	0.3415T	5.005	45	1G	01771R
1.560	0.3420	4.750	44.5	1G	01504S	1.600	0.3712T	5.792	45	1G	01422S
1.560	0.3569	4.810	44	1G	01177S+15	1.600	0.3714	5.787	45	1G	01944S
1.560	0.3569	4.810	45	1G	01358+15	1.600	0.3715	5.006	43	4G	01307
1.560	0.3570	4.750	44.5	1G	01504+15	1.600	0.3715	5.006	43	2G	01309
1.562	0.3422	4.728	44	1G	00970	1.600	0.3725T	4.889	45	4G	00520
1.562	0.3704	4.954	45	1G	01381	1.602	0.3093	4.502	45	1G	01881
1.563	0.3708	4.953	44.5	1G	01383SN	1.604	0.3414	6.352	45	2G	00691
1.563	0.3715	4.539	45	4G	00518	1.605	0.3788	5.565	30	1G	01420S
1.563	0.3858	4.953	44	1G	01383SN+15	1.609	0.3720	5.473	45	2G	00559S
1.564	0.3121	5.826	30	1G	13002	1.610	0.3419	4.787	44	4G	01528
1.570	0.3134	4.819	45	3G	10348	1.610	0.3913	5.748	45	1G	10767S
1.570	0.3135	4.915	45	1G	01935R-157	1.614	0.3140	4.528	30	1G	13411
1.570	0.3165	4.158	44	1G	01285	1.616	0.3524	4.843	30	1G	13219
1.573	0.3715	6.867	30	1G	01570	1.617	0.2744	4.224	45	1G	10270
1.573	0.3715	6.867	30	1G	21570	1.617	0.3716	4.995	45	2G	01417
1.573	0.3715	6.887	29.75	1G	01750	1.617	0.3716	4.995	45	2G	01675
1.573	0.3715	6.887	29.75	1G	21750	1.617	0.3866	4.995	45	2G	01417+15
1.573	0.3715	6.992	30	1G	02095	1.618	0.3518	5.709	45	1G	13424
1.573	0.3715	6.992	30	1G	22095	1.620	0.3524	4.842	45	1G	05002S
1.575	0.2737	5.469	45	1G	10522	1.620	0.3718	5.996	29	1G	01524
1.575	0.3125	4.560	45	1G	10216	1.620	0.3725	4.774	45	2G	00567
1.575	0.3130	4.820	45	1G	10274S	1.620	0.3875	4.774	45	2G	00567+15
1.575	0.3132	7.547	44.5	1G	13301S	1.622	0.3423	4.675	30	1G	01324
1.575	0.3133	7.543	39.5	3G	13378S	1.622	0.3423	4.708	30	1G	01212
1.575	0.3136	7.560	30	3G	13375S	1.624	0.3115T	4.920	43.5	1G	01715
1.575	0.3137	7.559	29.5	1G	13300S	1.624	0.3115T	5.743	43.5	1G	01782
1.575	0.3138	4.291	45	1G	10772	1.624	0.3422	4.695	44	1G	00974
1.575	0.3140	4.262	45	1G	10322	1.624	0.3520	5.578	45	1G	13092
1.575	0.3140	4.609	45	1G	10275	1.624	0.3522	5.283	45	1G	13098
1.575	0.3142	6.398	29	1G	13177S	1.625	0.3410	4.643	45	1G	00975
1.575	0.3142	6.398	29	1G	13178S	1.625	0.3414	4.998	44	1G	01292
1.575	0.3150	6.961	45	1G	01579S	1.625	0.3415T	4.905	45	1G	01772R
1.575	0.3150	7.209	30	1G	02161S	1.625	0.3418	5.246	44	1G	01083
1.575	0.3518	4.840	45	1G	13096	1.625	0.3720T	4.917	44	1G	01047
1.575	0.3531	6.315	30	3G	13370	1.625	0.3725	5.158	45	1G	01189
1.575	0.3720	5.157	44	1G	01233	1.625	0.4350	6.238	45	2G	00923

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.634	0.3150	5.886	29.5	1G	13420	1.656	0.3163	4.134	45	1G	10385
1.634	0.3518	5.086	29.5	1G	13138	1.656	0.3313	4.134	45	1G	10385+15
1.634	0.3717	7.362	45	2G	13033	1.656	0.3715	5.844	45	2G	00203
1.634	0.3717	7.372	45	2G	13280	1.656	0.3715	6.083	45	2G	00427S
1.634	0.4339	5.700	44.5	1G	00530SN	1.656	0.3720	5.086	30	2G	00600
1.635	0.4340	5.702	44	1G	01346S	1.657	0.2744	4.945	45	1G	10281
1.638	0.3523	5.055	29.5	3G	13364	1.658	0.3140	4.899	45	1G	10268
1.639	0.3265T	4.920	43.5	1G	01715+15	1.660	0.3410	4.809	44	2G	01310
1.640	0.3410	4.877	44	2G	01072	1.660	0.3410	4.870	44	2G	01247
1.641	0.3406	5.532	30	2G	00867	1.660	0.3410	4.959	44	2G	01245
1.646	0.2760	4.085	44	1G	10213	1.660	0.3410	4.984	44	2G	01093
1.646	0.2760	4.085	44	1G	13168	1.660	0.3716	5.350	46	1G	01241SN
1.646	0.3717	5.997	44	2G	01145S	1.660	0.3716	5.367	20	1G	21235S
1.646	0.3717	7.132	44	2G	01468S	1.660	0.3716	5.367	45	1G	01235S
1.646	0.3717	7.140	20	2G	01632S	1.660	0.3718	5.367	45	1G	00996S
1.646	0.3717	7.250	45	2G	01831S	1.660	0.3868	5.367	45	1G	00996S+15
1.646	0.3717	7.621	20	2G	02258S	1.661	0.2750	4.637	45	3G	02046
1.646	0.3717	7.953	44	2G	01912	1.661	0.3130	4.615	44	3G	01536
1.646	0.3717	7.953	44	2G	21912	1.661	0.3280	4.615	44	3G	01536+15
1.647	0.3418	5.931	44	1G	00609	1.661	0.3518	5.709	36	1G	13380
1.647	0.3420	5.090	45	1G	00376	1.663	0.3130	4.357	45	1G	10218
1.648	0.3139	4.583	44	1G	10015	1.665	0.3413	5.932	45	1G	01455
1.651	0.2743	4.035	45	3G	10373	1.670	0.3708	4.953	45	1G	01385SN
1.651	0.3103	4.260	44	1G	01268	1.670	0.3858	4.953	45	1G	01385SN+15
1.651	0.3708	6.017	29.5	1G	01525S	1.673	0.3095	5.257	30	1G	01588
1.652	0.3404	4.966	30	2G	13016	1.673	0.3130	4.315	45	1G	10087
1.652	0.3404	5.377	30	2G	13018	1.673	0.3157	4.656	30	1G	13055
1.652	0.3532	4.753	46	1G	10762	1.673	0.3789	6.940	30	1G	01531
1.652	0.3720	6.063	45	1G	00593	1.673	0.3789	6.944	30	1G	01658S
1.653	0.3401	4.345	45	1G	10752	1.673	0.3789	6.945	30	1G	01532
1.653	0.3719T	5.108	45	2G	01483S	1.673	0.3789	7.690	30	1G	01663
1.654	0.3122	5.348	44.5	3G	13289	1.673	0.3789	7.695	30	1G	01662S
1.654	0.3122	5.348	44.5	3G	13291S	1.673	0.3789	7.695	30	1G	01662SNR
1.654	0.3129	5.236	44.5	1G	13054	1.673	0.3793	6.945	30	1G	01720S
1.654	0.3130	5.236	30	1G	13051	1.679	0.3720	6.035	45	1G	00922
1.654	0.3136	7.555	24.5	3G	13377S	1.680	0.3122	5.799	37	1G	01786
1.654	0.3137	5.081	20	1G	01862	1.680	0.3122	5.805	30	1G	01785
1.654	0.3138	5.076	45	1G	01664	1.680	0.3720T	4.910	44	1G	01179
1.654	0.3138	5.076	45	1G	01664R	1.680	0.3720T	4.910	44	4G	01326
1.654	0.3138	5.135	45	1G	01801	1.680	0.3720T	4.930	44	1G	01257
1.654	0.3140	4.101	45	1G	10339SA	1.680	0.3864T	4.910	44	4G	01326+15
1.654	0.3163	4.376	44	3G	01200	1.684	0.3423	4.675	30	1G	01210
1.654	0.3163	5.306	45	3G	01452	1.687	0.3726	5.155	45	1G	01321
1.654	0.3415	4.980	45	1G	01832SN	1.688	0.3715	5.161	45	1G	00169
1.654	0.3419	4.983	44	1G	01547	1.688	0.3720	5.700	44	2G	00659
1.654	0.3419	4.983	44	1G	21547	1.688	0.3720	5.914	44	2G	01402
1.654	0.3419	4.983	45	1G	01271	1.688	0.3726	5.157	30	1G	00626
1.654	0.3420	5.080	44	1G	01102	1.689	0.3140	4.432	45	1G	10065
1.654	0.3516	5.537	45	1G	02238	1.689	0.3330	4.312	45	1G	10756
1.654	0.3524	4.890	45	1G	05004	1.689	0.3921	5.748	45	1G	10766
1.654	0.3565	4.980	45	1G	01832SN+15	1.692	0.2760	4.085	44	1G	10117
1.654	0.3569	4.983	44	1G	01547+15	1.692	0.3142	4.543	45	1G	10048
1.654	0.3569	4.983	45	1G	01271+15	1.692	0.3330	4.318	45	2G	10754
1.654	0.3715	6.806	30	1G	01572	1.693	0.3136	4.323	45	1G	10141
1.654	0.3717	6.850	45	2G	01581S	1.693	0.3136	5.456	45	1G	01569
1.655	0.3414	5.050	45	1G	01367	1.693	0.3137	4.024	45	1G	10147
1.655	0.3415	5.050	45	4G	01169	1.693	0.3137	4.054	45	1G	10624
1.655	0.3564	5.050	45	1G	01367+15	1.693	0.3403	5.175	45	1G	13231
1.655	0.3565	5.050	45	4G	01169+15	1.693	0.3526	4.837	45	1G	05001
1.656	0.3161	4.258	45	1G	10061	1.693	0.3527	4.842	30	1G	13136

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.693	0.3704	6.160	44	1G	01758	1.732	0.3543	7.717	29.5	1G	13176
1.693	0.3717	7.839	45	2G	02160S	1.734	0.4145	5.479	45	2G	01133S
1.694	0.3725	6.955	20	1G	01910S	1.735	0.2747	4.191	44.5	3G	13141
1.694	0.3725	6.955	30	1G	01571S	1.735	0.2747	4.191	44.5	3G	13143
1.694	0.3725	7.051	20	1G	13307S	1.735	0.2750	4.787	45	3G	01743
1.697	0.3717	9.705	29.5	1G	13382	1.735	0.3419	4.787	45	4G	01598
1.709	0.3415	5.050	44	4G	01171	1.736	0.3130	4.280	45	1G	10219
1.710	0.3407	4.713	45	1G	01388	1.736	0.3163	5.256	45	3G	02044
1.710	0.3407	4.726	45	1G	01711	1.736	0.3521	6.673	45	1G	13386S
1.710	0.3722	5.689	30	1G	01520	1.736	0.3521	6.770	45	1G	13391S
1.712	0.3138	4.609	45	1G	13058	1.736	0.3522	6.724	45	1G	13390S
1.712	0.3163	4.089	44.5	1G	10387	1.738	0.3138	4.580	45	1G	10056
1.713	0.3313	4.094	45	1G	10387+15	1.740	0.3722T	4.885	45	4G	01156
1.715	0.3720	6.133	44	1G	01375	1.740	0.3729	4.838	30	1G	13135
1.715	0.3720	6.133	44	1G	21375	1.740	0.3872T	4.885	45	4G	01156+15
1.715	0.3720	6.192	29	2G	01403	1.741	0.3729	4.838	45	1G	01783
1.715	0.3720	6.208	29	1G	01377	1.744	0.3730	4.829	45	1G	00883
1.715	0.3720	6.208	29	1G	21377	1.745	0.4025	7.058	30	2G	00326S
1.715	0.3720	6.227	45	2G	01288	1.745	0.4025	7.108	15	2G	01656S
1.718	0.3139	4.682	45	1G	02057	1.750	0.3428	4.667	44	1G	01450
1.718	0.3139	4.713	45	1G	01810	1.750	0.3720	6.128	29	2G	01404
1.718	0.3410	4.845	45	2G	00298	1.750	0.4025T	6.428	45	2G	01511
1.718	0.3413	4.705	45	2G	01481	1.750	0.4025T	6.428	45	2G	01650S
1.718	0.3563	4.705	45	2G	01481+15	1.751	0.3103	4.260	45	1G	01357
1.718	0.4340	6.670	45	2G	00160	1.752	0.2748	4.756	45	3G	01924
1.720	0.3135	4.394	45	1G	01551	1.752	0.2750	4.607	45	3G	01699
1.720	0.3135	4.591	45	1G	01592	1.752	0.2750	4.622	45	3G	01699S
1.720	0.3285	4.394	45	1G	01551+15	1.752	0.2750	4.752	45	3G	01924S
1.720	0.3285	4.591	45	1G	01592+15	1.752	0.3527	4.965	30	1G	13409
1.720	0.3413	4.917	45	2G	00399	1.753	0.3714	5.393	44	1G	01057S
1.720	0.3413	4.917	45	2G	01193	1.753	0.3714	5.393	44	1G	01348
1.720	0.3419	5.078	45	2G	01362	1.753	0.3715	5.393	44	1G	00949
1.720	0.3420	4.917	45	2G	01194	1.753	0.3715	5.393	45	1G	00918
1.720	0.3421	4.649	45	2G	01813	1.753	0.3864	5.393	44	1G	01057S+15
1.720	0.3443	4.917	45	2G	01193+3	1.756	0.3715	7.417	30	2G	13032
1.720	0.3563	4.917	45	2G	00399+15	1.756	0.3715	7.417	30	2G	13151
1.720	0.3563	4.917	45	2G	01193+15	1.760	0.3138	4.684	45	1G	02172
1.720	0.3711	5.395	45	1G	02126S	1.760	0.3139	4.684	45	1G	01929
1.720	0.3715	5.355	45	1G	01106	1.770	0.3134	4.494	45	1G	10328A
1.720	0.3716	5.355	45	1G	01261S	1.770	0.3410	4.875	44	2G	01215
1.720	0.3716	5.355	45	1G	01578S	1.770	0.3410	4.975	44	2G	01160
1.720	0.3865	5.355	45	1G	01106+15	1.770	0.3410	5.093	44	2G	01097
1.720	0.3866	5.355	45	1G	01261S+15	1.771	0.3717	5.997	44	2G	01146S
1.725	0.3715T	5.347	45	1G	01776R	1.771	0.3717	6.563	29	2G	00753S
1.727	0.3723	6.042	45	2G	01648	1.771	0.3717	7.140	20	2G	01857S
1.728	0.3132	5.039	29.75	1G	13387	1.771	0.3717	7.140	29	2G	01462S
1.728	0.3134	5.039	45	1G	13383	1.771	0.3717	7.250	30	2G	01830S
1.731	0.4025	7.245	45	1G	00678	1.771	0.3717	7.621	20	2G	02259S
1.732	0.2742	5.465	45	1G	01736	1.771	0.3720	6.563	30	2G	00754
1.732	0.2746	5.265	45	1G	01902	1.771	0.3725	6.846	20	1G	01573S
1.732	0.3128	5.276	30	1G	13392	1.772	0.3138	5.084	30	1G	01665
1.732	0.3129	4.725	29.75	1G	13063	1.772	0.3138	5.084	30	1G	01665R
1.732	0.3135	4.350	45	3G	10406	1.772	0.3138	5.085	20	1G	02257
1.732	0.3136	5.457	45	1G	01705	1.772	0.3524	5.034	45	1G	10725
1.732	0.3139	4.500	45	1G	10277	1.772	0.3529	4.886	45	1G	05003
1.732	0.3164	4.405	45	1G	10236	1.772	0.3717	6.850	30	2G	01582
1.732	0.3435	8.498	30	1G	01567	1.772	0.3717	6.850	30	2G	01582S
1.732	0.3435	8.498	30	1G	13000	1.772	0.3720	5.157	44	1G	01234
1.732	0.3435	8.498	30	1G	13083S	1.772	0.3720	5.312	44	2G	01306
1.732	0.3531	4.630	45	1G	10768	1.772	0.3729	4.836	45	1G	01887

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.772	0.3730	4.839	30	1G	05000	1.812	0.3715	5.848	45	2G	00204
1.776	0.3522	6.697	30	1G	13389	1.812	0.3715	6.083	45	2G	00428
1.776	0.3523	6.673	30	1G	13385	1.815	0.3905	5.193	45	1G	13118S
1.778	0.3717	9.705	30	1G	13355S	1.821	0.3720	5.167	30	2G	01471S
1.780	0.3419	4.750	45	1G	01875	1.823	0.3529	5.086	29.5	1G	13137
1.780	0.3420	4.810	45	1G	01120	1.830	0.3133	4.724	45	1G	13013
1.780	0.3420	4.873	44.5	1G	01001	1.830	0.3522	5.551	30	1G	02239
1.780	0.3421	5.110	45	1G	00373	1.830	0.3543	7.716	30	1G	01889
1.780	0.3570	4.810	45	1G	01120+15	1.831	0.3529	5.083	45	3G	13363
1.780	0.3570	4.873	44.5	1G	01001+15	1.835	0.3100	5.278	30	1G	01589
1.780	0.3725	4.979	45	2G	00938	1.839	0.3718	6.016	29	1G	01526
1.780	0.3725	9.449	19.5	1G	13381	1.840	0.3413	4.880	45	1G	01806
1.780	0.3875	4.979	45	2G	00938+15	1.840	0.3413	4.912	45	2G	01393
1.781	0.3139	4.072	45	1G	10761	1.840	0.3563	4.912	45	2G	01393+15
1.781	0.3419	4.750	44	1G	01792	1.840	0.3720	5.235	45	1G	00997
1.781	0.3420	4.750	44.5	1G	01505	1.840	0.4365	7.781	44	TA	00319
1.781	0.3420	4.810	45	1G	00963	1.842	0.3419	5.070	44	1G	01701
1.781	0.3420	4.863	45	1G	00947	1.842	0.3420	5.070	45	1G	01238
1.781	0.3420	5.050	45	1G	01137	1.842	0.3570	5.070	45	1G	01238+15
1.781	0.3570	4.750	44.5	1G	01505+15	1.842	0.3718	5.742	30	1G	01694
1.781	0.3570	5.050	45	1G	01137+15	1.844	0.3725	4.599	45	2G	00514
1.781	0.3720	5.072	30	2G	00601	1.845	0.3734	5.215	45	1G	02167
1.782	0.2750	4.840	44.5	3G	01790	1.850	0.3150	6.971	29	1G	02231
1.782	0.3419	4.840	44.5	4G	01470	1.850	0.3150	6.976	30	1G	01580
1.782	0.3419	5.070	45	1G	01328	1.850	0.3532	5.096	30	1G	13057
1.782	0.3420	4.942	44	1G	01538	1.850	0.3717	7.951	29	2G	01911
1.782	0.3449	5.070	45	1G	01328+3	1.850	0.3717	7.951	29	2G	21911
1.782	0.3569	5.070	45	1G	01328+15	1.850	0.3720	6.174	30	1G	01586
1.784	0.3714	5.147	44	1G	01382	1.850	0.3720	6.174	30	1G	21586
1.784	0.3714	5.147	44	1G	01384S	1.854	0.3139	4.657	45	1G	13065
1.784	0.3864	5.147	44	1G	01384S+15	1.856	0.3725	9.449	20	1G	13354
1.786	0.3714	5.992	45	1G	01946S	1.861	0.2750	4.840	45	3G	01789
1.786	0.3722	5.992	30	1G	01945	1.870	0.3136	4.835	45	1G	13043
1.787	0.3720	4.899	29	4G	00550	1.870	0.3715	6.160	30	1G	01757
1.787	0.3720	4.899	29	4G	01260	1.870	0.3789	7.723	30	1G	01660
1.787	0.3720	4.899	29	1G	01442	1.870	0.3789	7.726	30	1G	01659S
1.790	0.3789	8.810	45	1G	02263S	1.870	0.3789	7.726	30	1G	01661S
1.790	0.3789	8.810	45	1G	13309S	1.870	0.3789	7.726	30	1G	21661S
1.791	0.3128	4.949	45	2G	01671	1.870	0.3789	7.726	45	1G	01847S
1.791	0.3128	5.021	45	2G	01904	1.870	0.3789	7.750	20	1G	01756
1.791	0.3520	5.709	30	1G	13379	1.870	0.3789	8.503	20	1G	02262
1.791	0.3526	4.872	30	1G	13095	1.870	0.3789	8.503	20	1G	13308
1.800	0.3134	4.721	45	1G	01858	1.870	0.4505	6.605	30	2G	00702
1.804	0.3715T	5.683	45	2G	01497S	1.870	0.4505	6.605	30	2G	00703
1.804	0.3715T	5.693	45	2G	01378	1.870	0.4505	7.063	30	2G	00602
1.805	0.3714	5.743	45	1G	01654	1.870	0.4505	7.063	30	2G	00602S
1.805	0.4342	6.101	44	1G	01506S	1.870	0.4505	7.063	30	2G	00603
1.810	0.3134	4.250	45	1G	10145	1.875	0.3415	6.391	30	2G	00308
1.811	0.2744	4.524	45	3G	01913	1.875	0.3427	4.740	44	1G	00969
1.811	0.3128	5.276	30	1G	13393	1.875	0.3428	4.667	44	1G	01263
1.811	0.3137	4.195	45	1G	10143	1.875	0.3718	5.355	45	1G	01131
1.811	0.3142	4.917	45	3G	10070	1.875	0.3725	5.009	45	1G	01082
1.811	0.3413	5.108	45	2G	01484	1.875	0.4340	6.561	44	1G	01406
1.811	0.3413	5.932	30	1G	01456	1.875	0.4341	6.708	44	1G	01408
1.811	0.3526	5.030	45	1G	13115	1.875	0.4342	6.655	29	1G	21412
1.811	0.3725	4.979	45	2G	01186	1.875	0.4342	6.655	30	1G	01412
1.811	0.3736	5.937	45	1G	01666	1.875	0.4505	7.115	20	2G	01721S
1.811	0.3736	5.942	20	1G	02254	1.875	0.4505	7.115	20	2G	01721S-OEM
1.811	0.3736	5.942	20	1G	02254S	1.877	0.3719	5.687	30	1G	01543
1.812	0.3103	4.502	30	1G	01880	1.877	0.3869	5.697	30	1G	01543+15

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
1.880	0.3415	5.420	45	1G	02043R	1.970	0.3722	5.787	30	1G	01943
1.880	0.3415	5.520	45	1G	01962R	1.970	0.3722	5.992	30	1G	02131
1.880	0.3415T	5.347	45	1G	02062R	1.977	0.3419	5.198	44	1G	01548S
1.880	0.3415T	5.447	45	1G	02061R	1.978	0.3419	5.180	44	1G	01548
1.880	0.3715	5.420	45	1G	01960R	1.978	0.3569	5.180	44	1G	01548+15
1.880	0.3715	5.520	45	1G	01961R	1.995	0.3427	4.707	44	1G	01457
1.880	0.3715T	5.347	45	1G	01777R	2.000	0.3127	4.929	45	3G	02103
1.880	0.3720	4.981	45	4G	01273	2.000	0.3135	4.870	45	1G	02000R-200
1.880	0.3725	4.981	45	2G	01180	2.000	0.3135	4.870	45	1G	13244
1.880	0.3875	4.981	45	2G	01180+15	2.000	0.3136	4.869	45	1G	02000
1.881	0.3715	5.349	45	1G	01600	2.000	0.3136	4.869	45	1G	02267
1.884	0.3520	5.608	30	1G	13091	2.000	0.3416	4.985	44	1G	01293
1.884	0.3522	5.294	30	1G	13097	2.000	0.3420	5.233	44	1G	01084
1.886	0.3907	5.669	45	1G	13094S	2.000	0.3725	5.138	45	1G	01105
1.889	0.4955	6.864	30	1G	01446	2.000	0.3733	4.791	45	1G	00302
1.889	0.4955	6.864	30	1G	21446	2.000	0.4025	6.428	30	2G	01826
1.889	0.4960	6.864	30	1G	21037	2.000	0.4025	6.428	45	2G	01512
1.890	0.2734	4.969	45	4G	01993	2.000	0.4965	7.863	44	1G	00982S
1.890	0.3136	4.869	45	1G	01934	2.005	0.4960	8.128	45	2G	00819S
1.890	0.3136	4.869	45	1G	01934S	2.008	0.3730	6.060	30	1G	01587
1.890	0.4960	6.864	30	1G	01037	2.020	0.3135	4.870	45	1G	02000R-202
1.895	0.3717	6.563	29	2G	00755	2.020	0.3415	4.880	45	2G	00988
1.896	0.3717	5.300	30	2G	01761S	2.020	0.3415	4.898	45	1G	01763R
1.896	0.3717	5.467	29	2G	01491S	2.020	0.3415	4.998	45	1G	01764R
1.896	0.3717	5.469	29	2G	01203	2.020	0.3717	5.350	30	2G	01760S
1.896	0.3717	5.469	29	2G	01205S	2.020	0.3717	5.510	29	2G	01204
1.896	0.3717	6.395	30	2G	01630S	2.020	0.3717	5.510	29	2G	01314S
1.902	0.3720	6.148	44	2G	01336S	2.020	0.3717	6.437	30	2G	01631S
1.902	0.3720	6.245	44	2G	01289	2.020	0.4353	5.742	44	1G	00531S
1.910	0.3114	4.911	46	3G	01916	2.025	0.3720	4.899	29	1G	01048
1.910	0.3115	4.912	44	1G	01479	2.025	0.3720	4.899	29	4G	01258
1.910	0.3115	4.912	44	1G	01557	2.025	0.3870	4.899	29	4G	01258+15
1.910	0.3264	4.911	46	3G	01916+15	2.027	0.3716	5.446	30	1G	00585
1.910	0.3265	4.912	44	1G	01557+15	2.027	0.3716	5.446	45	1G	00637
1.915	0.2734	4.481	44.5	3G	13251	2.027	0.3866	5.446	45	1G	00637+15
1.915	0.2734	4.481	45	3G	01918	2.028	0.4365	7.788	44	TA	00318
1.920	0.3115	4.906	44	1G	01714	2.031	0.4341	6.732	30	1G	01409
1.920	0.3115	5.728	43.5	1G	01781	2.031	0.4342	6.661	20	1G	01590S
1.920	0.3265	4.906	44	1G	01714+15	2.041	0.3419	5.231	45	4G	01170
1.920	0.3411	4.898	29	2G	00958	2.041	0.3419	5.231	45	1G	01380
1.924	0.3728	6.020	45	2G	01649	2.041	0.3569	5.231	45	4G	01170+15
1.925	0.3421	5.110	44	1G	00494	2.041	0.3569	5.231	45	1G	01380+15
1.929	0.3912	5.275	30	1G	13117	2.047	0.3736	5.946	30	1G	01667
1.940	0.3413	4.880	45	1G	01931	2.047	0.3736	5.952	20	1G	02255
1.940	0.3414	4.880	45	2G	00696	2.047	0.3736	5.952	20	1G	02255S
1.940	0.3414	4.880	45	2G	01195	2.050	0.3127	5.165	44.5	3G	13194
1.940	0.3415	4.898	45	1G	01762R	2.050	0.3135	4.870	45	1G	02000R-205
1.940	0.3415	5.025	45	1G	02026R	2.054	0.3725	5.467	44	1G	01432
1.940	0.3415T	5.447	45	1G	02059R	2.055	0.3415	4.898	45	1G	01765R
1.940	0.3444	4.880	45	2G	01195+3	2.055	0.3415	4.998	45	1G	01766R
1.940	0.3563	4.880	45	1G	01931+15	2.064	0.3714	5.147	44	1G	01386S
1.940	0.3564	4.880	45	2G	01195+15	2.064	0.3864	5.147	44	1G	01386S+15
1.940	0.3720	5.230	45	1G	01087	2.065	0.3715	5.220	45	1G	02021R
1.940	0.3870	5.230	45	1G	01087+15	2.065	0.3720	5.230	45	1G	01107
1.940	0.4350	6.150	45	2G	00924	2.065	0.3870	5.230	45	1G	01107+15
1.960	0.3415	4.980	44	2G	01296	2.072	0.3427	4.688	30	1G	01002
1.969	0.3523	5.549	45	1G	02237	2.078	0.3725	5.250	30	2G	01152
1.969	0.3725	5.223	45	2G	00560	2.079	0.3125	4.961	44.5	3G	13206
1.970	0.3124	5.789	30	1G	01899	2.080	0.3415	4.898	45	1G	01767R
1.970	0.3720	5.806	30	1G	01423	2.080	0.3415	4.998	45	1G	01768R

Valve Progressive Size Listing By Head Diameter

Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #	Head Dia.	Stem Dia.	Overall Length	Seat Angle	Stem Type	SBI Part #
2.080	0.3415	5.125	45	1G	02029R						
2.080	0.3725	4.869	45	2G	00548						
2.083	0.3419	5.175	44.5	1G	01723						
2.083	0.3419	5.198	45	1G	01272						
2.083	0.3420	5.288	45	1G	01103						
2.083	0.3569	5.198	45	1G	01272+15						
2.087	0.3720	6.594	37	1G	01716						
2.087	0.3730	6.536	29	1G	01717S						
2.094	0.3725	5.698	30	2G	01379						
2.106	0.3127	5.425	44.5	3G	13288						
2.106	0.3127	5.425	44.5	3G	13290S						
2.110	0.3415	4.810	29	2G	01311						
2.110	0.3415	4.880	29	2G	01216						
2.110	0.3415	4.979	29	2G	01161						
2.110	0.3415	5.098	29	2G	01098						
2.125	0.3912	5.705	30	1G	13093						
2.150	0.4340	6.596	44	2G	01407						
2.157	0.4345	6.099	14	1G	01507						
2.157	0.4345	6.099	45	1G	01508						
2.165	0.3135	4.870	45	1G	13040						
2.165	0.3135	4.870	45	1G	13240						
2.165	0.3135	4.890	45	1G	13239						
2.187	0.3717	5.224	45	1G	02101						
2.190	0.3415	5.330	45	1G	02065R						
2.190	0.3420	5.231	44	4G	01172						
2.190	0.3715	5.320	45	1G	01964R						
2.190	0.3720	5.225	45	1G	01164						
2.190	0.3720	5.230	45	1G	01773R						
2.205	0.3717	8.622	19	2G	01804						
2.205	0.3717	8.622	20	2G	01584S						
2.205	0.3717	8.622	30	2G	01498S						
2.205	0.3717T	8.622	45	2G	01805S						
2.205	0.4950	8.622	45	1G	02168S						
2.220	0.4948	7.545	30	1G	01533S						
2.220	0.4948	7.545	30	1G	01734						
2.220	0.4950	7.545	30	1G	01534						
2.220	0.4950	7.550	30	1G	01738S						
2.227	0.4960	8.820	45	2G	00554						
2.245	0.4970	6.859	30	1G	01036S						
2.245	0.4970	6.864	30	1G	01415S						
2.250	0.3415	5.330	45	1G	02064R						
2.250	0.3720	5.230	45	1G	01774R						
2.282	0.3717T	9.266	45	2G	01458S						
2.282	0.4955	9.264	45	TA	00574S						
2.300	0.3415	5.330	45	1G	02063R						
2.300	0.3720	5.230	45	1G	01775R						
2.343	0.3717	9.297	45	1G	01459S						
2.343	0.4955	9.295	45	TA	00852S						
2.350	0.3717T	9.391	30	2G	01460S						
2.350	0.3717T	9.392	30	2G	01476S						
2.350	0.4955	9.390	29	TA	00751S						
2.375	0.4965	7.863	29	1G	00983						
2.505	0.3717	9.390	30	2G	01461S						
2.505	0.4955	9.388	29	TA	00752S						
2.557	0.4970	8.125	30	2G	00734						
2.645	0.4970	8.820	30	2G	00555						

Valve Keeper Numerical Listing

SBI Part #	Length	Bead Type	I.D.
121-1000	0.3710	2 RD	0.3710
121-1001	0.3700	2 RD	0.3350
121-1002	0.4055	No Bead	0.3025
121-1003	0.3770	1 SQ	0.3365
121-1006	0.3720	2 RD	0.4330
121-1007	0.3735	1 SQ	0.3750
121-1009	0.5045	1 SQ	0.4280
121-1010	0.5015	PIN	N/A
121-1011	0.3780	1 SQ	0.3075
121-1012	0.6260	PIN	N/A
121-1014	0.3900	4 RD	0.3275
121-1017	0.3750	1 SQ	0.2450
121-1018	0.4360	1 RD	0.3600
121-1019	0.3915	4 RD	0.2950
121-1020	0.3565	1 RD	0.3015
121-1021	0.3450	1 RD	0.3100
121-1023	0.2935	1 SQ	0.3125
121-1024	0.2890	3 RD	0.2585
121-1026	0.2520	1 RD	0.3150
121-1027	0.3900	1 RD	0.3730
121-1028	0.3415	3 RD	0.3140
121-1030	0.5485	No Bead	0.3760
121-1031	0.2950	1 RD	0.2460
121-1034	0.3500	1 SQ	0.3100
121-1039	0.2975	1 RD	0.3040
121-1045	0.2790	No Bead	0.4200
121-1046	0.3060	No Bead	0.2435
121-1047	0.3175	1 SQ	0.3060
121-1048	0.2980	1 RD	0.2640
121-1049	0.5000	1 SQ	0.3990
121-1051	0.4375	1 RD	0.2930
121-1052	0.3960	4 RD	0.2600
121-1054	0.2450	1 RD	0.2515
121-1058	0.2485	1 RD	0.2210
121-1059	0.2730	1 RD	0.2700
121-1060	0.2190	1 RD	0.2090
121-1061	0.2730	1 RD	0.2700
121-1062	0.2780	1 RD	0.2700
121-1063	0.2530	1 RD	0.2310
121-1064	0.2490	1 RD	0.2065
121-1065	0.1230	No Bead	0.2470
121-1067	0.3085	1 SQ	0.2700
121-1069	0.4960	1 SQ	0.4950
121-1071	0.3740	2 RD	0.3085
121-1072	0.3740	1 RD	0.2715
121-1073	0.3720	1 RD	0.3720
121-1074	0.2200	1 RD	0.2300
121-1076	0.3870	1 RD	0.3730
121-1078	0.3480	1 RD	0.3000
121-1079	0.3800	1 RD	0.3000
121-1080	0.3470	1 RD	0.3420
121-1081	0.2870	1 RD	0.2260
121-1082	0.2750	3 RD	0.1800
121-1083	0.2940	3 RD	0.2550
121-1084	0.2900	3 RD	0.2180
121-1085	0.2900	1 RD	0.3100
121-1086	0.2980	1 RD	0.2280
121-1087	0.2900	3 RD	0.1750
121-1089	0.3890	4 RD	0.2180
121-1090	0.3460	1 RD	0.2750
121-1091	0.2980	1 RD	0.3720

Valve Keeper Numerical Listing

SBI Part #	Length	Bead Type	I.D.
121-1093	0.2900	3 RD	0.2100
121-1094	0.3750	1 SQ	0.3750
121-1095	0.5000	1 SQ	0.4850
121-1096	0.2950	1 RD	0.2050
121-1097	0.3770	1 RD	0.2750
121-1098	0.2050	3 RD	0.2340
121-1099	0.2220	1 RD	0.2340
121-1100	0.2180	1 RD	0.2150
121-1101	0.2050	1 RD	0.2350
121-1102	0.2980	1 RD	0.2340
121-1103	0.2180	1 RD	0.2150
121-1104	0.2200	1 RD	0.2150
121-1105A	0.2720	1 RD	0.2720
121-1106	0.2680	1 RD	0.2750
121-1107	0.2230	1 RD	0.2340
121-1108	0.2150	1 RD	0.2150
121-1118	0.3750	1 RD	0.3450
121-1123	0.3850	1 RD	0.3050
121-1126	0.3850	1 RD	0.3720
121-1127	0.1955	1 RD	0.2350
121-1128	0.2945	3 RD	0.2110
121-1129	0.2250	1 RD	0.2250
121-1130	0.2100	1 RD	0.1950
121-1131	0.1980	3 RD	0.1990
121-1132	0.3800	1 RD	0.3000
121-1133	0.2950	3 RD	0.2975
121-1134	0.3200	1 SQ	0.3050
121-1135	0.3880	1 RD	0.3450
121-1136	0.3750	1 SQ	0.2250
121-1137	0.3750	1 SQ	0.2650
121-1138	0.4350	1 SQ	0.3000
121-1139	0.4530	1 SQ	0.3450
121-1141	0.3760	1 RD	0.2950
121-1142	0.3850	1 RD	0.3400

Valve Stem Seal Numerical Listing

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1003	Umbrella	Umbrella	3/8	0.3590	0.8050	0.6000	0.7355	N/A	Nitrile
122-1005	Umbrella	Umbrella	3/8	0.3160	0.7200	0.5000	0.7500	N/A	Rubber
122-1006	Ring & Band	Positive	11/32	0.3071	0.4921	0.3150	0.4921	0.502-0.531	Rubber
122-1007	Umbrella	Umbrella	3/8	0.3100	0.7620	0.6370	0.6870	N/A	Nitrile
122-1009	1-Ring	Positive	5/16	0.2950	0.5045	0.3340	0.4585	0.475-0.531	Tef/Rub
122-1011	1-Ring	Positive	3/8	0.3543	0.5079	0.3465	0.4490	0.475-0.531	Tef/Rub
122-1014	1-Ring	Positive	11/32	0.3340	0.5075	0.3450	0.5200	0.531-0.562	Tef/Rub
122-1015	1-Ring	Positive	3/8	0.3650	0.5100	0.3450	0.5200	0.531-0.562	Tef/Rub
122-1017	1-Ring	Positive	3/8	0.3630	0.5065	0.3375	0.5520	0.562-0.600	Tef/Rub
122-1023	O-Ring	O-Ring	3/8	0.3080	0.0680	N/A	N/A	N/A	Poly
122-1031	2-Ring	Positive	3/8	0.3425	0.4525	0.3070	0.5800	0.625-0.660	Poly
122-1032	Umbrella	Umbrella	11/32	0.3200	0.4500	0.3040	0.8075	N/A	Poly
122-1033	Umbrella	Umbrella	11/32	0.3460	0.7900	0.3850	0.7640	N/A	Poly
122-1034	Umbrella	Umbrella	5/16	0.2920	0.6950	0.4915	0.7280	N/A	Poly
122-1035	Umbrella	Umbrella	5/16	0.2850	0.5900	0.4000	0.7500	N/A	Poly
122-1036	Umbrella	Umbrella	3/8	0.3307	0.6378	0.3937	0.7560	N/A	Poly
122-1037	Umbrella	Umbrella	11/32	0.3200	0.5600	0.4510	0.6845	N/A	Poly
122-1038	Umbrella	Umbrella	11/32	0.3150	0.7150	0.5125	0.6430	N/A	Poly
122-1039	1-Spring	Positive	9/32	0.2650	0.3650	0.2545	0.4550	0.475-0.515	Poly
122-1040	2-Ring	Positive	11/32	0.3120	0.3000	0.4600	0.5550	0.562-0.600	Poly
122-1041	Umbrella	Umbrella	11/32	0.3200	0.6850	0.5485	0.7565	N/A	Poly
122-1043	O-Ring	O-Ring	5/16	0.2740	0.0750	N/A	N/A	N/A	Nitrile
122-1045	Umbrella	Umbrella	3/8	0.3200	0.8700	0.6970	0.6695	N/A	Poly
122-1046	All Rubber	Positive	3/8	0.3450	0.5700	0.4040	0.5500	0.562-0.600	Poly
122-1047	2-Ring	Positive	11/32	0.3150	0.4525	0.3050	0.4750	0.475-0.515	Poly
122-1048	2-Ring	Positive	11/32	0.3050	0.4850	0.3235	0.5050	0.510-0.562	Poly
122-1051	Umbrella	Umbrella	11/32	0.3230	0.3230	0.1810	0.8800	N/A	Poly
122-1052	Ring & Band	Positive	5/16	0.3000	0.4905	0.3520	0.4750	0.475-0.531	Viton
122-1053	Ring & Band	Positive	8 mm	0.2950	0.4930	0.3375	0.4700	0.475-0.531	Viton
122-1059	Umbrella	Umbrella	3/8	0.3680	0.7030	0.5200	0.8170	N/A	GF Nylon
122-1063	All Rubber	Positive	11/32	0.3500	0.5610	0.4335	0.5500	0.562-0.600	Viton
122-1065	Ring & Band	Positive	7.5 mm	0.2920	0.4875	0.3150	0.4920	0.500-0.531	Viton
122-1066	Ring & Band	Positive	7.5 mm	0.2920	0.4875	0.3120	0.4820	0.500-0.531	Viton
122-1067	Metal Clad	Positive	8 mm	0.2900	0.4250	0.3150	0.4580	0.475-0.480	Viton
122-1069	Ring & Band	Positive	5/16	0.2920	0.4800	0.3060	0.4630	0.475-0.500	Viton
122-1073	Metal Clad	Positive	7 mm	0.2540	0.3910	0.3020	0.4120	0.434-0.439	Viton
122-1074	Ring & Band	Positive	11/32	0.2992	0.5492	0.3811	0.4468	0.475-0.531	Viton
122-1075	Ring & Band	Positive	11/32	0.3130	0.4900	0.3220	0.4940	0.500-0.531	Viton
122-1077	Ring & Band	Positive	5/16	0.3000	0.4500	0.2770	0.4250	0.460-0.510	Viton
122-1079	All Rubber	Positive	5/16	0.2940	0.5490	0.4600	0.4250	0.439-0.475	Viton
122-1082	Metal Clad	Positive	8 mm	0.2900	0.5390	0.4295	0.4680	0.475-0.485	Viton
122-1086	Metal Clad	Positive	5/16	0.2795	0.5120	0.3620	0.5120	0.520-0.530	Viton
122-1088	Metal Clad	Positive	7.5 mm	0.2820	0.4040	0.2680	0.5100	0.511-0.520	Viton
122-1089	Metal Clad	Positive	8 mm	0.2820	0.3960	0.3120	0.4120	0.420-0.430	Viton
122-1114	Metal Clad	Positive	6.5 mm	0.2204	0.4800	0.2950	0.4610	0.475-0.485	Viton
122-1116	Metal Clad	Positive	8 mm	0.2840	0.5394	0.4016	0.4700	0.475-0.485	ACM
122-1119	Ring & Spring	Positive	7.5 mm	0.2638	0.5634	0.3374	0.4165	0.439-0.475	Viton
122-1125	Metal Clad	Positive	8 mm	0.2800	0.4685	0.3150	0.5512	0.552-0.562	Viton
122-1127	Metal Clad	Positive	8 mm	0.2795	0.4055	0.2400	0.5060	0.512-0.517	Viton
122-1130	Metal Clad	Positive	7 mm	0.2276	0.4449	0.2913	0.4409	0.450-0.460	Viton
122-1132	Metal Clad	Positive	8 mm	0.2800	0.5035	0.3510	0.5470	0.552-0.557	Viton
122-1136	Ring & Spring	Positive	6.5 mm	0.2400	0.3420	0.2177	0.4170	0.439-0.475	Viton
122-1137	Metal Clad	Positive	5/16	0.2780	0.6417	0.4606	0.4840	0.485-0.495	Viton
122-1139	Metal Clad	Positive	7 mm	0.2310	0.5050	0.2756	0.4260	0.430-0.440	Viton
122-1141	Metal Clad	Positive	7 mm	0.2520	0.5906	0.4365	0.4670	0.468-0.475	Viton
122-1142	Metal Clad	Positive	9/32	0.2520	0.3819	0.2165	0.4720	0.475-0.485	Viton
122-1147	Metal Clad	Positive	6 mm	0.2160	0.4016	0.2362	0.4250	0.426-0.439	Viton
122-1149	Metal Clad	Positive	9/32	0.2520	0.5118	0.3622	0.4720	0.475-0.485	Viton
122-1150	Metal Clad	Positive	6 mm	0.2080	0.4500	0.2910	0.3860	0.387-0.396	Viton
122-1152	Metal Clad	Positive	6.5 mm	0.2340	0.3950	0.2550	0.4720	0.475-0.485	Viton
122-1155	Metal Clad	Positive	5.5 mm	0.1860	0.3720	0.2470	0.3580	0.359-0.369	Viton

Valve Stem Seal Numerical Listing

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1158	Metal Clad	Positive	6.5 mm	0.2400	0.4528	0.2756	0.4130	0.414-0.419	Viton
122-1159	Metal Clad	Positive	8 mm	0.2740	0.4528	0.2756	0.4650	0.466-0.475	Viton
122-1162	Metal Clad	Positive	5.5 mm	0.1850	0.4530	0.2760	0.3650	0.368-0.376	Viton
122-1163	Metal Clad	Positive	8 mm	0.2820	0.5196	0.3560	0.5060	0.507-0.515	Viton
122-1165	Metal Clad	Positive	6 mm	0.2040	0.4331	0.2677	0.4290	0.430-0.439	Viton
122-1175	O-Ring	O-Ring	1 ³ / ₃₂	0.3650	0.0690	N/A	N/A	N/A	Nitrile
122-1177	Oil Shield	Umbrella	3/ ₈	0.3820	0.2120	0.0390	0.5710	N/A	Nylon
122-1180	Metal Clad	Positive	6 mm	0.2120	0.3150	0.1969	0.4300	0.431-0.439	Viton
122-1181	Metal Clad	Positive	6 mm	0.2120	0.3150	0.1969	0.4300	0.431-0.439	Viton
122-1187	Metal Clad	Positive	7 mm	0.2550	0.4252	0.2810	0.4640	0.465-0.475	Viton
122-1189	All Teflon	Positive	5/ ₁₆	0.2950	0.5165	0.3550	0.3900	0.410-0.420	Teflon
122-1192	All Teflon	Positive	1/ ₄	0.2320	0.5060	0.3360	0.3660	0.378-0.388	Teflon
122-1196	2-Ring	Positive	1 ¹ / ₃₂	0.3310	0.4815	0.3135	0.5250	0.531-0.562	Nitrile
122-1198	Metal Clad	Positive	9/ ₃₂	0.2450	0.5118	0.3543	0.5060	0.507-0.515	Viton
122-1199	Metal Clad	Positive	1 ¹ / ₃₂	0.3080	0.5827	0.4252	0.5490	0.550-0.562	Viton
122-1200	Metal Clad	Positive	1 ¹ / ₃₂	0.3080	0.5827	0.4311	0.5461	0.550-0.562	Viton
122-1201	Metal Clad	Positive	7/ ₃₂	0.1920	0.3898	0.2480	0.4330	0.434-0.439	Viton
122-1202	Metal Clad	Positive	7/ ₃₂	0.1920	0.3898	0.2480	0.4330	0.434-0.439	Viton
122-1203	Metal Clad	Positive	1 ¹ / ₃₂	0.3060	0.4180	0.2635	0.4820	0.485-0.500	Viton
122-1204	Metal Clad	Positive	5/ ₁₆	0.2850	0.5118	0.3543	0.5250	0.526-0.531	Viton
122-1205	Metal Clad	Positive	5/ ₁₆	0.2850	0.5118	0.3543	0.5250	0.526-0.531	Viton
122-1206	Top Hat	Positive	8 mm	0.2750	0.7165	0.5100	0.4645	0.470-0.480	Viton
122-1207	1-Ring	Positive	1/ ₂	0.4900	0.5000	0.3300	0.6480	0.650-0.815	Tef/Rub
122-1212	Ring & Band	Positive	5/ ₁₆	0.2850	0.3620	0.2000	0.3920	0.395-0.410	Viton
122-1215	Metal Clad	Positive	1 ¹ / ₃₂	0.3106	0.5430	0.3820	0.4800	0.490-0.500	Viton
122-1216	Metal Clad	Positive	1 ¹ / ₃₂	0.3070	0.5433	0.3780	0.4805	0.490-0.500	Viton
122-1217	Ring & Band	Positive	1 ¹ / ₃₂	0.3000	0.4820	0.3050	0.4850	0.500-0.531	Viton
122-1218	Ring & Band	Positive	1 ¹ / ₃₂	0.3150	0.4820	0.3220	0.4950	0.500-0.531	Viton
122-1221	Metal Clad	Positive	9/ ₃₂	0.2710	0.4425	0.3440	0.5520	0.553-0.564	Teflon
122-1223	Metal Clad	Positive	9/ ₃₂	0.2480	0.4470	0.3500	0.4050	0.409-0.416	Teflon
122-1224	Metal Clad	Positive	3/ ₁₆	0.1700	0.4500	0.3370	0.3760	0.376-0.385	Teflon
122-1225	1-Ring	Positive	7/ ₁₆	0.4250	0.4960	0.3525	0.6450	0.655-0.665	Tef/Rub
122-1226	Metal Clad	Positive	1/ ₄	0.2460	0.5725	0.4335	0.4850	0.486-0.500	Viton
122-1227	Top Hat	Positive	7 mm	0.2480	0.8065	0.6240	0.4350	0.440-0.450	Viton
122-1229	Top Hat	Positive	7/ ₃₂	0.2050	0.7370	0.5720	0.4850	0.486-0.495	Viton
122-1230	Top Hat	Positive	1/ ₄	0.2480	0.5710	0.4275	0.4370	0.450-0.455	Viton
122-1232	Metal Clad	Positive	3/ ₈	0.3320	0.6910	0.5030	0.6270	0.628-0.630	Viton
122-1233	Umbrella	Umbrella	1 ¹ / ₃₂	0.3370	0.4500	0.3400	0.6150	N/A	Nylon
122-1234	Umbrella	Umbrella	3/ ₈	0.3670	0.4535	0.3370	0.6150	N/A	Nylon
122-1236	Ring & Band	Positive	1/ ₄	0.2323	0.4724	0.3090	0.4354	0.450-0.500	Viton
122-1237	Metal Clad	Positive	3/ ₈	0.3380	0.5210	0.3675	0.6180	0.620-0.630	Viton
122-1238	Viton Insert	Umbrella	1 ¹ / ₃₂	0.3150	0.4547	0.2850	0.6280	N/A	Nylon/Viton
122-1238+15	Viton Insert	Umbrella	1 ¹ / ₃₂	0.3380	0.4490	0.2850	0.6200	N/A	Nylon/Viton
122-1239	Top Hat	Positive	3/ ₈	0.3550	1.4890	1.3000	0.6200	0.625-0.635	Viton
122-1241	Metal Clad	Positive	3/ ₈	0.3650	0.6200	0.2760	0.5650	0.564-0.570	Viton
122-1242	Metal Clad	Positive	1 ¹ / ₃₂	0.3000	0.4540	0.2690	0.5460	0.550-0.560	Viton
122-1243	Top Hat	Positive	3/ ₈	0.3500	1.0900	0.9260	0.6180	0.629-0.631	Viton
122-1246	Metal Clad	Positive	6 mm	0.2000	0.4075	0.2543	0.4283	0.426-0.439	Viton
122-1249	Metal Clad	Positive	1 ¹ / ₃₂	0.3010	0.5895	0.4265	0.5460	0.550-0.560	Viton
122-1250	Metal Clad	Positive	7 mm	0.2400	0.3850	0.2675	0.3710	0.372-0.385	Viton
122-1251	Top Hat	Positive	1/ ₄	0.2060	0.7070	0.5575	0.4300	0.431-0.436	Viton
122-1252	Metal Clad	Positive	6 mm	0.1980	0.4200	0.2650	0.4300	0.431-0.439	Viton
122-1253	Metal Clad	Positive	6 mm	0.1970	0.4210	0.2660	0.4280	0.431-0.439	Viton
122-1254	Top Hat	Positive	7 mm	0.2323	0.6555	0.4330	0.4450	0.446-0.455	Viton
122-1258	Metal Clad	Positive	1 ¹ / ₃₂	0.2950	0.5450	0.4000	0.4980	0.500-0.510	Viton
122-1259	Metal Clad	Positive	5/ ₁₆	0.2760	0.5350	0.4020	0.4960	0.500-0.510	Viton
122-1260	Metal Clad	Positive	1 ¹ / ₃₂	0.2950	0.4960	0.3460	0.5430	0.550-0.560	Viton
122-1262	Metal Clad	Positive	7 mm	0.2320	0.4570	0.2820	0.4240	0.425-0.439	Viton
122-1263	Ring & Spring	Positive	8 mm	0.2750	0.5710	0.3500	0.4300	0.439-0.475	Viton
122-1266	Metal Clad	Positive	5.5 mm	0.1850	0.3915	0.2445	0.3980	0.400-0.415	Viton
122-1267	1-Ring	Positive	1 ¹ / ₃₂	0.3330	0.5100	0.3460	0.4920	0.500-0.531	Tef/Rub

Valve Stem Seal Numerical Listing

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1268	1-Ring	Positive	1 ¹ / ₃₂	0.3300	0.4950	0.3400	0.4560	0.475-0.500	Tef/Rub
122-1269	Ring & Band	Positive	8 mm	0.2900	0.4860	0.3375	0.4620	0.475-0.531	Viton
122-1270	Umbrella	Umbrella	1 ¹ / ₃₂	0.3120	0.5600	0.4245	0.6450	N/A	Viton
122-1274	Metal Clad	Positive	3 ⁸ / ₈	0.3260	0.7020	0.5150	0.6640	0.665-0.670	Viton
122-1276	Metal Clad	Positive	6 mm	0.2010	0.3985	0.2630	0.4165	0.431-0.439	Viton
122-1282	Metal Clad	Positive	5.5 mm	0.1800	0.4025	0.2350	0.3950	0.405-0.420	Viton
122-1285	Metal Clad	Positive	6 mm	0.2090	0.4050	0.2410	0.4300	0.431-0.439	Viton
122-1287	Viton Insert	Umbrella	3 ⁸ / ₈	0.3540	0.8110	0.6380	0.8010	N/A	Nylon/Viton
122-1288	Top Hat	Positive	6 mm	0.2126	0.5710	0.3620	0.4150	0.434-0.439	Viton
122-1299	Top Hat	Positive	5 ¹ / ₁₆	0.3000	1.1120	0.9580	0.4600	0.465-0.475	Viton
122-1300	Top Hat	Positive	5 ¹ / ₁₆	0.2920	1.1300	0.9280	0.5500	0.565-0.575	Viton
122-1301	Top Hat	Positive	3 ⁸ / ₈	0.3540	1.3100	1.1200	0.6180	0.625-0.635	Viton
122-1302	Top Hat	Positive	3 ⁸ / ₈	0.3540	1.2520	0.9450	0.5510	0.575-0.585	Viton
122-1314	Top Hat	Positive	5 ¹ / ₁₆	0.2780	0.8870	0.6543	0.4800	0.510-0.520	Viton
122-1315	Metal Clad	Positive	9 mm	0.3210	0.6770	0.5040	0.5350	0.540-0.550	Viton
122-1316	Ring & Band	Positive	1 ¹ / ₃₂	0.3228	0.4803	0.3071	0.5571	0.550-0.562	Viton
122-1318	Metal Clad	Positive	1 ¹ / ₃₂	0.3047	0.4331	0.2520	0.5079	0.512-0.520	Viton
122-1320	Top Hat	Positive	3 ⁸ / ₈	0.3390	1.1200	0.9250	0.6000	0.610-0.620	Viton
122-1322	Metal Clad	Positive	1 ² / ₂	0.4780	0.4940	0.3600	0.6550	0.662-0.670	Viton
122-1323	Metal Clad	Positive	5 ¹ / ₁₆	0.2795	0.5030	0.3520	0.4850	0.495-0.510	Viton
122-1324	Top Hat	Positive	7 mm	0.2410	0.7870	0.6610	0.4950	0.500-0.510	Viton
122-1325	Ring & Band	Positive	1 ¹ / ₃₂	0.3146	0.4862	0.3051	0.5905	0.625-0.660	Viton
122-1326	Ring & Band	Positive	1 ¹ / ₃₂	0.3180	0.4900	0.3250	0.6000	0.625-0.660	Viton
122-1327	Top Hat	Positive	5 ¹ / ₁₆	0.2020	0.7165	0.5630	0.4290	0.435-0.445	Viton
122-1328	Oil Shield	Umbrella	3 ⁸ / ₈	0.3710	0.5610	0.2500	0.7510	N/A	Nylon
122-1329	Metal Clad	Positive	6 mm	0.1930	0.3940	0.2440	0.3310	0.340-0.350	Viton
122-1330	Spring & Band	Positive	3 ⁸ / ₈	0.3390	0.5000	0.4100	0.5540	0.600-0.625	Viton
122-1331	Top Hat	Positive	6 mm	0.2100	0.5120	0.3500	0.4370	0.438-0.445	Viton
122-1332	Metal Clad	Positive	3 ⁸ / ₈	0.3189	0.4075	0.2480	0.5787	0.585-0.595	Viton
122-1333	Top Hat	Positive	5 ¹ / ₁₆	0.2970	1.0900	0.9150	0.5530	0.562-0.572	Viton
122-1334	Metal Clad	Positive	7 mm	0.2465	0.5600	0.3540	0.4875	0.510-0.520	Viton
122-1335	Metal Clad	Positive	7 mm	0.2550	0.5600	0.3540	0.4875	0.510-0.520	Viton
122-1336	Top Hat	Positive	5 ¹ / ₁₆	0.2750	0.9000	0.6300	0.5400	0.550-0.560	Viton
122-1337	Top Hat	Positive	5 ¹ / ₁₆	0.2830	0.8900	0.7150	0.4920	0.495-0.510	Viton
122-1338	Top Hat	Positive	5 ¹ / ₁₆	0.2830	0.8900	0.7150	0.4920	0.495-0.510	Viton
122-1340	Ring & Band	Positive	5 ¹ / ₁₆	0.2880	0.4810	0.3100	0.4650	0.475-0.500	Viton
122-1341	Ring & Band	Positive	5 ¹ / ₁₆	0.2910	0.4750	0.3120	0.4650	0.475-0.500	Viton
122-1342	Top Hat	Positive	6 mm	0.2100	0.8000	0.6890	0.4600	0.470-0.475	Viton
122-1344	Top Hat	Positive	7 mm	0.2410	0.7205	0.5630	0.4645	0.465-0.475	Viton
122-1345	Metal Clad	Positive	3 ⁸ / ₈	0.3455	0.5140	0.3030	0.6035	0.615-0.620	Viton
122-1346	Metal Clad	Positive	7 mm	0.2400	0.3820	0.2250	0.4350	0.437-0.439	Viton
122-1347	Metal Clad	Positive	5.5 mm	0.1750	0.4000	0.2425	0.4050	0.405-0.420	Viton
122-1348	Top Hat	Positive	7 mm	0.2370	0.6500	0.5400	0.4600	0.470-0.475	Viton
122-1349	Top Hat	Positive	6 mm	0.1969	0.7339	0.6020	0.3917	0.395-0.400	Viton
122-1350	All Rubber	Positive	7 mm	0.2520	0.5450	0.3650	0.4200	0.450-0.500	Viton
122-1351	Top Hat	Positive	7 mm	0.2440	0.8350	0.6600	0.4850	0.495-0.500	Viton
122-1354	Top Hat	Positive	5 ¹ / ₁₆	0.2800	1.0450	0.8650	0.5100	0.515-0.525	Viton
122-1355	Top Hat	Positive	6 mm	0.2126	0.6300	0.5197	0.3858	0.385-0.395	Viton
122-1356	Top Hat	Positive	6 mm	0.1980	0.7250	0.5900	0.4100	0.415-0.430	Viton
122-1357	Ring & Band	Positive	7 mm	0.2520	0.4850	0.3300	0.4950	0.500-0.531	Viton
122-1358	Ring & Band	Positive	7 mm	0.2520	0.4850	0.3300	0.4950	0.500-0.531	Viton
122-1360	Metal Clad	Positive	7 mm	0.2420	0.3450	0.2450	0.3700	0.375-0.385	Viton
122-1361	Metal Clad	Positive	3 ⁸ / ₈	0.3260	0.7020	0.4600	0.5800	0.585-0.590	Viton
122-1362	Ring & Spring	Positive	7 ¹ / ₁₆	0.3860	0.5300	0.3350	0.6050	0.645-0.665	Viton
122-1363	Metal Clad	Positive	6 mm	0.1850	0.3650	0.2700	0.3350	0.345-0.355	Viton
122-1364	Top Hat	Positive	5 ¹ / ₁₆	0.2920	1.118	0.9610	0.4570	0.500-0.510	Viton
122-1365	Top Hat	Positive	5 ¹ / ₁₆	0.2880	0.9528	0.7598	0.5197	0.538-0.558	Viton
122-1366	Metal Clad	Positive	6 mm	0.1961	0.4055	0.2461	0.4236	0.426-0.439	Viton
122-1369	Metal Clad	Positive	9 mm	0.3210	0.7300	0.5650	0.5450	0.552-0.562	Viton
122-1370	Top Hat	Positive	7 mm	0.2461	0.6340	0.4090	0.4905	0.510-0.520	Viton
122-1371	Top Hat	Positive	7 mm	0.2453	0.6340	0.4173	0.4900	0.510-0.520	Viton

Valve Stem Seal Numerical Listing

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1372	Metal Clad	Positive	8 mm	0.2820	0.3630	0.2380	0.5000	0.510-0.520	Viton
122-1373	Metal Clad	Positive	3/8	0.3220	0.3540	0.2400	0.4890	0.500-0.510	Viton
122-1374	Metal Clad	Positive	3/8	0.3320	0.3900	0.2460	0.5550	0.565	Viton
122-1375	Metal Clad	Positive	7 mm	0.2450	0.3550	0.2450	0.4680	0.475-0.485	Viton
122-1376	Valve Guide Seal	O-Ring	N/A	N/A	N/A	N/A	N/A	N/A	Nitrile
122-1377	Top Hat	Positive	11/32	0.3100	0.7650	0.4950	0.5600	0.562-0.570	Viton
122-1378	Top Hat	Positive	7 mm	0.2510	1.0270	0.6590	0.5020	0.505-0.515	Viton
122-1381	All Teflon	Positive	8 mm	0.3031	0.3960	0.2165	0.4035	0.418-0.428	Teflon
122-1382	Metal Clad	Positive	8 mm	0.2560	0.5155	0.4095	0.4765	0.482-0.502	Viton
122-1387	Metal Clad	Positive	11/32	0.2870	0.5157	0.3606	0.5570	0.560-0.565	Viton
122-1389	Metal Clad	Positive	8.5 mm	0.3030	0.4720	0.3150	0.5470	0.555	Viton
122-1391	Top Hat	Positive	3/8	0.3270	1.1180	0.9380	0.6140	0.629-0.631	Viton
122-1392	Umbrella	Umbrella	3/8	0.3720	0.7200	0.5550	0.8800	N/A	Nylon
122-1393	Top Hat	Positive	3/8	0.3150	1.2500	1.0700	0.5630	0.572-0.582	Viton
122-1394	Top Hat	Positive	6 mm	0.1910	0.8380	0.3950	0.3920	0.395-0.400	Viton
122-1395	All Rubber	Positive	9 mm	0.3425	0.5965	0.4291	0.4291	0.510-0.515	Viton
122-1397	All Rubber	Positive	9 mm	0.3465	0.6260	0.4490	0.4705	0.550-0.555	Viton
122-1398	All Rubber	Positive	3/8	0.3622	0.5885	0.4175	0.4866	0.555-0.565	Poly
122-1399	Metal Clad	Positive	5/16	0.2450	0.3850	0.2850	0.4130	0.420	Teflon
122-1400	Metal Clad	Positive	3/8	0.2740	0.4000	0.2820	0.6000	0.625	Teflon
122-1402	Metal Clad	Positive	8 mm	0.3050	0.5708	0.3937	0.5016	0.510-0.520	Viton
122-1407	Metal Clad	Positive	10 mm	0.3445	0.6516	0.4193	0.5315	0.536-0.546	Viton
122-1409	Top Hat	Positive	6 mm	0.1969	0.6248	0.4957	0.4197	0.430-0.440	Viton
122-1410	Top Hat	Positive	5.5 mm	0.1745	0.7086	0.5292	0.4252	0.435-0.440	Viton
122-1411	Top Hat	Positive	5.5 mm	0.1770	0.7086	0.5292	0.4272	0.435-0.440	Viton
122-1412	Umbrella	Umbrella	5/16	0.2408	0.5078	0.4015	0.6654	N/A	Viton
122-1413	Top Hat	Positive	5/16	0.2640	0.9430	0.7673	0.4875	0.510-0.520	Viton
122-1414	Oil Shield	Umbrella	1/2	0.5000	0.8200	0.6700	0.7900	N/A	Nylon
122-1415	Top Hat	Positive	9 mm	0.3315	0.7878	0.6340	0.5710	0.581-0.601	Viton
122-1418	Top Hat	Positive	6 mm	0.1900	0.7880	0.5150	0.4340	0.436-0.436	Viton
122-1419	Top Hat	Positive	7 mm	0.2450	0.6400	0.4850	0.4780	0.490-0.500	Viton
122-1420	Top Hat	Positive	9 mm	0.3268	0.8015	0.6295	0.5850	0.590-0.595	Viton
122-1421	Top Hat	Positive	8 mm	0.2820	0.8815	0.7245	0.5178	0.525-0.535	Viton
122-1422	1-Ring	Positive	13/32	0.3900	0.5130	0.3560	0.5800	0.615-0.625	Tef/Rub
122-1423	Top Hat	Positive	5/16	0.2800	1.1360	0.9700	0.5100	0.515-0.525	Viton
122-1424	Metal Clad	Positive	8 mm	0.2655	0.3645	0.2590	0.4318	0.440-0.450	Viton
122-1425	Metal Clad	Positive	5/16	0.2780	0.3976	0.2401	0.4590	0.465-0.475	Viton
122-1426	Oil Shield	Umbrella	3/8	0.3740	0.2320	N/A	0.3850	N/A	Nylon
122-1427	Top Hat	Positive	5.5 mm	0.1712	0.6673	0.4902	0.4149	0.420-0.430	Viton
122-1428	Metal Clad	Positive	5.5 mm	0.1850	0.4606	0.3256	0.3819	0.385-0.395	Viton
122-1429	Metal Clad	Positive	5.5 mm	0.1850	0.3149	0.1968	0.3779	0.390-0.400	Viton
122-1430	Metal Clad	Positive	5.5 mm	0.1831	0.3149	0.1968	0.3760	0.385-0.395	Viton
122-1431	Umbrella	Umbrella	11/32	0.2750	0.7920	0.6100	0.6620	N/A	Poly
122-1432	Metal Clad	Positive	7 mm	0.2634	0.5945	0.4213	0.4170	0.427-0.437	Viton
122-1433	Metal Clad	Positive	5 mm	0.1594	0.4468	0.2756	0.3465	0.350-0.360	Viton
122-1434	Top Hat	Positive	9 mm	0.3346	0.6811	0.5197	0.5039	0.513-0.523	Viton
122-1435	Top Hat	Positive	9 mm	0.3248	0.6811	0.5197	0.5039	0.513-0.523	Viton
122-1436	Top Hat	Positive	3/8	0.3440	1.2480	1.0600	0.5630	0.575-0.585	Viton
122-1437	All Teflon	Positive	7/16	0.4400	0.5150	0.3450	0.5850	0.605-0.615	Teflon
122-1438	Metal Clad	Positive	7 mm	0.2362	0.4527	0.3582	0.4370	0.450-0.457	Viton
122-1439	Top Hat	Positive	5/16	0.2874	0.7343	0.5669	0.5413	0.550-0.560	Viton
122-1440	Top Hat	Positive	5.5 mm	0.1791	0.7874	0.6102	0.4193	0.430-0.440	Viton
122-1441	Top Hat	Positive	7 mm	0.2303	0.6528	0.4409	0.4606	0.470-0.480	Viton
122-1442	Metal Clad	Positive	6 mm	0.1980	0.3818	0.2765	0.3307	0.381-0.391	Viton
122-1443	Oil Shield	Umbrella	3/8	0.3680	0.5990	0.4375	0.6800	N/A	Nylon
122-1444	Top Hat	Positive	5.5 mm	0.1810	0.7560	0.5950	0.4252	0.435-0.440	Viton
122-1445	Top Hat	Positive	8 mm	0.2728	0.9783	0.8150	0.4882	0.498-0.508	Viton
122-1447	Top Hat	Positive	6 mm	0.1929	0.6602	0.5000	0.4110	0.421-0.431	Viton
122-1448	Metal Clad	Positive	3/8	0.3300	0.5100	0.2950	0.5500	0.555-0.565	Viton
122-1449	Top Hat	Positive	7 mm	0.2470	0.7950	0.6385	0.4750	0.480-0.500	Viton
122-1451	Metal Clad	Positive	8 mm	0.2660	0.3740	0.2640	0.4600	0.465-0.475	Viton

Valve Stem Seal Numerical Listing

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1452	Metal Clad	Positive	5 mm	0.1744	0.3700	0.2693	0.3728	0.383-0.393	Viton
122-1453	Top Hat	Positive	5 mm	0.1770	0.7050	0.5390	0.3465	0.355-0.365	Viton
122-1454	Top Hat	Positive	6 mm	0.1949	0.7087	0.5138	0.4264	0.435-0.440	Viton
122-1455	Top Hat	Positive	6 mm	0.1929	0.7087	0.5138	0.4264	0.435-0.440	Viton
122-1456	Metal Clad	Positive	6 mm	0.1996	0.3976	0.2421	0.3307	0.340-0.350	Viton
122-1457	Top Hat	Positive	6 mm	0.1969	0.6417	0.4937	0.4638	0.475-0.480	Viton
122-1458	Top Hat	Positive	5 mm	0.1713	0.6094	0.4574	0.2913	0.295-0.305	Viton
122-1460	Top Hat	Positive	5/16	0.2846	0.8307	0.6550	0.5433	0.555-0.565	Viton
122-1461	Metal Clad	Positive	3/8	0.3160	0.5970	0.4230	0.5250	0.530-0.540	Viton
122-1462	Metal Clad	Positive	7 mm	0.2756	0.3819	0.2244	0.4567	0.465-0.475	Viton
122-1463	Top Hat	Positive	3/8	0.3570	2.0250	1.8350	0.5500	0.555-0.565	Viton
122-1464	Metal Clad	Positive	7 mm	0.2323	0.4724	0.3268	0.4654	0.475-0.485	Viton
122-1465	Metal Clad	Positive	7 mm	0.2362	0.4724	0.3268	0.4654	0.475-0.485	Viton
122-1466	Top Hat	Positive	9 mm	0.3360	0.8300	0.6800	0.5760	0.586-0.596	Viton
122-1467	Top Hat	Positive	5.5 mm	0.1724	0.7800	0.6083	0.4213	0.430-0.440	Viton
122-1468	Metal Clad	Positive	5 mm	0.1338	0.3149	0.2110	0.2905	0.300-0.310	Viton
122-1469	Metal Clad	Positive	8 mm	0.2638	0.4331	0.2598	0.4567	0.465-0.475	Viton
122-1470	Top Hat	Positive	7 mm	0.2460	0.3000	0.0920	0.4500	N/A	Viton
122-1471	Metal Clad	Positive	1/2	0.4197	0.5197	0.3189	0.6378	0.650-0.670	Viton
122-1472	Metal Clad	Positive	8 mm	0.2701	0.5472	0.4016	0.4709	0.472-0.477	Viton
122-1473	Metal Clad	Positive	9 mm	0.3130	0.4350	0.2087	0.4601	0.465-0.485	ACM
122-1474	Metal Clad	Positive	9 mm	0.3047	0.5571	0.3917	0.6260	0.630-0.637	Viton
122-1475	All Rubber	Positive	7 mm	0.2600	0.4311	0.2933	0.4040	0.465-0.485	Viton
122-1476	All Metal Clad	Positive	8 mm	0.2953	0.5177	0.3307	0.5102	0.513-0.514	Viton
122-1477	Top Hat	Positive	7 mm	0.2539	0.6024	0.4213	0.4941	0.510-0.520	Viton
122-1478	Metal Clad	Positive	7 mm	0.2402	0.3681	0.2421	0.4614	0.470-0.480	Viton
122-1479	Metal Clad	Positive	7 mm	0.2433	0.3642	0.2303	0.4567	0.465-0.480	Viton
122-1480	Metal Clad	Positive	6 mm	0.2047	0.3700	0.2106	0.3866	0.392-0.398	Viton
122-1481	Metal Clad	Positive	6 mm	0.2059	0.3700	0.2106	0.3866	0.392-0.398	Viton
122-1482	Metal Clad	Positive	9 mm	0.3157	0.4921	0.3307	0.5197	0.530-0.540	Viton
122-1483	Metal Clad	Positive	8 mm	0.2764	0.3622	0.2264	0.4984	0.510-.0520	Viton
122-1484	Metal Clad	Positive	8 mm	0.2787	0.3701	0.2303	0.4961	0.510-.0520	Viton
122-1485	Ring & Band	Positive	7 mm	0.2598	0.4764	0.3071	0.3760	0.430-0.440	Viton
122-1487	Metal Clad	Positive	8 mm	0.2913	0.4055	0.2677	0.4106	0.440-0.450	Viton
122-1488	Top Hat	Positive	7 mm	0.2362	0.9173	0.7354	0.4606	0.470-0.480	Viton
122-1489	Top Hat	Positive	7 mm	0.2362	0.9173	0.7343	0.4606	0.470-0.480	Viton
122-1490	Top Hat	Positive	3/8	0.3450	1.2650	1.0700	0.5700	0.572-0.592	Viton
122-1491	Metal Clad	Positive	9 mm	0.3031	0.4530	0.2700	0.4390	0.460-0.475	Viton
122-1492	Metal Clad	Positive	9 mm	0.3157	0.4173	0.2420	0.4512	0.460-0.475	Viton
122-1493	Top Hat	Positive	5.5 mm	0.1811	0.6614	0.5511	0.3957	0.405-0.415	Viton
122-9000		Valve Stem Seal Protector Sleeves	5/16						
122-9001		Valve Stem Seal Protector Sleeves	11/32						
122-9002		Valve Stem Seal Protector Sleeves	3/8						
122-9003	Valve Seal Driver	White							
122-9004	Valve Seal Driver	Black							
122-9005	Valve Seal Driver	Red							
322-1000	All Teflon	Positive	5/16	0.2950	0.5165	0.3550	0.3900	0.410-0.420	Teflon
322-1001	All Teflon	Positive	5/16	0.2920	0.5100	0.3325	0.4800	0.500	Teflon
322-1002	All Teflon	Positive	5/16	0.2950	0.5200	0.3480	0.5120	0.531	Teflon
322-1003	All Teflon	Positive	11/32	0.3260	0.5110	0.3370	0.4720	0.474-0.484	Teflon
322-1004	All Teflon	Positive	11/32	0.3230	0.5110	0.3325	0.5000	0.502-0.512	Teflon
322-1006	All Teflon	Positive	3/8	0.3510	0.5040	0.3330	0.4720	0.474-0.484	Teflon
322-1007	All Teflon	Positive	3/8	0.3450	0.5070	0.3265	0.5030	0.505-0.515	Teflon
322-1008	Metal Clad	Positive	5/16	0.2800	0.5020	0.3450	0.4900	0.500	Viton
322-1009	Metal Clad	Positive	5/16	0.2720	0.5160	0.3550	0.5150	0.531	Viton
322-1010	Metal Clad	Positive	11/32	0.3020	0.5240	0.3800	0.4900	0.500	Viton
322-1011	Metal Clad	Positive	11/32	0.3030	0.5270	0.3600	0.5200	0.531	Viton
322-1012	Metal Clad	Positive	3/8	0.3400	0.5300	0.3800	0.4900	0.500	Viton
322-1013	Metal Clad	Positive	3/8	0.3380	0.5200	0.3550	0.5200	0.531	Viton
322-1014	All Metal Clad	Positive	5/16	0.2830	0.4980	0.3400	0.4950	0.500	Viton
322-1015	All Metal Clad	Positive	5/16	0.3050	0.4980	0.3400	0.5250	0.531	Viton

Valve Stem Seal Numerical Listing

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
322-1016	All Metal Clad	Positive	$1\frac{1}{32}$	0.3040	0.4980	0.3400	0.4950	0.500	Viton
322-1017	All Metal Clad	Positive	$1\frac{1}{32}$	0.3040	0.4980	0.3400	0.5250	0.531	Viton
322-1018	Metal Clad	Positive	$\frac{5}{16}$	0.2380	0.4100	0.2900	0.4900	0.500	Teflon
322-1019	Metal Clad	Positive	$\frac{5}{16}$	0.2400	0.3750	0.2900	0.5150	0.525	Teflon
322-1020	Metal Clad	Positive	$1\frac{1}{32}$	0.2650	0.3750	0.2850	0.4900	0.500	Teflon
322-1021	Metal Clad	Positive	$1\frac{1}{32}$	0.2680	0.3750	0.2850	0.5150	0.531	Teflon
322-1022	Metal Clad	Positive	$\frac{3}{8}$	0.2850	0.3750	0.2900	0.5150	0.531	Teflon
322-1023	Metal Clad	Positive	$\frac{3}{8}$	0.3000	0.3750	0.2900	0.5400	0.562	Teflon
322-1024	Metal Clad	Positive	$\frac{3}{8}$	0.3228	0.4331	0.2520	0.5433	0.562	Viton

Valve Stem Seals

Listed By Style, Type, & Nominal Stem Diameter

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-9001		Valve Stem Seal Protector Sleeves	1 ¹ / ₃₂						
122-9002		Valve Stem Seal Protector Sleeves	3 ⁸ / ₈						
122-9000		Valve Stem Seal Protector Sleeves	5 ¹ / ₁₆						
122-1009	1-Ring	Positive	5 ¹ / ₁₆	0.2950	0.5045	0.3340	0.4585	0.475-0.531	Tef/Rub
122-1268	1-Ring	Positive	1 ¹ / ₃₂	0.3300	0.4950	0.3400	0.4560	0.475-0.500	Tef/Rub
122-1267	1-Ring	Positive	1 ¹ / ₃₂	0.3330	0.5100	0.3460	0.4920	0.500-0.531	Tef/Rub
122-1014	1-Ring	Positive	1 ¹ / ₃₂	0.3340	0.5075	0.3450	0.5200	0.531-0.562	Tef/Rub
122-1011	1-Ring	Positive	3 ⁸ / ₈	0.3543	0.5079	0.3465	0.4490	0.475-0.531	Tef/Rub
122-1017	1-Ring	Positive	3 ⁸ / ₈	0.3630	0.5065	0.3375	0.5520	0.562-0.600	Tef/Rub
122-1015	1-Ring	Positive	3 ⁸ / ₈	0.3650	0.5100	0.3450	0.5200	0.531-0.562	Tef/Rub
122-1422	1-Ring	Positive	1 ³ / ₃₂	0.3900	0.5130	0.3560	0.5800	0.615-0.625	Tef/Rub
122-1225	1-Ring	Positive	7 ¹ / ₁₆	0.4250	0.4960	0.3525	0.6450	0.655-0.665	Tef/Rub
122-1207	1-Ring	Positive	1 ² / ₂	0.4900	0.5000	0.3300	0.6480	0.650-0.815	Tef/Rub
122-1039	1-Spring	Positive	9 ³ / ₃₂	0.2650	0.3650	0.2545	0.4550	0.475-0.515	Poly
122-1048	2-Ring	Positive	1 ¹ / ₃₂	0.3050	0.4850	0.3235	0.5050	0.510-0.562	Poly
122-1040	2-Ring	Positive	1 ¹ / ₃₂	0.3120	0.3000	0.4600	0.5550	0.562-0.600	Poly
122-1047	2-Ring	Positive	1 ¹ / ₃₂	0.3150	0.4525	0.3050	0.4750	0.475-0.515	Poly
122-1196	2-Ring	Positive	1 ¹ / ₃₂	0.3310	0.4815	0.3135	0.5250	0.531-0.562	Nitrile
122-1031	2-Ring	Positive	3 ⁸ / ₈	0.3425	0.4525	0.3070	0.5800	0.625-0.660	Poly
322-1014	All Metal Clad	Positive	5 ¹ / ₁₆	0.2830	0.4980	0.3400	0.4950	0.500	Viton
122-1476	All Metal Clad	Positive	8 mm	0.2953	0.5177	0.3307	0.5102	0.513-0.514	Viton
322-1016	All Metal Clad	Positive	1 ¹ / ₃₂	0.3040	0.4980	0.3400	0.4950	0.500	Viton
322-1017	All Metal Clad	Positive	1 ¹ / ₃₂	0.3040	0.4980	0.3400	0.5250	0.531	Viton
322-1015	All Metal Clad	Positive	5 ¹ / ₁₆	0.3050	0.4980	0.3400	0.5250	0.531	Viton
122-1350	All Rubber	Positive	7 mm	0.2520	0.5450	0.3650	0.4200	0.450-0.500	Viton
122-1475	All Rubber	Positive	7 mm	0.2600	0.4311	0.2933	0.4040	0.465-0.485	Viton
122-1079	All Rubber	Positive	5 ¹ / ₁₆	0.2940	0.5490	0.4600	0.4250	0.439-0.475	Viton
122-1395	All Rubber	Positive	9 mm	0.3425	0.5965	0.4291	0.4291	0.510-0.515	Viton
122-1046	All Rubber	Positive	3 ⁸ / ₈	0.3450	0.5700	0.4040	0.5500	0.562-0.600	Poly
122-1397	All Rubber	Positive	9 mm	0.3465	0.6260	0.4490	0.4705	0.550-0.555	Viton
122-1063	All Rubber	Positive	1 ¹ / ₃₂	0.3500	0.5610	0.4335	0.5500	0.562-0.600	Viton
122-1398	All Rubber	Positive	3 ⁸ / ₈	0.3622	0.5885	0.4175	0.4866	0.555-0.565	Poly
122-1192	All Teflon	Positive	1 ⁴ / ₄	0.2320	0.5060	0.3360	0.3660	0.378-0.388	Teflon
322-1001	All Teflon	Positive	5 ¹ / ₁₆	0.2920	0.5100	0.3325	0.4800	0.500	Teflon
322-1002	All Teflon	Positive	5 ¹ / ₁₆	0.2950	0.5200	0.3480	0.5120	0.531	Teflon
322-1000	All Teflon	Positive	5 ¹ / ₁₆	0.2950	0.5165	0.3550	0.3900	0.410-0.420	Teflon
122-1189	All Teflon	Positive	5 ¹ / ₁₆	0.2950	0.5165	0.3550	0.3900	0.410-0.420	Teflon
122-1381	All Teflon	Positive	8 mm	0.3031	0.3960	0.2165	0.4035	0.418-0.428	Teflon
322-1004	All Teflon	Positive	1 ¹ / ₃₂	0.3230	0.5110	0.3325	0.5000	0.502-0.512	Teflon
322-1003	All Teflon	Positive	1 ¹ / ₃₂	0.3260	0.5110	0.3370	0.4720	0.474-0.484	Teflon
322-1007	All Teflon	Positive	3 ⁸ / ₈	0.3450	0.5070	0.3265	0.5030	0.505-0.515	Teflon
322-1006	All Teflon	Positive	3 ⁸ / ₈	0.3510	0.5040	0.3330	0.4720	0.474-0.484	Teflon
122-1437	All Teflon	Positive	7 ¹ / ₁₆	0.4400	0.5150	0.3450	0.5850	0.605-0.615	Teflon
122-1468	Metal Clad	Positive	5 mm	0.1338	0.3149	0.2110	0.2905	0.300-0.310	Viton
122-1433	Metal Clad	Positive	5 mm	0.1594	0.4468	0.2756	0.3465	0.350-0.360	Viton
122-1224	Metal Clad	Positive	3 ¹ / ₁₆	0.1700	0.4500	0.3370	0.3760	0.376-0.385	Teflon
122-1452	Metal Clad	Positive	5 mm	0.1744	0.3700	0.2693	0.3728	0.383-0.393	Viton
122-1347	Metal Clad	Positive	5.5 mm	0.1750	0.4000	0.2425	0.4050	0.405-0.420	Viton
122-1282	Metal Clad	Positive	5.5 mm	0.1800	0.4025	0.2350	0.3950	0.405-0.420	Viton
122-1430	Metal Clad	Positive	5.5 mm	0.1831	0.3149	0.1968	0.3760	0.385-0.395	Viton
122-1266	Metal Clad	Positive	5.5 mm	0.1850	0.3915	0.2445	0.3980	0.400-0.415	Viton
122-1162	Metal Clad	Positive	5.5 mm	0.1850	0.4530	0.2760	0.3650	0.368-0.376	Viton
122-1428	Metal Clad	Positive	5.5 mm	0.1850	0.4606	0.3256	0.3819	0.385-0.395	Viton
122-1429	Metal Clad	Positive	5.5 mm	0.1850	0.3149	0.1968	0.3779	0.390-0.400	Viton
122-1363	Metal Clad	Positive	6 mm	0.1850	0.3650	0.2700	0.3350	0.345-0.355	Viton
122-1155	Metal Clad	Positive	5.5 mm	0.1860	0.3720	0.2470	0.3580	0.359-0.369	Viton
122-1202	Metal Clad	Positive	7 ³ / ₃₂	0.1920	0.3898	0.2480	0.4330	0.434-0.439	Viton
122-1201	Metal Clad	Positive	7 ³ / ₃₂	0.1920	0.3898	0.2480	0.4330	0.434-0.439	Viton
122-1329	Metal Clad	Positive	6 mm	0.1930	0.3940	0.2440	0.3310	0.340-0.350	Viton

Valve Stem Seals

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SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1366	Metal Clad	Positive	6 mm	0.1961	0.4055	0.2461	0.4236	0.426-0.439	Viton
122-1253	Metal Clad	Positive	6 mm	0.1970	0.4210	0.2660	0.4280	0.431-0.439	Viton
122-1442	Metal Clad	Positive	6 mm	0.1980	0.3818	0.2765	0.3307	0.381-0.391	Viton
122-1252	Metal Clad	Positive	6 mm	0.1980	0.4200	0.2650	0.4300	0.431-0.439	Viton
122-1456	Metal Clad	Positive	6 mm	0.1996	0.3976	0.2421	0.3307	0.340-0.350	Viton
122-1246	Metal Clad	Positive	6 mm	0.2000	0.4075	0.2543	0.4283	0.426-0.439	Viton
122-1276	Metal Clad	Positive	6 mm	0.2010	0.3985	0.2630	0.4165	0.431-0.439	Viton
122-1165	Metal Clad	Positive	6 mm	0.2040	0.4331	0.2677	0.4290	0.430-0.439	Viton
122-1480	Metal Clad	Positive	6 mm	0.2047	0.3700	0.2106	0.3866	0.392-0.398	Viton
122-1481	Metal Clad	Positive	6 mm	0.2059	0.3700	0.2106	0.3866	0.392-0.398	Viton
122-1150	Metal Clad	Positive	6 mm	0.2080	0.4500	0.2910	0.3860	0.387-0.396	Viton
122-1285	Metal Clad	Positive	6 mm	0.2090	0.4050	0.2410	0.4300	0.431-0.439	Viton
122-1180	Metal Clad	Positive	6 mm	0.2120	0.3150	0.1969	0.4300	0.431-0.439	Viton
122-1181	Metal Clad	Positive	6 mm	0.2120	0.3150	0.1969	0.4300	0.431-0.439	Viton
122-1147	Metal Clad	Positive	6 mm	0.2160	0.4016	0.2362	0.4250	0.426-0.439	Viton
122-1114	Metal Clad	Positive	6.5 mm	0.2204	0.4800	0.2950	0.4610	0.475-0.485	Viton
122-1130	Metal Clad	Positive	7 mm	0.2276	0.4449	0.2913	0.4409	0.450-0.460	Viton
122-1139	Metal Clad	Positive	7 mm	0.2310	0.5050	0.2756	0.4260	0.430-0.440	Viton
122-1262	Metal Clad	Positive	7 mm	0.2320	0.4570	0.2820	0.4240	0.425-0.439	Viton
122-1464	Metal Clad	Positive	7 mm	0.2323	0.4724	0.3268	0.4654	0.475-0.485	Viton
122-1152	Metal Clad	Positive	6.5 mm	0.2340	0.3950	0.2550	0.4720	0.475-0.485	Viton
122-1438	Metal Clad	Positive	7 mm	0.2362	0.4527	0.3582	0.4370	0.450-0.457	Viton
122-1465	Metal Clad	Positive	7 mm	0.2362	0.4724	0.3268	0.4654	0.475-0.485	Viton
322-1018	Metal Clad	Positive	5/16	0.2380	0.4100	0.2900	0.4900	0.500	Teflon
122-1158	Metal Clad	Positive	6.5 mm	0.2400	0.4528	0.2756	0.4130	0.414-0.419	Viton
122-1250	Metal Clad	Positive	7 mm	0.2400	0.3850	0.2675	0.3710	0.372-0.385	Viton
122-1346	Metal Clad	Positive	7 mm	0.2400	0.3820	0.2250	0.4350	0.437-0.439	Viton
322-1019	Metal Clad	Positive	5/16	0.2400	0.3750	0.2900	0.5150	0.525	Teflon
122-1478	Metal Clad	Positive	7 mm	0.2402	0.3681	0.2421	0.4614	0.470-0.480	Viton
122-1360	Metal Clad	Positive	7 mm	0.2420	0.3450	0.2450	0.3700	0.375-0.385	Viton
122-1479	Metal Clad	Positive	7 mm	0.2433	0.3642	0.2303	0.4567	0.465-0.480	Viton
122-1375	Metal Clad	Positive	7 mm	0.2450	0.3550	0.2450	0.4680	0.475-0.485	Viton
122-1198	Metal Clad	Positive	9/32	0.2450	0.5118	0.3543	0.5060	0.507-0.515	Viton
122-1399	Metal Clad	Positive	5/16	0.2450	0.3850	0.2850	0.4130	0.420	Teflon
122-1226	Metal Clad	Positive	1/4	0.2460	0.5725	0.4335	0.4850	0.486-0.500	Viton
122-1334	Metal Clad	Positive	7 mm	0.2465	0.5600	0.3540	0.4875	0.510-0.520	Viton
122-1223	Metal Clad	Positive	9/32	0.2480	0.4470	0.3500	0.4050	0.409-0.416	Teflon
122-1141	Metal Clad	Positive	7 mm	0.2520	0.5906	0.4365	0.4670	0.468-0.475	Viton
122-1142	Metal Clad	Positive	9/32	0.2520	0.3819	0.2165	0.4720	0.475-0.485	Viton
122-1149	Metal Clad	Positive	9/32	0.2520	0.5118	0.3622	0.4720	0.475-0.485	Viton
122-1073	Metal Clad	Positive	7 mm	0.2540	0.3910	0.3020	0.4120	0.434-0.439	Viton
122-1187	Metal Clad	Positive	7 mm	0.2550	0.4252	0.2810	0.4640	0.465-0.475	Viton
122-1335	Metal Clad	Positive	7 mm	0.2550	0.5600	0.3540	0.4875	0.510-0.520	Viton
122-1382	Metal Clad	Positive	8 mm	0.2560	0.5155	0.4095	0.4765	0.482-0.502	Viton
122-1432	Metal Clad	Positive	7 mm	0.2634	0.5945	0.4213	0.4170	0.427-0.437	Viton
122-1469	Metal Clad	Positive	8 mm	0.2638	0.4331	0.2598	0.4567	0.465-0.475	Viton
322-1020	Metal Clad	Positive	11/32	0.2650	0.3750	0.2850	0.4900	0.500	Teflon
122-1424	Metal Clad	Positive	8 mm	0.2655	0.3645	0.2590	0.4318	0.440-0.450	Viton
122-1451	Metal Clad	Positive	8 mm	0.2660	0.3740	0.2640	0.4600	0.465-0.475	Viton
322-1021	Metal Clad	Positive	11/32	0.2680	0.3750	0.2850	0.5150	0.531	Teflon
122-1472	Metal Clad	Positive	8 mm	0.2701	0.5472	0.4016	0.4709	0.472-0.477	Viton
122-1221	Metal Clad	Positive	9/32	0.2710	0.4425	0.3440	0.5520	0.553-0.564	Teflon
322-1009	Metal Clad	Positive	5/16	0.2720	0.5160	0.3550	0.5150	0.531	Viton
122-1159	Metal Clad	Positive	8 mm	0.2740	0.4528	0.2756	0.4650	0.466-0.475	Viton
122-1400	Metal Clad	Positive	3/8	0.2740	0.4000	0.2820	0.6000	0.625	Teflon
122-1462	Metal Clad	Positive	7 mm	0.2756	0.3819	0.2244	0.4567	0.465-0.475	Viton
122-1259	Metal Clad	Positive	5/16	0.2760	0.5350	0.4020	0.4960	0.500-0.510	Viton
122-1483	Metal Clad	Positive	8 mm	0.2764	0.3622	0.2264	0.4984	0.510-0.520	Viton
122-1137	Metal Clad	Positive	5/16	0.2780	0.6417	0.4606	0.4840	0.485-0.495	Viton

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SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1425	Metal Clad	Positive	5/16	0.2780	0.3976	0.2401	0.4590	0.465-0.475	Viton
122-1484	Metal Clad	Positive	8 mm	0.2787	0.3701	0.2303	0.4961	0.510-.0520	Viton
122-1086	Metal Clad	Positive	5/16	0.2795	0.5120	0.3620	0.5120	0.520-0.530	Viton
122-1323	Metal Clad	Positive	5/16	0.2795	0.5030	0.3520	0.4850	0.495-0.510	Viton
122-1127	Metal Clad	Positive	8 mm	0.2795	0.4055	0.2400	0.5060	0.512-0.517	Viton
322-1008	Metal Clad	Positive	5/16	0.2800	0.5020	0.3450	0.4900	0.500	Viton
122-1132	Metal Clad	Positive	8 mm	0.2800	0.5035	0.3510	0.5470	0.552-0.557	Viton
122-1125	Metal Clad	Positive	8 mm	0.2800	0.4685	0.3150	0.5512	0.552-0.562	Viton
122-1088	Metal Clad	Positive	7.5 mm	0.2820	0.4040	0.2680	0.5100	0.511-0.520	Viton
122-1163	Metal Clad	Positive	8 mm	0.2820	0.5196	0.3560	0.5060	0.507-0.515	Viton
122-1372	Metal Clad	Positive	8 mm	0.2820	0.3630	0.2380	0.5000	0.510-0.520	Viton
122-1089	Metal Clad	Positive	8 mm	0.2820	0.3960	0.3120	0.4120	0.420-0.430	Viton
122-1116	Metal Clad	Positive	8 mm	0.2840	0.5394	0.4016	0.4700	0.475-0.485	ACM
122-1204	Metal Clad	Positive	5/16	0.2850	0.5118	0.3543	0.5250	0.526-0.531	Viton
122-1205	Metal Clad	Positive	5/16	0.2850	0.5118	0.3543	0.5250	0.526-0.531	Viton
322-1022	Metal Clad	Positive	3/8	0.2850	0.3750	0.2900	0.5150	0.531	Teflon
122-1387	Metal Clad	Positive	11/32	0.2870	0.5157	0.3606	0.5570	0.560-0.565	Viton
122-1082	Metal Clad	Positive	8 mm	0.2900	0.5390	0.4295	0.4680	0.475-0.485	Viton
122-1067	Metal Clad	Positive	8 mm	0.2900	0.4250	0.3150	0.4580	0.475-0.480	Viton
122-1487	Metal Clad	Positive	8 mm	0.2913	0.4055	0.2677	0.4106	0.440-0.450	Viton
122-1260	Metal Clad	Positive	11/32	0.2950	0.4960	0.3460	0.5430	0.550-0.560	Viton
122-1258	Metal Clad	Positive	11/32	0.2950	0.5450	0.4000	0.4980	0.500-0.510	Viton
122-1242	Metal Clad	Positive	11/32	0.3000	0.4540	0.2690	0.5460	0.550-0.560	Viton
322-1023	Metal Clad	Positive	3/8	0.3000	0.3750	0.2900	0.5400	0.562	Teflon
122-1249	Metal Clad	Positive	11/32	0.3010	0.5895	0.4265	0.5460	0.550-0.560	Viton
322-1010	Metal Clad	Positive	11/32	0.3020	0.5240	0.3800	0.4900	0.500	Viton
122-1389	Metal Clad	Positive	8.5 mm	0.3030	0.4720	0.3150	0.5470	0.555	Viton
322-1011	Metal Clad	Positive	11/32	0.3030	0.5270	0.3600	0.5200	0.531	Viton
122-1491	Metal Clad	Positive	9 mm	0.3031	0.4530	0.2700	0.4390	0.460-0.475	Viton
122-1318	Metal Clad	Positive	11/32	0.3047	0.4331	0.2520	0.5079	0.512-0.520	Viton
122-1474	Metal Clad	Positive	9 mm	0.3047	0.5571	0.3917	0.6260	0.630-0.637	Viton
122-1402	Metal Clad	Positive	8 mm	0.3050	0.5708	0.3937	0.5016	0.510-0.520	Viton
122-1203	Metal Clad	Positive	11/32	0.3060	0.4180	0.2635	0.4820	0.485-0.500	Viton
122-1216	Metal Clad	Positive	11/32	0.3070	0.5433	0.3780	0.4805	0.490-0.500	Viton
122-1199	Metal Clad	Positive	11/32	0.3080	0.5827	0.4252	0.5490	0.550-0.562	Viton
122-1200	Metal Clad	Positive	11/32	0.3080	0.5827	0.4311	0.5461	0.550-0.562	Viton
122-1215	Metal Clad	Positive	11/32	0.3106	0.5430	0.3820	0.4800	0.490-0.500	Viton
122-1473	Metal Clad	Positive	9 mm	0.3130	0.4350	0.2087	0.4601	0.465-0.485	ACM
122-1482	Metal Clad	Positive	9 mm	0.3157	0.4921	0.3307	0.5197	0.530-0.540	Viton
122-1492	Metal Clad	Positive	9 mm	0.3157	0.4173	0.2420	0.4512	0.460-0.475	Viton
122-1461	Metal Clad	Positive	3/8	0.3160	0.5970	0.4230	0.5250	0.530-0.540	Viton
122-1332	Metal Clad	Positive	3/8	0.3189	0.4075	0.2480	0.5787	0.585-0.595	Viton
122-1369	Metal Clad	Positive	9 mm	0.3210	0.7300	0.5650	0.5450	0.552-0.562	Viton
122-1315	Metal Clad	Positive	9 mm	0.3210	0.6770	0.5040	0.5350	0.540-0.550	Viton
122-1373	Metal Clad	Positive	3/8	0.3220	0.3540	0.2400	0.4890	0.500-0.510	Viton
322-1024	Metal Clad	Positive	3/8	0.3228	0.4331	0.2520	0.5433	0.562	Viton
122-1274	Metal Clad	Positive	3/8	0.3260	0.7020	0.5150	0.6640	0.665-0.670	Viton
122-1361	Metal Clad	Positive	3/8	0.3260	0.7020	0.4600	0.5800	0.585-0.590	Viton
122-1448	Metal Clad	Positive	3/8	0.3300	0.5100	0.2950	0.5500	0.555-0.565	Viton
122-1232	Metal Clad	Positive	3/8	0.3320	0.6910	0.5030	0.6270	0.628-0.630	Viton
122-1374	Metal Clad	Positive	3/8	0.3320	0.3900	0.2460	0.5550	0.565	Viton
322-1013	Metal Clad	Positive	3/8	0.3380	0.5200	0.3550	0.5200	0.531	Viton
122-1237	Metal Clad	Positive	3/8	0.3380	0.5210	0.3675	0.6180	0.620-0.630	Viton
322-1012	Metal Clad	Positive	3/8	0.3400	0.5300	0.3800	0.4900	0.500	Viton
122-1407	Metal Clad	Positive	10 mm	0.3445	0.6516	0.4193	0.5315	0.536-0.546	Viton
122-1345	Metal Clad	Positive	3/8	0.3455	0.5140	0.3030	0.6035	0.615-0.620	Viton
122-1241	Metal Clad	Positive	3/8	0.3650	0.6200	0.2760	0.5650	0.564-0.570	Viton
122-1471	Metal Clad	Positive	1/2	0.4197	0.5197	0.3189	0.6378	0.650-0.670	Viton
122-1322	Metal Clad	Positive	1/2	0.4780	0.4940	0.3600	0.6550	0.662-0.670	Viton

Valve Stem Seals

Listed By Style, Type, & Nominal Stem Diameter

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1443	Oil Shield	Umbrella	3/8	0.3680	0.5990	0.4375	0.6800	N/A	Nylon
122-1328	Oil Shield	Umbrella	3/8	0.3710	0.5610	0.2500	0.7510	N/A	Nylon
122-1426	Oil Shield	Umbrella	3/8	0.3740	0.2320	N/A	0.3850	N/A	Nylon
122-1177	Oil Shield	Umbrella	3/8	0.3820	0.2120	0.0390	0.5710	N/A	Nylon
122-1414	Oil Shield	Umbrella	1/2	0.5000	0.8200	0.6700	0.7900	N/A	Nylon
122-1043	O-Ring	O-Ring	5/16	0.2740	0.0750	N/A	N/A	N/A	Nitrile
122-1023	O-Ring	O-Ring	3/8	0.3080	0.0680	N/A	N/A	N/A	Poly
122-1175	O-Ring	O-Ring	19/32	0.3650	0.0690	N/A	N/A	N/A	Nitrile
122-1236	Ring & Band	Positive	1/4	0.2323	0.4724	0.3090	0.4354	0.450-0.500	Viton
122-1358	Ring & Band	Positive	7 mm	0.2520	0.4850	0.3300	0.4950	0.500-0.531	Viton
122-1357	Ring & Band	Positive	7 mm	0.2520	0.4850	0.3300	0.4950	0.500-0.531	Viton
122-1485	Ring & Band	Positive	7 mm	0.2598	0.4764	0.3071	0.3760	0.430-0.440	Viton
122-1212	Ring & Band	Positive	5/16	0.2850	0.3620	0.2000	0.3920	0.395-0.410	Viton
122-1340	Ring & Band	Positive	5/16	0.2880	0.4810	0.3100	0.4650	0.475-0.500	Viton
122-1269	Ring & Band	Positive	8 mm	0.2900	0.4860	0.3375	0.4620	0.475-0.531	Viton
122-1341	Ring & Band	Positive	5/16	0.2910	0.4750	0.3120	0.4650	0.475-0.500	Viton
122-1066	Ring & Band	Positive	7.5 mm	0.2920	0.4875	0.3120	0.4820	0.500-0.531	Viton
122-1065	Ring & Band	Positive	7.5 mm	0.2920	0.4875	0.3150	0.4920	0.500-0.531	Viton
122-1069	Ring & Band	Positive	5/16	0.2920	0.4800	0.3060	0.4630	0.475-0.500	Viton
122-1053	Ring & Band	Positive	8 mm	0.2950	0.4930	0.3375	0.4700	0.475-0.531	Viton
122-1074	Ring & Band	Positive	11/32	0.2992	0.5492	0.3811	0.4468	0.475-0.531	Viton
122-1052	Ring & Band	Positive	5/16	0.3000	0.4905	0.3520	0.4750	0.475-0.531	Viton
122-1077	Ring & Band	Positive	5/16	0.3000	0.4500	0.2770	0.4250	0.460-0.510	Viton
122-1217	Ring & Band	Positive	11/32	0.3000	0.4820	0.3050	0.4850	0.500-0.531	Viton
122-1006	Ring & Band	Positive	11/32	0.3071	0.4921	0.3150	0.4921	0.502-0.531	Rubber
122-1075	Ring & Band	Positive	11/32	0.3130	0.4900	0.3220	0.4940	0.500-0.531	Viton
122-1325	Ring & Band	Positive	11/32	0.3146	0.4862	0.3051	0.5905	0.625-0.660	Viton
122-1218	Ring & Band	Positive	11/32	0.3150	0.4820	0.3220	0.4950	0.500-0.531	Viton
122-1326	Ring & Band	Positive	11/32	0.3180	0.4900	0.3250	0.6000	0.625-0.660	Viton
122-1316	Ring & Band	Positive	11/32	0.3228	0.4803	0.3071	0.5571	0.550-0.562	Viton
122-1136	Ring & Spring	Positive	6.5 mm	0.2400	0.3420	0.2177	0.4170	0.439-0.475	Viton
122-1119	Ring & Spring	Positive	7.5 mm	0.2638	0.5634	0.3374	0.4165	0.439-0.475	Viton
122-1263	Ring & Spring	Positive	8 mm	0.2750	0.5710	0.3500	0.4300	0.439-0.475	Viton
122-1362	Ring & Spring	Positive	7/16	0.3860	0.5300	0.3350	0.6050	0.645-0.665	Viton
122-1330	Spring & Band	Positive	3/8	0.3390	0.5000	0.4100	0.5540	0.600-0.625	Viton
122-1427	Top Hat	Positive	5.5 mm	0.1712	0.6673	0.4902	0.4149	0.420-0.430	Viton
122-1458	Top Hat	Positive	5 mm	0.1713	0.6094	0.4574	0.2913	0.295-0.305	Viton
122-1467	Top Hat	Positive	5.5 mm	0.1724	0.7800	0.6083	0.4213	0.430-0.440	Viton
122-1410	Top Hat	Positive	5.5 mm	0.1745	0.7086	0.5292	0.4252	0.435-0.440	Viton
122-1453	Top Hat	Positive	5 mm	0.1770	0.7050	0.5390	0.3465	0.355-0.365	Viton
122-1411	Top Hat	Positive	5.5 mm	0.1770	0.7086	0.5292	0.4272	0.435-0.440	Viton
122-1440	Top Hat	Positive	5.5 mm	0.1791	0.7874	0.6102	0.4193	0.430-0.440	Viton
122-1444	Top Hat	Positive	5.5 mm	0.1810	0.7560	0.5950	0.4252	0.435-0.440	Viton
122-1493	Top Hat	Positive	5.5 mm	0.1811	0.6614	0.5511	0.3957	0.405-0.415	Viton
122-1418	Top Hat	Positive	6 mm	0.1900	0.7880	0.5150	0.4340	0.436-0.436	Viton
122-1394	Top Hat	Positive	6 mm	0.1910	0.8380	0.3950	0.3920	0.395-0.400	Viton
122-1455	Top Hat	Positive	6 mm	0.1929	0.7087	0.5138	0.4264	0.435-0.440	Viton
122-1447	Top Hat	Positive	6 mm	0.1929	0.6602	0.5000	0.4110	0.421-0.431	Viton
122-1454	Top Hat	Positive	6 mm	0.1949	0.7087	0.5138	0.4264	0.435-0.440	Viton
122-1349	Top Hat	Positive	6 mm	0.1969	0.7339	0.6020	0.3917	0.395-0.400	Viton
122-1409	Top Hat	Positive	6 mm	0.1969	0.6248	0.4957	0.4197	0.430-0.440	Viton
122-1457	Top Hat	Positive	6 mm	0.1969	0.6417	0.4937	0.4638	0.475-0.480	Viton
122-1356	Top Hat	Positive	6 mm	0.1980	0.7250	0.5900	0.4100	0.415-0.430	Viton
122-1327	Top Hat	Positive	5/16	0.2020	0.7165	0.5630	0.4290	0.435-0.445	Viton
122-1229	Top Hat	Positive	7/32	0.2050	0.7370	0.5720	0.4850	0.486-0.495	Viton
122-1251	Top Hat	Positive	1/4	0.2060	0.7070	0.5575	0.4300	0.431-0.436	Viton
122-1331	Top Hat	Positive	6 mm	0.2100	0.5120	0.3500	0.4370	0.438-0.445	Viton
122-1342	Top Hat	Positive	6 mm	0.2100	0.8000	0.6890	0.4600	0.470-0.475	Viton
122-1355	Top Hat	Positive	6 mm	0.2126	0.6300	0.5197	0.3858	0.385-0.395	Viton

Valve Stem Seals

Listed By Style, Type, & Nominal Stem Diameter

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1288	Top Hat	Positive	6 mm	0.2126	0.5710	0.3620	0.4150	0.434-0.439	Viton
122-1441	Top Hat	Positive	7 mm	0.2303	0.6528	0.4409	0.4606	0.470-0.480	Viton
122-1254	Top Hat	Positive	7 mm	0.2323	0.6555	0.4330	0.4450	0.446-0.455	Viton
122-1489	Top Hat	Positive	7 mm	0.2362	0.9173	0.7343	0.4606	0.470-0.480	Viton
122-1488	Top Hat	Positive	7 mm	0.2362	0.9173	0.7354	0.4606	0.470-0.480	Viton
122-1348	Top Hat	Positive	7 mm	0.2370	0.6500	0.5400	0.4600	0.470-0.475	Viton
122-1324	Top Hat	Positive	7 mm	0.2410	0.7870	0.6610	0.4950	0.500-0.510	Viton
122-1344	Top Hat	Positive	7 mm	0.2410	0.7205	0.5630	0.4645	0.465-0.475	Viton
122-1351	Top Hat	Positive	7 mm	0.2440	0.8350	0.6600	0.4850	0.495-0.500	Viton
122-1419	Top Hat	Positive	7 mm	0.2450	0.6400	0.4850	0.4780	0.490-0.500	Viton
122-1371	Top Hat	Positive	7 mm	0.2453	0.6340	0.4173	0.4900	0.510-0.520	Viton
122-1470	Top Hat	Positive	7 mm	0.2460	0.3000	0.0920	0.4500	N/A	Viton
122-1370	Top Hat	Positive	7 mm	0.2461	0.6340	0.4090	0.4905	0.510-0.520	Viton
122-1449	Top Hat	Positive	7 mm	0.2470	0.7950	0.6385	0.4750	0.480-0.500	Viton
122-1230	Top Hat	Positive	1/4	0.2480	0.5710	0.4275	0.4370	0.450-0.455	Viton
122-1227	Top Hat	Positive	7 mm	0.2480	0.8065	0.6240	0.4350	0.440-0.450	Viton
122-1378	Top Hat	Positive	7 mm	0.2510	1.0270	0.6590	0.5020	0.505-0.515	Viton
122-1477	Top Hat	Positive	7 mm	0.2539	0.6024	0.4213	0.4941	0.510-0.520	Viton
122-1413	Top Hat	Positive	5/16	0.2640	0.9430	0.7673	0.4875	0.510-0.520	Viton
122-1445	Top Hat	Positive	8 mm	0.2728	0.9783	0.8150	0.4882	0.498-0.508	Viton
122-1336	Top Hat	Positive	5/16	0.2750	0.9000	0.6300	0.5400	0.550-0.560	Viton
122-1206	Top Hat	Positive	8 mm	0.2750	0.7165	0.5100	0.4645	0.470-0.480	Viton
122-1314	Top Hat	Positive	5/16	0.2780	0.8870	0.6543	0.4800	0.510-0.520	Viton
122-1354	Top Hat	Positive	5/16	0.2800	1.0450	0.8650	0.5100	0.515-0.525	Viton
122-1423	Top Hat	Positive	5/16	0.2800	1.1360	0.9700	0.5100	0.515-0.525	Viton
122-1421	Top Hat	Positive	8 mm	0.2820	0.8815	0.7245	0.5178	0.525-0.535	Viton
122-1338	Top Hat	Positive	5/16	0.2830	0.8900	0.7150	0.4920	0.495-0.510	Viton
122-1337	Top Hat	Positive	5/16	0.2830	0.8900	0.7150	0.4920	0.495-0.510	Viton
122-1460	Top Hat	Positive	5/16	0.2846	0.8307	0.6550	0.5433	0.555-0.565	Viton
122-1439	Top Hat	Positive	5/16	0.2874	0.7343	0.5669	0.5413	0.550-0.560	Viton
122-1365	Top Hat	Positive	5/16	0.2880	0.9528	0.7598	0.5197	0.538-0.558	Viton
122-1300	Top Hat	Positive	5/16	0.2920	1.1300	0.9280	0.5500	0.565-0.575	Viton
122-1364	Top Hat	Positive	5/16	0.2920	1.118	0.9610	0.4570	0.500-0.510	Viton
122-1333	Top Hat	Positive	5/16	0.2970	1.0900	0.9150	0.5530	0.562-0.572	Viton
122-1299	Top Hat	Positive	5/16	0.3000	1.1120	0.9580	0.4600	0.465-0.475	Viton
122-1377	Top Hat	Positive	11/32	0.3100	0.7650	0.4950	0.5600	0.562-0.570	Viton
122-1393	Top Hat	Positive	3/8	0.3150	1.2500	1.0700	0.5630	0.572-0.582	Viton
122-1435	Top Hat	Positive	9 mm	0.3248	0.6811	0.5197	0.5039	0.513-0.523	Viton
122-1420	Top Hat	Positive	9 mm	0.3268	0.8015	0.6295	0.5850	0.590-0.595	Viton
122-1391	Top Hat	Positive	3/8	0.3270	1.1180	0.9380	0.6140	0.629-0.631	Viton
122-1415	Top Hat	Positive	9 mm	0.3315	0.7878	0.6340	0.5710	0.581-0.601	Viton
122-1434	Top Hat	Positive	9 mm	0.3346	0.6811	0.5197	0.5039	0.513-0.523	Viton
122-1466	Top Hat	Positive	9 mm	0.3360	0.8300	0.6800	0.5760	0.586-0.596	Viton
122-1320	Top Hat	Positive	3/8	0.3390	1.1200	0.9250	0.6000	0.610-0.620	Viton
122-1436	Top Hat	Positive	3/8	0.3440	1.2480	1.0600	0.5630	0.575-0.585	Viton
122-1490	Top Hat	Positive	3/8	0.3450	1.2650	1.0700	0.5700	0.572-0.592	Viton
122-1243	Top Hat	Positive	3/8	0.3500	1.0900	0.9260	0.6180	0.629-0.631	Viton
122-1301	Top Hat	Positive	3/8	0.3540	1.3100	1.1200	0.6180	0.625-0.635	Viton
122-1302	Top Hat	Positive	3/8	0.3540	1.2520	0.9450	0.5510	0.575-0.585	Viton
122-1239	Top Hat	Positive	3/8	0.3550	1.4890	1.3000	0.6200	0.625-0.635	Viton
122-1463	Top Hat	Positive	3/8	0.3570	2.0250	1.8350	0.5500	0.555-0.565	Viton
122-1412	Umbrella	Umbrella	5/16	0.2408	0.5078	0.4015	0.6654	N/A	Viton
122-1431	Umbrella	Umbrella	11/32	0.2750	0.7920	0.6100	0.6620	N/A	Poly
122-1035	Umbrella	Umbrella	5/16	0.2850	0.5900	0.4000	0.7500	N/A	Poly
122-1034	Umbrella	Umbrella	5/16	0.2920	0.6950	0.4915	0.7280	N/A	Poly
122-1007	Umbrella	Umbrella	3/8	0.3100	0.7620	0.6370	0.6870	N/A	Nitrile
122-1270	Umbrella	Umbrella	11/32	0.3120	0.5600	0.4245	0.6450	N/A	Viton
122-1038	Umbrella	Umbrella	11/32	0.3150	0.7150	0.5125	0.6430	N/A	Poly
122-1005	Umbrella	Umbrella	3/8	0.3160	0.7200	0.5000	0.7500	N/A	Rubber

Valve Stem Seals

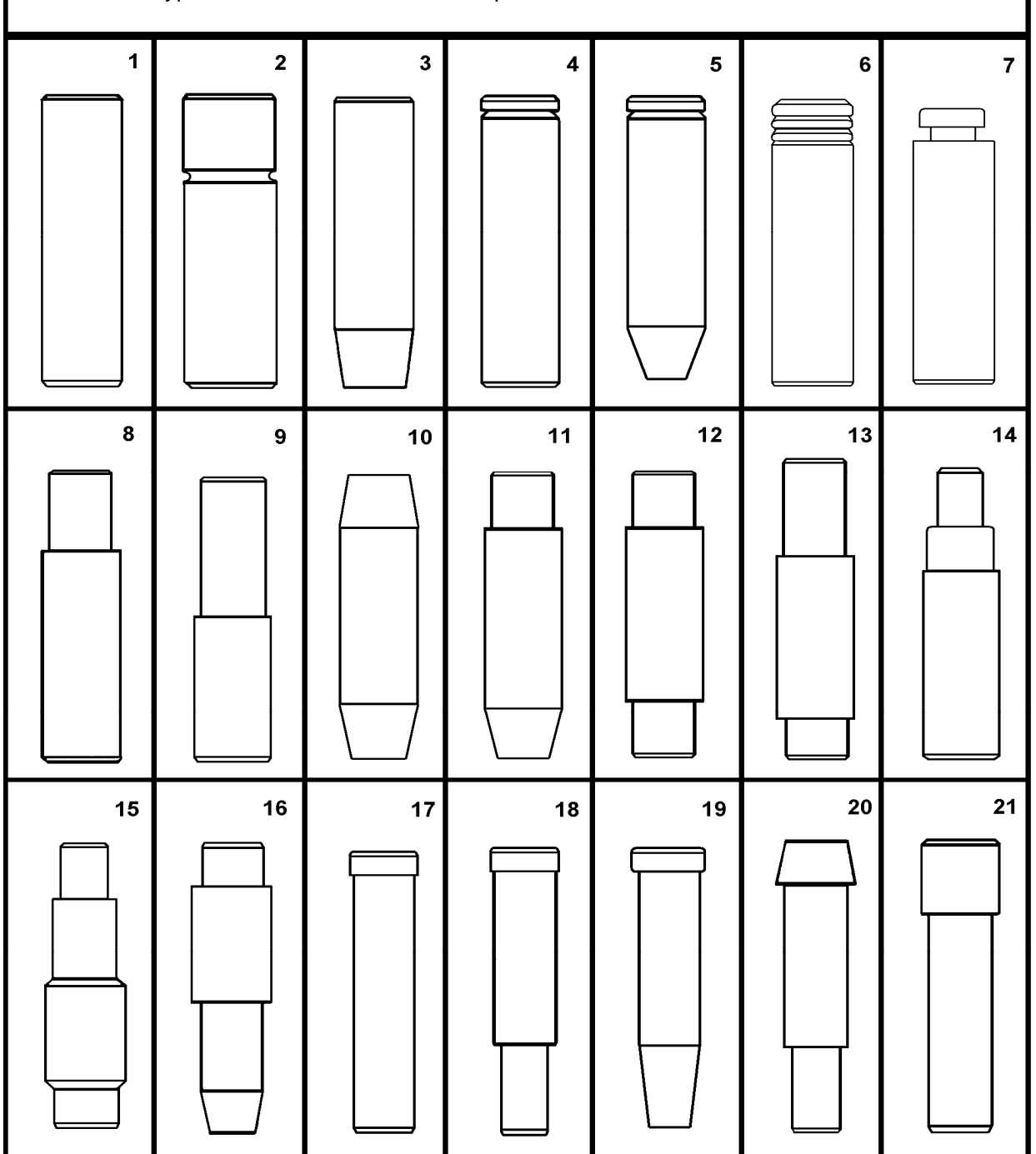
Listed By Style, Type, & Nominal Stem Diameter

SBI Part #	Style	Type	Nominal Stem Dia.	Top Stem I.D.	Overall Height	Inner Seal Height	Bottom Seal I.D.	Nominal Guide O.D.	Material
122-1037	Umbrella	Umbrella	¹¹ / ₃₂	0.3200	0.5600	0.4510	0.6845	N/A	Poly
122-1041	Umbrella	Umbrella	¹¹ / ₃₂	0.3200	0.6850	0.5485	0.7565	N/A	Poly
122-1032	Umbrella	Umbrella	¹¹ / ₃₂	0.3200	0.4500	0.3040	0.8075	N/A	Poly
122-1045	Umbrella	Umbrella	³ / ₈	0.3200	0.8700	0.6970	0.6695	N/A	Poly
122-1051	Umbrella	Umbrella	¹¹ / ₃₂	0.3230	0.3230	0.1810	0.8800	N/A	Poly
122-1036	Umbrella	Umbrella	³ / ₈	0.3307	0.6378	0.3937	0.7560	N/A	Poly
122-1233	Umbrella	Umbrella	¹¹ / ₃₂	0.3370	0.4500	0.3400	0.6150	N/A	Nylon
122-1033	Umbrella	Umbrella	¹¹ / ₃₂	0.3460	0.7900	0.3850	0.7640	N/A	Poly
122-1003	Umbrella	Umbrella	³ / ₈	0.3590	0.8050	0.6000	0.7355	N/A	Nitrile
122-1234	Umbrella	Umbrella	³ / ₈	0.3670	0.4535	0.3370	0.6150	N/A	Nylon
122-1059	Umbrella	Umbrella	³ / ₈	0.3680	0.7030	0.5200	0.8170	N/A	GF Nylon
122-1392	Umbrella	Umbrella	³ / ₈	0.3720	0.7200	0.5550	0.8800	N/A	Nylon
122-1376	Valve Guide Seal	O-Ring	N/A	N/A	N/A	N/A	N/A	N/A	Nitrile
122-9005	Valve Seal Driver	Red							
122-9004	Valve Seal Driver	Black							
122-9003	Valve Seal Driver	White							
122-1238	Viton Insert	Umbrella	¹¹ / ₃₂	0.3150	0.4547	0.2850	0.6280	N/A	Nylon/Viton
122-1238+15	Viton Insert	Umbrella	¹¹ / ₃₂	0.3380	0.4490	0.2850	0.6200	N/A	Nylon/Viton
122-1287	Viton Insert	Umbrella	³ / ₈	0.3540	0.8110	0.6380	0.8010	N/A	Nylon/Viton

VALVE GUIDES

Drawings are **NOT** to Scale

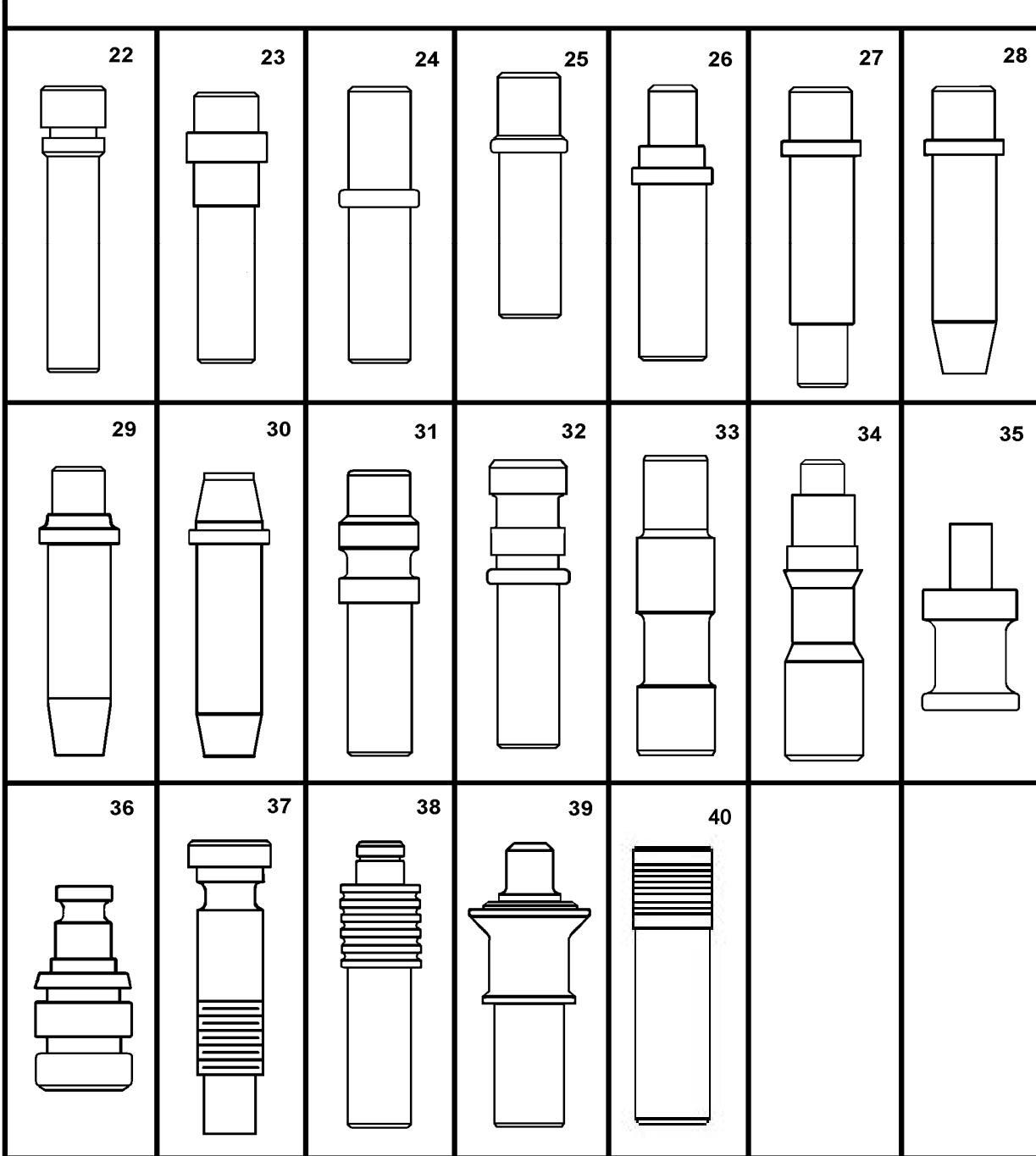
These drawings are only a general guide as to the shape of the outside of the Valve Guide.
Type numbers are listed with the part number in the Numerical Section.



VALVE GUIDES

Drawings are **NOT** to Scale

These drawings are only a general guide as to the shape of the outside of the Valve Guide.
Type numbers are listed with the part number in the Numerical Section.



Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-1337	0.3445	0.6575	2.813	11-P	IRON
140-1338	0.3425	0.6575	2.813	11-P	IRON
140-1342	0.3750	0.6580	3.063	11-P	IRON
140-1411	0.3440	0.6890	3.078	13-P	IRON
140-1421	0.3750	0.6895	2.750	8-P	IRON
140-1453	0.3435	0.5655	3.219	8-P	IRON
140-1458	0.3135	0.5016	2.500	1-P	IRON
140-1470	0.3750	0.6573	2.750	3-P	IRON
140-1476	0.3432	0.5655	2.188	1-P	IRON
140-1503	0.3130	0.6578	2.125	8-P	IRON
140-1504	0.3750	0.6580	2.750	13-P	IRON
140-1515	0.3427	0.6573	2.563	11-P	IRON
140-1527	0.3435	0.5650	2.438	1-P	IRON
140-1543	0.3435	0.5648	2.688	25-P	IRON
140-1544	0.3435	0.5953	2.625	1-P	IRON
140-1545N	0.3435	0.5953	2.938	8-P	IRON
140-1546	0.3745	0.6893	2.750	1-P	IRON
140-1547N	0.3745	0.6895	3.219	8-P	IRON
140-1568	0.3120	0.4856	2.094	8-P	IRON
140-1577	0.3130	0.5645	2.750	11-P	IRON
140-1578	0.4050	0.7520	3.970	1-P	IRON
140-1579	0.3745	0.6888	3.750	1-P	IRON
140-1592	0.5005	0.8765	4.313	26-SR	IRON
140-1593	0.4995	0.8765	5.438	26-P	IRON
140-1600	0.4390	0.8780	3.875	8-P	IRON
140-1614	0.3435	1.0303	2.210	36-P	IRON
140-1618	0.3745	0.6573	2.375	8-P	IRON
140-1619	0.3163	0.5645	2.281	11-P	IRON
140-1620	0.3425	0.6573	2.313	11-P	IRON
140-1636	0.3120	0.6265	1.500	8-P	IRON
140-1644	0.5010	0.8785	4.750	11-P	IRON
140-1673	0.3434	0.6571	2.688	8-P	IRON
140-1678	0.3164	0.5643	1.658	8-P	IRON
140-1680	0.3450	0.5639	3.250	1-SR	IRON
140-1680+2	0.3450	0.5659	3.250	1-SR	IRON
140-1680+5	0.3450	0.5689	3.250	1-SR	IRON
140-1689	0.3445	0.5643	2.625	3-P	IRON
140-1690	0.3435	0.5645	3.000	3-P	IRON
140-1697	0.3120	0.5325	2.094	11-P	IRON
140-1703	0.3125	0.5640	2.563	8-P	IRON
140-1704	0.3750	0.6580	2.375	8-P	IRON
140-1711	0.4405	0.8133	4.250	24-P	IRON
140-1717	0.3170	0.5643	1.813	1-SR	IRON
140-1723	0.3115	0.5018	2.500	8-P	IRON
140-1726	0.3437	0.7515	2.470	3-P	IRON
140-1732	0.3435	0.5648	3.344	8-P	IRON
140-1733	0.3745	0.6265	2.750	10-P	IRON
140-1740	0.3745	0.6893	2.813	1-P	IRON
140-1745	0.3445	0.5636	2.266	8-SR	IRON
140-1747	0.3760	0.6268	2.420	8-P	IRON
140-1758	0.3435	0.5650	2.188	1-P	IRON
140-1803	0.3745	0.6895	2.938	13-P	IRON
140-1804	0.3440	0.5645	2.656	1-P	IRON
140-1809	0.5000	0.6886	3.500	9-P	IRON
140-1810	0.5015	0.6886	3.500	9-P	IRON
140-1813	0.4380	0.8138	3.125	13-P	IRON
140-1814	0.4380	0.8140	3.438	12-P	IRON
140-1817	0.4385	0.6265	3.063	8-P	IRON
140-1821	0.3450	0.6578	2.374	1-SR	IRON
140-1823	0.3429	0.5633	2.810	1-SR	IRON

P=Plain I.D., SR=Spiral Reamed I.D.

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Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-1829	0.4050	0.7520	4.375	11-P	IRON
140-1830	0.4050	0.7518	3.594	11-P	IRON
140-1832	0.3130	0.5000	2.500	1-SR	IRON
140-1832+2	0.3130	0.5020	2.500	1-SR	IRON
140-1833	0.3432	0.6575	1.813	1-SR	IRON
140-1839	0.4385	0.6887	3.090	1-P	IRON
140-1840	0.3745	0.6890	3.280	12-P	IRON
140-1851	0.3130	0.5640	2.250	8-P	IRON
140-1852	0.3130	0.5640	2.656	8-P	IRON
140-1853	0.3750	0.6890	2.344	2-P	IRON
140-1854	0.3445	0.5665	2.250	2-SR	IRON
140-1857	0.5015	0.7525	3.875	9-P	IRON
140-1858	0.3750	0.6898	3.344	8-P	IRON
140-1859	0.3750	0.6898	2.797	9-P	IRON
140-1860	0.3437	0.6277	2.375	8-P	IRON
140-1865	0.4050	0.7520	3.219	8-P	IRON
140-1872	0.3427	0.6570	2.437	8-P	IRON
140-1873	0.3427	0.6575	2.844	14-P	IRON
140-1874	0.3440	0.6570	3.125	8-P	IRON
140-1875	0.3440	0.6575	3.250	13-P	IRON
140-1878	0.3973	0.6580	2.375	1-SR	IRON
140-1880	0.3435	0.5960	2.610	10-P	IRON
140-1881	0.3745	0.6265	2.844	1-P	IRON
140-1881+2	0.3745	0.6285	2.844	1-P	IRON
140-1888	0.4405	0.8140	4.250	23-P	IRON
140-1896	0.3440	0.6277	2.859	8-P	IRON
140-1897	0.3745	0.6255	2.938	11-P	IRON
140-1898	0.3750	0.6255	3.313	11-P	IRON
140-1898+2	0.3750	0.6275	3.313	11-P	IRON
140-1899	0.3440	0.6277	2.969	8-P	IRON
140-1906N	0.3771	0.6577	3.220	16-P	IRON
140-1907	0.3135	0.4390	1.813	1-SR	IRON
140-1908	0.3135	0.4385	2.500	1-P	IRON
140-1909	0.3135	0.4385	2.064	1-P	IRON
140-1914	0.4370	0.7515	3.125	24-P	IRON
140-1919	0.3740	0.6006	2.250	4-P	IRON
140-1923	0.3745	0.6258	2.938	1-SR	IRON
140-1924	0.3745	0.6260	2.250	1-SR	IRON
140-1927	0.3745	0.6257	2.625	4-SR	IRON
140-1932	0.5640	1.0030	5.375	11-P	IRON
140-1937	0.3750	0.6270	2.563	11-P	IRON
140-1941	0.4525	0.7518	3.010	7-SR	IRON
140-1941SA	0.4525	0.7518	3.010	7-SR	IRON
140-1943	0.3445	0.5640	2.250	9-P	IRON
140-1944	0.3445	0.5640	2.125	9-P	IRON
140-1946	0.3130	0.4998	2.380	11-SR	IRON
140-1946+10	0.3130	0.5098	2.380	11-SR	IRON
140-1946+2	0.3130	0.5018	2.380	11-SR	IRON
140-1946+3	0.3130	0.5028	2.380	11-SR	IRON
140-1946+5	0.3130	0.5048	2.380	11-SR	IRON
140-1947	0.3745	0.6265	2.500	1-SR	IRON
140-1952	0.3745	0.6260	2.406	8-SR	IRON
140-1953	0.3745	0.6260	2.313	1-SR	IRON
140-1954	0.3745	0.6258	3.188	1-SR	IRON
140-1956	0.3150	0.5025	2.438	1-P	IRON
140-1957	0.4375	0.6890	3.172	8-SR	IRON
140-1962	0.3433	0.6570	2.375	8-P	IRON
140-1965	0.3745	0.6260	3.500	3-SR	IRON
140-1966	0.3440	0.7513	2.938	3-P	IRON
140-1968	0.4190	0.6890	2.906	8-P	IRON

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SBI Part #	I.D.	O.D.	Length	Type	Material
140-1969	0.4050	0.7520	3.438	10-SR	IRON
140-1970	0.3433	0.6575	2.719	9-P	IRON
140-1972	0.3740	0.6203	2.630	12-P	IRON
140-1973	0.3735	0.6255	2.420	8-P	IRON
140-1974	0.3445	0.6260	2.310	8-P	IRON
140-1976	0.3755	0.6265	2.281	8-P	IRON
140-1977	0.3755	0.6265	2.406	8-P	IRON
140-3000	0.2770	0.4390	1.660	1-SR	IRON
140-3001	0.2770	0.4390	1.990	1-SR	IRON
140-3006	0.3745	0.6265	2.395	3-P	IRON
140-3007	0.3745	0.6298	3.358	7-SR	IRON
140-3007+2	0.3745	0.6318	3.358	7-SR	IRON
140-3007+5	0.3745	0.6348	3.358	7-SR	IRON
140-3008	0.3819	0.6506	3.374	8-SR	IRON
140-3008+2	0.3819	0.6526	3.374	8-SR	IRON
140-3009	0.2763	0.5110	2.289	1-P	IRON
140-3009+2	0.2763	0.5130	2.289	1-P	IRON
140-3010	0.2362	0.3950	1.773	8-P	IRON
140-3011	0.2362	0.3950	1.378	8-P	IRON
140-3012	0.3175	0.5339	2.540	8-P	IRON
140-3014	0.3740	0.6890	3.050	7-SR	IRON
140-3014+2	0.3740	0.6910	3.050	7-SR	IRON
140-3015	0.3420	0.5020	2.120	21-P	IRON
140-3016	0.3420	0.5020	2.210	21-P	IRON
140-3019	0.2358	0.4355	1.615	1-P	IRON
140-3020	0.2366	0.4493	1.510	1-SR	IRON
140-3021	0.2776	0.5015	1.937	21-SR	IRON
140-3022	0.2776	0.5015	2.020	21-SR	IRON
140-3023	0.2751	0.4934	2.275	4-SR	IRON
140-3023+2	0.2751	0.4954	2.275	4-SR	IRON
140-3024	0.3735	0.6203	2.620	9-SR	IRON
140-3025	0.3735	0.6265	2.250	9-SR	IRON
140-3026	0.2752	0.4720	1.702	1-P	IRON
140-3026+2	0.2752	0.4740	1.702	1-P	IRON
140-3027	0.3750	0.7833	3.189	1-SR	IRON
140-3028	0.2175	0.3774	1.455	1-SR	IRON
140-3029	0.2365	0.3950	1.420	1-P	IRON
140-3029+2	0.2365	0.3970	1.420	1-P	IRON
140-3031	0.3145	0.5250	2.185	1-SR	IRON
140-3031+2	0.3145	0.5270	2.185	1-SR	IRON
140-3032	0.3155	0.5250	2.185	1-SR	IRON
140-3032+2	0.3155	0.5270	2.185	1-SR	IRON
140-3033	0.2776	0.5015	1.937	21-SR	IRON
140-3034	0.2780	0.5015	2.020	21-SR	IRON
140-3035	0.3715	0.6883	4.050	8-SR	IRON
140-3035+10	0.3715	0.6983	4.050	8-SR	IRON
140-3035+20	0.3715	0.7083	4.050	8-SR	IRON
140-3035+5	0.3715	0.6933	4.050	8-SR	IRON
140-3036	0.3715	0.6883	4.050	8-SR	IRON
140-3036+10	0.3715	0.6985	4.050	8-SR	IRON
140-3036+20	0.3715	0.7085	4.050	8-SR	IRON
140-3036+5	0.3715	0.6933	4.050	8-SR	IRON
140-3037	0.3743	0.6580	2.780	7-SR	IRON
140-3037+2	0.3743	0.6600	2.780	7-SR	IRON
140-3038	0.3178	0.5130	3.175	12-SR	IRON
140-3039	0.3745	0.6300	3.350	12-SR	IRON
140-3042	0.4977	0.6886	4.055	1-SR	IRON
140-3042+5	0.4977	0.6936	4.055	1-SR	IRON
140-3043	0.3750	0.6884	3.110	6-SR	IRON
140-3046	0.2365	0.4355	1.575	1-P	IRON

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SBI Part #	I.D.	O.D.	Length	Type	Material
140-3047	0.2371	0.4360	1.725	1-P	IRON
140-3048	0.2768	0.4747	2.500	21-SR	IRON
140-3049	0.2755	0.4547	1.967	5-P	IRON
140-3050	0.3570	0.5905	3.355	1-SR	IRON
140-3050+2	0.3570	0.5925	3.355	1-SR	IRON
140-3051	0.3740	0.6890	3.730	8-SR	IRON
140-3052	0.3740	0.6890	4.130	8-SR	IRON
140-3053	0.3154	0.5000	2.115	1-SR	IRON
140-3053+2	0.3154	0.5020	2.115	1-SR	IRON
140-3053H	0.3154	0.5000	2.115	1-SR	IRON
140-3053U	0.3054	0.5000	2.115	1-P	IRON
140-3054	0.3547	0.5526	2.365	1-P	IRON
140-3055	0.2765	0.4395	2.331	21-P	IRON
140-3056	0.2350	0.4333	1.700	1-P	IRON
140-3057	0.2350	0.4333	1.500	1-P	IRON
140-3058	0.3745	0.6298	3.155	7-SR	IRON
140-3058+2	0.3745	0.6318	3.155	7-SR	IRON
140-3058+20	0.3745	0.6498	3.155	7-SR	IRON
140-3058+5	0.3745	0.6348	3.155	7-SR	IRON
140-3059	0.3555	0.5135	2.018	2-P	IRON
140-3060	0.3547	0.5527	2.018	2-P	IRON
140-3061	0.3819	0.6506	4.105	8-SR	IRON
140-3063	0.3740	0.6264	2.281	8-P	IRON
140-3064	0.3740	0.6264	2.407	8-P	IRON
140-3066	0.2768	0.4390	2.200	1-SR	IRON
140-3067	0.3155	0.5525	2.085	1-SR	IRON
140-3067+2	0.3155	0.5545	2.085	1-SR	IRON
140-3068	0.3761	0.6297	2.835	1-P	IRON
140-3070	0.2170	0.4345	1.535	1-P	IRON
140-3071	0.3550	0.5920	2.835	5-P	IRON
140-3072	0.3940	0.5920	2.640	5-P	IRON
140-3073	0.3150	0.6300	2.520	11-P	IRON
140-3074	0.3152	0.6297	2.540	8-P	IRON
140-3075	0.4348	0.7084	3.220	10-P	IRON
140-3076	0.4349	0.7084	2.593	3-P	IRON
140-3077	0.3550	0.5920	1.930	8-P	IRON
140-3079	0.3140	0.5655	2.585	1-P	IRON
140-3080	0.2775	0.4395	1.937	1-SR	IRON
140-3081	0.2775	0.4395	2.020	1-SR	IRON
140-3086	0.3544	0.5535	2.365	4-P	IRON
140-3088	0.3420	0.5640	2.480	1-P	IRON
140-3089	0.3420	0.5640	2.640	1-P	IRON
140-3091	0.3153	0.4820	2.130	8-P	IRON
140-3092	0.3153	0.4820	2.090	8-P	IRON
140-3093	0.3153	0.4740	1.970	1-P	IRON
140-3097	0.3157	0.4737	1.970	1-P	IRON
140-3098	0.2755	0.4955	1.478	8-P	IRON
140-3099	0.3148	0.5025	2.127	3-P	IRON
140-3100	0.3148	0.5025	2.227	3-P	IRON
140-3101	0.3150	0.5526	2.245	11-P	IRON
140-3102	0.3152	0.5130	2.205	5-P	IRON
140-3103	0.2760	0.4341	1.575	28-P	IRON
140-3104	0.2760	0.4341	1.575	28-P	IRON
140-3105	0.2752	0.4740	1.790	2-P	IRON
140-3112	0.2365	0.4358	1.655	1-SR	IRON
140-3118	0.2360	0.4360	1.556	5-SR	IRON
140-3119	0.2360	0.4360	1.872	5-SR	IRON
140-3123	0.3180	0.5133	3.155	7-SR	IRON
140-3123+20	0.3180	0.5333	3.155	7-SR	IRON
140-3123+5	0.3180	0.5180	3.155	7-SR	IRON

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SBI Part #	I.D.	O.D.	Length	Type	Material
140-3127	0.2365	0.4367	1.380	5-P	IRON
140-3128	0.2165	0.4170	1.580	5-P	IRON
140-3129	0.2167	0.3760	1.660	5-P	IRON
140-3130	0.2175	0.4075	1.715	5-P	IRON
140-3131	0.3162	0.5335	2.465	1-SR	IRON
140-3132	0.5620	1.0025	5.520	14-SR	IRON
140-3133	0.5620	1.0025	4.820	14-SR	IRON
140-3134	0.2175	0.4073	1.630	5-P	IRON
140-3134+2	0.2175	0.4093	1.630	5-P	IRON
140-3135	0.2175	0.4073	1.850	5-P	IRON
140-3135+2	0.2175	0.4093	1.850	5-P	IRON
140-3136	0.2173	0.4370	1.630	6-SR	IRON
140-3137	0.2173	0.4370	1.790	6-SR	IRON
140-3138	0.3740	0.6890	3.255	8-SR	IRON
140-3139	0.3730	0.6890	4.055	8-SR	IRON
140-3139+10	0.3730	0.6990	4.055	8-SR	IRON
140-3139+20	0.3730	0.7090	4.055	8-SR	IRON
140-3140	0.3730	0.6890	3.620	1-SR	IRON
140-3140+10	0.3730	0.6990	3.620	1-SR	IRON
140-3140+20	0.3730	0.7090	3.620	1-SR	IRON
140-3141	0.2777	0.5020	2.347	8-SR	IRON
140-3142	0.2755	0.4547	1.967	1-P	IRON
140-3143	0.3735	0.6890	4.060	1-SR	IRON
140-3144	0.3735	0.6890	3.615	1-SR	IRON
140-3145	0.3740	0.6890	3.250	1-SR	IRON
140-3145+2	0.3740	0.6910	3.250	1-SR	IRON
140-3145+5	0.3740	0.6940	3.250	1-SR	IRON
140-3149	0.2752	0.4720	1.820	1-P	IRON
140-3152	0.2168	0.4348	1.655	1-P	IRON
140-3154	0.2168	0.4358	1.740	1-P	IRON
140-3156	0.3145	0.5250	2.185	8-SR	IRON
140-3156+2	0.3145	0.5270	2.185	8-SR	IRON
140-3157	0.3157	0.5905	3.285	8-P	IRON
140-3158	0.4528	0.7518	3.167	8-SR	IRON
140-3158SA	0.4528	0.7518	3.167	8-SR	IRON
140-3159BR	0.2362	0.4355	1.415	6-PB	BRONZE
140-3162	0.2372	0.4352	1.535	2-P	IRON
140-3163	0.2764	0.4725	2.150	1-P	IRON
140-3164	0.2364	0.3952	1.820	21-P	IRON
140-3165	0.3142	0.5250	2.185	1-P	IRON
140-3165+2	0.3142	0.5270	2.185	1-P	IRON
140-3166	0.2373	0.4395	1.715	1-P	IRON
140-3168	0.2361	0.4355	1.655	1-P	IRON
140-3169BR	0.1970	0.3560	1.750	1-PB	BRONZE
140-3170	0.2177	0.4355	1.395	1-P	IRON
140-3174	0.3740	0.3890	3.075	8-P	IRON
140-3175	0.3547	0.5920	2.402	8-P	IRON
140-3176	0.3150	0.5527	2.362	8-P	IRON
140-3177	0.3547	0.5920	2.620	1-P	IRON
140-3178	0.3740	0.5920	3.860	8-P	IRON
140-3179	0.1966	0.3952	1.460	8-P	IRON
140-3180	0.2364	0.4720	1.778	8-P	IRON
140-3181	0.3150	0.4740	2.040	1-P	IRON
140-3182	0.2365	0.4355	1.815	8-P	IRON
140-3182+2	0.2365	0.4375	1.815	8-P	IRON
140-3183	0.3542	0.6312	2.670	8-SR	IRON
140-3184	0.3540	0.6312	2.670	1-SR	IRON
140-3185	0.2760	0.4735	1.910	2-P	IRON
140-3186	0.2760	0.4735	1.770	2-P	IRON
140-3187	0.2760	0.4735	1.695	2-P	IRON

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SBI Part #	I.D.	O.D.	Length	Type	Material
140-3188	0.2365	0.3945	1.378	2-P	IRON
140-3189	0.3545	0.5325	1.990	2-P	IRON
140-3190	0.3158	0.5128	1.930	2-P	IRON
140-3191	0.3158	0.5128	1.810	2-P	IRON
140-3192	0.3155	0.5130	2.200	5-P	IRON
140-3193	0.3155	0.5130	1.970	5-P	IRON
140-3194	0.3718	0.5130	2.407	12-SR	IRON
140-3195	0.3733	0.6888	3.625	8-SR	IRON
140-3196	0.2775	0.4725	2.345	4-SR	IRON
140-3197	0.2775	0.4725	2.345	1-P	IRON
140-3202	0.2756	0.5020	1.460	8-P	IRON
140-3203	0.3142	0.5145	2.210	1-P	IRON
140-4941	0.3120	0.5645	2.063	2-P	IRON
140-4944	0.3120	0.6270	2.688	2-P	IRON
140-5379	0.5625	0.8760	3.000	9-P	IRON
140-5604	0.3440	0.5020	2.625	1-P	IRON
140-5604+2	0.3440	0.5040	2.625	1-P	IRON
140-5606	0.3440	0.5020	2.375	1-P	IRON
140-5606U	0.3390	0.5020	2.375	1-P	IRON
140-5607	0.3440	0.5020	2.250	1-P	IRON
140-5607+2	0.3440	0.5040	2.250	1-P	IRON
140-5610	0.3750	0.5020	2.625	1-P	IRON
140-5611	0.2510	0.4390	2.313	1-P	IRON
140-5612	0.3440	0.5020	2.875	1-P	IRON
140-5745	0.3730	0.6265	3.500	8-SR	IRON
140-6053	0.3435	0.4695	2.125	21-SR	IRON
140-6105	0.3440	0.5020	2.500	1-P	IRON
140-6106	0.3430	0.5020	2.750	1-P	IRON
140-6107	0.3740	0.5020	2.250	1-P	IRON
140-6108	0.3740	0.5020	2.375	1-P	IRON
140-6108U	0.3690	0.5020	2.375	1-P	IRON
140-6109	0.3740	0.5020	2.500	1-P	IRON
140-6110	0.3740	0.5020	2.625	1-P	IRON
140-6111	0.3740	0.5020	2.875	1-P	IRON
140-6113	0.3745	0.5020	2.375	1-P	IRON
140-6114	0.3750	0.5020	2.500	1-P	IRON
140-6115	0.3750	0.5020	2.750	1-P	IRON
140-6116	0.4375	0.6270	3.125	1-P	IRON
140-6119	0.4375	0.6267	2.500	1-P	IRON
140-6119+2	0.4375	0.6285	2.500	1-P	IRON
140-6201	0.6245	1.0020	5.188	1-SR	IRON
140-6202	0.6245	1.0020	6.000	1-SR	IRON
140-6254	0.2510	0.4998	2.360	11-SR	IRON
140-6254+10	0.2510	0.5098	2.360	11-SR	IRON
140-6254+2	0.2510	0.5018	2.360	11-SR	IRON
140-6254+3	0.2510	0.5028	2.360	11-SR	IRON
140-6254+5	0.2510	0.5048	2.360	11-SR	IRON
140-6452	0.4528	0.7520	3.195	7-SR	IRON
140-6469	0.5020	0.9383	5.250	25-P	IRON
140-6470	0.5005	0.9383	5.250	25-P	IRON
140-6479	0.8745	1.3763	6.125	26-SR	IRON
140-6523	0.3440	0.5020	3.063	1-P	IRON
140-6529	0.3745	0.7520	3.625	3-P	IRON
140-6546	0.3755	0.7100	3.150	11-SR	IRON
140-6587	0.3135	0.4390	2.500	1-SR	IRON
140-6730	0.3739	0.6263	2.880	9-SR	IRON
140-6730+2	0.3739	0.6283	2.880	13-SR	IRON
140-6850	0.3720	0.5020	2.625	1-P	IRON
140-6867	0.3440	0.5020	2.125	1-P	IRON
140-6869	0.3125	0.4390	1.875	1-P	IRON

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SBI Part #	I.D.	O.D.	Length	Type	Material
140-6872	0.3120	0.4390	2.281	1-P	IRON
140-6873	0.3450	0.5020	2.125	1-P	IRON
140-6881	0.3140	0.5660	3.031	1-P	IRON
140-6896H	0.3120	0.4390	2.875	1-SR	IRON
140-6897H	0.3120	0.4390	2.188	1-SR	IRON
140-6905	0.3750	0.6275	3.969	1-SR	IRON
140-6913	0.4375	0.6888	3.438	1-SR	IRON
140-6929	0.8745	1.3778	6.125	26-SR	IRON
140-6977	0.3120	0.5020	2.281	1-P	IRON
140-6990	0.3760	0.6270	2.240	8-P	IRON
140-7073	0.3745	0.8775	5.450	8-SR	IRON
140-7073H	0.3745	0.8780	5.450	8-SR	IRON
140-7074H	0.3745	0.8780	5.065	8-SR	IRON
140-7083	0.5020	0.8768	5.045	8-P	IRON
140-7174	0.3745	0.6252	2.600	3-P	IRON
140-7194	0.3750	0.6578	2.781	1-SR	IRON
140-7194+2	0.3750	0.6598	2.781	1-SR	IRON
140-7194+5	0.3750	0.6628	2.781	1-SR	IRON
140-7194SA	0.3750	0.6578	2.781	1-SR	IRON
140-7197	0.4375	0.6270	3.000	1-P	IRON
140-7198	0.3175	0.5020	2.000	8-P	IRON
140-7205	0.3120	0.5020	2.000	8-P	IRON
140-7208	0.3740	0.6205	2.740	12-P	IRON
140-7216	0.3750	0.6890	3.250	2-SR	IRON
140-7216+2	0.3750	0.6910	3.250	2-SR	IRON
140-7216+5	0.3750	0.6940	3.250	2-SR	IRON
140-7216SA	0.3750	0.6890	3.250	2-SR	IRON
140-7216SA+2	0.3750	0.6910	3.250	2-SR	IRON
140-7242	0.3750	0.6585	3.180	13-SR	IRON
140-7242+5	0.3750	0.6635	3.180	13-SR	IRON
140-7248	0.3750	0.5640	2.750	1-SR	IRON
140-7255	0.3750	0.6892	2.815	13-SR	IRON
140-7255+2	0.3750	0.6912	2.815	13-SR	IRON
140-7259	0.3430	0.5020	3.063	1-P	IRON
140-7260	0.3730	0.5020	2.875	1-P	IRON
140-7264	0.4530	0.7620	3.400	4-SR	IRON
140-7271	0.3440	0.5640	2.375	1-SR	IRON
140-7271U	0.3390	0.5640	2.375	1-SR	IRON
140-7272	0.3440	0.5640	2.250	1-SR	IRON
140-7272+3	0.3440	0.5670	2.250	1-SR	IRON
140-7276	0.3740	0.5640	2.375	1-SR	IRON
140-7277	0.3740	0.5640	2.500	1-SR	IRON
140-7278	0.3430	0.5640	3.062	1-SR	IRON
140-7279	0.3730	0.5640	2.875	1-SR	IRON
140-7291	0.3730	0.5640	2.375	1-SR	IRON
140-7298	0.3730	0.5020	2.375	1-P	IRON
140-7336	0.3753	0.6890	2.960	8-SR	IRON
140-7337	0.4370	0.6890	3.090	1-SR	IRON
140-7338	0.5010	0.9385	5.219	8-P	IRON
140-7338+2	0.5010	0.9405	5.219	8-P	IRON
140-7357	0.5020	0.8771	5.438	8-P	IRON
140-7359	0.3155	0.4765	1.435	6-SR	IRON
140-7371	0.4365	0.7510	3.000	26-SR	IRON
140-7372	0.4990	0.8135	3.500	26-SR	IRON
140-7373	0.4977	0.8459	3.580	7-SR	IRON
140-7376	0.3750	0.6268	2.734	8-P	IRON
140-7395	0.3145	0.4750	1.990	2-SR	IRON
140-7398	0.3745	0.6260	2.406	1-SR	IRON
140-7408	0.3120	0.6263	1.340	8-P	IRON
140-7420	0.4370	0.7510	3.875	24-P	IRON

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SBI Part #	I.D.	O.D.	Length	Type	Material
140-7421	0.4370	0.7510	4.375	26-P	IRON
140-7429N	0.3145	0.4937	1.575	4-P	IRON
140-7429N+2	0.3145	0.4957	1.575	4-P	IRON
140-7431	0.3745	0.6265	2.750	3-SR	IRON
140-7444	0.4050	0.7513	3.219	11-P	IRON
140-7447	0.3745	0.5640	2.625	1-SR	IRON
140-7448	0.3745	0.5640	3.000	1-SR	IRON
140-7450	0.3750	0.6265	2.650	26-P	IRON
140-7451N	0.3145	0.4934	1.693	4-P	IRON
140-7451N+2	0.3145	0.4953	1.693	4-P	IRON
140-7456	0.4385	0.6887	3.060	8-SR	IRON
140-7457	0.4385	0.6888	3.060	1-P	IRON
140-7458	0.3740	0.5020	3.060	1-P	IRON
140-7459	0.3430	0.5020	2.375	1-P	IRON
140-7460	0.3430	0.5020	2.500	1-P	IRON
140-7476	0.5005	0.8765	4.325	8-SR	IRON
140-7495	0.3440	0.5650	1.870	3-SR	IRON
140-7498	0.3440	0.5650	2.200	1-SR	IRON
140-7499	0.3155	0.4745	2.313	5-SR	IRON
140-7507	0.3420	0.5640	2.250	1-SR	IRON
140-7523	0.3160	0.5145	2.260	5-SR	IRON
140-7523+2	0.3160	0.5165	2.260	5-SR	IRON
140-7527	0.3155	0.5645	2.360	8-SR	IRON
140-7528	0.3160	0.5645	2.765	8-SR	IRON
140-7529	0.3160	0.5525	2.322	8-SR	IRON
140-7532	0.3155	0.5535	2.130	8-SR	IRON
140-7542	0.3155	0.4745	1.930	2-SR	IRON
140-7545	0.3160	0.4745	1.930	2-SR	IRON
140-7546	0.3115	0.4390	3.063	1-P	IRON
140-7548	0.3937	0.6328	3.040	12-P	IRON
140-7550	0.3725	0.8780	5.450	8-SR	IRON
140-7551	0.3725	0.8780	5.065	8-SR	IRON
140-7552	0.3440	0.5640	2.875	1-SR	IRON
140-7554	0.3730	0.5020	2.750	1-P	IRON
140-7562	0.3450	0.5640	2.375	1-SR	IRON
140-7563	0.3435	0.6270	2.835	1-P	IRON
140-7564	0.3435	0.6268	2.563	1-P	IRON
140-7574	0.3150	0.5145	1.848	5-SR	IRON
140-7574+2	0.3150	0.5165	1.848	5-SR	IRON
140-7575	0.3150	0.5145	2.046	5-SR	IRON
140-7575+2	0.3150	0.5165	2.046	5-SR	IRON
140-7575+6	0.3150	0.5205	2.046	5-SR	IRON
140-7576	0.3150	0.5145	1.735	5-SR	IRON
140-7577	0.3150	0.5143	1.890	5-SR	IRON
140-7577+2	0.3150	0.5163	1.890	5-SR	IRON
140-7588	0.3440	0.5640	2.625	1-SR	IRON
140-7589	0.2600	0.4755	1.950	5-P	IRON
140-7592	0.4940	0.6884	3.500	9-P	IRON
140-7604	0.3725	0.9390	5.250	8-SR	IRON
140-7610	0.4977	0.8458	3.585	3-SR	IRON
140-7625	0.3819	0.6504	2.934	10-SR	IRON
140-7625SA	0.3819	0.6504	2.934	10-SR	IRON
140-7656	0.3145	0.5528	1.970	8-P	IRON
140-7659	0.2610	0.4755	2.165	4-SR	IRON
140-7661	0.3145	0.5020	1.575	4-P	IRON
140-7662	0.3145	0.5020	1.693	4-P	IRON
140-7663	0.3125	0.5020	1.875	1-P	IRON
140-7669	0.3735	0.5020	3.969	1-SR	IRON
140-7679	0.3120	0.5020	2.380	1-P	IRON
140-7681	0.3735	0.5020	2.579	1-P	IRON

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140-7682	0.3735	0.5021	2.980	1-P	IRON
140-7689	0.3745	0.6250	2.600	1-P	IRON
140-7710	0.2765	0.4755	2.168	6-P	IRON
140-7712	0.3740	0.6268	2.600	1-P	IRON
140-7712+2	0.3740	0.6288	2.600	1-P	IRON
140-7713	0.3145	0.4745	1.810	2-P	IRON
140-7714	0.3145	0.4745	2.160	2-P	IRON
140-7714+2	0.3145	0.4765	2.160	2-P	IRON
140-7715	0.3430	0.5020	2.125	1-P	IRON
140-7736	0.3740	0.6890	3.250	8-SR	IRON
140-7736SA	0.3740	0.6890	3.250	8-SR	IRON
140-7813	0.3740	0.6263	2.880	13-SR	IRON
140-7822	0.3175	0.5348	2.525	7-P	IRON
140-7822+2	0.3175	0.5368	2.525	7-P	IRON
140-7823	0.3175	0.5655	2.525	7-P	IRON
140-7825	0.2760	0.4745	2.167	4-SR	IRON
140-7826	0.2760	0.4350	1.770	5-SR	IRON
140-7827	0.2760	0.4348	1.770	1-SR	IRON
140-7828	0.3155	0.4745	2.660	5-SR	IRON
140-7830	0.2605	0.4755	1.970	5-SR	IRON
140-7847	0.3135	0.5020	2.250	21-SR	IRON
140-7860	0.4180	0.6890	2.906	8-P	IRON
140-7873	0.2760	0.4423	2.315	8-SR	IRON
140-7876	0.3745	0.6888	2.906	8-P	IRON
140-7892	0.5550	1.0020	5.188	34-SR	IRON
140-7903	0.5000	0.6886	3.500	9-SR	IRON
140-7907	0.3420	0.5020	2.375	1-P	IRON
140-7908	0.3425	0.5020	2.250	1-P	IRON
140-7946	0.3430	0.5020	2.250	1-P	IRON
140-7964	0.3730	0.5020	2.625	1-P	IRON
140-7990	0.4538	0.7518	3.393	1-SR	IRON
140-7994	0.4530	0.7518	3.400	3-SR	IRON
140-7994+2	0.4530	0.7538	3.400	3-SR	IRON
140-7994SA	0.4530	0.7518	3.400	3-SR	IRON
140-7999	0.3740	0.6205	2.200	15-SR	IRON
140-8004	0.4375	0.7835	3.188	8-SR	IRON
140-8007	0.4313	0.6884	3.146	8-P	IRON
140-8008	0.4375	0.6884	3.146	8-SR	IRON
140-8010	0.3750	0.6884	3.155	6-SR	IRON
140-8011	0.5550	1.0020	5.188	14-SR	IRON
140-8013	0.3150	0.5020	2.250	1-P	IRON
140-8016	0.2757	0.4758	1.895	5-SR	IRON
140-8017	0.3160	0.4820	2.500	7-SR	IRON
140-8018	0.3160	0.5140	1.870	5-SR	IRON
140-8020	0.2757	0.4550	1.690	5-SR	IRON
140-8021	0.2757	0.4550	1.930	5-SR	IRON
140-8023	0.3548	0.5525	2.365	2-SR	IRON
140-8024	0.3935	0.6315	2.360	8-SR	IRON
140-8036	0.2765	0.4745	1.970	4-SR	IRON
140-8038	0.2371	0.4350	1.595	5-SR	IRON
140-8038+2	0.2371	0.4370	1.595	5-SR	IRON
140-8039	0.2771	0.4342	1.790	5-SR	IRON
140-8039+2	0.2771	0.4362	1.790	5-SR	IRON
140-8040	0.3150	0.5020	2.250	1-SR	IRON
140-8105	0.4375	0.6886	3.406	8-SR	IRON
140-8112	0.3155	0.5530	2.085	11-SR	IRON
140-8112+2	0.3155	0.5550	2.085	11-SR	IRON
140-8113	0.3740	0.6205	2.435	18-SR	IRON
140-8114	0.3155	0.5830	2.770	8-SR	IRON
140-8115	0.3155	0.5830	2.320	8-SR	IRON

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140-8122	0.3761	0.6297	2.835	4-SR	IRON
140-8124	0.2767	0.5140	1.740	2-SR	IRON
140-8128	0.3730	0.5640	3.313	1-SR	IRON
140-8133	0.3755	0.7100	3.150	8-SR	IRON
140-8134	0.3819	0.7518	3.400	8-SR	IRON
140-8134+10	0.3819	0.7618	3.400	8-SR	IRON
140-8134SA	0.3819	0.7518	3.400	8-SR	IRON
140-8139	0.2765	0.4763	1.488	29-SR	IRON
140-8142	0.2765	0.4760	2.088	3-SR	IRON
140-8143	0.3153	0.5145	2.260	5-SR	IRON
140-8144	0.2170	0.4365	1.690	5-SR	IRON
140-8147	0.2370	0.4360	1.520	5-SR	IRON
140-8155	0.2605	0.4765	1.975	6-SR	IRON
140-8156	0.2605	0.4765	1.770	6-SR	IRON
140-8157	0.2173	0.4358	2.130	6-SR	IRON
140-8158	0.2173	0.4358	1.875	6-SR	IRON
140-8160	0.4335	0.7100	3.350	1-SR	IRON
140-8161	0.3555	0.5535	2.365	1-SR	IRON
140-8168	0.3555	0.5540	2.200	1-SR	IRON
140-8169	0.3350	0.5530	1.970	1-SR	IRON
140-8170	0.3150	0.5530	2.010	1-SR	IRON
140-8171	0.3180	0.5918	2.520	8-SR	IRON
140-8172	0.3180	0.5531	2.177	3-SR	IRON
140-8172+2	0.3180	0.5551	2.177	3-SR	IRON
140-8173	0.2370	0.4360	1.775	4-SR	IRON
140-8177	0.3162	0.5528	2.382	1-SR	IRON
140-8177SA	0.3162	0.5528	2.382	1-SR	IRON
140-8178	0.3160	0.5528	2.052	1-SR	IRON
140-8178SA	0.3160	0.5528	2.052	1-SR	IRON
140-8180	0.3430	0.5577	2.275	1-SR	IRON
140-8180+2	0.3430	0.5597	2.275	1-SR	IRON
140-8186	0.2371	0.4355	1.920	4-SR	IRON
140-8187	0.2371	0.4355	1.920	5-SR	IRON
140-8188	0.3745	0.6263	2.610	3-SR	IRON
140-8188SA	0.3745	0.6263	2.610	3-SR	IRON
140-8189	0.2340	0.4353	1.651	4-SR	IRON
140-8190	0.2365	0.3950	1.580	5-SR	IRON
140-8191	0.2365	0.3948	1.695	4-SR	IRON
140-8192	0.2760	0.4745	2.280	5-SR	IRON
140-8193	0.2600	0.4755	1.795	5-SR	IRON
140-8193+2	0.2600	0.4775	1.795	5-SR	IRON
140-8194	0.2600	0.4755	1.990	5-SR	IRON
140-8194+2	0.2600	0.4775	1.990	5-SR	IRON
140-8195	0.2371	0.4355	1.600	4-SR	IRON
140-8200	0.3165	0.5538	1.992	2-SR	IRON
140-8201	0.3160	0.5145	1.970	4-SR	IRON
140-8202	0.3160	0.5143	2.045	4-SR	IRON
140-8203	0.2367	0.4363	2.065	5-SR	IRON
140-8204	0.2760	0.4350	1.550	4-SR	IRON
140-8205	0.2755	0.4745	1.990	3-SR	IRON
140-8207	0.3160	0.5140	1.820	4-SR	IRON
140-8207+2	0.3160	0.5160	1.820	4-SR	IRON
140-8208	0.2370	0.4350	1.455	5-SR	IRON
140-8209	0.3155	0.4743	2.045	8-SR	IRON
140-8210	0.3819	0.6504	2.633	8-SR	IRON
140-8210+2	0.3819	0.6524	2.633	8-SR	IRON
140-8210SA	0.3819	0.6504	2.633	8-SR	IRON
140-8211	0.2760	0.4350	2.070	5-SR	IRON
140-8211+2	0.2760	0.4370	2.070	5-SR	IRON
140-8212	0.3155	0.4745	2.205	4-SR	IRON

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140-8213	0.2170	0.3760	1.575	4-SR	IRON
140-8216	0.2365	0.3955	1.690	5-SR	IRON
140-8217	0.2365	0.3953	1.690	4-SR	IRON
140-8218	0.2170	0.3760	1.575	5-SR	IRON
140-8219	0.3145	0.4935	2.275	4-SR	IRON
140-8219+2	0.3145	0.4955	2.275	4-SR	IRON
140-8220	0.3750	0.6578	3.700	8-SR	IRON
140-8223	0.4190	0.6887	2.906	8-P	IRON
140-8224	0.4385	0.6920	3.250	33-P	IRON
140-8233	0.2760	0.4350	1.890	4-SR	IRON
140-8233+2	0.2760	0.4370	1.890	4-SR	IRON
140-8247	0.3165	0.5533	2.265	7-SR	IRON
140-8248	0.3180	0.5533	2.195	7-SR	IRON
140-8255	0.2345	0.4355	1.775	5-SR	IRON
140-8256	0.3740	0.6205	2.755	21-SR	IRON
140-8273	0.2365	0.4353	1.890	4-SR	IRON
140-8274	0.2765	0.4953	1.930	1-SR	IRON
140-8274+2	0.2765	0.4973	1.930	1-SR	IRON
140-8274+3	0.2765	0.4983	1.930	1-SR	IRON
140-8277	0.3162	0.4393	2.500	1-SR	IRON
140-8291	0.2350	0.4355	1.850	5-SR	IRON
140-8292	0.2755	0.4495	2.125	1-SR	IRON
140-8293	0.2755	0.4493	1.510	1-SR	IRON
140-8319	0.3741	0.6891	3.250	9-SR	IRON
140-8324	0.2163	0.4365	1.260	5-SR	IRON
140-8347	0.3140	0.5160	1.890	5-SR	IRON
140-8347+2	0.3140	0.5180	1.890	5-SR	IRON
140-8348	0.3145	0.5158	1.850	4-SR	IRON
140-8348+2	0.3145	0.5178	1.850	4-SR	IRON
140-8356	0.3735	0.5020	2.980	1-SR	IRON
140-8357	0.3735	0.5020	2.578	1-SR	IRON
140-8388	0.2760	0.4345	2.315	5-SR	IRON
140-8389	0.3160	0.4740	2.500	4-SR	IRON
140-8397	0.2173	0.4765	1.640	6-SR	IRON
140-8407	0.3730	0.6203	2.220	33-SR	IRON
140-8408	0.3750	0.6580	2.775	12-SR	IRON
140-8409	0.3730	0.6270	2.680	1-SR	IRON
140-8418	0.3125	0.4937	1.575	4-P	IRON
140-8419	0.3125	0.4934	1.693	4-SR	IRON
140-8420	0.3812	0.6268	2.500	4-SR	IRON
140-8476	0.3146	0.5651	2.440	1-P	IRON
140-8485	0.3750	0.6888	3.250	8-SR	IRON
140-8486	0.3750	0.6580	3.230	1-SR	IRON
140-8494	0.3135	0.5020	2.435	21-SR	IRON
140-8496	0.4164	0.8459	4.000	7-SR	IRON
140-8535	0.2757	0.5828	2.320	8-SR	IRON
140-8536	0.2757	0.5828	2.770	8-SR	IRON
140-8543	0.2365	0.3955	1.815	5-SR	IRON
140-8544	0.2365	0.3953	1.940	4-SR	IRON
140-8545	0.3440	0.4988	2.250	1-SR	IRON
140-8547	0.2750	0.4545	2.160	3-SR	IRON
140-8548	0.2750	0.4545	2.040	3-SR	IRON
140-8552	0.2745	0.4723	1.770	8-SR	IRON
140-8554	0.2355	0.4360	1.790	4-SR	IRON
140-8555	0.2355	0.4360	1.835	1-SR	IRON
140-8555+2	0.2355	0.4380	1.835	1-SR	IRON
140-8556	0.2355	0.4360	1.735	1-SR	IRON
140-8556+2	0.2355	0.4378	1.735	1-SR	IRON
140-8558	0.2765	0.4763	1.435	29-SR	IRON
140-8559	0.2365	0.4360	1.575	4-SR	IRON

P=Plain I.D., SR=Spiral Reamed I.D.

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-8560	0.2370	0.4953	1.880	1-SR	IRON
140-8561	0.2370	0.4358	1.490	5-SR	IRON
140-8562	0.3145	0.5640	2.440	1-SR	IRON
140-8564	0.2365	0.4365	1.280	4-SR	IRON
140-8565	0.2365	0.4365	1.595	4-SR	IRON
140-8567	0.2360	0.4360	1.750	4-SR	IRON
140-8569	0.2360	0.4360	1.990	4-SR	IRON
140-8571	0.2360	0.4360	1.990	4-SR	IRON
140-8572	0.2360	0.4360	1.690	5-SR	IRON
140-8573	0.2360	0.4358	1.540	5-SR	IRON
140-8574	0.2765	0.4955	2.200	1-SR	IRON
140-8575	0.2765	0.4955	2.050	1-SR	IRON
140-8577	0.2175	0.4763	1.875	6-SR	IRON
140-8578	0.2605	0.4763	1.775	5-SR	IRON
140-8579	0.2605	0.4755	1.970	6-SR	IRON
140-8580	0.2605	0.4765	1.535	6-SR	IRON
140-8581	0.2605	0.4765	1.695	6-SR	IRON
140-8582	0.2170	0.4765	1.715	6-SR	IRON
140-8583	0.2170	0.4763	2.045	6-SR	IRON
140-8584	0.2175	0.4073	1.360	5-SR	IRON
140-8585	0.2175	0.4075	1.590	5-SR	IRON
140-8586	0.2765	0.4548	1.660	5-SR	IRON
140-8587	0.2170	0.4355	1.750	5-SR	IRON
140-8590	0.3180	0.5133	2.955	13-SR	IRON
140-8591	0.3453	0.5635	4.006	4-SR	IRON
140-8591+10	0.3453	0.5735	4.006	4-SR	IRON
140-8591+5	0.3453	0.5685	4.006	4-SR	IRON
140-8592	0.3745	0.6305	2.785	12-SR	IRON
140-8592+2	0.3745	0.6325	2.785	12-SR	IRON
140-8593	0.2755	0.5118	1.640	1-SR	IRON
140-8593+2	0.2755	0.5138	1.640	1-SR	IRON
140-8594	0.3750	0.6578	2.640	2-SR	IRON
140-8658	0.3135	0.5020	2.860	21-SR	IRON
140-8659	0.3135	0.5020	3.081	21-SR	IRON
140-8662	0.2390	0.4727	1.420	1-SR	IRON
140-8663	0.2761	0.4724	1.740	2-SR	IRON
140-8666	0.2355	0.4333	1.700	2-SR	IRON
140-8668	0.2365	0.4333	1.500	2-SR	IRON
140-8670	0.2354	0.4350	1.654	5-SR	IRON
140-8671	0.2354	0.4350	1.654	5-SR	IRON
140-8673	0.3120	0.5020	2.390	1-SR	IRON
140-8674	0.3120	0.5020	2.209	1-SR	IRON
140-8679	0.3735	0.6885	4.060	8-SR	IRON
140-8679+5	0.3735	0.6935	4.060	8-SR	IRON
140-8715	0.3163	0.5512	1.949	1-P	IRON
140-9105	0.3440	0.5020	2.500	1-SR	IRON
140-9105U	0.3390	0.5020	2.500	1-SR	IRON
140-9106	0.3430	0.5020	2.750	1-SR	IRON
140-9107	0.3740	0.5020	2.250	1-SR	IRON
140-9108	0.3740	0.5020	2.375	1-SR	IRON
140-9108H	0.3740	0.5020	2.375	1-SR	IRON
140-9108U	0.3690	0.5020	2.375	1-SR	IRON
140-9109	0.3740	0.5020	2.500	1-SR	IRON
140-9110	0.3740	0.5020	2.625	1-SR	IRON
140-9111	0.3740	0.5020	2.875	1-SR	IRON
140-9111U	0.3690	0.5020	2.875	1-SR	IRON
140-9112	0.3745	0.5020	2.250	1-SR	IRON
140-9113	0.3745	0.5020	2.375	1-SR	IRON
140-9114	0.3750	0.5020	2.500	1-SR	IRON
140-9115	0.3750	0.5020	2.750	1-SR	IRON

Valve Guide Numerical Listing

Includes Conversion Guides

SBI Part #	I.D.	O.D.	Length	Type	Material
140-9116	0.4375	0.6270	3.125	1-SR	IRON
140-9119	0.4375	0.6265	2.500	1-SR	IRON
140-9197	0.4375	0.6270	3.000	1-SR	IRON
140-9198	0.3174	0.5020	2.000	8-SR	IRON
140-9204	0.3150	0.4390	2.200	1-SR	IRON
140-9205	0.3120	0.5020	2.000	8-SR	IRON
140-9206	0.3440	0.5020	2.188	21-SR	IRON
140-9208	0.3740	0.6205	2.740	12-SR	IRON
140-9259	0.3430	0.5020	3.063	1-SR	IRON
140-9260	0.3731	0.5020	2.874	1-SR	IRON
140-9298	0.3729	0.5020	2.375	1-SR	IRON
140-9458	0.3740	0.5020	3.060	1-SR	IRON
140-9458H	0.3740	0.5020	3.063	1-SR	IRON
140-9459	0.3430	0.5020	2.375	1-SR	IRON
140-9460	0.3430	0.5020	2.500	1-SR	IRON
140-9460H	0.3430	0.5020	2.500	1-SR	IRON
140-9460H+2	0.3430	0.5040	2.500	1-SR	IRON
140-9523	0.3440	0.5020	3.063	1-SR	IRON
140-9523H	0.3440	0.5020	3.063	1-SR	IRON
140-9546	0.3115	0.4390	3.063	1-SR	IRON
140-9554	0.3730	0.5020	2.750	1-SR	IRON
140-9557	0.3180	0.5535	2.000	2-SR	IRON
140-9560	0.3440	0.5020	2.000	1-SR	IRON
140-9584	0.3155	0.5020	1.563	1-SR	IRON
140-9604	0.3440	0.5020	2.625	1-SR	IRON
140-9606	0.3440	0.5020	2.375	1-SR	IRON
140-9606U	0.3390	0.5020	2.375	1-SR	IRON
140-9607	0.3440	0.5020	2.250	1-SR	IRON
140-9607H	0.3440	0.5020	2.250	1-SR	IRON
140-9607U	0.3390	0.5020	2.250	1-SR	IRON
140-9609	0.4375	0.6270	2.625	1-SR	IRON
140-9610	0.3750	0.5020	2.625	1-SR	IRON
140-9611	0.2510	0.4390	2.313	1-SR	IRON
140-9612	0.3440	0.5020	2.875	1-SR	IRON
140-9690	0.3150	0.5020	2.375	1-SR	IRON
140-9705	0.3155	0.5020	2.000	1-SR	IRON
140-9705U	0.3105	0.5020	2.000	1-SR	IRON
140-9715	0.3430	0.5020	2.125	1-SR	IRON
140-9716	0.3730	0.5020	2.188	1-SR	IRON
140-9846	0.3440	0.5020	2.313	21-SR	IRON
140-9846U	0.3390	0.5020	2.313	21-SR	IRON
140-9848	0.3135	0.5020	2.438	1-SR	IRON
140-9850	0.3720	0.5020	2.625	1-SR	IRON
140-9867	0.3440	0.5020	2.125	1-SR	IRON
140-9867U	0.3390	0.5020	2.125	1-SR	IRON
140-9869	0.3125	0.4390	1.875	1-SR	IRON
140-9872	0.3120	0.4390	2.281	1-SR	IRON
140-9873	0.3450	0.5020	2.125	1-SR	IRON
140-9907	0.3420	0.5020	2.375	1-SR	IRON
140-9908	0.3425	0.5020	2.250	1-SR	IRON
140-9909	0.3420	0.5020	2.875	1-SR	IRON
140-9946	0.3430	0.5020	2.250	1-SR	IRON
140-9964	0.3730	0.5020	2.625	1-SR	IRON
140-9964H	0.3730	0.5020	2.625	1-SR	IRON
140-9964H+2	0.3730	0.5040	2.625	1-SR	IRON
140-9972	0.3740	0.6203	2.630	12-SR	IRON
140-9972+3	0.3740	0.6233	2.630	12-SR	IRON
140-9972H	0.3740	0.6203	2.630	12-SR	IRON
140-9972U	0.3690	0.6205	2.630	12-SR	IRON
140-9973	0.3735	0.6255	2.420	8-SR	IRON

P=Plain I.D., SR=Spiral Reamed I.D.

Valve Guide Numerical Listing

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SBI Part #	I.D.	O.D.	Length	Type	Material
140-9973U	0.3685	0.6255	2.420	8-SR	IRON
140-9977	0.3120	0.5020	2.281	1-SR	IRON
140-9977H	0.3120	0.5020	2.281	1-SR	IRON
140-9977U	0.3070	0.5020	2.281	1-SR	IRON
149-1000	0.7850	1.2650	0.500	GUIDE SPACER	IRON
149-1001				GUIDE RETAINER	STEEL
340-1007BR	0.2161	0.4755	1.641	6-PB	BRONZE
340-1008BR	0.2165	0.4750	1.870	6-PB	BRONZE
340-1011BR	0.2165	0.4155	1.695	4-PB	BRONZE
340-1012BR	0.2362	0.4355	1.415	6-PB	BRONZE
340-1013BR	0.2598	0.4760	1.795	5-PB	BRONZE
340-1014BR	0.2598	0.4755	1.990	5-PB	BRONZE
340-1018BR	0.2756	0.4750	1.495	29-PB	BRONZE
340-1019BR	0.3110	0.4390	2.500	1-PB	BRONZE
340-1020BR	0.3440	0.5020	2.250	1-PB	BRONZE
340-1021BR	0.3431	0.5020	2.375	1-PB	BRONZE
340-1022BR	0.3431	0.5020	2.625	1-PB	BRONZE
340-1024BR	0.3721	0.5020	2.375	1-PB	BRONZE
340-1025BR	0.3724	0.5020	2.750	1-PB	BRONZE
340-1026BR	0.3431	0.5020	2.875	1-PB	BRONZE
340-1027BR	0.3734	0.5020	2.625	1-PB	BRONZE
340-1028BR	0.3734	0.5020	2.375	1-PB	BRONZE
340-1029BR	0.3430	0.5020	2.500	1-PB	BRONZE
340-1030BR	0.3120	0.4397	1.875	1-PB	BRONZE
340-1031BR	0.3741	0.5020	2.500	1-PB	BRONZE
340-1032BR	0.3421	0.5020	3.063	1-PB	BRONZE
340-1033BR	0.3421	0.5020	2.750	1-PB	BRONZE
340-1034BR	0.3432	0.5020	2.125	1-PB	BRONZE
340-1035BR	0.3705	0.5020	3.065	1-PB	BRONZE
340-1036BR	0.3735	0.6250	2.420	11-PB	BRONZE
340-1037BR	0.3735	0.6200	2.630	12-PB	BRONZE
340-1038BR	0.2744	0.5020	2.234	40-PB	BRONZE
340-1039BR	0.2744	0.5020	2.600	40-PB	BRONZE
340-1040BR	0.3092	0.5020	2.234	40-PB	BRONZE
340-1041BR	0.3091	0.5020	2.600	40-PB	BRONZE
340-1042BR	0.3413	0.5020	2.234	40-PB	BRONZE
340-1043BR	0.3413	0.5020	2.600	40-PB	BRONZE
340-1044BR	0.3430	0.5020	2.500	40-PB	BRONZE
340-1045BR	0.3430	0.5020	3.065	40-PB	BRONZE
340-1046BR	0.3150	0.5010	2.120	1-PB	BRONZE

Valve Guide Progressive Size Listing By I.D.

Includes Conversion Guides

I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
			GUIDE RETAINER	149-1001	0.2364	0.4720	1.778	8-P	140-3180
0.1966	0.3952	1.460	8-P	140-3179	0.2365	0.3945	1.378	2-P	140-3188
0.1970	0.3560	1.750	1-PB	140-3169BR	0.2365	0.3948	1.695	4-SR	140-8191
0.2161	0.4755	1.641	6-PB	340-1007BR	0.2365	0.3950	1.420	1-P	140-3029
0.2163	0.4365	1.260	5-SR	140-8324	0.2365	0.3950	1.580	5-SR	140-8190
0.2165	0.4155	1.695	4-PB	340-1011BR	0.2365	0.3953	1.690	4-SR	140-8217
0.2165	0.4170	1.580	5-P	140-3128	0.2365	0.3953	1.940	4-SR	140-8544
0.2165	0.4750	1.870	6-PB	340-1008BR	0.2365	0.3955	1.690	5-SR	140-8216
0.2167	0.3760	1.660	5-P	140-3129	0.2365	0.3955	1.815	5-SR	140-8543
0.2168	0.4348	1.655	1-P	140-3152	0.2365	0.3970	1.420	1-P	140-3029+2
0.2168	0.4358	1.740	1-P	140-3154	0.2365	0.4333	1.500	2-SR	140-8668
0.2170	0.3760	1.575	4-SR	140-8213	0.2365	0.4353	1.890	4-SR	140-8273
0.2170	0.3760	1.575	5-SR	140-8218	0.2365	0.4355	1.575	1-P	140-3046
0.2170	0.4345	1.535	1-P	140-3070	0.2365	0.4355	1.815	8-P	140-3182
0.2170	0.4355	1.750	5-SR	140-8587	0.2365	0.4358	1.655	1-SR	140-3112
0.2170	0.4365	1.690	5-SR	140-8144	0.2365	0.4360	1.575	4-SR	140-8559
0.2170	0.4763	2.045	6-SR	140-8583	0.2365	0.4365	1.280	4-SR	140-8564
0.2170	0.4765	1.715	6-SR	140-8582	0.2365	0.4365	1.595	4-SR	140-8565
0.2173	0.4358	1.875	6-SR	140-8158	0.2365	0.4367	1.380	5-P	140-3127
0.2173	0.4358	2.130	6-SR	140-8157	0.2365	0.4375	1.815	8-P	140-3182+2
0.2173	0.4370	1.630	6-SR	140-3136	0.2366	0.4493	1.510	1-SR	140-3020
0.2173	0.4370	1.790	6-SR	140-3137	0.2367	0.4363	2.065	5-SR	140-8203
0.2173	0.4765	1.640	6-SR	140-8397	0.2370	0.4350	1.455	5-SR	140-8208
0.2175	0.3774	1.455	1-SR	140-3028	0.2370	0.4358	1.490	5-SR	140-8561
0.2175	0.4073	1.360	5-SR	140-8584	0.2370	0.4360	1.520	5-SR	140-8147
0.2175	0.4073	1.630	5-P	140-3134	0.2370	0.4360	1.775	4-SR	140-8173
0.2175	0.4073	1.850	5-P	140-3135	0.2370	0.4953	1.880	1-SR	140-8560
0.2175	0.4075	1.590	5-SR	140-8585	0.2371	0.4350	1.595	5-SR	140-8038
0.2175	0.4075	1.715	5-P	140-3130	0.2371	0.4355	1.600	4-SR	140-8195
0.2175	0.4093	1.630	5-P	140-3134+2	0.2371	0.4355	1.920	4-SR	140-8186
0.2175	0.4093	1.850	5-P	140-3135+2	0.2371	0.4355	1.920	5-SR	140-8187
0.2175	0.4763	1.875	6-SR	140-8577	0.2371	0.4360	1.725	1-P	140-3047
0.2177	0.4355	1.395	1-P	140-3170	0.2371	0.4370	1.595	5-SR	140-8038+2
0.2340	0.4353	1.651	4-SR	140-8189	0.2372	0.4352	1.535	2-P	140-3162
0.2345	0.4355	1.775	5-SR	140-8255	0.2373	0.4395	1.715	1-P	140-3166
0.2350	0.4333	1.500	1-P	140-3057	0.2390	0.4727	1.420	1-SR	140-8662
0.2350	0.4333	1.700	1-P	140-3056	0.2510	0.4390	2.313	1-P	140-5611
0.2350	0.4355	1.850	5-SR	140-8291	0.2510	0.4390	2.313	1-SR	140-9611
0.2354	0.4350	1.654	5-SR	140-8670	0.2510	0.4998	2.360	11-SR	140-6254
0.2354	0.4350	1.654	5-SR	140-8671	0.2510	0.5018	2.360	11-SR	140-6254+2
0.2355	0.4333	1.700	2-SR	140-8666	0.2510	0.5028	2.360	11-SR	140-6254+3
0.2355	0.4360	1.735	1-SR	140-8556	0.2510	0.5048	2.360	11-SR	140-6254+5
0.2355	0.4360	1.790	4-SR	140-8554	0.2510	0.5098	2.360	11-SR	140-6254+10
0.2355	0.4360	1.835	1-SR	140-8555	0.2598	0.4755	1.990	5-PB	340-1014BR
0.2355	0.4378	1.735	1-SR	140-8556+2	0.2598	0.4760	1.795	5-PB	340-1013BR
0.2355	0.4380	1.835	1-SR	140-8555+2	0.2600	0.4755	1.795	5-SR	140-8193
0.2358	0.4355	1.615	1-P	140-3019	0.2600	0.4755	1.950	5-P	140-7589
0.2360	0.4358	1.540	5-SR	140-8573	0.2600	0.4755	1.990	5-SR	140-8194
0.2360	0.4360	1.556	5-SR	140-3118	0.2600	0.4775	1.795	5-SR	140-8193+2
0.2360	0.4360	1.690	5-SR	140-8572	0.2600	0.4775	1.990	5-SR	140-8194+2
0.2360	0.4360	1.750	4-SR	140-8567	0.2605	0.4755	1.970	5-SR	140-7830
0.2360	0.4360	1.872	5-SR	140-3119	0.2605	0.4755	1.970	6-SR	140-8579
0.2360	0.4360	1.990	4-SR	140-8569	0.2605	0.4763	1.775	5-SR	140-8578
0.2360	0.4360	1.990	4-SR	140-8571	0.2605	0.4765	1.535	6-SR	140-8580
0.2361	0.4355	1.655	1-P	140-3168	0.2605	0.4765	1.695	6-SR	140-8581
0.2362	0.3950	1.378	8-P	140-3011	0.2605	0.4765	1.770	6-SR	140-8156
0.2362	0.3950	1.773	8-P	140-3010	0.2605	0.4765	1.975	6-SR	140-8155
0.2362	0.4355	1.415	6-PB	140-3159BR	0.2610	0.4755	2.165	4-SR	140-7659
0.2362	0.4355	1.415	6-PB	340-1012BR	0.2744	0.5020	2.234	40-PB	340-1038BR
0.2364	0.3952	1.820	21-P	140-3164	0.2744	0.5020	2.600	40-PB	340-1039BR

P=Plain I.D., SR=Spiral Reamed I.D.

Valve Guide Progressive Size Listing By I.D.

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I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
0.2745	0.4723	1.770	8-SR	140-8552	0.2770	0.4390	1.990	1-SR	140-3001
0.2750	0.4545	2.040	3-SR	140-8548	0.2771	0.4342	1.790	5-SR	140-8039
0.2750	0.4545	2.160	3-SR	140-8547	0.2771	0.4362	1.790	5-SR	140-8039+2
0.2751	0.4934	2.275	4-SR	140-3023	0.2775	0.4395	1.937	1-SR	140-3080
0.2751	0.4954	2.275	4-SR	140-3023+2	0.2775	0.4395	2.020	1-SR	140-3081
0.2752	0.4720	1.702	1-P	140-3026	0.2775	0.4725	2.345	4-SR	140-3196
0.2752	0.4720	1.820	1-P	140-3149	0.2775	0.4725	2.345	1-P	140-3197
0.2752	0.4740	1.702	1-P	140-3026+2	0.2776	0.5015	1.937	21-SR	140-3021
0.2752	0.4740	1.790	2-P	140-3105	0.2776	0.5015	1.937	21-SR	140-3033
0.2755	0.4493	1.510	1-SR	140-8293	0.2776	0.5015	2.020	21-SR	140-3022
0.2755	0.4495	2.125	1-SR	140-8292	0.2777	0.5020	2.347	8-SR	140-3141
0.2755	0.4547	1.967	5-P	140-3049	0.2780	0.5015	2.020	21-SR	140-3034
0.2755	0.4547	1.967	1-P	140-3142	0.3054	0.5000	2.115	1-P	140-3053U
0.2755	0.4745	1.990	3-SR	140-8205	0.3070	0.5020	2.281	1-SR	140-9977U
0.2755	0.4955	1.478	8-P	140-3098	0.3091	0.5020	2.600	40-PB	340-1041BR
0.2755	0.5118	1.640	1-SR	140-8593	0.3092	0.5020	2.234	40-PB	340-1040BR
0.2755	0.5138	1.640	1-SR	140-8593+2	0.3105	0.5020	2.000	1-SR	140-9705U
0.2756	0.4750	1.495	29-PB	340-1018BR	0.3110	0.4390	2.500	1-PB	340-1019BR
0.2756	0.5020	1.460	8-P	140-3202	0.3115	0.4390	3.063	1-P	140-7546
0.2757	0.4550	1.690	5-SR	140-8020	0.3115	0.4390	3.063	1-SR	140-9546
0.2757	0.4550	1.930	5-SR	140-8021	0.3115	0.5018	2.500	8-P	140-1723
0.2757	0.4758	1.895	5-SR	140-8016	0.3120	0.4390	2.188	1-SR	140-6897H
0.2757	0.5828	2.320	8-SR	140-8535	0.3120	0.4390	2.281	1-P	140-6872
0.2757	0.5828	2.770	8-SR	140-8536	0.3120	0.4390	2.281	1-SR	140-9872
0.2760	0.4341	1.575	28-P	140-3103	0.3120	0.4390	2.875	1-SR	140-6896H
0.2760	0.4341	1.575	28-P	140-3104	0.3120	0.4397	1.875	1-PB	340-1030BR
0.2760	0.4345	2.315	5-SR	140-8388	0.3120	0.4856	2.094	8-P	140-1568
0.2760	0.4348	1.770	1-SR	140-7827	0.3120	0.5020	2.000	8-P	140-7205
0.2760	0.4350	1.550	4-SR	140-8204	0.3120	0.5020	2.000	8-SR	140-9205
0.2760	0.4350	1.770	5-SR	140-7826	0.3120	0.5020	2.209	1-SR	140-8674
0.2760	0.4350	1.890	4-SR	140-8233	0.3120	0.5020	2.281	1-P	140-6977
0.2760	0.4350	2.070	5-SR	140-8211	0.3120	0.5020	2.281	1-SR	140-9977
0.2760	0.4370	1.890	4-SR	140-8233+2	0.3120	0.5020	2.281	1-SR	140-9977H
0.2760	0.4370	2.070	5-SR	140-8211+2	0.3120	0.5020	2.380	1-P	140-7679
0.2760	0.4423	2.315	8-SR	140-7873	0.3120	0.5020	2.390	1-SR	140-8673
0.2760	0.4735	1.695	2-P	140-3187	0.3120	0.5325	2.094	11-P	140-1697
0.2760	0.4735	1.770	2-P	140-3186	0.3120	0.5645	2.063	2-P	140-4941
0.2760	0.4735	1.910	2-P	140-3185	0.3120	0.6263	1.340	8-P	140-7408
0.2760	0.4745	2.167	4-SR	140-7825	0.3120	0.6265	1.500	8-P	140-1636
0.2760	0.4745	2.280	5-SR	140-8192	0.3120	0.6270	2.688	2-P	140-4944
0.2761	0.4724	1.740	2-SR	140-8663	0.3125	0.4390	1.875	1-P	140-6869
0.2763	0.5110	2.289	1-P	140-3009	0.3125	0.4390	1.875	1-SR	140-9869
0.2763	0.5130	2.289	1-P	140-3009+2	0.3125	0.4934	1.693	4-SR	140-8419
0.2764	0.4725	2.150	1-P	140-3163	0.3125	0.4937	1.575	4-P	140-8418
0.2765	0.4395	2.331	21-P	140-3055	0.3125	0.5020	1.875	1-P	140-7663
0.2765	0.4548	1.660	5-SR	140-8586	0.3125	0.5640	2.563	8-P	140-1703
0.2765	0.4745	1.970	4-SR	140-8036	0.3130	0.4998	2.380	11-SR	140-1946
0.2765	0.4755	2.168	6-P	140-7710	0.3130	0.5000	2.500	1-SR	140-1832
0.2765	0.4760	2.088	3-SR	140-8142	0.3130	0.5018	2.380	11-SR	140-1946+2
0.2765	0.4763	1.435	29-SR	140-8558	0.3130	0.5020	2.500	1-SR	140-1832+2
0.2765	0.4763	1.488	29-SR	140-8139	0.3130	0.5028	2.380	11-SR	140-1946+3
0.2765	0.4953	1.930	1-SR	140-8274	0.3130	0.5048	2.380	11-SR	140-1946+5
0.2765	0.4955	2.050	1-SR	140-8575	0.3130	0.5098	2.380	11-SR	140-1946+10
0.2765	0.4955	2.200	1-SR	140-8574	0.3130	0.5640	2.250	8-P	140-1851
0.2765	0.4973	1.930	1-SR	140-8274+2	0.3130	0.5640	2.656	8-P	140-1852
0.2765	0.4983	1.930	1-SR	140-8274+3	0.3130	0.5645	2.750	11-P	140-1577
0.2767	0.5140	1.740	2-SR	140-8124	0.3130	0.6578	2.125	8-P	140-1503
0.2768	0.4390	2.200	1-SR	140-3066	0.3135	0.4385	2.064	1-P	140-1909
0.2768	0.4747	2.500	21-SR	140-3048	0.3135	0.4385	2.500	1-P	140-1908
0.2770	0.4390	1.660	1-SR	140-3000	0.3135	0.4390	1.813	1-SR	140-1907

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I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
0.3135	0.4390	2.500	1-SR	140-6587	0.3153	0.4820	2.130	8-P	140-3091
0.3135	0.5016	2.500	1-P	140-1458	0.3153	0.5145	2.260	5-SR	140-8143
0.3135	0.5020	2.250	21-SR	140-7847	0.3154	0.5000	2.115	1-SR	140-3053
0.3135	0.5020	2.435	21-SR	140-8494	0.3154	0.5000	2.115	1-SR	140-3053H
0.3135	0.5020	2.438	1-SR	140-9848	0.3154	0.5020	2.115	1-SR	140-3053+2
0.3135	0.5020	2.860	21-SR	140-8658	0.3155	0.4743	2.045	8-SR	140-8209
0.3135	0.5020	3.081	21-SR	140-8659	0.3155	0.4745	1.930	2-SR	140-7542
0.3140	0.5160	1.890	5-SR	140-8347	0.3155	0.4745	2.205	4-SR	140-8212
0.3140	0.5180	1.890	5-SR	140-8347+2	0.3155	0.4745	2.313	5-SR	140-7499
0.3140	0.5655	2.585	1-P	140-3079	0.3155	0.4745	2.660	5-SR	140-7828
0.3140	0.5660	3.031	1-P	140-6881	0.3155	0.4765	1.435	6-SR	140-7359
0.3142	0.5145	2.210	1-P	140-3203	0.3155	0.5020	1.563	1-SR	140-9584
0.3142	0.5250	2.185	1-P	140-3165	0.3155	0.5020	2.000	1-SR	140-9705
0.3142	0.5270	2.185	1-P	140-3165+2	0.3155	0.5130	1.970	5-P	140-3193
0.3145	0.4745	1.810	2-P	140-7713	0.3155	0.5130	2.200	5-P	140-3192
0.3145	0.4745	2.160	2-P	140-7714	0.3155	0.5250	2.185	1-SR	140-3032
0.3145	0.4750	1.990	2-SR	140-7395	0.3155	0.5270	2.185	1-SR	140-3032+2
0.3145	0.4765	2.160	2-P	140-7714+2	0.3155	0.5525	2.085	1-SR	140-3067
0.3145	0.4934	1.693	4-P	140-7451N	0.3155	0.5530	2.085	11-SR	140-8112
0.3145	0.4935	2.275	4-SR	140-8219	0.3155	0.5535	2.130	8-SR	140-7532
0.3145	0.4937	1.575	4-P	140-7429N	0.3155	0.5545	2.085	1-SR	140-3067+2
0.3145	0.4953	1.693	4-P	140-7451N+2	0.3155	0.5550	2.085	11-SR	140-8112+2
0.3145	0.4955	2.275	4-SR	140-8219+2	0.3155	0.5645	2.360	8-SR	140-7527
0.3145	0.4957	1.575	4-P	140-7429N+2	0.3155	0.5830	2.320	8-SR	140-8115
0.3145	0.5020	1.575	4-P	140-7661	0.3155	0.5830	2.770	8-SR	140-8114
0.3145	0.5020	1.693	4-P	140-7662	0.3157	0.4737	1.970	1-P	140-3097
0.3145	0.5158	1.850	4-SR	140-8348	0.3157	0.5905	3.285	8-P	140-3157
0.3145	0.5178	1.850	4-SR	140-8348+2	0.3158	0.5128	1.810	2-P	140-3191
0.3145	0.5250	2.185	1-SR	140-3031	0.3158	0.5128	1.930	2-P	140-3190
0.3145	0.5250	2.185	8-SR	140-3156	0.3160	0.4740	2.500	4-SR	140-8389
0.3145	0.5270	2.185	1-SR	140-3031+2	0.3160	0.4745	1.930	2-SR	140-7545
0.3145	0.5270	2.185	8-SR	140-3156+2	0.3160	0.4820	2.500	7-SR	140-8017
0.3145	0.5528	1.970	8-P	140-7656	0.3160	0.5140	1.820	4-SR	140-8207
0.3145	0.5640	2.440	1-SR	140-8562	0.3160	0.5140	1.870	5-SR	140-8018
0.3146	0.5651	2.440	1-P	140-8476	0.3160	0.5143	2.045	4-SR	140-8202
0.3148	0.5025	2.127	3-P	140-3099	0.3160	0.5145	1.970	4-SR	140-8201
0.3148	0.5025	2.227	3-P	140-3100	0.3160	0.5145	2.260	5-SR	140-7523
0.3150	0.4390	2.200	1-SR	140-9204	0.3160	0.5160	1.820	4-SR	140-8207+2
0.3150	0.4740	2.040	1-P	140-3181	0.3160	0.5165	2.260	5-SR	140-7523+2
0.3150	0.5010	2.120	1-PB	340-1046BR	0.3160	0.5525	2.322	8-SR	140-7529
0.3150	0.5020	2.250	1-P	140-8013	0.3160	0.5528	2.052	1-SR	140-8178
0.3150	0.5020	2.250	1-SR	140-8040	0.3160	0.5528	2.052	1-SR	140-8178SA
0.3150	0.5020	2.375	1-SR	140-9690	0.3160	0.5645	2.765	8-SR	140-7528
0.3150	0.5025	2.438	1-P	140-1956	0.3162	0.4393	2.500	1-SR	140-8277
0.3150	0.5143	1.890	5-SR	140-7577	0.3162	0.5335	2.465	1-SR	140-3131
0.3150	0.5145	1.735	5-SR	140-7576	0.3162	0.5528	2.382	1-SR	140-8177
0.3150	0.5145	1.848	5-SR	140-7574	0.3162	0.5528	2.382	1-SR	140-8177SA
0.3150	0.5145	2.046	5-SR	140-7575	0.3163	0.5512	1.949	1-P	140-8715
0.3150	0.5163	1.890	5-SR	140-7577+2	0.3163	0.5645	2.281	11-P	140-1619
0.3150	0.5165	1.848	5-SR	140-7574+2	0.3164	0.5643	1.658	8-P	140-1678
0.3150	0.5165	2.046	5-SR	140-7575+2	0.3165	0.5533	2.265	7-SR	140-8247
0.3150	0.5205	2.046	5-SR	140-7575+6	0.3165	0.5538	1.992	2-SR	140-8200
0.3150	0.5526	2.245	11-P	140-3101	0.3170	0.5643	1.813	1-SR	140-1717
0.3150	0.5527	2.362	8-P	140-3176	0.3174	0.5020	2.000	8-SR	140-9198
0.3150	0.5530	2.010	1-SR	140-8170	0.3175	0.5020	2.000	8-P	140-7198
0.3150	0.6300	2.520	11-P	140-3073	0.3175	0.5339	2.540	8-P	140-3012
0.3152	0.5130	2.205	5-P	140-3102	0.3175	0.5348	2.525	7-P	140-7822
0.3152	0.6297	2.540	8-P	140-3074	0.3175	0.5368	2.525	7-P	140-7822+2
0.3153	0.4740	1.970	1-P	140-3093	0.3175	0.5655	2.525	7-P	140-7823
0.3153	0.4820	2.090	8-P	140-3092	0.3178	0.5130	3.175	12-SR	140-3038

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I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
0.3180	0.5133	2.955	13-SR	140-8590	0.3432	0.5020	2.125	1-PB	340-1034BR
0.3180	0.5133	3.155	7-SR	140-3123	0.3432	0.5655	2.188	1-P	140-1476
0.3180	0.5180	3.155	7-SR	140-3123+5	0.3432	0.6575	1.813	1-SR	140-1833
0.3180	0.5333	3.155	7-SR	140-3123+20	0.3433	0.6570	2.375	8-P	140-1962
0.3180	0.5531	2.177	3-SR	140-8172	0.3433	0.6575	2.719	9-P	140-1970
0.3180	0.5533	2.195	7-SR	140-8248	0.3434	0.6571	2.688	8-P	140-1673
0.3180	0.5535	2.000	2-SR	140-9557	0.3435	0.4695	2.125	21-SR	140-6053
0.3180	0.5551	2.177	3-SR	140-8172+2	0.3435	0.5645	3.000	3-P	140-1690
0.3180	0.5918	2.520	8-SR	140-8171	0.3435	0.5648	2.688	25-P	140-1543
0.3350	0.5530	1.970	1-SR	140-8169	0.3435	0.5648	3.344	8-P	140-1732
0.3390	0.5020	2.125	1-SR	140-9867U	0.3435	0.5650	2.188	1-P	140-1758
0.3390	0.5020	2.250	1-SR	140-9607U	0.3435	0.5650	2.438	1-P	140-1527
0.3390	0.5020	2.313	21-SR	140-9846U	0.3435	0.5655	3.219	8-P	140-1453
0.3390	0.5020	2.375	1-P	140-5606U	0.3435	0.5953	2.625	1-P	140-1544
0.3390	0.5020	2.375	1-SR	140-9606U	0.3435	0.5953	2.938	8-P	140-1545N
0.3390	0.5020	2.500	1-SR	140-9105U	0.3435	0.5960	2.610	10-P	140-1880
0.3390	0.5640	2.375	1-SR	140-7271U	0.3435	0.6268	2.563	1-P	140-7564
0.3413	0.5020	2.234	40-PB	340-1042BR	0.3435	0.6270	2.835	1-P	140-7563
0.3413	0.5020	2.600	40-PB	340-1043BR	0.3435	1.0303	2.210	36-P	140-1614
0.3420	0.5020	2.120	21-P	140-3015	0.3437	0.6277	2.375	8-P	140-1860
0.3420	0.5020	2.210	21-P	140-3016	0.3437	0.7515	2.470	3-P	140-1726
0.3420	0.5020	2.375	1-P	140-7907	0.3440	0.4988	2.250	1-SR	140-8545
0.3420	0.5020	2.375	1-SR	140-9907	0.3440	0.5020	2.000	1-SR	140-9560
0.3420	0.5020	2.875	1-SR	140-9909	0.3440	0.5020	2.125	1-P	140-6867
0.3420	0.5640	2.250	1-SR	140-7507	0.3440	0.5020	2.125	1-SR	140-9867
0.3420	0.5640	2.480	1-P	140-3088	0.3440	0.5020	2.188	21-SR	140-9206
0.3420	0.5640	2.640	1-P	140-3089	0.3440	0.5020	2.250	1-P	140-5607
0.3421	0.5020	2.750	1-PB	340-1033BR	0.3440	0.5020	2.250	1-SR	140-9607
0.3421	0.5020	3.063	1-PB	340-1032BR	0.3440	0.5020	2.250	1-SR	140-9607H
0.3425	0.5020	2.250	1-P	140-7908	0.3440	0.5020	2.250	1-PB	340-1020BR
0.3425	0.5020	2.250	1-SR	140-9908	0.3440	0.5020	2.313	21-SR	140-9846
0.3425	0.6573	2.313	11-P	140-1620	0.3440	0.5020	2.375	1-P	140-5606
0.3425	0.6575	2.813	11-P	140-1338	0.3440	0.5020	2.375	1-SR	140-9606
0.3427	0.6570	2.437	8-P	140-1872	0.3440	0.5020	2.500	1-P	140-6105
0.3427	0.6573	2.563	11-P	140-1515	0.3440	0.5020	2.500	1-SR	140-9105
0.3427	0.6575	2.844	14-P	140-1873	0.3440	0.5020	2.625	1-P	140-5604
0.3429	0.5633	2.810	1-SR	140-1823	0.3440	0.5020	2.625	1-SR	140-9604
0.3430	0.5020	2.125	1-P	140-7715	0.3440	0.5020	2.875	1-P	140-5612
0.3430	0.5020	2.125	1-SR	140-9715	0.3440	0.5020	2.875	1-SR	140-9612
0.3430	0.5020	2.250	1-P	140-7946	0.3440	0.5020	3.063	1-P	140-6523
0.3430	0.5020	2.250	1-SR	140-9946	0.3440	0.5020	3.063	1-SR	140-9523
0.3430	0.5020	2.375	1-P	140-7459	0.3440	0.5020	3.063	1-SR	140-9523H
0.3430	0.5020	2.375	1-SR	140-9459	0.3440	0.5040	2.250	1-P	140-5607+2
0.3430	0.5020	2.500	1-P	140-7460	0.3440	0.5040	2.625	1-P	140-5604+2
0.3430	0.5020	2.500	1-SR	140-9460	0.3440	0.5640	2.250	1-SR	140-7272
0.3430	0.5020	2.500	1-SR	140-9460H	0.3440	0.5640	2.375	1-SR	140-7271
0.3430	0.5020	2.500	1-PB	340-1029BR	0.3440	0.5640	2.625	1-SR	140-7588
0.3430	0.5020	2.500	40-PB	340-1044BR	0.3440	0.5640	2.875	1-SR	140-7552
0.3430	0.5020	2.750	1-P	140-6106	0.3440	0.5645	2.656	1-P	140-1804
0.3430	0.5020	2.750	1-SR	140-9106	0.3440	0.5650	1.870	3-SR	140-7495
0.3430	0.5020	3.063	1-P	140-7259	0.3440	0.5650	2.200	1-SR	140-7498
0.3430	0.5020	3.063	1-SR	140-9259	0.3440	0.5670	2.250	1-SR	140-7272+3
0.3430	0.5020	3.065	40-PB	340-1045BR	0.3440	0.6277	2.859	8-P	140-1896
0.3430	0.5040	2.500	1-SR	140-9460H+2	0.3440	0.6277	2.969	8-P	140-1899
0.3430	0.5577	2.275	1-SR	140-8180	0.3440	0.6570	3.125	8-P	140-1874
0.3430	0.5597	2.275	1-SR	140-8180+2	0.3440	0.6575	3.250	13-P	140-1875
0.3430	0.5640	3.062	1-SR	140-7278	0.3440	0.6890	3.078	13-P	140-1411
0.3431	0.5020	2.375	1-PB	340-1021BR	0.3440	0.7513	2.938	3-P	140-1966
0.3431	0.5020	2.625	1-PB	340-1022BR	0.3445	0.5636	2.266	8-SR	140-1745
0.3431	0.5020	2.875	1-PB	340-1026BR	0.3445	0.5640	2.125	9-P	140-1944

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I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
0.3445	0.5640	2.250	9-P	140-1943	0.3730	0.5020	2.750	1-SR	140-9554
0.3445	0.5643	2.625	3-P	140-1689	0.3730	0.5020	2.875	1-P	140-7260
0.3445	0.5665	2.250	2-SR	140-1854	0.3730	0.5040	2.625	1-SR	140-9964H+2
0.3445	0.6260	2.310	8-P	140-1974	0.3730	0.5640	2.375	1-SR	140-7291
0.3445	0.6575	2.813	11-P	140-1337	0.3730	0.5640	2.875	1-SR	140-7279
0.3450	0.5020	2.125	1-P	140-6873	0.3730	0.5640	3.313	1-SR	140-8128
0.3450	0.5020	2.125	1-SR	140-9873	0.3730	0.6203	2.220	33-SR	140-8407
0.3450	0.5639	3.250	1-SR	140-1680	0.3730	0.6265	3.500	8-SR	140-5745
0.3450	0.5640	2.375	1-SR	140-7562	0.3730	0.6270	2.680	1-SR	140-8409
0.3450	0.5659	3.250	1-SR	140-1680+2	0.3730	0.6890	3.620	1-SR	140-3140
0.3450	0.5689	3.250	1-SR	140-1680+5	0.3730	0.6890	4.055	8-SR	140-3139
0.3450	0.6578	2.374	1-SR	140-1821	0.3730	0.6990	3.620	1-SR	140-3140+10
0.3453	0.5635	4.006	4-SR	140-8591	0.3730	0.6990	4.055	8-SR	140-3139+10
0.3453	0.5685	4.006	4-SR	140-8591+5	0.3730	0.7090	3.620	1-SR	140-3140+20
0.3453	0.5735	4.006	4-SR	140-8591+10	0.3730	0.7090	4.055	8-SR	140-3139+20
0.3540	0.6312	2.670	1-SR	140-3184	0.3731	0.5020	2.874	1-SR	140-9260
0.3542	0.6312	2.670	8-SR	140-3183	0.3733	0.6888	3.625	8-SR	140-3195
0.3544	0.5535	2.365	4-P	140-3086	0.3734	0.5020	2.375	1-PB	340-1028BR
0.3545	0.5325	1.990	2-P	140-3189	0.3734	0.5020	2.625	1-PB	340-1027BR
0.3547	0.5526	2.365	1-P	140-3054	0.3735	0.5020	2.578	1-SR	140-8357
0.3547	0.5527	2.018	2-P	140-3060	0.3735	0.5020	2.579	1-P	140-7681
0.3547	0.5920	2.402	8-P	140-3175	0.3735	0.5020	2.980	1-SR	140-8356
0.3547	0.5920	2.620	1-P	140-3177	0.3735	0.5020	3.969	1-SR	140-7669
0.3548	0.5525	2.365	2-SR	140-8023	0.3735	0.5021	2.980	1-P	140-7682
0.3550	0.5920	1.930	8-P	140-3077	0.3735	0.6200	2.630	12-PB	340-1037BR
0.3550	0.5920	2.835	5-P	140-3071	0.3735	0.6203	2.620	9-SR	140-3024
0.3555	0.5135	2.018	2-P	140-3059	0.3735	0.6250	2.420	11-PB	340-1036BR
0.3555	0.5535	2.365	1-SR	140-8161	0.3735	0.6255	2.420	8-P	140-1973
0.3555	0.5540	2.200	1-SR	140-8168	0.3735	0.6255	2.420	8-SR	140-9973
0.3570	0.5905	3.355	1-SR	140-3050	0.3735	0.6265	2.250	9-SR	140-3025
0.3570	0.5925	3.355	1-SR	140-3050+2	0.3735	0.6885	4.060	8-SR	140-8679
0.3685	0.6255	2.420	8-SR	140-9973U	0.3735	0.6890	3.615	1-SR	140-3144
0.3690	0.5020	2.375	1-P	140-6108U	0.3735	0.6890	4.060	1-SR	140-3143
0.3690	0.5020	2.375	1-SR	140-9108U	0.3735	0.6935	4.060	8-SR	140-8679+5
0.3690	0.5020	2.875	1-SR	140-9111U	0.3739	0.6263	2.880	9-SR	140-6730
0.3690	0.6205	2.630	12-SR	140-9972U	0.3739	0.6283	2.880	13-SR	140-6730+2
0.3705	0.5020	3.065	1-PB	340-1035BR	0.3740	0.3890	3.075	8-P	140-3174
0.3715	0.6883	4.050	8-SR	140-3035	0.3740	0.5020	2.250	1-P	140-6107
0.3715	0.6883	4.050	8-SR	140-3036	0.3740	0.5020	2.250	1-SR	140-9107
0.3715	0.6933	4.050	8-SR	140-3035+5	0.3740	0.5020	2.375	1-P	140-6108
0.3715	0.6933	4.050	8-SR	140-3036+5	0.3740	0.5020	2.375	1-SR	140-9108
0.3715	0.6983	4.050	8-SR	140-3035+10	0.3740	0.5020	2.375	1-SR	140-9108H
0.3715	0.6985	4.050	8-SR	140-3036+10	0.3740	0.5020	2.500	1-P	140-6109
0.3715	0.7083	4.050	8-SR	140-3035+20	0.3740	0.5020	2.500	1-SR	140-9109
0.3715	0.7085	4.050	8-SR	140-3036+20	0.3740	0.5020	2.625	1-P	140-6110
0.3718	0.5130	2.407	12-SR	140-3194	0.3740	0.5020	2.625	1-SR	140-9110
0.3720	0.5020	2.625	1-P	140-6850	0.3740	0.5020	2.875	1-P	140-6111
0.3720	0.5020	2.625	1-SR	140-9850	0.3740	0.5020	2.875	1-SR	140-9111
0.3721	0.5020	2.375	1-PB	340-1024BR	0.3740	0.5020	3.060	1-P	140-7458
0.3724	0.5020	2.750	1-PB	340-1025BR	0.3740	0.5020	3.060	1-SR	140-9458
0.3725	0.8780	5.065	8-SR	140-7551	0.3740	0.5020	3.063	1-SR	140-9458H
0.3725	0.8780	5.450	8-SR	140-7550	0.3740	0.5640	2.375	1-SR	140-7276
0.3725	0.9390	5.250	8-SR	140-7604	0.3740	0.5640	2.500	1-SR	140-7277
0.3729	0.5020	2.375	1-SR	140-9298	0.3740	0.5920	3.860	8-P	140-3178
0.3730	0.5020	2.188	1-SR	140-9716	0.3740	0.6006	2.250	4-P	140-1919
0.3730	0.5020	2.375	1-P	140-7298	0.3740	0.6203	2.630	12-P	140-1972
0.3730	0.5020	2.625	1-P	140-7964	0.3740	0.6203	2.630	12-SR	140-9972
0.3730	0.5020	2.625	1-SR	140-9964	0.3740	0.6203	2.630	12-SR	140-9972H
0.3730	0.5020	2.625	1-SR	140-9964H	0.3740	0.6205	2.200	15-SR	140-7999
0.3730	0.5020	2.750	1-P	140-7554	0.3740	0.6205	2.435	18-SR	140-8113

P=Plain I.D., SR=Spiral Reamed I.D.

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I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
0.3740	0.6205	2.740	12-P	140-7208	0.3745	0.6890	3.280	12-P	140-1840
0.3740	0.6205	2.740	12-SR	140-9208	0.3745	0.6893	2.750	1-P	140-1546
0.3740	0.6205	2.755	21-SR	140-8256	0.3745	0.6893	2.813	1-P	140-1740
0.3740	0.6233	2.630	12-SR	140-9972+3	0.3745	0.6895	2.938	13-P	140-1803
0.3740	0.6263	2.880	13-SR	140-7813	0.3745	0.6895	3.219	8-P	140-1547N
0.3740	0.6264	2.281	8-P	140-3063	0.3745	0.7520	3.625	3-P	140-6529
0.3740	0.6264	2.407	8-P	140-3064	0.3745	0.8775	5.450	8-SR	140-7073
0.3740	0.6268	2.600	1-P	140-7712	0.3745	0.8780	5.065	8-SR	140-7074H
0.3740	0.6288	2.600	1-P	140-7712+2	0.3745	0.8780	5.450	8-SR	140-7073H
0.3740	0.6890	3.050	7-SR	140-3014	0.3750	0.5020	2.500	1-P	140-6114
0.3740	0.6890	3.250	1-SR	140-3145	0.3750	0.5020	2.500	1-SR	140-9114
0.3740	0.6890	3.250	8-SR	140-7736	0.3750	0.5020	2.625	1-P	140-5610
0.3740	0.6890	3.250	8-SR	140-7736SA	0.3750	0.5020	2.625	1-SR	140-9610
0.3740	0.6890	3.255	8-SR	140-3138	0.3750	0.5020	2.750	1-P	140-6115
0.3740	0.6890	3.730	8-SR	140-3051	0.3750	0.5020	2.750	1-SR	140-9115
0.3740	0.6890	4.130	8-SR	140-3052	0.3750	0.5640	2.750	1-SR	140-7248
0.3740	0.6910	3.050	7-SR	140-3014+2	0.3750	0.6255	3.313	11-P	140-1898
0.3740	0.6910	3.250	1-SR	140-3145+2	0.3750	0.6265	2.650	26-P	140-7450
0.3740	0.6940	3.250	1-SR	140-3145+5	0.3750	0.6268	2.734	8-P	140-7376
0.3741	0.5020	2.500	1-PB	340-1031BR	0.3750	0.6270	2.563	11-P	140-1937
0.3741	0.6891	3.250	9-SR	140-8319	0.3750	0.6275	3.313	11-P	140-1898+2
0.3743	0.6580	2.780	7-SR	140-3037	0.3750	0.6275	3.969	1-SR	140-6905
0.3743	0.6600	2.780	7-SR	140-3037+2	0.3750	0.6573	2.750	3-P	140-1470
0.3745	0.5020	2.250	1-SR	140-9112	0.3750	0.6578	2.640	2-SR	140-8594
0.3745	0.5020	2.375	1-P	140-6113	0.3750	0.6578	2.781	1-SR	140-7194
0.3745	0.5020	2.375	1-SR	140-9113	0.3750	0.6578	2.781	1-SR	140-7194SA
0.3745	0.5640	2.625	1-SR	140-7447	0.3750	0.6578	3.700	8-SR	140-8220
0.3745	0.5640	3.000	1-SR	140-7448	0.3750	0.6580	2.375	8-P	140-1704
0.3745	0.6250	2.600	1-P	140-7689	0.3750	0.6580	2.750	13-P	140-1504
0.3745	0.6252	2.600	3-P	140-7174	0.3750	0.6580	2.775	12-SR	140-8408
0.3745	0.6255	2.938	11-P	140-1897	0.3750	0.6580	3.063	11-P	140-1342
0.3745	0.6257	2.625	4-SR	140-1927	0.3750	0.6580	3.230	1-SR	140-8486
0.3745	0.6258	2.938	1-SR	140-1923	0.3750	0.6585	3.180	13-SR	140-7242
0.3745	0.6258	3.188	1-SR	140-1954	0.3750	0.6598	2.781	1-SR	140-7194+2
0.3745	0.6260	2.250	1-SR	140-1924	0.3750	0.6628	2.781	1-SR	140-7194+5
0.3745	0.6260	2.313	1-SR	140-1953	0.3750	0.6635	3.180	13-SR	140-7242+5
0.3745	0.6260	2.406	8-SR	140-1952	0.3750	0.6884	3.110	6-SR	140-3043
0.3745	0.6260	2.406	1-SR	140-7398	0.3750	0.6884	3.155	6-SR	140-8010
0.3745	0.6260	3.500	3-SR	140-1965	0.3750	0.6888	3.250	8-SR	140-8485
0.3745	0.6263	2.610	3-SR	140-8188	0.3750	0.6890	2.344	2-P	140-1853
0.3745	0.6263	2.610	3-SR	140-8188SA	0.3750	0.6890	3.250	2-SR	140-7216
0.3745	0.6265	2.395	3-P	140-3006	0.3750	0.6890	3.250	2-SR	140-7216SA
0.3745	0.6265	2.500	1-SR	140-1947	0.3750	0.6892	2.815	13-SR	140-7255
0.3745	0.6265	2.750	10-P	140-1733	0.3750	0.6895	2.750	8-P	140-1421
0.3745	0.6265	2.750	3-SR	140-7431	0.3750	0.6898	2.797	9-P	140-1859
0.3745	0.6265	2.844	1-P	140-1881	0.3750	0.6898	3.344	8-P	140-1858
0.3745	0.6285	2.844	1-P	140-1881+2	0.3750	0.6910	3.250	2-SR	140-7216+2
0.3745	0.6298	3.155	7-SR	140-3058	0.3750	0.6910	3.250	2-SR	140-7216SA+2
0.3745	0.6298	3.358	7-SR	140-3007	0.3750	0.6912	2.815	13-SR	140-7255+2
0.3745	0.6300	3.350	12-SR	140-3039	0.3750	0.6940	3.250	2-SR	140-7216+5
0.3745	0.6305	2.785	12-SR	140-8592	0.3750	0.7833	3.189	1-SR	140-3027
0.3745	0.6318	3.155	7-SR	140-3058+2	0.3753	0.6890	2.960	8-SR	140-7336
0.3745	0.6318	3.358	7-SR	140-3007+2	0.3755	0.6265	2.281	8-P	140-1976
0.3745	0.6325	2.785	12-SR	140-8592+2	0.3755	0.6265	2.406	8-P	140-1977
0.3745	0.6348	3.155	7-SR	140-3058+5	0.3755	0.7100	3.150	11-SR	140-6546
0.3745	0.6348	3.358	7-SR	140-3007+5	0.3755	0.7100	3.150	8-SR	140-8133
0.3745	0.6498	3.155	7-SR	140-3058+20	0.3760	0.6268	2.420	8-P	140-1747
0.3745	0.6573	2.375	8-P	140-1618	0.3760	0.6270	2.240	8-P	140-6990
0.3745	0.6888	2.906	8-P	140-7876	0.3761	0.6297	2.835	1-P	140-3068
0.3745	0.6888	3.750	1-P	140-1579	0.3761	0.6297	2.835	4-SR	140-8122

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I.D.	O.D.	Length	Type	SBI Part #	I.D.	O.D.	Length	Type	SBI Part #
0.3771	0.6577	3.220	16-P	140-1906N	0.4525	0.7518	3.010	7-SR	140-1941SA
0.3812	0.6268	2.500	4-SR	140-8420	0.4528	0.7518	3.167	8-SR	140-3158
0.3819	0.6504	2.633	8-SR	140-8210	0.4528	0.7518	3.167	8-SR	140-3158SA
0.3819	0.6504	2.633	8-SR	140-8210SA	0.4528	0.7520	3.195	7-SR	140-6452
0.3819	0.6504	2.934	10-SR	140-7625	0.4530	0.7518	3.400	3-SR	140-7994
0.3819	0.6504	2.934	10-SR	140-7625SA	0.4530	0.7518	3.400	3-SR	140-7994SA
0.3819	0.6506	3.374	8-SR	140-3008	0.4530	0.7538	3.400	3-SR	140-7994+2
0.3819	0.6506	4.105	8-SR	140-3061	0.4530	0.7620	3.400	4-SR	140-7264
0.3819	0.6524	2.633	8-SR	140-8210+2	0.4538	0.7518	3.393	1-SR	140-7990
0.3819	0.6526	3.374	8-SR	140-3008+2	0.4940	0.6884	3.500	9-P	140-7592
0.3819	0.7518	3.400	8-SR	140-8134	0.4977	0.6886	4.055	1-SR	140-3042
0.3819	0.7518	3.400	8-SR	140-8134SA	0.4977	0.6936	4.055	1-SR	140-3042+5
0.3819	0.7618	3.400	8-SR	140-8134+10	0.4977	0.8458	3.585	3-SR	140-7610
0.3935	0.6315	2.360	8-SR	140-8024	0.4977	0.8459	3.580	7-SR	140-7373
0.3937	0.6328	3.040	12-P	140-7548	0.4990	0.8135	3.500	26-SR	140-7372
0.3940	0.5920	2.640	5-P	140-3072	0.4995	0.8765	5.438	26-P	140-1593
0.3973	0.6580	2.375	1-SR	140-1878	0.5000	0.6886	3.500	9-P	140-1809
0.4050	0.7513	3.219	11-P	140-7444	0.5000	0.6886	3.500	9-SR	140-7903
0.4050	0.7518	3.594	11-P	140-1830	0.5005	0.8765	4.313	26-SR	140-1592
0.4050	0.7520	3.219	8-P	140-1865	0.5005	0.8765	4.325	8-SR	140-7476
0.4050	0.7520	3.438	10-SR	140-1969	0.5005	0.9383	5.250	25-P	140-6470
0.4050	0.7520	3.970	1-P	140-1578	0.5010	0.8785	4.750	11-P	140-1644
0.4050	0.7520	4.375	11-P	140-1829	0.5010	0.9385	5.219	8-P	140-7338
0.4164	0.8459	4.000	7-SR	140-8496	0.5010	0.9405	5.219	8-P	140-7338+2
0.4180	0.6890	2.906	8-P	140-7860	0.5015	0.6886	3.500	9-P	140-1810
0.4190	0.6887	2.906	8-P	140-8223	0.5015	0.7525	3.875	9-P	140-1857
0.4190	0.6890	2.906	8-P	140-1968	0.5020	0.8768	5.045	8-P	140-7083
0.4313	0.6884	3.146	8-P	140-8007	0.5020	0.8771	5.438	8-P	140-7357
0.4335	0.7100	3.350	1-SR	140-8160	0.5020	0.9383	5.250	25-P	140-6469
0.4348	0.7084	3.220	10-P	140-3075	0.5550	1.0020	5.188	34-SR	140-7892
0.4349	0.7084	2.593	3-P	140-3076	0.5550	1.0020	5.188	14-SR	140-8011
0.4365	0.7510	3.000	26-SR	140-7371	0.5620	1.0025	4.820	14-SR	140-3133
0.4370	0.6890	3.090	1-SR	140-7337	0.5620	1.0025	5.520	14-SR	140-3132
0.4370	0.7510	3.875	24-P	140-7420	0.5625	0.8760	3.000	9-P	140-5379
0.4370	0.7510	4.375	26-P	140-7421	0.5640	1.0030	5.375	11-P	140-1932
0.4370	0.7515	3.125	24-P	140-1914	0.6245	1.0020	5.188	1-SR	140-6201
0.4375	0.6265	2.500	1-SR	140-9119	0.6245	1.0020	6.000	1-SR	140-6202
0.4375	0.6267	2.500	1-P	140-6119	0.7850	1.2650	0.500	GUIDE SPACER	149-1000
0.4375	0.6270	2.625	1-SR	140-9609	0.8745	1.3763	6.125	26-SR	140-6479
0.4375	0.6270	3.000	1-P	140-7197	0.8745	1.3778	6.125	26-SR	140-6929
0.4375	0.6270	3.000	1-SR	140-9197					
0.4375	0.6270	3.125	1-P	140-6116					
0.4375	0.6270	3.125	1-SR	140-9116					
0.4375	0.6285	2.500	1-P	140-6119+2					
0.4375	0.6884	3.146	8-SR	140-8008					
0.4375	0.6886	3.406	8-SR	140-8105					
0.4375	0.6888	3.438	1-SR	140-6913					
0.4375	0.6890	3.172	8-SR	140-1957					
0.4375	0.7835	3.188	8-SR	140-8004					
0.4380	0.8138	3.125	13-P	140-1813					
0.4380	0.8140	3.438	12-P	140-1814					
0.4385	0.6265	3.063	8-P	140-1817					
0.4385	0.6887	3.060	8-SR	140-7456					
0.4385	0.6887	3.090	1-P	140-1839					
0.4385	0.6888	3.060	1-P	140-7457					
0.4385	0.6920	3.250	33-P	140-8224					
0.4390	0.8780	3.875	8-P	140-1600					
0.4405	0.8133	4.250	24-P	140-1711					
0.4405	0.8140	4.250	23-P	140-1888					
0.4525	0.7518	3.010	7-SR	140-1941					

P=Plain I.D., SR=Spiral Reamed I.D.

Bronze Bullet® Guide Liners Numerical Listing

SBI Part #	Nominal Size	Min. Fin. I.D.	Min. Fin. I.D. (mm)	Length	Length (mm)	SBI Part #	Nominal Size	Min. Fin. I.D.	Min. Fin. I.D. (mm)	Length	Length (mm)
KL1858STA	5.0mm	0.197	5.00	1.625	41.275						
KL1857STA	5.5mm	0.216	5.49	2.250	57.150						
KL1900STA	5.5mm	0.217	5.51	2.250	57.150						
KL1999STA	6.0mm	0.234	5.94	1.880	47.625						
KL1856STA	6.0mm	0.236	5.99	2.250	57.150						
KL1906STA	6.0mm	0.238	6.05	2.250	50.800						
KL1849STA	6.6mm	0.260	6.60	2.500	63.500						
KL1904STA	7.0mm	0.273	6.93	2.500	63.500						
KL19100STA	7.0mm	0.275	6.99	3.000	76.200						
KL19107STA	7.0mm	0.276	7.01	2.750	69.850						
KL1850STA	7.0mm	0.277	7.04	2.500	63.500						
KL1850A	7.0mm	0.277	7.04	2.500	63.500						
KL1903STA	7.0mm	0.278	7.06	1.811	45.999						
KL1909STA	7.0mm	0.279	7.09	2.250	57.150						
KL1927STA	5/16	0.310	7.87	3.125	79.375						
KL1944STA	8.0mm	0.312	7.92	2.500	63.500						
KL1840STA	5/16	0.312	7.92	3.125	79.375						
KL1840A	5/16	0.312	7.92	3.125	79.375						
KL1933STA	8.0mm	0.313	7.95	2.500	63.500						
KL1937STA	8.0mm	0.313	7.95	3.000	76.200						
KL1997STA	8.0mm	0.314	7.98	2.500	63.500						
KL1939STA	8.0mm	0.315	8.00	2.500	63.500						
KL1968STA	8.0mm	0.315	8.00	3.000	76.200						
KL1851STA	8.0mm	0.316	8.03	2.500	63.500						
KL1940STA	8.0mm	0.317	8.05	2.500	63.500						
KL19101STA	8.0mm	0.317	8.05	3.125	79.375						
KL1942STA	8.0mm	0.318	8.08	2.500	63.500						
KL1967STA	8.0mm	0.318	8.08	2.750	69.850						
KL1961STA	11/32	0.339	8.61	2.500	63.500						
KL1983STA	11/32	0.341	8.66	2.500	63.500						
KL1932STA	11/32	0.342	8.69	2.400	60.960						
KL1841A	11/32	0.343	8.71	3.125	79.375						
KL1841STA	11/32	0.343	8.71	3.125	79.375						
KL1860A	11/32	0.343	8.71	3.130	79.500						
KL1845A	11/32	0.343	8.71	3.250	82.600						
KL1921STA	11/32	0.344	8.74	2.500	63.500						
KL19103STA	9.0mm	0.346	8.79	2.500	63.500						
KL1925STA	9.0mm	0.354	8.99	3.125	79.375						
KL1902STA	3/8	0.370	9.40	3.125	79.375						
KL1992STA	3/8	0.373	9.47	3.125	79.375						
KL1974STA	3/8	0.374	9.50	2.500	63.500						
KL1842STA	3/8	0.374	9.50	3.125	79.375						
KL1842A	3/8	0.374	9.50	3.125	79.375						
KL1861A	3/8	0.374	9.53	3.130	79.500						
KL1975STA	3/8	0.375	9.53	2.500	63.500						
KL1920STA	10.0mm	0.393	9.98	3.125	79.375						
KL1988STA	7/16	0.432	10.97	2.500	63.500						
KL1905STA	11.0mm	0.433	11.00	3.250	82.550						

Bronze Bullet® Guide Liners Progressive Size Listing By I.D.

SBI Part #	Nominal Size	Min. Fin. I.D.	Min. Fin. I.D. (mm)	Length	Length (mm)	Bored Hole Max. I.D.	Bored Hole Max. I.D. (mm)	Bored Hole Tolerances	Bored Hole Tolerances (mm)
KL1858STA	5.0mm	0.197	5.00	1.625	41.275	0.2125	5.39	0.2120 - 0.2125	5.38 - 5.397
KL1857STA	5.5mm	0.216	5.49	2.250	57.150	0.2485	6.31	0.2470 - 0.2485	6.27 - 6.312
KL1900STA	5.5mm	0.217	5.51	2.250	57.150	0.2485	6.31	0.2470 - 0.2485	6.27 - 6.312
KL1999STA	6.0mm	0.234	5.94	1.880	47.625	0.2675	6.79	0.2660 - 0.2675	6.76 - 6.795
KL1856STA	6.0mm	0.236	5.99	2.250	57.150	0.2675	6.79	0.2660 - 0.2675	6.76 - 6.795
KL1906STA	6.0mm	0.238	6.05	2.250	50.800	0.2675	6.79	0.2660 - 0.2675	6.76 - 6.795
KL1849STA	6.6mm	0.260	6.60	2.500	63.500	0.2915	7.40	0.2900 - 0.2915	7.37 - 7.404
KL1904STA	7.0mm	0.273	6.93	2.500	63.500	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL19100STA	7.0mm	0.275	6.99	3.000	76.200	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL19107STA	7.0mm	0.276	7.01	2.750	69.850	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL1850A	7.0mm	0.277	7.04	2.500	63.500	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL1850STA	7.0mm	0.277	7.04	2.500	63.500	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL1903STA	7.0mm	0.278	7.06	1.811	45.999	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL1909STA	7.0mm	0.279	7.09	2.250	57.150	0.3095	7.86	0.3080 - 0.3095	7.82 - 7.861
KL1927STA	5/16	0.310	7.87	3.125	79.375	0.3425	8.70	0.3410 - 0.3425	8.66 - 8.700
KL1944STA	8.0mm	0.312	7.92	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1840A	5/16	0.312	7.92	3.125	79.375	0.3425	8.70	0.3410 - 0.3425	8.66 - 8.700
KL1840STA	5/16	0.312	7.92	3.125	79.375	0.3425	8.70	0.3410 - 0.3425	8.66 - 8.700
KL1933STA	8.0mm	0.313	7.95	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1937STA	8.0mm	0.313	7.95	3.000	76.200	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1997STA	8.0mm	0.314	7.98	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1939STA	8.0mm	0.315	8.00	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1968STA	8.0mm	0.315	8.00	3.000	76.200	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1851STA	8.0mm	0.316	8.03	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1940STA	8.0mm	0.317	8.05	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL19101STA	8.0mm	0.317	8.05	3.125	79.375	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1942STA	8.0mm	0.318	8.08	2.500	63.500	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1967STA	8.0mm	0.318	8.08	2.750	69.850	0.3475	8.83	0.3460 - 0.3475	8.79 - 8.827
KL1961STA	11/32	0.339	8.61	2.500	63.500	0.3735	9.49	0.3720 - 0.3735	9.45 - 9.487
KL1983STA	11/32	0.341	8.66	2.500	63.500	0.3735	9.49	0.3720 - 0.3735	9.45 - 9.487
KL1932STA	11/32	0.342	8.69	2.400	60.960	0.3735	9.49	0.3720 - 0.3735	9.45 - 9.487
KL1841A	11/32	0.343	8.71	3.125	79.375	0.3735	9.49	0.3720 - 0.3735	9.45 - 9.487
KL1841STA	11/32	0.343	8.71	3.125	79.375	0.3735	9.49	0.3720 - 0.3735	9.45 - 9.487
KL1860A	11/32	0.343	8.71	3.130	79.500	0.3750	9.53		
KL1845A	11/32	0.343	8.71	3.250	82.600	0.4055	10.30		
KL1921STA	11/32	0.344	8.74	2.500	63.500	0.3735	9.49	0.3720 - 0.3735	9.45 - 9.487
KL19103STA	9.0mm	0.346	8.79	2.500	63.500	0.3865	9.82	0.3850 - 0.3865	9.78 - 9.817
KL1925STA	9.0mm	0.354	8.99	3.125	79.375	0.3865	9.82	0.3850 - 0.3865	9.78 - 9.817
KL1902STA	3/8	0.370	9.40	3.125	79.375	0.4055	10.30	0.4040 - 0.4055	10.26 - 10.30
KL1992STA	3/8	0.373	9.47	3.125	79.375	0.4055	10.30	0.4040 - 0.4055	10.26 - 10.30
KL1974STA	3/8	0.374	9.50	2.500	63.500	0.4055	10.30	0.4040 - 0.4055	10.26 - 10.30
KL1842A	3/8	0.374	9.50	3.125	79.375	0.4055	10.30	0.4040 - 0.4055	10.26 - 10.30
KL1842STA	3/8	0.374	9.50	3.125	79.375	0.4055	10.30	0.4040 - 0.4055	10.26 - 10.30
KL1861A	3/8	0.374	9.53	3.130	79.500	0.4060	10.31		
KL1975STA	3/8	0.375	9.53	2.500	63.500	0.4055	10.30	0.4040 - 0.4055	10.26 - 10.30
KL1920STA	10.0mm	0.393	9.98	3.125	79.375	0.4255	10.81	0.4240 - 0.4255	10.77 - 10.81
KL1988STA	7/16	0.432	10.97	2.500	63.500	0.4675	11.87	0.4660 - 0.4675	11.84 - 11.87
KL1905STA	11.0mm	0.433	11.00	3.250	82.550	0.4675	11.87	0.4660 - 0.4675	11.84 - 11.87

Suffix "A" = Smooth Wall

Suffix "CA" = Dry Film Lubricant (DFL)

Suffix "STA" = Interrupted Spiral

Valve Guide Liner/Miscellaneous Tooling Numerical Listing

SBI Part #	Description	Size	Part Note
KL1036	Guide Brush	Universal	Incl. In Standard & Master Guide-Liner Kits
KL1060	H.S. Valve Guide Reamer	0.1970 (5.0038)	
KL1061	H.S. Valve Guide Reamer	0.2140 (5.4356)	
KL1062	H.S. Valve Guide Reamer	0.2150 (5.4610)	
KL1063	H.S. Valve Guide Reamer	0.2170 (5.5118)	
KL1064	H.S. Valve Guide Reamer	0.2180 (5.5372)	
KL1110	H.S. Valve Guide Reamer	0.2362 (6.0000)	
KL1110NB	Bronze H.S. Guide Reamer	0.2360 (5.9944)	
KL1111	H.S. Valve Guide Reamer	0.2756 (7.0000)	
KL1111NB	Bronze H.S. Guide Reamer	0.2750 (6.9850)	
KL1112	H.S. Valve Guide Reamer	0.3150 (8.0000)	
KL1112NB	Bronze H.S. Guide Reamer	0.3150 (8.0000)	
KL1113	H.S. Valve Guide Reamer	0.3543 (9.0000)	
KL1113NB	Bronze H.S. Guide Reamer	0.3543 (9.0000)	
KL1114	H.S. Valve Guide Reamer	0.3937 (10.000)	
KL1115	H.S. Valve Guide Reamer	0.2500 (6.3500)	
KL1116	H.S. Valve Guide Reamer	0.3100 (7.8740)	
KL1116NB	Bronze H.S. Guide Reamer	0.3100 (7.8740)	
KL1117	H.S. Valve Guide Reamer	0.3110 (7.8994)	
KL1117NB	Bronze H.S. Valve Guide Reamer	0.3110 (7.8994)	
KL1118	H.S. Valve Guide Reamer	0.3120 (7.9248)	
KL1118NB	Bronze H.S. Guide Reamer	0.3120 (7.9248)	
KL1119	H.S. Valve Guide Reamer	0.3410 (8.6614)	
KL1119NB	Bronze H.S. Guide Reamer	0.3410 (8.6614)	
KL1120	H.S. Valve Guide Reamer	0.3420 (8.6868)	
KL1120NB	Bronze H.S. Guide Reamer	0.3420 (8.6868)	
KL1121	H.S. Valve Guide Reamer	0.3430 (8.7122)	
KL1121NB	Bronze H.S. Guide Reamer	0.3430 (8.7122)	
KL1122	H.S. Valve Guide Reamer	0.3440 (8.7376)	
KL1122NB	Bronze H.S. Guide Reamer	0.3440 (8.7376)	
KL1123	H.S. Valve Guide Reamer	0.3450 (8.7630)	
KL1123NB	Bronze H.S. Guide Reamer	0.3450 (8.7630)	
KL1124NB	Bronze H.S. Guide Reamer	0.3710 (9.4234)	
KL1125	H.S. Valve Guide Reamer	0.3720 (9.4488)	
KL1125NB	Bronze H.S. Guide Reamer	0.3720 (9.4488)	
KL1126	H.S. Valve Guide Reamer	0.3730 (9.4742)	
KL1126NB	Bronze H.S. Guide Reamer	0.3730 (9.4742)	
KL1127	H.S. Valve Guide Reamer	0.3740 (9.4996)	
KL1127NB	Bronze H.S. Guide Reamer	0.3740 (9.4996)	
KL1128	H.S. Valve Guide Reamer	0.3750 (9.5250)	
KL1128NB	Bronze H.S. Guide Reamer	0.3750 (9.5250)	
KL1136	H.S. Valve Guide Reamer	0.3460 (8.7884)	
KL1138	H.S. Valve Guide Reamer	0.3580 (9.0932)	
KL1139	H.S. Valve Guide Reamer	0.3760 (9.5504)	
KL1148	H.S. Valve Guide Reamer	0.2770 (7.0358)	
KL1157	H.S. Valve Guide Reamer	0.2740 (6.9596)	
KL1173	H.S. Valve Guide Reamer	0.2600 (6.6040)	
KL1173NB	Bronze H.S. Guide Reamer	0.2600 (6.6040)	
KL1174	H.S. Valve Guide Reamer	0.3160 (8.0264)	
KL1174NB	Bronze H.S. Guide Reamer	0.3160 (8.0264)	
KL1175	H.S. Valve Guide Reamer	0.3170 (8.0518)	
KL1175NB	Bronze H.S. Guide Reamer	0.3170 (8.0518)	
KL1176	H.S. Valve Guide Reamer	0.3130 (7.9502)	
KL1176NB	Bronze H.S. Guide Reamer	0.3130 (7.9502)	
KL1177	H.S. Valve Guide Reamer	0.3140 (7.9756)	
KL1177NB	Bronze H.S. Guide Reamer	0.3140 (7.9756)	
KL1178	H.S. Valve Guide Reamer	0.3180 (8.0772)	
KL1180	H.S. Valve Guide Reamer	0.3435 (8.7249)	
KL1181	H.S. Valve Guide Reamer	0.3470 (8.8138)	
KL1182	H.S. Valve Guide Reamer	0.3780 (9.6012)	
KL1182NB	Bronze H.S. Guide Reamer	0.3780 (9.6012)	

Valve Guide Liner/Miscellaneous Tooling Numerical Listing

SBI Part #	Description	Size	Part Note
KL1185	H.S. Valve Guide Reamer	0.2160 (5.4864)	
KL1185NB	Bronze H.S. Guide Reamer	0.2160 (5.4864)	
KL1187	H.S. Valve Guide Reamer	0.2810 (7.1374)	
KL1188	H.S. Valve Guide Reamer	0.3270 (8.3058)	
KL1190	H.S. Valve Guide Reamer	0.3530 (8.9662)	
KL1191	H.S. Valve Guide Reamer	0.3550 (9.0170)	
KL1192	H.S. Valve Guide Reamer	0.3560 (9.0424)	
KL1193	H.S. Valve Guide Reamer	0.3770 (9.5758)	
KL1193NB	Bronze H.S. Guide Reamer	0.3770 (9.5758)	
KL1194	H.S. Valve Guide Reamer	0.3800 (9.6520)	
KL1196	H.S. Valve Guide Reamer	0.3880 (9.8552)	
KL1197	H.S. Valve Guide Reamer	0.3900 (9.9060)	
KL1199	H.S. Valve Guide Reamer	0.2340 (5.9436)	
KL1205	H.S. Valve Guide Reamer	0.3930 (9.9822)	
KL1207	H.S. Valve Guide Reamer	0.2580 (6.5532)	
KL1208	H.S. Valve Guide Reamer	0.2590 (6.5786)	
KL1209	H.S. Valve Guide Reamer	0.3790 (9.6266)	
KL1210	H.S. Valve Guide Reamer	0.3400 (8.6360)	
KL1213	H.S. Valve Guide Reamer	0.3810 (9.6774)	
KL1214	H.S. Valve Guide Reamer	0.2760 (7.0104)	
KL1215	H.S. Valve Guide Reamer	0.3570 (9.0678)	
KL1216	H.S. Valve Guide Reamer	0.2350 (5.9690)	
KL1217	H.S. Valve Guide Reamer	0.2370 (6.0198)	
KL1218	H.S. Valve Guide Reamer	0.2380 (6.0452)	
KL1224	Bronze Lube	1 Pint	
KL1225	Bronze Lube	1 Quart	
KL1600NX	Master Guide-Liner Kit	⁵ / ₁₆	Contents: KL1036, KL1719CB-9, KL2427, KL2500, KL4235, KL4238, KL5680, KL5844, KL5845, KL5846, KL9932, KL9961
KL1600RX	Standard Guide-Liner Kit	⁵ / ₁₆	Contents: KL1036, KL1719C-9, KL1787, KL5844, KL5845, KL5846, KL9932, KL9961
KL1601NX	Master Guide-Liner Kit	¹¹ / ₃₂	Contents: KL1036, KL1725CB-9, KL2428, KL2501, KL4235, KL4239, KL5681, KL5857, KL5858, KL5859, KL9934, KL9962
KL1601RX	Standard Guide-Liner Kit	¹¹ / ₃₂	Contents: KL1036, KL1725C-9, KL1797, KL5857, KL5858, KL5859, KL9934, KL9962
KL1602NX	Master Guide-Liner Kit	³ / ₈	Contents: KL1036, KL1735CB-9, KL2419, KL2502, KL4235, KL4240, KL5682, KL5872, KL5873, KL5874, KL9936, KL9963
KL1602RX	Standard Guide-Liner Kit	³ / ₈	Contents: KL1036, KL1735C-9, KL1807, KL5872, KL5873, KL5874, KL9936, KL9963
KL1606NX	Master Guide-Liner Kit	6.6mm	Contents: KL1036, KL3571CB-9, KL2425, KL2504, KL4233, KL4242, KL5684, KL5825, KL5826, KL5827, KL9930, KL9972
KL1606RX	Standard Guide-Liner Kit	6.6mm	Contents: KL1036, KL3205, KL3571C-9, KL5825, KL5826, KL5827, KL9930, KL9972
KL1607NX	Master Guide-Liner Kit	7.0mm	Contents: KL1036, KL3576CB-9, KL2426, KL2505, KL4233, KL4243, KL5685, KL5835, KL5836, KL5837, KL5838, KL9931, KL9973
KL1607RX	Standard Guide-Liner Kit	7.0mm	Contents: KL1036, KL1897, KL3576C-9, KL5835, KL5836, KL5837, KL5838, KL9931, KL9973
KL1608NX	Master Guide-Liner Kit	8.0mm	Contents: KL1036, KL3581CB-9, KL2427, KL2506, KL4235, KL4238, KL5686, KL5847, KL5848, KL5849, KL9933, KL9968
KL1608RX	Standard Guide-Liner Kit	8.0mm	Contents: KL1036, KL1787, KL3581C-9, KL5847, KL5848, KL5849, KL9933, KL9968
KL1609NX	Master Guide-Liner Kit	9.0mm	Contents: KL1036, KL3586CB-9, KL2428, KL2507, KL4235, KL4244, KL5687, KL5864, KL5865, KL5866, KL9935, KL9969
KL1609RX	Standard Guide-Liner Kit	9.0mm	Contents: KL1036, KL3235, KL3586C-9, KL5864, KL5865, KL5866, KL9935, KL9969
KL1610NX	Master Guide-Liner Kit	10.0mm	Contents: KL1036, KL3591CB-9, KL2429, KL2508, KL4235, KL4248, KL5688, KL5876, KL5877, KL5878, KL9939, KL9970
KL1611NX	Master Guide-Liner Kit	11.0mm	Contents: KL1036, KL1749CB-9, KL2430, KL2503, KL4235, KL4241, KL5689, KL5880, KL5881, KL5882, KL5818, KL9937, KL9964
KL1612NX	Master Guide-Liner Kit	6.0mm	Contents: KL1036, KL3566CB-9, KL2423, KL2499, KL4233, KL4245, KL5679, KL5815, KL5816, KL5817, KL5818, KL9929, KL9971
KL1612RX	Standard Guide-Liner Kit	6.0mm	Contents: KL1036, KL3185, KL3566C-9, KL5815, KL5816, KL5817, KL5818, KL9929, KL9971
KL1613NX	Master Guide-Liner Kit	5.0mm	Contents: KL1036, KL2422, KL2514, KL3556CC, KL4230, KL4247, KL5677, KL5901, KL5902, KL5903, KL9921, KL9957

Valve Guide Liner/Miscellaneous Tooling Numerical Listing

SBI Part #	Description	Size	Part Note
KL1613RX	Standard Guide-Liner	5.0mm	Contents: KL1036, KL3556CC, KL4230, KL4247, KL5901, KL5902, KL5903, KL9921, KL9957
KL1614NX	Master Guide-Liner Kit	5.5mm	Contents: KL1036, KL3561CC, KL2424, KL2498, KL4233, KL4246, KL5678, KL5808, KL5809, KL5810, KL5811, KL9922, KL9958
KL1614RX	Standard Guide-Liner Kit	5.5mm	Contents: KL1036, KL3184, KL3561CC, KL5808, KL5809, KL5810, KL5811, KL9922, KL9958
KL1719C-9	Carbide Boring Reamer	5/16	Incl. In KL1600RX Kit
KL1719CB-9	Black Beauty Boring Reamer	5/16	Incl. In KL1600NX Kit
KL1719CC	Guide Pro Boring Tool	5/16 - 30	
KL1725C-9	Carbide Boring Reamer	11/32	Incl. In KL1601RX Kit
KL1725CB-9	Black Beauty Boring Reamer	11/32	Incl. In KL1601NX Kit
KL1725CC	Guide Pro Boring Tool	11/32 - 30	
KL1735C-9	Carbide Boring Reamer	3/8	Incl. In KL1602RX Kit
KL1735CB-9	Black Beauty Boring Reamer	3/8	Incl. In KL1602NX Kit
KL1735CC	Guide Pro Boring Tool	3/8 - 30	
KL1749CB-9	Black Beauty Boring Reamer	11.0mm	Incl. In KL1611NX Kit
KL1787	Trim Tool	5/16 - 8.0mm	Incl. In KL1600RX & KL1608RX Kits
KL1797	Trim Tool	11/32	Incl. In KL1601RX Kit
KL1807	Trim Tool	3/8	Incl. In KL1602RX Kit
KL1897	Trim Tool	7.0mm	Incl. In KL1607RX Kit
KL2419	Flex Hone	3/8 - 9.5mm	Incl. In KL1602NX Kit
KL2422	Flex Hone	13/64 - 5.0mm	Incl. In KL1613NX Kit
KL2423	Flex Hone	15/64 - 6.0mm	Incl. In KL1612NX Kit
KL2424	Flex Hone	7/32 - 5.5mm	Incl. In KL1614NX Kit
KL2425	Flex Hone	1/4 - 6.6mm	Incl. In KL1606NX Kit
KL2426	Flex Hone	9/32 - 7.0mm	Incl. In KL1607NX Kit
KL2427	Flex Hone	5/16 - 8.0mm	Incl. In KL1600NX & KL1608NX Kits
KL2428	Flex Hone	11/32 - 9.0mm	Incl. In KL1601NX & KL1609NX Kits
KL2429	Flex Hone	25/64 - 10.0mm	Incl. In KL1610NX Kit
KL2430	Flex Hone	7/16 - 11.0mm	Incl. In KL1611NX Kit
KL2498	Go-No-Go Gage	5.5mm	Incl. In KL1614NX Kit
KL2499	Go-No-Go Gage	6.0mm	Incl. In KL1612NX Kit
KL2500	Go-No-Go Gage	5/16	Incl. In KL1600NX Kit
KL2501	Go-No-Go Gage	11/32	Incl. In KL1601NX Kit
KL2502	Go-No-Go Gage	3/8	Incl. In KL1602NX Kit
KL2503	Go-No-Go Gage	7/16 - 11.0mm	Incl. In KL1611NX Kit
KL2504	Go-No-Go Gage	6.6mm	Incl. In KL1606NX Kit
KL2505	Go-No-Go Gage	7.0mm	Incl. In KL1607NX Kit
KL2506	Go-No-Go Gage	8.0mm	Incl. In KL1608NX Kit
KL2507	Go-No-Go Gage	9.0mm	Incl. In KL1609NX Kit
KL2508	Go-No-Go Gage	10.0mm	Incl. In KL1610NX Kit
KL2514	Go-No-Go Gage	5.0mm	Incl. In KL1613NX Kit
KL2680	Air Hammer		
KL3184	Trim Tool	5.5mm	Incl. In KL1614RX Kit
KL3185	Trim Tool	6.0mm	Incl. In KL1612RX Kit
KL3205	Trim Tool	6.6mm	Incl. In KL1606RX Kit
KL3235	Trim Tool	9.0mm	Incl. In KL1609RX Kit
KL3519CSP	Black Beauty Boring Reamer	5/16 - 30	
KL3525CSP	Black Beauty Boring Reamer	11/32 - 30	
KL3535CSP	Black Beauty Boring Reamer	3/8 - 30	
KL3556CC	Boring Reamer	5.0mm	Incl. In KL1613NX & KL1613RX Kits
KL3561CC	Guide Pro Boring Tool	5.5mm	Incl. In KL1614NX & KL1614RX Kits
KL3561CSP	Black Beauty Boring Reamer	5.5mm - 30	For Bronze Guides
KL3566C-9	Carbide Boring Reamer	6.0mm	Incl. In KL1612RX Kit
KL3566CB-9	Black Beauty Boring Reamer	6.0mm	Incl. In KL1612NX Kit
KL3566CC	Guide Pro Boring Tool	6.0mm - 30	
KL3566CSP	Black Beauty Boring Reamer	6.0mm	For Bronze Guides
KL3571C-9	Carbide Boring Reamer	6.6mm	Incl. In KL1606RX Kit
KL3571CB-9	Black Beauty Boring Reamer	6.6mm	Incl. In KL1606NX Kit
KL3571CSP	Black Beauty Boring Reamer	6.6mm - 30	For Bronze Guides
KL3576C-9	Carbide Boring Reamer	7.0mm	Incl. In KL1607RX Kit
KL3576CB-9	Black Beauty Boring Reamer	7.0mm	Incl. In KL1607NX Kit

Valve Guide Liner/Miscellaneous Tooling Numerical Listing

SBI Part #	Description	Size	Part Note
KL3576CC	Guide Pro Boring Tool	7.0mm - 30	
KL3576CSP	Black Beauty Boring Reamer	7.0mm	For Bronze Guides
KL3581C-9	Carbide Boring Reamer	8.0mm	Incl. In KL1608RX Kit
KL3581CB-9	Black Beauty Boring Reamer	8.0mm	Incl. In KL1608NX Kit
KL3581CC	Guide Pro Boring Tool	8.0mm	
KL3581CSP	Black Beauty Boring Reamer	8.0mm	For Bronze Guides
KL3586C-9	Carbide Boring Reamer	9.0mm	Incl. In KL1609RX Kit
KL3586CB-9	Black Beauty Boring Reamer	9.0mm	Incl. In KL1609NX Kit
KL3586CC	Guide Pro Boring Tool	9.0mm - 30	
KL3586CSP	Black Beauty Boring Reamer	9.0mm	For Bronze Guides
KL3591CB-9	Black Beauty Boring Reamer	10.0mm	Incl. In KL1610NX Kit
KL3808	Air Drill		
KL4230	Guide Top Cutter	5.0mm	Incl. In KL1613NX & KL1613RX Kits
KL4230A	Guide Top Cutter Replacement Blade		
KL4233	Guide Top Cutter	5.5mm - 7.0mm	Incl. In KL1606NX, KL1607NX, KL1612NX, KL1614NX Kits
KL4234	Guide Top Cutter Replacement Blade		
KL4235	Guide Top Cutter	5/16 - 11.0mm	Incl. In KL1600NX, KL1601NX, KL1602NX, KL1608NX, KL1609NX, KL1610NX, KL1611NX Kits
KL4236	Guide Top Cutter Replacement Blade		
KL4237	Replacement Holding Screw		
KL4238	Cutter Pilot	5/16 - 8.0mm	Incl. In KL1600NX, KL1608NX Kits
KL4239	Cutter Pilot	11/32	Incl. In KL1601NX Kit
KL4240	Cutter Pilot	3/8	Incl. In KL1602NX Kit
KL4241	Cutter Pilot	11.0mm	Incl. In KL1611NX Kit
KL4242	Cutter Pilot	6.6mm	Incl. In KL1606NX Kit
KL4243	Cutter Pilot	7.0mm	Incl. In KL1607NX Kit
KL4244	Cutter Pilot	9.0mm	Incl. In KL1609NX Kit
KL4245	Cutter Pilot	6.0mm	Incl. In KL1612NX Kit
KL4246	Cutter Pilot	5.5mm	Incl. In KL1614NX Kit
KL4247	Cutter Pilot	5.0mm	Incl. In KL1613NX & KL1613RX Kits
KL4248	Cutter Pilot	10.0mm	Incl. In KL1610NX Kit
KL5677	Removal Tool	5.0mm	Incl. In KL1613NX Kit
KL5678	Removal Tool	5.5mm	Incl. In KL1614NX Kit
KL5679	Removal Tool	6.0mm	Incl. In KL1612NX Kit
KL5680	Removal Tool	5/16	Incl. In KL1600NX Kit
KL5681	Removal Tool	11/32	Incl. In KL1601NX Kit
KL5682	Removal Tool	3/8	Incl. In KL1602NX Kit
KL5684	Removal Tool	6.6mm	Incl. In KL1606NX Kit
KL5685	Removal Tool	7.0mm	Incl. In KL1607NX Kit
KL5686	Removal Tool	8.0mm	Incl. In KL1608NX Kit
KL5687	Removal Tool	9.0mm	Incl. In KL1609NX Kit
KL5688	Removal Tool	10.0mm	Incl. In KL1610NX Kit
KL5689	Removal Tool	11.0mm	Incl. In KL1611NX Kit
KL5758	Holder/Driver For Ball Broaches	5.5mm - 8.0mm	
KL5759	Holder/Driver For Ball Broaches	11/32 - 7/16	
KL5759B	Holder/Driver Replacement Bumper		
KL5808	Ball Broach	0.2170 (5.5100)	Incl. In KL1614NX & KL1614RX Kits
KL5809	Ball Broach	0.2175 (5.5250)	Incl. In KL1614NX & KL1614RX Kits
KL5810	Ball Broach	0.2180 (5.5400)	Incl. In KL1614NX & KL1614RX Kits
KL5811	Ball Broach	0.2185 (5.5500)	Incl. In KL1614NX & KL1614RX Kits
KL5813	Ball Broach	0.2350 (5.9690)	
KL5814	Ball Broach	0.2360 (5.9944)	
KL5815	Ball Broach	0.2370 (6.0200)	Incl. In KL1612NX & KL1612RX Kits
KL5816	Ball Broach	0.2375 (6.0330)	Incl. In KL1612NX & KL1612RX Kits
KL5817	Ball Broach	0.2380 (6.0500)	Incl. In KL1612NX & KL1612RX Kits
KL5818	Ball Broach	0.2385 (6.0580)	Incl. In KL1612NX & KL1612RX Kits
KL5819	Ball Broach	0.2390 (6.0706)	
KL5820	Ball Broach	0.2395 (6.0833)	
KL5825	Ball Broach	0.2600 (6.6000)	Incl. In KL1606NX & KL1606RX Kits
KL5826	Ball Broach	0.2610 (6.6300)	Incl. In KL1606NX & KL1606RX Kits
KL5827	Ball Broach	0.2620 (6.6500)	Incl. In KL1606NX & KL1606RX Kits

Valve Guide Liner/Miscellaneous Tooling Numerical Listing

SBI Part #	Description	Size	Part Note
KL5833	Ball Broach	0.2740 (6.9600)	
KL5834	Ball Broach	0.2750 (6.9900)	
KL5835	Ball Broach	0.2760 (7.0100)	Incl. In KL1607NX & KL1607RX Kits
KL5836	Ball Broach	0.2770 (7.0400)	Incl. In KL1607NX & KL1607RX Kits
KL5837	Ball Broach	0.2780 (7.0600)	Incl. In KL1607NX & KL1607RX Kits
KL5838	Ball Broach	0.2790 (7.0900)	Incl. In KL1607NX & KL1607RX Kits
KL5839	Ball Broach	0.2800 (7.1100)	
KL5840	Ball Broach	0.2810 (7.1400)	
KL5842	Ball Broach	0.3100 (7.8700)	
KL5843	Ball Broach	0.3110 (7.9000)	
KL5844	Ball Broach	0.3120 (7.9200)	Incl. In KL1600NX & KL1600RX Kits
KL5845	Ball Broach	0.3130 (7.9500)	Incl. In KL1600NX & KL1600RX Kits
KL5846	Ball Broach	0.3140 (7.9800)	Incl. In KL1600NX & KL1600RX Kits
KL5847	Ball Broach	0.3150 (8.0000)	Incl. In KL1608NX & KL1608RX Kits
KL5848	Ball Broach	0.3160 (8.0300)	Incl. In KL1608NX & KL1608RX Kits
KL5849	Ball Broach	0.3170 (8.0500)	Incl. In KL1608NX & KL1608RX Kits
KL5850	Ball Broach	0.3180 (8.0800)	
KL5851	Ball Broach	0.3190 (8.1000)	
KL5852	Ball Broach	0.3200 (8.1300)	
KL5855	Ball Broach	0.3410 (8.6600)	
KL5856	Ball Broach	0.3420 (8.6900)	
KL5857	Ball Broach	0.3435 (8.7250)	Incl. In KL1601NX & KL1601RX Kits
KL5858	Ball Broach	0.3445 (8.7500)	Incl. In KL1601NX & KL1601RX Kits
KL5859	Ball Broach	0.3455 (8.7760)	Incl. In KL1601NX & KL1601RX Kits
KL5860	Ball Broach	0.3465 (8.8010)	
KL5864	Ball Broach	0.3540 (8.9900)	Incl. In KL1609NX & KL1609RX Kits
KL5865	Ball Broach	0.3550 (9.0200)	Incl. In KL1609NX & KL1609RX Kits
KL5866	Ball Broach	0.3560 (9.0400)	Incl. In KL1609NX & KL1609RX Kits
KL5869	Ball Broach	0.3730 (9.4700)	
KL5871	Ball Broach	0.3720 (9.4500)	
KL5872	Ball Broach	0.3740 (9.5000)	Incl. In KL1602NX & KL1602RX Kits
KL5873	Ball Broach	0.3750 (9.5300)	Incl. In KL1602NX & KL1602RX Kits
KL5874	Ball Broach	0.3760 (9.5500)	Incl. In KL1602NX & KL1602RX Kits
KL5876	Ball Broach	0.3940 (10.000)	Incl. In KL1610NX Kit
KL5877	Ball Broach	0.3950 (10.030)	Incl. In KL1610NX Kit
KL5878	Ball Broach	0.3960 (10.060)	Incl. In KL1610NX Kit
KL5880	Ball Broach	0.4330 (11.000)	Incl. In KL1611NX Kit
KL5881	Ball Broach	0.4340 (11.020)	Incl. In KL1611NX Kit
KL5882	Ball Broach	0.4350 (11.050)	Incl. In KL1611NX Kit
KL5889	Ball Broach	0.3450 (8.7600)	
KL5890	Ball Broach	0.3770 (9.5800)	
KL5892	Ball Broach	0.3745 (9.5120)	
KL5893	Ball Broach	0.3755 (9.5380)	
KL5901	Ball Broach	0.1973 (5.0114)	Incl. In KL1613NX & KL1613RX Kits
KL5902	Ball Broach	0.1978 (5.0241)	Incl. In KL1613NX & KL1613RX Kits
KL5903	Ball Broach	0.1983 (5.0368)	Incl. In KL1613NX & KL1613RX Kits
KL9900	Valve Guide Boring Fixture		**FACTORY ORDER**
KL9907	Valve Seat Bushing Kit	7 Piece	Contents: KL9911, KL9912, KL9913, KL9915, KL9916, KL9918, KL9919
KL9910	Valve Seat Bushing Kit	9 Piece	Contents: KL9911, KL9912, KL9913, KL9914, KL9915, KL9916, KL9917, KL9918, KL9919
KL9911	Valve Seat Bushing	1"	Incl. In KL9907, KL9910 Kits
KL9912	Valve Seat Bushing	1 ³ / ₁₆ "	Incl. In KL9907, KL9910 Kits
KL9913	Valve Seat Bushing	1 ³ / ₈ "	Incl. In KL9907, KL9910 Kits
KL9914	Valve Seat Bushing	1 ¹ / ₂ "	Incl. In KL9910 Kit
KL9915	Valve Seat Bushing	1 ⁹ / ₁₆ "	Incl. In KL9907, KL9910 Kits
KL9916	Valve Seat Bushing	1 ³ / ₄ "	Incl. In KL9907, KL9910 Kits
KL9917	Valve Seat Bushing	1 ⁷ / ₈ "	Incl. In KL9910 Kit
KL9918	Valve Seat Bushing	2"	Incl. In KL9907, KL9910 Kits
KL9919	Valve Seat Bushing	2 ¹ / ₄ "	Incl. In KL9907, KL9910 Kits
KL9920	Valve Seat Bushing	2 ¹ / ₂ "	
KL9921	Reamer Bushing	5.0mm	Incl. In KL1613NX & KL1613RX Kits

Valve Guide Liner/Miscellaneous Tooling Numerical Listing

SBI Part #	Description	Size	Part Note
KL9922	Reamer Bushing	5.5mm	Incl. In KL1614NX & KL1614RX Kits
KL9925	Guide Boring Fixture Stand		**FACTORY ORDER**
KL9929	Reamer Bushing	6.0mm	Incl. In KL1612NX & KL1612RX Kits
KL9930	Reamer Bushing	6.6mm	Incl. In KL1606NX & KL1606RX Kits
KL9931	Reamer Bushing	7.0mm	Incl. In KL1607NX & KL1607RX Kits
KL9932	Reamer Bushing	5/16	Incl. In KL1600NX & KL1600RX Kits
KL9933	Reamer Bushing	8.0mm	Incl. In KL1608NX & KL1608RX Kits
KL9934	Reamer Bushing	11/32	Incl. In KL1601NX & KL1601RX Kits
KL9935	Reamer Bushing	9.0mm	Incl. In KL1609NX & KL1609RX Kits
KL9936	Reamer Bushing	3/8	Incl. In KL1602NX & KL1602RX Kits
KL9937	Reamer Bushing	11.0mm	Incl. In KL1611NX Kit
KL9939	Reamer Bushing	10.0mm	Incl. In KL1610NX Kit
KL9957	Auto Installer	5.0mm	Incl. In KL1613NX & KL1613RX Kits
KL9958	Auto Installer	5.5mm	Incl. In KL1614NX & KL1614RX Kits
KL9961	Auto Installer	5/16	Incl. In KL1600NX & KL1600RX Kits
KL9962	Auto Installer	11/32	Incl. In KL1601NX & KL1601RX Kits
KL9963	Auto Installer	3/8	Incl. In KL1602NX & KL1602RX Kits
KL9964	Auto Installer	11.0mm	Incl. In KL1611NX Kit
KL9968	Auto Installer	8.0mm	Incl. In KL1608NX & KL1608RX Kits
KL9969	Auto Installer	9.0mm	Incl. In KL1609NX & KL1609RX Kits
KL9970	Auto Installer	10.0mm	Incl. In KL1610NX Kit
KL9971	Auto Installer	6.0mm	Incl. In KL1612NX & KL1612RX Kits
KL9972	Auto Installer	6.6mm	Incl. In KL1606NX & KL1606RX Kits
KL9973	Auto Installer	7.0mm	Incl. In KL1607NX & KL1607RX Kits

Valve Spring Numerical Listing

SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1000	2.130	1.292T	0.938T	0.177	75@1.727	180@1.340	7.12 LH	1.260	A877-10
160-1001	2.066	1.292	0.938	0.177	75@1.727	180@1.340	7.20 LH	1.260	A877
160-1003	2.120	1.501	0.803	0.207	111@1.880	331@1.380	6.50 RH	1.280	A877
160-1004	2.060	1.393	1.010	0.192	75@1.790	200@1.340	6.90 LH	1.255	A877
160-1005	1.480	1.121	0.809	0.156	50@1.263	123@0.953	6.00 RH	0.860	A877
160-1006	1.960	1.437	1.053	0.192	80@1.670	187@1.270	5.85 RH	1.110	A877
160-1008	2.220	1.204	0.850	0.177	72@1.890	177@1.450	7.40 LH	1.280	A877
160-1009	1.910	1.230	0.876	0.177	92@1.610	235@1.160	6.60 RH	1.130	A877
160-1011	2.078	1.540	1.090	0.225	80@1.880	300@1.380	5.68 LH	1.278	A877
160-1012	1.730	1.280	0.940	0.170	67@1.418	166@1.020	5.90 RH	0.950	A877
160-1013	1.770	0.980	0.754	0.113	27@1.380	56@0.960	7.50 LH	0.850	A877
160-1014	1.831	1.210	0.886	0.162	53@1.524	129@1.190	7.00 RH	1.100	A877
160-1016	1.830	1.318	0.964	0.177	51@1.640	140@1.265	5.63 RH	1.000	A230
160-1018	1.810	1.390	1.020	0.185	85@1.480	187@1.080	5.75 RH	1.002	A877
160-1019	1.968	1.300	0.988	0.156	55@1.575	105@1.200	7.00 RH	1.106	A230
160-1020	2.000	1.385	1.015	0.185	83@1.687	177@1.310	6.75 RH	1.249	A877
160-1023	2.034	1.370	0.970	0.200	69@1.800	207@1.400	6.50 RH	1.225	AS-28
160-1024	1.923	1.380	0.996	0.192	55@1.700	165@1.300	6.10 LH	1.115	A877
160-1025	2.000	1.221	0.875	0.173	45@1.800	130@1.400	7.26 RH	1.230	A877
160-1028	1.540	1.189	0.905	0.142	39@1.283	101@0.878	5.30 RH	0.780	A877
160-1029	1.390	0.820	0.624	0.098	15@1.126	48@0.720	6.30 RH	0.625	A877
160-1030	1.822	1.283	0.959	0.162	46@1.550	120@1.150	6.00 RH	1.056	A230
160-1031	1.875	1.315	0.961	0.177	57@1.600	155@1.200	6.50 RH	1.150	A877
160-1033	1.950	1.364	1.010	0.177	48@1.700	165@1.200	6.00 LH	1.062	A877
160-1038	1.800	1.324	0.950	0.187	50@1.600	170@1.200	5.90 RH	1.091	A877
160-1041	1.965	1.410	1.010	0.200	45@1.800	205@1.300	6.10 LH	1.220	A877
160-1044	2.040	1.394	1.010	0.192	78@1.780	204@1.360	6.75 LH	1.290	A877
160-1047	2.100	1.394	1.010	0.192	78@1.780	204@1.330	6.50 LH	1.260	A877
160-1049	2.010	1.437	1.053	0.192	90@1.670	210@1.220	5.78 RH	1.110	A877
160-1052	1.725	0.958	0.732	0.113	16@1.500	58@1.000	7.70 LH	0.897	AS-28
160-1053	2.010	1.330	1.006	0.162	35@1.750	123@1.200	6.60 RH	1.093	AS-28
160-1054	1.900	1.385	1.011	0.187	39@1.750	190@1.200	5.75 RH	1.075	AS-28
160-1055	1.760	1.195	0.871	0.162	55@1.550	125@1.200	5.90 RH	1.092	A877
160-1064	1.935	1.300	0.960	0.170	45@1.700	143@1.200	6.00 RH	1.002	A877
160-1069	2.160	1.394	1.020	0.187	114@1.650	208@1.220	6.50 RH	1.165	A877
160-1071	2.028	1.410	1.010	0.200	80@1.780	225@1.330	6.50 LH	1.250	A877
160-1072	1.840	1.297	0.933	0.182	65@1.577	180@1.156	5.90 LH	1.050	A877
160-1075	2.021	1.434	1.050	0.192	95@1.650	240@1.180	6.12 LH	1.150	A877
160-1076	2.110	1.290	0.930	0.180	90@1.701	215@1.290	6.89 RH	1.240	A877
160-1079	1.960	1.346	0.960	0.162 X 0.192	70@1.600	178@1.200	6.80 RH	1.150	A877
160-1080	1.878	1.279	0.933	0.173	97@1.460	217@1.020	6.00 RH	0.976	A877
160-1083	2.007	1.231	0.899	0.166	97@1.679	198@1.240	7.00 RH	1.161	A877
160-1085	1.981	1.249	0.895	0.177	80@1.720	210@1.320	7.00 LH	1.250	A877
160-1086	2.059	1.232	0.878	0.177	105@1.610	214@1.220	6.80 RH	1.146	A877
160-1089	2.050	1.500	1.081	0.207	80@1.800	215@1.370	6.25 LH	1.280	AS33
160-1095	1.700	1.267	0.955	0.156	59@1.350	118@1.000	5.70 RH	0.920	A877
160-1096	1.720	0.960	0.710	0.125	37@1.350	62@1.100	8.00 RH	1.060	A877
160-1097	1.958	1.317	1.005	0.156	62@1.450	101@1.200	7.00 LH	1.048	A877
160-1099	1.780	1.232	0.900	0.166	75@1.440	165@1.040	6.00 RH	0.960	AS33
160-1103	1.950	1.349	0.950	0.200	73@1.732	223@1.350	6.50 RH	1.250	A230
160-1106	1.923	1.303	0.949	0.177	65@1.600	161@1.200	6.60 RH	1.176	A877
160-1112	1.710	1.250T	0.890T	0.177	79@1.437	208@1.030	5.80 RH	0.990	A877
160-1114	2.533	1.188	0.864	0.162	53@2.109	120@1.750	9.37 LH	1.520	A877
160-1115	1.970	1.239	0.885	0.177	74@1.660	155@1.400	7.00 LH	1.240	A877
160-1116	2.250	1.341	0.969	0.182	78@1.858	192@1.462	8.00 LH	1.390	A877
160-1117	2.030	1.220	0.880	0.170	80@1.696	160@1.366	7.25 RH	1.190	A877
160-1118	1.980	1.382	1.058	0.162	58@1.533	105@1.203	6.25 RH	1.020	A877
160-1119	1.760	0.963	0.723	0.120	26@1.483	57@1.153	8.00 LH	0.960	A877
160-1120	2.222	1.364	1.010	0.177	75@1.780	168@1.390	7.00 LH	1.300	A877

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SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1121	2.250	1.220	0.880	0.170	63@1.946	160@1.496	8.20 RH	1.394	A877
160-1122	2.000	1.394	1.020	0.192	83@1.687	178@1.313	6.25 LH	1.203	A877
160-1124	2.260	1.436	1.062	0.187	99@1.820	189@1.420	6.50 LH	1.250	A877
160-1125	2.050	1.220	0.880	0.170	74@1.696	164@1.306	6.50 LH	1.125	A877
160-1126	2.160	1.344	0.980	0.182	65@1.858	163@1.530	7.50 LH	1.375	A877
160-1127	2.000	1.328	1.004	0.162	52@1.585	117@1.220	7.25 LH	1.150	A877
160-1128	2.270	1.364	0.980	0.192	80@1.920	204@1.500	7.50 RH	1.370	A877
160-1129	2.280	1.450	1.076	0.187	79@1.820	199@1.420	7.00 LH	1.310	A877
160-1130	2.070	1.301	1.005	0.148	46@1.600	101@1.160	6.75 LH	1.030	A877
160-1131	1.828	1.355	1.006	0.177	52@1.585	154@1.220	6.00 LH	1.065	A230
160-1132	2.047	1.438	1.024	0.207	89@1.770	233@1.380	6.00 LH	1.260	A877
160-1133	2.030	1.224	0.880	0.172	64@1.727	164@1.340	7.25 RH	1.247	AS-28
160-1134	1.990	1.400	1.016	0.192	80@1.700	197@1.300	6.00 LH	1.150	A877
160-1135	1.875	1.400	1.024	0.188	81@1.580	192@1.180	6.00 LH	1.120	A877
160-1136	1.760	1.060	0.776	0.142	31@1.566	102@1.114	6.75 LH	0.950	A877
160-1137	1.940	1.398	1.058	0.170	62@1.586	140@1.134	5.80 LH	0.990	AS33
160-1138	2.143	1.543	1.093	0.225	110@1.880	343@1.380	6.00 LH	1.260	A877
160-1139	2.215	1.504	1.090	0.207	90@1.880	220@1.460	6.50 LH	1.340	AS33S
160-1140	2.260	1.332	0.958	0.187	100@1.812	195@1.437	7.25 RH	1.360	A877
160-1141	2.050	1.504	1.090	0.207	90@1.800	220@1.400	6.50 LH	1.340	A877
160-1142	1.860	1.225	0.885	0.170	60@1.640	166@1.250	6.50 LH	1.105	A877
160-1143	2.610	1.390	1.020	0.185	100@2.000	190@1.500	7.50 RH	1.350	A877
160-1144	2.048	1.230	0.876	0.177	88@1.700	225@1.250	6.60 RH	1.150	AS33
160-1144HP	2.023	1.260	0.876	0.192	118@1.700	318@1.210	6.50 RH	1.160	A877
160-1145	2.190	1.302	0.938	0.182	78@1.890	202@1.450	6.75 RH	1.220	A877
160-1147	1.960	1.437	1.053	0.192	80@1.670	212@1.270	5.85 RH	1.110	A877
160-1148	1.900	1.234	0.880	0.177	61@1.660	184@1.270	6.70 RH	1.170	A877
160-1149	2.230	1.494	1.080	0.207	105@1.860	246@1.360	6.25 RH	1.290	A877
160-1150	1.940	1.494	1.080	0.207	96@1.650	238@1.220	5.70 RH	1.100	A877
160-1151	1.970	1.380	1.010	0.185	75@1.660	180@1.230	6.25 RH	1.170	A877
160-1152	2.020	1.374	1.010	0.182	61@1.730	183@1.280	6.50 LH	1.180	A877
160-1154	2.060	1.503	1.067	0.218	85@1.820	270@1.320	6.00 LH	1.260	AS33
160-1156	2.112	1.058	0.788	0.135	40@1.666	95@1.214	8.67 LH	1.174	A877
160-1157	2.100	1.432	1.058	0.187	75@1.716	200@1.264	6.66 LH	1.224	A877
160-1159	2.073	1.460	1.060	0.200	83@1.790	215@1.340	6.40 LH	1.270	A877
160-1160	2.026	1.512	1.062	0.225	92@1.820	315@1.320	6.00 LH	1.270	A877
160-1161	2.068	1.400	1.000	0.200	80@1.810	229@1.330	6.40 LH	1.280	A877
160-1162	2.056	1.410	1.010	0.200	80@1.820	226@1.390	6.70 LH	1.330	A877-10
160-1164	2.200	1.394	1.010	0.192	84@1.812	218@1.365	6.90 RH	1.300	A230
160-1170	3.030	1.058	0.762	0.148	29@2.655	101@2.030	12.50 LH	1.800	A230
160-1171	3.543	1.580	1.206	0.187	60@2.719	135@2.154	11.00 RH	1.964	A877
160-1172	2.170	1.343	1.004	0.173	90@1.585	173@1.222	6.80 RH	1.161	AS-22
160-1173	1.985	1.462	1.062	0.200	80@1.720	230@1.260	6.00 LH	1.100	A877
160-1175	2.120	1.462	1.062	0.200	90@1.820	220@1.380	6.63 LH	1.320	AS33S
160-1176	3.349	1.802	1.332	0.235	171@2.470	280@1.908	7.86 LH	1.841	A877
160-1177	2.685	1.257	0.903	0.177	70@2.250	155@1.720	9.00 RH	1.610	A877
160-1178	2.310	1.484	1.110	0.187	55@1.950	180@1.400	7.38 RH	1.340	A877
160-1179	2.650	1.280	0.906	0.187	56@2.340	156@1.830	9.50 RH	1.770	A877
160-1181	1.960	1.215	0.870	0.170	45@1.738	141@1.258	7.25 RH	1.191	A877
160-1184	2.470	1.250	0.867	0.192	78@2.200	183@1.800	8.20 RH	1.632	A877
160-1185	2.090	0.803	0.533	0.135	32@1.930	110@1.527	10.25 RH	1.380	A877
160-1186	1.970	0.951	0.655	0.148	35@1.800	115@1.397	8.80 RH	1.300	AS33
160-1187	2.060	0.829	0.533	0.148	33@1.930	100@1.700	10.50 RH	1.554	A877
160-1188	2.375	1.140	0.777	0.177	53@2.156	146@1.766	8.75 RH	1.549	A877
160-1189	2.710	1.410	1.056	0.177	117@1.850	160@1.530	7.50 RH	1.350	A877
160-1190	2.400	1.453	1.070	0.192	93@1.900	200@1.400	6.75 RH	1.296	A877
160-1191	2.626	1.731	1.281	0.225	88@2.219	233@1.580	7.00 RH	1.519	A877
160-1192	2.050	1.386	1.016	0.185	58@1.766	159@1.271	6.75 LH	1.201	A877
160-1194	2.190	1.150T	0.760	0.197	94@1.900	221@1.550	7.50 RH	1.450	A877

Valve Spring Numerical Listing

SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Righ Hand	Solid Height	Material
160-1196	2.179	1.132	0.882	0.125	20@1.791	51@1.187	9.10 LH	1.106	AS25
160-1197	2.574	1.717	1.281	0.218	65@2.219	176@1.614	7.35 RH	1.531	A877
160-1198	2.005	1.552	1.138	0.207	48@1.802	174@1.302	6.30 RH	1.252	A877
160-1199	1.959	1.400T	1.022T	0.187	103@1.570	228@1.170	6.18 LH	1.098	AS-22
160-1201	2.090	1.410	1.010	0.200	136@1.650	228@1.350	6.30 LH	1.200	A877
160-1202	1.960	1.384	1.010	0.185	70@1.640	175@1.240	6.25 LH	1.140	A877
160-1203	1.785	1.379	1.015	0.182	30@1.667	174@1.119	5.50 LH	1.005	A877
160-1204	2.100	1.480	1.080	0.200	75@1.800	208@1.400	6.25 LH	1.250	A230
160-1205	2.173	1.375	1.021	0.177	58@1.811	143@1.358	6.75 RH	1.228	A877
160-1206	2.050	1.400	1.000	0.200	76@1.800	197@1.400	6.50 RH	1.260	AS33
160-1207	2.678	0.989	0.739	0.125	40@1.978	77@1.416	10.78 LH	1.316	AS33SC
160-1210	1.820	1.342	0.958	0.192	70@1.625	213@1.200	6.22 RH	1.150	A230
160-1211	2.390	1.454	1.100	0.177	65@1.900	145@1.405	7.50 LH	1.280	A877
160-1212	2.208	1.420	1.067	0.177	69@1.740	145@1.320	6.75 LH	1.130	A230
160-1213	2.341	1.469	1.069	0.200	55@2.096	180@1.530	7.00 RH	1.434	A877
160-1216	2.065	1.316	0.992	0.162	59@1.575	105@1.260	6.75 LH	1.040	A877
160-1217	2.038	1.560	1.190	0.185	42@1.790	142@1.190	6.30 RH	1.117	A877
160-1218	1.920	1.050	0.794	0.128	20@1.672	70@1.072	8.00 RH	0.988	A877
160-1219	2.760	1.222	0.898	0.162	54@2.300	147@1.700	9.30 RH	1.521	A230
160-1220	2.313	1.306	1.010	0.148	40@1.812	70@1.437	7.50 RH	1.110	A877
160-1221	2.313	1.140	0.844	0.148	55@1.812	99@1.437	8.00 RH	1.180	A877
160-1223	2.375	1.292	0.968	0.162	61@1.875	119@1.521	8.30 RH	1.344	A877
160-1225	2.640	1.297	1.013	0.142	38@1.937	70@1.546	9.50 RH	1.350	A877
160-1226	2.234	1.375	0.992	0.192	69@1.900	164@1.500	7.25 RH	1.392	A230
160-1227	2.440	1.475	1.091	0.192	90@1.900	190@1.400	7.00 LH	1.300	AS28
160-1228	1.900	1.435	1.052	0.192	52@1.700	170@1.250	6.00 RH	1.152	A877
160-1229	1.837	1.429	1.050	0.187	80@1.480	200@1.070	5.80 LH	1.030	AS-25
160-1233	2.035	1.260	0.876	0.192	80@1.811	230@1.390	6.60 RH	1.278	AS33
160-1236	2.020	0.896	0.656	0.120	35@1.700	87@1.300	9.25 LH	1.105	A877
160-1238	2.277	0.877	0.607	0.135	69@1.850	133@1.550	11.00 LH	1.477	A877
160-1239	2.300	0.861	0.602	0.128	42@1.950	97@1.600	10.70 LH	1.364	A877
160-1241	1.882	1.065	0.795	0.135	23@1.650	65@1.300	7.40 RH	1.005	A877
160-1247	1.900	1.334	0.980	0.177	89@1.503	165@1.200	6.40 RH	1.100	A877
160-1250	1.831	1.050	0.738	0.156	46@1.600	125@1.300	7.80 RH	1.180	A877
160-1252	1.796	0.911	0.670	0.121	44@1.366	72@1.097	8.50 RH	0.983	A877
160-1253	1.620	0.911	0.655	0.128	25@1.450	82@1.100	8.00 LH	1.000	A877
160-1261	1.917	0.914	0.644	0.135	42@1.650	116@1.300	9.00 RH	1.255	A877
160-1262	1.943	0.936	0.640	0.148	47@1.700	141@1.350	9.10 LH	1.299	A877
160-1264	2.130	1.348	1.005	0.170	60@1.730	130@1.330	6.80 RH	1.130	A877
160-1266	2.040	1.247	0.893	0.177	83@1.700	197@1.270	6.70 RH	1.200	AS33
160-1267	1.960	1.250T	0.876T	0.187	50@1.800	214@1.318	6.50 RH	1.210	A877
160-1268	2.000	1.025	0.755	0.135	70@1.500	134@1.100	7.60 LH	1.020	A877
160-1269	1.660	1.072	0.760	0.156	64@1.400	159@1.050	6.40 LH	0.982	A877
160-1271	2.106	0.847	0.623	0.112	40@1.550	69@1.250	10.10 RH	1.115	J157
160-1272	2.250	1.210	0.886	0.162	90@1.700	152@1.400	7.80 LH	1.238	J157
160-1273	1.900	0.981	0.744	0.121	41@1.450	78@1.150	8.00 LH	1.000	J157
160-1274	2.126	1.362	1.006	0.177	82@1.650	156@1.350	6.80 RH	1.200	J157
160-1285	2.343	1.078	0.794	0.142	35@1.953	85@1.503	10.25 RH	1.460	A230
160-1286	2.562	1.499	1.116	0.192	56@2.156	137@1.706	8.60 RH	1.600	A877
160-1287	2.681	1.354	1.030	0.162	58@1.978	109@1.541	9.00 RH	1.400	A877
160-1288	2.875	1.344	1.047	0.148	42@2.094	59@1.781	9.50 RH	1.410	A877
160-1289	2.281	1.007	0.737	0.135	31@1.945	87@1.396	9.50 RH	1.280	A877
160-1290	2.438	1.281	0.930	0.177	125@1.740	151@1.590	7.75 RH	1.370	A877
160-1291	2.578	1.425	1.141	0.142	49@1.656	83@1.256	7.50 LH	1.065	A230
160-1295	3.036	1.082	0.798	0.142	39@2.531	94@2.031	13.00 LH	1.812	A877
160-1296	3.468	1.555	1.201	0.177	44@2.718	111@2.156	11.00 RH	1.875	A230
160-1300	2.265	1.271	0.917	0.177	75@1.867	150@1.477	7.60 RH	1.350	A877
160-1301	2.000	1.016	0.806	0.105	18@1.488	39@1.106	8.75 RH	0.920	A877
160-1302	3.420	1.383	0.969	0.207	120@2.810	255@2.210	10.30 RH	2.066	A877

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SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Righ Hand	Solid Height	Material
160-1303	3.100	0.983	0.713	0.135	60@2.308	100@1.783	12.30 LH	1.663	A877
160-1304	3.300	1.440	1.026	0.207	132@2.589	230@2.073	9.40 RH	1.954	A877
160-1305	2.635	1.500	1.086	0.207	89@2.240	217@1.670	7.40 RH	1.552	A877
160-1306	3.150	1.131	0.835	0.148	70@2.250	109@1.765	11.25 RH	1.629	A877
160-1307	1.846	1.304	0.930	0.187	56@1.650	170@1.250	6.50 RH	1.180	A877
160-1318	1.958	1.156	0.824	0.167	37@1.750	131@1.350	7.50 RH	1.251	A877
160-1319	1.876	1.264	0.880	0.162 X 0.192	39@1.671	135@1.278	7.15 RH	1.172	A877
160-1326	1.720	1.059	0.775	0.142	33@1.500	88@1.200	7.00 RH	1.000	A877
160-1327	1.645	0.946	0.703	0.120	24@1.400	61@1.100	7.25 RH	0.900	A230
160-1338	1.800	1.245T	0.954T	0.148	30@1.600	75@1.300	6.85 RH	1.100	A877
160-1339	1.675	0.985	0.715	0.135	42@1.350	80@1.100	7.25 RH	1.000	A230
160-1342	1.825	1.095T	0.755T	0.170	69@1.600	174@1.300	6.80 RH	1.100	A230
160-1343	1.835	1.075T	0.748T	0.167	62@1.600	151@1.300	7.25 LH	1.100	A877
160-1347	1.840	1.027	0.731	0.148	41@1.600	105@1.250	7.50 LH	1.100	A877
160-1348	2.235	1.325	0.942	0.192	59@2.000	180@1.550	7.10 RH	1.350	A877
160-1352	1.800	1.048	0.736	0.156	65@1.500	135@1.200	7.20 LH	1.100	A877
160-1358	1.745	0.933	0.707	0.113	17@1.500	51@1.100	7.85 RH	0.900	A230
160-1360	1.630	1.180T	0.854T	0.162	72@1.340	175@0.984	5.80 RH	0.900	A877
160-1361	1.670	1.193T	0.870T	0.162	82@1.340	182@0.984	6.20 RH	0.940	A877
160-1363	1.940	1.350T	0.930T	0.178 X 0.212	74@1.700	230@1.260	6.50 RH	1.156	A877
160-1365	1.700	1.185T	0.865T	0.162	68@1.400	138@1.150	6.25 RH	1.000	A877
160-1366	1.557	1.001	0.745	0.128	34.5@1.317	110@0.838	5.70 RH	0.725	A877
160-1372	1.970	1.162	0.866	0.148	40@1.700	92@1.350	7.50 RH	1.050	A230
160-1377	1.860	1.060	0.736	0.162	64@1.600	141@1.350	7.50 LH	1.200	A230
160-1378	1.967	1.318T	0.958T	0.177	85@1.640	200@1.216	6.50 RH	1.163	A877
160-1379	2.385	1.320	0.948	0.187	78@2.000	174@1.650	7.60 RH	1.400	A877
160-1382	1.900	1.216T	0.860T	0.177	81@1.610	181@1.280	6.50 RH	1.105	A877
160-1383	2.020	0.994	0.714	0.142	36@1.750	103@1.300	8.25 LH	1.150	A877
160-1385	1.675	0.985	0.717	0.135	43@1.350	80@1.100	7.30 RH	1.000	A877
160-1393	2.020	0.920	0.650	0.135	30@1.800	97@1.400	9.25 RH	1.300	A229
160-1394	2.185	0.900	0.650	0.125	35@1.800	81@1.400	10.20 RH	1.300	A877
160-1396	2.075	1.154	0.858	0.148	30@1.790	96@1.230	7.50 LH	1.075	A877
160-1397	2.500	1.735	1.285	0.225	61@2.220	194@1.660	6.50 RH	1.377	A877
160-1398	2.025	1.300T	0.961T	0.167	54@1.700	158@1.250	7.00 RH	1.150	A877
160-1401	2.063	0.969	0.685	0.142	50@1.703	100@1.421	9.00 RH	1.313	A877
160-1402	2.011	0.922	0.646	0.138	44@1.709	116@1.315	9.00 RH	1.174	A877
160-1403	2.180	0.898	0.646	0.126	44@1.709	90@1.354	10.30 RH	1.245	A877
160-1404	1.982	1.067	0.797	0.135	31@1.671	81@1.219	8.25 LH	1.085	A877
160-1405	2.333	1.471	1.117	0.177	54@1.875	135@1.421	7.50 RH	1.315	A877
160-1406	2.335	1.275	0.920	0.177	46@2.096	162@1.534	7.12 RH	1.360	A877
160-1407	2.140	1.259	0.876	0.192	110@1.800	325@1.200	6.30 RH	1.150	AS33
160-1408	2.115	1.040T	0.770T	0.135	69@1.570	157@1.100	8.00 RH	1.043	AS33SC
160-1409	2.300	1.464	1.080	0.192	85@1.900	211@1.300	6.50 RH	1.200	A877
160-1410	2.050	1.424T	1.010T	0.207	75@1.840	250@1.348	6.30 RH	1.270	A877
160-1411	2.101	1.069T	0.738T	0.138 X 0.165	68@1.676	171@1.134	8.00 RH	1.073	A877
160-1414	4.067	1.194	0.780	0.207	190@3.338	339@2.814	12.80 RH	2.678	J157
160-1416	2.357	1.477	1.063	0.207	83@2.007	215@1.497	6.90 LH	1.370	A877
160-1417	2.580	1.482	1.068	0.207	145@1.980	262@1.530	6.90 LH	1.370	A877
160-1418	2.910	1.153	0.753	0.200	103@2.608	275@2.165	9.80 RH	1.841	A877
160-1423	2.090	1.147	0.863	0.142	39@1.702	85@1.237	7.75 LH	1.100	A877
160-1424	2.350	1.547	1.193	0.177	73@1.752	130@1.287	6.50 RH	1.150	A877
160-1425	1.736	1.072T	0.742T	0.138 X 0.165	65@1.423	160@1.029	7.20 LH	0.968	AS33
160-1426	1.933	1.010	0.726	0.142	75@1.496	136@1.171	6.80 LH	0.978	A877
160-1427	2.016	1.300	0.901	0.199	85@1.780	255@1.330	6.50 RH	1.280	AS22-CrV
160-1429	3.302	1.730	1.347	0.192	65@2.596	130@2.076	8.25 RH	1.590	A877
160-1430	2.015	1.327T	0.923T	0.160 X 0.202	85@1.602	206@1.151	7.30 RH	1.110	AS33
160-1431	2.212	1.394T	1.020T	0.187	90@1.808	226@1.338	6.60 RH	1.220	AS33
160-1432	1.929	1.149T	0.787T	0.145 X 0.181	75@1.580	185@1.137	7.30 RH	1.050	A877
160-1433	2.313	0.969	0.713	0.128	31@1.937	66@1.625	10.00 RH	1.280	A877

Valve Spring Numerical Listing

SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1434	2.059	0.978	0.752	0.113	21@1.686	69@1.114	9.00 LH	1.013	A877
160-1435	2.131	1.347	1.013	0.167	60@1.690	156@1.194	6.75 RH	1.115	A877
160-1436	1.900	1.250T	0.860T	0.162 X 0.192	77@1.600	208@1.175	6.75 RH	1.070	A877
160-1437	1.834	1.293T	0.935T	0.182	68@1.600	205@1.170	6.00 LH	1.000	A877
160-1441	1.748	1.090T	0.750T	0.170	75@1.496	196@1.160	6.75 RH	1.075	A877
160-1443	2.065	1.165T	0.831T	0.167	95@1.650	218@1.217	7.00 RH	1.115	A877
160-1444	1.709	0.858	0.630	0.114	37.5@1.323	79.4@0.949	8.30 RH	0.917	AS-33
160-1446	2.190	1.392T	1.038T	0.177	36@1.984	210@1.314	6.50 RH	1.150	A877
160-1447	2.560	1.408	1.025	0.192	85@2.067	191@1.500	7.50 RH	1.417	A877
160-1448	2.320	1.125	0.855	0.135	44@1.770	92@1.240	7.50 RH	1.080	A877
160-1449	2.520	1.574	1.190	0.192	100@1.890	165@1.510	6.50 LH	1.250	A877
160-1450	2.148	1.163T	0.773T	0.162 X 0.195	112@1.810	265@1.322	7.95 RH	1.250	A877
160-1451	2.800	1.134	0.760	0.187	49@2.593	193@2.000	10.56 LH	1.928	A877
160-1452	3.230	1.132	0.738	0.200	139@2.787	317@2.323	11.40 LH	2.210	A877
160-1453	2.660	1.126	0.762	0.182	68@2.380	202@1.830	9.70 LH	1.730	A877
160-1454	3.627	1.134	0.720	0.207	149@3.160	325@2.609	12.35 LH	2.497	A877
160-1456	2.756	1.235	0.835	0.200	126@2.340	281@1.828	9.00 RH	1.758	A877
160-1457	2.216	1.177	0.865	0.156	34@1.941	134@1.291	7.50 RH	1.137	A877
160-1458	2.076	0.995	0.657	0.169	64@1.880	207@1.440	8.15 RH	1.377	A877
160-1459	2.194	1.342	0.968	0.187	38@2.010	184@1.440	7.00 RH	1.280	A877
160-1460	2.425	1.216	0.932	0.142	48@1.800	104@1.230	8.00 RH	1.120	A877
160-1461	3.030	1.720	1.284	0.218	102@2.500	197@2.000	7.15 LH	1.500	A877
160-1462	2.550	0.920	0.680	0.120	50@1.800	104@1.300	10.50 LH	1.281	A877
160-1463	2.523	1.336	0.972	0.182	90@2.000	203@1.425	7.50 RH	1.325	A877
160-1464	2.823	0.991	0.739	0.126	34@2.368	90@1.733	11.50 LH	1.421	CSV+V
160-1466	2.875	1.044	0.808	0.118	17@2.500	54@1.700	10.00 LH	1.200	A877
160-1471	1.615	0.818	0.577	0.120	23@1.475	108@1.005	7.80 RH	0.930	A877
160-1472	1.725	1.163	0.837	0.135 X 0.163	28@1.542	119@0.991	6.40 RH	0.835	A877
160-1475	2.010	1.231	0.891	0.170	88@1.679	206@1.239	6.50 RH	1.161	A877
160-1478	2.390	1.000	0.730	0.135	20@2.140	90@1.590	10.70 RH	1.435	A877
160-1479	3.886	1.393	0.957	0.218	94@3.464	324@2.535	10.65 RH	2.275	A877
160-1480	1.770	1.042	0.726	0.126 X 0.158	27@1.589	120@1.044	7.20 RH	0.890	A877
160-1482	1.955	1.335	0.995	0.170	30@1.750	120@1.250	7.20 RH	1.200	A230
160-1483	1.930	1.334T	0.964T	0.185	75@1.640	210@1.216	6.60 RH	1.156	A877
160-1484	1.890	1.084	0.744	0.130 X 0.170	76@1.390	150@1.060	7.25 RH	0.925	A877
160-1485	2.169	1.034T	0.708T	0.132 X 0.158	79@1.655	171@1.222	8.80 RH	1.156	A877
160-1486	3.262	1.190	0.766	0.178 X 0.212	50@3.006	241@2.236	11.75 RH	2.057	A877
160-1487	1.610	1.063	0.747	0.132 X 0.158	58@1.245	130@0.905	6.85 RH	0.859	A877
160-1488	2.126	1.257T	0.845T	0.170 X 0.206	52@1.937	2381.372	7.50 RH	1.221	A877
160-1489	2.158	1.315	0.975	0.170	92@1.575	172@1.155	6.60 RH	1.063	A877
160-1490	1.847	0.944	0.648	0.148	58@1.570	165@1.180	8.00 RH	1.143	CSV+V
160-1492	2.175	1.488	1.118	0.185	35@1.984	150@1.346	6.20 RH	1.140	A877
160-1493	1.668	1.239	0.969	0.135	16.7@1.485	75.6@0.937	5.30 RH	0.720	A877
160-1494	2.266	1.032	0.762	0.135	51@1.717	83@1.457	10.0 RH	1.300	A877
160-1495	1.397	0.983	0.755	0.114	16@1.223	59@0.796	5.70 RH	0.650	Cr-Si-V
160-1496	1.672	1.100	0.859	0.120	15@1.456	56@0.941	7.00 RH	0.826	A877
160-1497	1.809	1.491	1.167	0.162	25@1.567	106@1.020	5.60 LH	0.921	A877
160-1498	1.847	1.400	1.046	0.177	40@1.658	177@1.050	5.40 RH	0.948	A877
160-1499	1.674	1.408	1.054	0.177	38@1.506	167@0.958	4.90 RH	0.865	A877
160-1502	1.500	1.094	0.824	0.135	23@1.309	77@0.885	6.25 RH	0.786	A877
160-1503	2.060	0.844	0.660	0.092	16@1.500	32@1.000	9.75 LH	0.910	A877
160-1504	1.696	1.162	0.832	0.162	71@1.437	226@0.905	5.70 RH	0.850	CSV+V
160-1505	1.807	1.192	0.922	0.134	43@1.331	83@0.940	6.20 LH	0.811	A877
160-1506	1.776	0.990T	0.720T	0.135	28@1.582	92@1.205	8.10 RH	1.061	CSV+V
160-1507	2.162	1.500T	1.100T	0.200	48@1.977	220@1.397	6.45 RH	1.264	A877
160-1508	1.678	1.026	0.720	0.123 X 0.153	59@1.280	124@0.886	7.00 RH	0.820	A877
160-1513	1.962	1.452	1.058	0.197	51@1.750	183@1.250	6.15 LH	1.205	A877
160-1514	1.934	1.110	0.798	0.156	29@1.765	135@1.195	7.45 RH	1.158	A877
160-1515	2.112	1.145	0.895	0.125	31@1.640	90@0.875	6.80 LH	0.821	CSV+V

Valve Spring Numerical Listing

SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1516	1.920	1.355	1.009	0.173	32@1.745	131@1.205	6.25 RH	1.100	A877
160-1517	2.311	1.351	1.005	0.173	41@2.035	206@1.260	7.20 RH	1.206	A877
160-1518	2.067	1.341	0.995	0.173	40@1.825	197@1.165	6.75 RH	1.130	A877
160-1519	1.775	1.273	0.913	0.180	39@1.603	143@1.165	6.40 RH	1.128	A877
160-1521	1.801	1.189	0.859	0.165	35@1.637	167@1.035	6.30 RH	1.000	CSV+V
160-1523	1.783	1.217	0.877	0.170	29@1.650	169@1.065	6.30 RH	1.032	CSV+V
160-1526	2.387	1.323	0.923	0.152 X 0.200	79@1.850	223@1.200	7.50 RH	1.130	A877
160-1527	2.518	1.275	0.947	0.162	74@1.930	144@1.504	8.25 RH	1.370	A877
160-1528	1.831	1.010T	0.784T	0.113	16@1.602	59@1.102	8.40 RH	0.940	A877
160-1529	1.893	1.070T	0.820T	0.125	28@1.625	101@1.037	7.50 RH	0.915	A877
160-1531	2.504	1.530	1.136	0.197	46@2.200	187@1.535	8.00 RH	1.499	A877
160-1532	2.350	1.012	0.812	0.100	16@1.725	46@1.025	10.00 LH	0.992	A877
160-1533	2.270	1.490	1.150	0.170	46@1.825	146@1.160	7.00 RH	1.123	A877
160-1536	2.649	0.991	0.765	0.113	29@1.950	67@1.275	11.00 LH	1.245	A877
160-1537	2.565	1.535	1.111	0.178 X 0.212	71@2.100	220@1.375	7.75 RH	1.330	A877
160-1540	2.050	0.995	0.777	0.109	23@1.625	57@1.010	8.50 RH	0.940	A877
160-1541	2.418	1.444	1.132	0.156	57@1.800	120@1.170	7.15 LH	1.095	CSV+V
160-1542	1.345	0.840	0.656	0.092	8@1.200	30@0.725	7.00 RH	0.645	A877
160-1543	1.836	1.195	0.925	0.135	16@1.605	62@1.000	7.25 RH	0.952	A877
160-1544	1.996	1.121	0.825	0.148	35@1.728	135@1.048	7.10 RH	1.013	CSV+V
160-1545	2.165	1.096	0.826	0.135	26@1.850	79@1.225	8.35 LH	1.160	A877
160-1546	2.300	1.575	1.181	0.197	56@1.950	171@1.350	6.75 RH	1.293	A877
160-1547	2.707	1.113	0.843	0.135	50@2.000	101@1.325	9.40 LH	1.296	CSV+V
160-1548	3.117	2.086	1.186	0.195	56@2.500	174@1.350	7.00 RH	1.030	CSV+V
160-1549	2.618	1.305	0.943	0.144 X 0.181	57@2.030	143@1.285	8.75 RH	1.255	A877
160-1550	2.691	1.305	0.943	0.144 X 0.181	62@2.035	148@1.300	8.73 RH	1.253	A877
160-1551	2.322	1.060T	0.819T	0.1205	23@1.880	69@1.200	9.25 LH	1.146	A877
160-1552	2.491	1.560	1.128	0.177	54@2.015	179@1.225	6.95 RH	1.175	A877
160-1553	2.083	1.058T	0.802T	0.128	19@1.825	78@1.185	8.57 LH	1.150	A877
160-1554	2.199	1.489	1.119	0.185	48@1.875	177@1.245	6.75 RH	1.208	A877
160-1555	1.955	1.020T	0.770T	0.125	17@1.720	75@1.145	8.70 LH	1.108	A877
160-1556	2.051	1.400T	1.046T	0.177	44@1.760	154@1.225	6.75 RH	1.165	A877
160-1557	2.133	1.003T	0.775T	0.114	21@1.740	69@1.075	8.75 LH	1.013	CSV+V
160-1558	2.085	1.401T	1.047T	0.177	33@1.860	169@1.200	6.70 RH	1.150	CSV+V
160-1563	2.431	1.018	0.768	0.125	22@2.050	72@1.400	11.00 LH	1.361	A877
160-1564	1.686	0.966	0.730	0.118	22@1.415	73@0.950	7.60 LH	0.875	A877
160-1565	1.901	1.343	1.003	0.170	42@1.630	143@1.135	6.50 RH	1.066	A877
160-1566	2.423	0.990	0.754	0.118	24@1.960	78@1.200	10.00 LH	1.135	A877
160-1567	2.789	1.468	1.128	0.170	64@2.075	150@1.300	7.30 RH	1.238	CSV+V
160-1568	1.908	0.970T	0.714T	0.128	23@1.675	93@1.115	8.65 RH	1.085	A877
160-1569	1.729	1.262T	0.966T	0.148	42@1.440	137@0.820	5.60 RH	0.770	A877
160-1570	2.386	1.285	0.945	0.170	44@2.055	184@1.300	7.75 RH	1.262	A877
160-1571	2.780	1.272	0.948	0.162	47@2.370	183@1.375	8.40 RH	1.334	A877
160-1572	2.319	1.252	0.968	0.142	70@1.600	138@1.012	6.50 LH	0.970	CSV+V
160-1573	2.075	1.358	1.034	0.162	58@1.638	157@0.980	5.80 RH	0.943	A877
160-1575	3.185	1.438	1.055	0.189	80@2.643	210@2.008	8.85 RH	1.673	AS-50A
160-1576	1.795	1.132	0.836	0.148	55@1.480	138@1.040	5.85 RH	0.840	CSV+V
160-1577	2.330	0.912	0.702	0.105	36@1.600	74@0.940	8.35 RH	0.900	CSV+V
160-1578	1.666	1.096	0.800	0.148	31@1.500	132@1.020	5.90 RH	0.875	A877
160-1579	1.760	1.033T	0.717T	0.126 X 0.158	42@1.500	136@0.950	7.45 RH	0.905	A877
160-1580	1.694	0.956T	0.716T	0.120	26@1.425	95@0.925	7.50 RH	0.885	A877
160-1581	1.691	0.970T	0.714T	0.128	22@1.500	102@0.975	7.50 RH	0.945	A877
160-1584	1.825	1.227	0.957	0.135	30@1.469	79@1.106	6.50 RH	0.900	A877
160-1585	2.185	1.115	0.791	0.162	74@1.770	168@1.300	7.65 RH	1.210	A877
160-1586	2.371	0.838	0.628	0.105	34@1.685	64@1.213	10.90 RH	1.150	A877
160-1587	2.903	1.119	0.863	0.128	68@1.732	104@1.260	9.10 LH	1.175	A877
160-1588	1.729	1.030T	0.714T	0.126 X 0.158	58@1.378	141@0.945	7.10 RH	0.865	A877
160-1589	1.941	0.907	0.679	0.114	24@1.600	82@1.000	8.40 RH	0.965	A877
160-1590	1.694	0.947	0.697	0.125	20@1.500	86@0.950	7.35 RH	0.915	A877

Valve Spring Numerical Listing

SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Righ Hand	Solid Height	Material
160-1591	1.754	0.934	0.698	0.118	22@1.500	91@0.925	7.30 RH	0.870	A877
160-1592	2.608	1.379	1.009	0.185	101@2.000	207@1.492	7.70 RH	1.400	A877-10
160-1593	1.420	0.746	0.574	0.086	16@1.080	41@0.700	7.50 RH	0.675	A877
160-1594	1.592	1.029	0.779	0.125	37@1.250	100@0.820	6.25 RH	0.790	A877
160-1595	2.106	1.329	0.929	0.152 X 0.200	61@1.700	219@1.080	6.75 RH	1.005	A877
160-1599	1.910	0.927T	0.671T	0.128	53@1.450	115@1.080	8.20 RH	1.030	A877
160-1600	1.761	0.925	0.697	0.114	24@1.450	83@0.900	7.65 RH	0.858	CSV+V
160-1601	2.017	1.014	0.700	0.156	35@1.850	192@1.325	8.25 RH	1.270	A877
160-1602	1.908	1.017T	0.747T	0.135	44@1.550	120@1.000	7.35 RH	0.965	A877
160-1603	1.706	0.917	0.699	0.109	33@1.276	63@0.943	6.90 RH	0.775	A877
160-1604	2.625	1.030	0.789	0.1205	31@1.921	42@1.671	11.0 RH	1.330	A877
160-1606	2.182	1.397	1.023	0.187	88@1.769	211@1.237	6.30 RH	1.185	A877
160-1607	2.081	1.245T	0.825T	0.165 X 0.210	90@1.801	254@1.315	7.75 RH	1.258	A877
160-1608	2.175	1.305	0.979	0.163	55@1.688	110@1.344	6.80 RH	1.110	A877
160-1609SSA	1.915	1.127T	0.749T	0.150 X 0.189	80@1.580	185@1.137	7.00 RH	N/A	A877
160-1610	2.190	1.374	1.017	0.177	37@1.984	205@1.314	6.60 RH	1.140	A877
160-1611	2.540	1.213T	0.789T	0.170 X 0.212	101@2.154	303@1.637	9.50 RH	1.570	CSV+V
160-1612	1.907	1.147T	0.771T	0.150 X 0.188	65@1.650	241@1.075	7.15 RH	1.040	A877
160-1613	1.919	1.150T	0.774T	0.150 X 0.188	67@1.650	245@1.075	7.15 RH	1.040	A877
160-1614	1.898	1.144T	0.779T	0.146 X 0.184	104@1.540	235@1.067	7.00 RH	1.075	A877
160-1615	2.330	1.238	0.838	0.152 X 0.200	74@1.900	215@1.225	8.00 RH	1.185	A877
160-1616	1.979	1.020T	0.714T	0.123 X 0.153	89@1.338	146@0.964	7.55 RH	0.905	A877
160-1617	2.075	0.999T	0.693T	0.123 X 0.153	62@1.575	151@1.075	8.75 RH	1.045	A877
160-1619	2.765	0.953	0.669	0.142	71@2.200	156@1.550	10.43 RH	1.460	A877
160-1620	3.035	1.375	0.981	0.197	130@2.350	294@1.700	7.90 LH	1.570	A877
160-1621	2.137	0.952	0.668	0.142	33@1.900	124@1.375	9.55 RH	1.342	A877
160-1622	2.182	0.950	0.666	0.142	55@1.800	141@1.360	9.50 RH	1.330	CSV+V
160-1623	2.125	1.270T	0.845T	0.170 X 0.212	63@1.900	288@1.275	7.60 RH	1.230	CSV+V
160-1624	2.940	1.427	1.063	0.182	105@2.150	206@1.500	8.00 RH	1.430	A877
160-1625	1.700	0.915T	0.659T	0.128	38@1.450	126@0.950	7.45 RH	0.915	A877-10
160-1626	1.931	1.065T	0.753T	0.156	86@1.496	150@1.239	7.66 LH	1.179	A877
160-1627	2.134	1.260T	0.807T	0.176 X 0.223	100@1.870	326@1.299	7.25 RH	1.252	CSV+V
160-1628	2.024	1.272T	0.826T	0.178 X 0.223	100@1.771	326@1.220	7.00 RH	1.181	CSV+V
160-1629	2.445	1.390	1.007	0.1915	110@1.920	235@1.413	7.20 RH	1.319	A877
160-1630	1.692	1.001	0.765	0.118	36@1.240	71@0.874	6.80 RH	0.785	A877
160-1631	2.176	0.932T	0.670T	0.113 X 0.131	47@1.600	108@1.100	9.50 RH	1.050	A877-10
160-1632	1.637	0.895T	0.654T	0.1205	22@1.475	95@1.025	8.10 RH	0.960	A877-10
160-1633	1.674	0.912T	0.662T	0.125	39@1.380	109@0.980	7.70 RH	0.945	A877-10
160-1634	1.656	1.004	0.720	0.1420	37@1.450	144@0.950	6.50 RH	0.900	A877-10
160-1635	2.090	1.159	0.863	0.148	42@1.756	88@1.412	7.10 RH	1.060	A230
160-1636	3.930	1.109	0.755	0.177	81@3.400	241@2.450	13.40 RH	2.350	A877
160-1637	3.860	1.138	0.755	0.192	123@3.300	325@2.450	12.50 RH	2.380	A877
160-1638	1.382	0.966	0.738	0.114	17@1.197	61@0.750	6.00 RH	0.700	A877
160-1639	1.830	0.836	0.608	0.114	30@1.550	94@1.000	8.20 RH	0.940	CSV+V
160-1640	1.835	0.823	0.613	0.105	20@1.550	68@0.975	8.75 RH	0.930	A877
160-1641	2.795	1.775	1.325	0.225	67@2.500	313@1.450	6.20 RH	1.350	CSV+V
160-1642SSA	2.370	1.299T	0.854T	0.178 X 0.222	117@1.988	332@1.466	8.35 RH	1.429	CSV
160-1643	1.961	1.052	0.7850	0.135	41@1.600	109@1.075	7.45 RH	1.030	CSV+V
160-1644	2.466	1.116	0.786	0.165	83@2.000	183@1.475	8.75 RH	1.435	CSV+V
160-1645	2.016	1.275T	0.979T	0.148	70@1.424	140@0.875	6.00 RH	0.815	CSV
160-1646	1.665	0.862	0.644	0.109	44.5@1.181	79@0.847	6.95 RH	0.775	A877-10
160-1647	2.455	1.280	0.946	0.167	80@1.900	171@1.300	7.30 RH	1.260	A877
160-1648	2.788	1.302	0.972	0.165	73@2.100	154@1.450	8.50 RH	1.385	A877
160-1649	1.810	0.863	0.613	0.125	45@1.500	124@0.975	7.75 RH	0.930	A877
160-1650	2.875	1.434	0.947	0.187	150@1.928	230@1.473	7.00 RH	1.316	A877-10
160-1651	2.440	1.242	0.888	0.177	78@2.000	183@1.450	8.10 RH	1.375	A877-10
160-1652	2.655	1.240	0.886	0.177	67@2.205	147@1.700	9.40 RH	1.660	A877-10
160-1653	2.255	1.300	1.024	0.138	31@1.650	77@1.150	8.00 RH	1.105	A877-10
160-1654	1.950	1.299	0.987	0.156	41@1.594	128@1.125	6.90 RH	1.065	A877-10

Valve Spring Numerical Listing

SBI Part #	Free Length	O.D.	I.D.	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Righ Hand	Solid Height	Material
160-1655	2.960	1.240	0.886	0.177	100@2.300	194@1.700	9.45 RH	1.665	A877-10
160-1656	2.055	1.002T	0.686T	0.126 X 0.158	67@1.575	156@1.169	9.20 RH	1.130	A877-10
160-1657	2.200	1.109	0.813	0.148	39@1.850	120@1.300	8.50 RH	1.255	A877
160-1658	1.927	0.948T	0.707T	0.1205	26.5@1.600	80.5@1.100	9.0 RH	1.050	A877-10
160-1659	2.040	0.930T	0.704T	0.113	22.5@1.650	68.5@1.125	9.90 RH	1.090	A877-10
160-1660	1.739	1.121	0.845	0.138	30.5@1.450	86.5@1.050	7.20 RH	0.990	A877-10
160-1661	1.580	1.017	0.767	0.125	26.5@1.300	73.5@0.950	7.25 RH	0.905	A877-10
160-1662	1.462	0.905	0.669	0.118	23.5@1.250	67.5@0.925	7.30 RH	0.875	A877-10
160-1663	2.006	1.253	0.941	0.156	41@1.675	123@1.175	7.25 RH	1.140	A877-10
160-1664	1.880	1.200	0.904	0.148	37@1.600	144@1.025	6.65 RH	0.980	A877-10
160-1665	1.760	1.218	0.906	0.156	40@1.500	142.5@1.075	6.80 RH	1.045	A877-10
160-1667	1.975	0.988T	0.748T	0.120	32@1.550	88@1.000	8.10 RH	0.925	A877-10
160-1669	3.070	1.436	1.062	0.187	172@2.000	260@1.492	8.00 RH	1.430	A877-10
160-1670	2.981	0.817	0.607	0.105	41.5@2.100	74.5@1.450	12.10 LH	1.290	A877-10
160-1671	3.174	1.151	0.867	0.142	84.5@2.100	148@1.400	9.20 RH	1.345	A877-10
160-1672	2.985	0.826	0.616	0.105	35.5@2.200	78.5@1.350	11.90 LH	1.265	A877-10
160-1673	3.097	1.162	0.866	0.148	85.5@2.100	156.5@1.375	9.05 RH	1.325	A877-10
160-1674	1.998	1.019T	0.749T	0.135	48@1.600	125@1.025	7.55 RH	0.980	A877-10
160-1675	1.988	1.043T	0.759T	0.142	56.5@1.600	141.5@1.070	7.26 RH	0.980	A877-10
160-1676	2.840	1.210	0.898	0.156	62@2.200	139@1.500	9.25 LH	1.455	A877-10
160-1677	3.017	1.720	1.284	0.218	122@2.300	263@1.600	7.30 RH	1.555	A877-10
160-1678	4.010	1.140	0.786	0.177	100@3.300	245@2.400	13.35 RH	2.355	A877-10
160-1679	4.220	1.140	0.786	0.177	132@3.300	268@2.450	13.44 RH	2.375	A877-10
360-1010	2.023	1.260	0.876	0.192	118@1.700	318@1.210	6.50 RH	1.160	CS
360-1011	2.235	1.504	1.090	0.207	90@1.880	220@1.460	6.50 LH	1.340	CS
360-1012	2.140	1.260	0.885	0.192	110@1.800	325@1.200	6.30 RH	1.160	CS
360-1013	2.180	1.260	0.876	0.192	130@1.800	350@1.200	6.20 RH	1.160	CS
360-1014	2.453	1.514	0.795	0.192	140@1.940	360@1.300	6.50 LH	1.200	CS
360-1015	2.380	1.437	0.796	0.180	165@1.800	315@1.300	6.25 LH	1.100	CS
360-1016	2.235	1.460	0.800	0.192	120@1.875	395@1.175	5.80 LH	1.080	CS
360-1017	2.244	1.470	0.820	0.188	110@1.880	350@1.330	7.00 RH	1.250	CS

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1593	0.746	0.574	1.420	0.086	16@1.080	41@0.700	7.50 RH	0.675	A877
160-1185	0.803	0.533	2.090	0.135	32@1.930	110@1.527	10.25 RH	1.380	A877
160-1670	0.817	0.607	2.981	0.105	41.5@2.100	74.5@1.450	12.10 LH	1.290	A877-10
160-1471	0.818	0.577	1.615	0.120	23@1.475	108@1.005	7.80 RH	0.930	A877
160-1029	0.820	0.624	1.390	0.098	15@1.126	48@0.720	6.30 RH	0.625	A877
160-1640	0.823	0.613	1.835	0.105	20@1.550	68@0.975	8.75 RH	0.930	A877
160-1672	0.826	0.616	2.985	0.105	35.5@2.200	78.5@1.350	11.90 LH	1.265	A877-10
160-1187	0.829	0.533	2.060	0.148	33@1.930	100@1.700	10.50 RH	1.554	A877
160-1639	0.836	0.608	1.830	0.114	30@1.550	94@1.000	8.20 RH	0.940	CSV+V
160-1586	0.838	0.628	2.371	0.105	34@1.685	64@1.213	10.90 RH	1.150	A877
160-1542	0.840	0.656	1.345	0.092	8@1.200	30@0.725	7.00 RH	0.645	A877
160-1503	0.844	0.660	2.060	0.092	16@1.500	32@1.000	9.75 LH	0.910	A877
160-1271	0.847	0.623	2.106	0.112	40@1.550	69@1.250	10.10 RH	1.115	J157
160-1444	0.858	0.630	1.709	0.114	37.5@1.323	79.4@0.949	8.30 RH	0.917	AS-33
160-1239	0.861	0.602	2.300	0.128	42@1.950	97@1.600	10.70 LH	1.364	A877
160-1646	0.862	0.644	1.665	0.109	44.5@1.181	79@0.847	6.95 RH	0.775	A877-10
160-1649	0.863	0.613	1.810	0.125	45@1.500	124@0.975	7.75 RH	0.930	A877
160-1238	0.877	0.607	2.277	0.135	69@1.850	133@1.550	11.00 LH	1.477	A877
160-1632	0.895T	0.654T	1.637	0.1205	22@1.475	95@1.025	8.10 RH	0.960	A877-10
160-1236	0.896	0.656	2.020	0.120	35@1.700	87@1.300	9.25 LH	1.105	A877
160-1403	0.898	0.646	2.180	0.126	44@1.709	90@1.354	10.30 RH	1.245	A877
160-1394	0.900	0.650	2.185	0.125	35@1.800	81@1.400	10.20 RH	1.300	A877
160-1662	0.905	0.669	1.462	0.118	23.5@1.250	67.5@0.925	7.30 RH	0.875	A877-10
160-1589	0.907	0.679	1.941	0.114	24@1.600	82@1.000	8.40 RH	0.965	A877
160-1253	0.911	0.655	1.620	0.128	25@1.450	82@1.100	8.00 LH	1.000	A877
160-1252	0.911	0.670	1.796	0.121	44@1.366	72@1.097	8.50 RH	0.983	A877
160-1577	0.912	0.702	2.330	0.105	36@1.600	74@0.940	8.35 RH	0.900	CSV+V
160-1633	0.912T	0.662T	1.674	0.125	39@1.380	109@0.980	7.70 RH	0.945	A877-10
160-1261	0.914	0.644	1.917	0.135	42@1.650	116@1.300	9.00 RH	1.255	A877
160-1625	0.915T	0.659T	1.700	0.128	38@1.450	126@0.950	7.45 RH	0.915	A877-10
160-1603	0.917	0.699	1.706	0.109	33@1.276	63@0.943	6.90 RH	0.775	A877
160-1393	0.920	0.650	2.020	0.135	30@1.800	97@1.400	9.25 RH	1.300	A229
160-1462	0.920	0.680	2.550	0.120	50@1.800	104@1.300	10.50 LH	1.281	A877
160-1402	0.922	0.646	2.011	0.138	44@1.709	116@1.315	9.00 RH	1.174	A877
160-1600	0.925	0.697	1.761	0.114	24@1.450	83@0.900	7.65 RH	0.858	CSV+V
160-1599	0.927T	0.671T	1.910	0.128	53@1.450	115@1.080	8.20 RH	1.030	A877
160-1659	0.930T	0.704T	2.040	0.113	22.5@1.650	68.5@1.125	9.90 RH	1.090	A877-10
160-1631	0.932T	0.670T	2.176	0.113 X 0.131	47@1.600	108@1.100	9.50 RH	1.050	A877-10
160-1358	0.933	0.707	1.745	0.113	17@1.500	51@1.100	7.85 RH	0.900	A230
160-1591	0.934	0.698	1.754	0.118	22@1.500	91@0.925	7.30 RH	0.870	A877
160-1262	0.936	0.640	1.943	0.148	47@1.700	141@1.350	9.10 LH	1.299	A877
160-1490	0.944	0.648	1.847	0.148	58@1.570	165@1.180	8.00 RH	1.143	CSV+V
160-1327	0.946	0.703	1.645	0.120	24@1.400	61@1.100	7.25 RH	0.900	A230
160-1590	0.947	0.697	1.694	0.125	20@1.500	86@0.950	7.35 RH	0.915	A877
160-1658	0.948T	0.707T	1.927	0.1205	26.5@1.600	80.5@1.100	9.0 RH	1.050	A877-10
160-1622	0.950	0.666	2.182	0.142	55@1.800	141@1.360	9.50 RH	1.330	CSV+V
160-1186	0.951	0.655	1.970	0.148	35@1.800	115@1.397	8.80 RH	1.300	AS33
160-1621	0.952	0.668	2.137	0.142	33@1.900	124@1.375	9.55 RH	1.342	A877
160-1619	0.953	0.669	2.765	0.142	71@2.200	156@1.550	10.43 RH	1.460	A877
160-1580	0.956T	0.716T	1.694	0.120	26@1.425	95@0.925	7.50 RH	0.885	A877
160-1052	0.958	0.732	1.725	0.113	16@1.500	58@1.000	7.70 LH	0.897	AS-28
160-1096	0.960	0.710	1.720	0.125	37@1.350	62@1.100	8.00 RH	1.060	A877
160-1119	0.963	0.723	1.760	0.120	26@1.483	57@1.153	8.00 LH	0.960	A877
160-1564	0.966	0.730	1.686	0.118	22@1.415	73@0.950	7.60 LH	0.875	A877
160-1638	0.966	0.738	1.382	0.114	17@1.197	61@0.750	6.00 RH	0.700	A877
160-1401	0.969	0.685	2.063	0.142	50@1.703	100@1.421	9.00 RH	1.313	A877
160-1433	0.969	0.713	2.313	0.128	31@1.937	66@1.625	10.00 RH	1.280	A877
160-1581	0.970T	0.714T	1.691	0.128	22@1.500	102@0.975	7.50 RH	0.945	A877
160-1568	0.970T	0.714T	1.908	0.128	23@1.675	93@1.115	8.65 RH	1.085	A877

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1434	0.978	0.752	2.059	0.113	21@1.686	69@1.114	9.00 LH	1.013	A877
160-1013	0.980	0.754	1.770	0.113	27@1.380	56@0.960	7.50 LH	0.850	A877
160-1273	0.981	0.744	1.900	0.121	41@1.450	78@1.150	8.00 LH	1.000	J157
160-1303	0.983	0.713	3.100	0.135	60@2.308	100@1.783	10.00 LH	1.663	A877
160-1495	0.983	0.755	1.397	0.114	16@1.223	59@0.796	5.70 RH	0.650	Cr-Si-V
160-1339	0.985	0.715	1.675	0.135	42@1.350	80@1.100	7.25 RH	1.000	A230
160-1385	0.985	0.717	1.675	0.135	43@1.350	80@1.100	7.30 RH	1.000	A877
160-1667	0.988T	0.748T	1.975	0.120	32@1.550	88@1.000	8.10 RH	0.925	A877-10
160-1207	0.989	0.739	2.678	0.125	40@1.978	77@1.416	10.78 LH	1.316	AS33SC
160-1566	0.990	0.754	2.423	0.118	24@1.960	78@1.200	10.00 LH	1.135	A877
160-1506	0.990T	0.720T	1.776	0.135	28@1.582	92@1.205	8.10 RH	1.061	CSV+V
160-1464	0.991	0.739	2.823	0.126	34@2.368	90@1.733	11.50 LH	1.421	CSV+V
160-1536	0.991	0.765	2.649	0.113	29@1.950	67@1.275	11.00 LH	1.245	A877
160-1383	0.994	0.714	2.020	0.142	36@1.750	103@1.300	8.25 LH	1.150	A877
160-1458	0.995	0.657	2.076	0.169	64@1.880	207@1.440	8.15 RH	1.377	A877
160-1540	0.995	0.777	2.050	0.109	23@1.625	57@1.010	8.50 RH	0.940	A877
160-1617	0.999T	0.693T	2.075	0.123 X 0.153	62@1.575	151@1.075	8.75 RH	1.045	A877
160-1478	1.000	0.730	2.390	0.135	20@2.140	90@1.590	10.70 RH	1.435	A877
160-1366	1.001	0.745	1.557	0.128	34.5@1.317	110@0.838	5.70 RH	0.725	A877
160-1630	1.001	0.765	1.692	0.118	36@1.240	71@0.874	6.80 RH	0.785	A877
160-1656	1.002T	0.686T	2.055	0.126 X 0.158	67@1.575	156@1.169	9.20 RH	1.130	A877-10
160-1557	1.003T	0.775T	2.133	0.114	21@1.740	69@1.075	8.75 LH	1.013	CSV+V
160-1634	1.004	0.720	1.656	0.1420	37@1.450	144@0.950	6.50 RH	0.900	A877-10
160-1289	1.007	0.737	2.281	0.135	31@1.945	87@1.396	9.50 RH	1.280	A877
160-1426	1.010	0.726	1.933	0.142	75@1.496	136@1.171	6.80 LH	0.978	A877
160-1528	1.010T	0.784T	1.831	0.113	16@1.602	59@1.102	8.40 RH	0.940	A877
160-1532	1.012	0.812	2.350	0.100	16@1.725	46@1.025	10.00 LH	0.992	A877
160-1601	1.014	0.700	2.017	0.156	35@1.850	192@1.325	8.25 RH	1.270	A877
160-1301	1.016	0.806	2.000	0.105	18@1.488	39@1.106	8.75 RH	0.920	A877
160-1661	1.017	0.767	1.580	0.125	26.5@1.300	73.5@0.950	7.25 RH	0.905	A877-10
160-1602	1.017T	0.747T	1.908	0.135	44@1.550	120@1.000	7.35 RH	0.965	A877
160-1563	1.018	0.768	2.431	0.125	22@2.050	72@1.400	11.00 LH	1.361	A877
160-1674	1.019T	0.749T	1.998	0.135	48@1.600	125@1.025	7.55 RH	0.980	A877-10
160-1616	1.020T	0.714T	1.979	0.123 X 0.153	89@1.338	146@0.964	7.55 RH	0.905	A877
160-1555	1.020T	0.770T	1.955	0.125	17@1.720	75@1.145	8.70 LH	1.108	A877
160-1268	1.025	0.755	2.000	0.135	70@1.500	134@1.100	7.60 LH	1.020	A877
160-1508	1.026	0.720	1.678	0.123 X 0.153	59@1.280	124@0.886	7.00 RH	0.820	A877
160-1347	1.027	0.731	1.840	0.148	41@1.600	105@1.250	7.50 LH	1.100	A877
160-1594	1.029	0.779	1.592	0.125	37@1.250	100@0.820	6.25 RH	0.790	A877
160-1604	1.030	0.789	2.625	0.1205	31@1.921	42@1.671	11.0 RH	1.330	A877
160-1588	1.030T	0.714T	1.729	0.126 X 0.158	58@1.378	141@0.945	7.10 RH	0.865	A877
160-1494	1.032	0.762	2.266	0.135	51@1.717	83@1.457	10.0 RH	1.300	A877
160-1579	1.033T	0.717T	1.760	0.126 X 0.158	42@1.500	136@0.950	7.45 RH	0.905	A877
160-1485	1.034T	0.708T	2.169	0.132 X 0.158	79@1.655	171@1.222	8.80 RH	1.156	A877
160-1408	1.040T	0.770T	2.115	0.135	69@1.570	157@1.100	8.00 RH	1.043	AS33SC
160-1480	1.042	0.726	1.770	0.126 X 0.158	27@1.589	120@1.044	7.20 RH	0.890	A877
160-1675	1.043T	0.759T	1.988	0.142	56.5@1.600	141.5@1.070	7.26 RH	0.980	A877-10
160-1466	1.044	0.808	2.875	0.118	17@2.500	54@1.700	10.00 LH	1.200	A877
160-1352	1.048	0.736	1.800	0.156	65@1.500	135@1.200	7.20 LH	1.100	A877
160-1250	1.050	0.738	1.831	0.156	46@1.600	125@1.300	7.80 RH	1.180	A877
160-1218	1.050	0.794	1.920	0.128	20@1.672	70@1.072	8.00 RH	0.988	A877
160-1643	1.052	0.7850	1.961	0.135	41@1.600	109@1.075	7.45 RH	1.030	CSV+V
160-1170	1.058	0.762	3.030	0.148	29@2.655	101@2.030	12.50 LH	1.800	A230
160-1156	1.058	0.788	2.112	0.135	40@1.666	95@1.214	8.67 LH	1.174	A877
160-1553	1.058T	0.802T	2.083	0.128	19@1.825	78@1.185	8.57 LH	1.150	A877
160-1326	1.059	0.775	1.720	0.142	33@1.500	88@1.200	7.00 RH	1.000	A877
160-1377	1.060	0.736	1.860	0.162	64@1.600	141@1.350	7.50 LH	1.200	A230
160-1136	1.060	0.776	1.760	0.142	31@1.566	102@1.114	6.75 LH	0.950	A877
160-1551	1.060T	0.819T	2.322	0.1205	23@1.880	69@1.200	9.25 LH	1.146	A877

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1487	1.063	0.747	1.610	0.132 X 0.158	58@1.245	130@0.905	6.85 RH	0.859	A877
160-1241	1.065	0.795	1.882	0.135	23@1.650	65@1.300	7.40 RH	1.005	A877
160-1626	1.065T	0.753T	1.931	0.156	86@1.496	150@1.239	7.66 LH	1.179	A877
160-1404	1.067	0.797	1.982	0.135	31@1.671	81@1.219	8.25 LH	1.085	A877
160-1411	1.069T	0.738T	2.101	0.138 X 0.165	68@1.676	171@1.134	8.00 RH	1.073	A877
160-1529	1.070T	0.820T	1.893	0.125	28@1.625	101@1.037	7.50 RH	0.915	A877
160-1269	1.072	0.760	1.660	0.156	64@1.400	159@1.050	6.40 LH	0.982	A877
160-1425	1.072T	0.742T	1.736	0.138 X 0.165	65@1.423	160@1.029	7.20 LH	0.968	AS33
160-1343	1.075T	0.748T	1.835	0.167	62@1.600	151@1.300	7.25 LH	1.100	A877
160-1285	1.078	0.794	2.343	0.142	35@1.953	85@1.503	10.25 RH	1.460	A230
160-1295	1.082	0.798	3.036	0.142	39@2.531	94@2.031	13.00 LH	1.812	A877
160-1484	1.084	0.744	1.890	0.130 X 0.170	76@1.390	150@1.060	7.25 RH	0.925	A877
160-1441	1.090T	0.750T	1.748	0.170	75@1.496	196@1.160	6.75 RH	1.075	A877
160-1502	1.094	0.824	1.500	0.135	23@1.309	77@0.885	6.25 RH	0.786	A877
160-1342	1.095T	0.755T	1.825	0.170	69@1.600	174@1.300	6.80 RH	1.100	A230
160-1578	1.096	0.800	1.666	0.148	31@1.500	132@1.020	5.90 RH	0.875	A877
160-1545	1.096	0.826	2.165	0.135	26@1.850	79@1.225	8.35 LH	1.160	A877
160-1496	1.100	0.859	1.672	0.120	15@1.456	56@0.941	7.00 RH	0.826	A877
160-1636	1.109	0.755	3.930	0.177	81@3.400	241@2.450	13.40 RH	2.350	A877
160-1657	1.109	0.813	2.200	0.148	39@1.850	120@1.300	8.50 RH	1.255	A877
160-1514	1.110	0.798	1.934	0.156	29@1.765	135@1.195	7.45 RH	1.158	A877
160-1547	1.113	0.843	2.707	0.135	50@2.000	101@1.325	9.40 LH	1.296	CSV+V
160-1585	1.115	0.791	2.185	0.162	74@1.770	168@1.300	7.65 RH	1.210	A877
160-1644	1.116	0.786	2.466	0.165	83@2.000	183@1.475	8.75 RH	1.435	CSV+V
160-1587	1.119	0.863	2.903	0.128	68@1.732	104@1.260	9.10 LH	1.175	A877
160-1005	1.121	0.809	1.480	0.156	50@1.263	123@0.953	6.00 RH	0.860	A877
160-1544	1.121	0.825	1.996	0.148	35@1.728	135@1.048	7.10 RH	1.013	CSV+V
160-1660	1.121	0.845	1.739	0.138	30.5@1.450	86.5@1.050	7.20 RH	0.990	A877-10
160-1448	1.125	0.855	2.320	0.135	44@1.770	92@1.240	7.50 RH	1.080	A877
160-1453	1.126	0.762	2.660	0.182	68@2.380	202@1.830	9.70 LH	1.730	A877
160-1609SSA	1.127T	0.749T	1.915	0.150 X 0.189	80@1.580	185@1.137	7.00 RH	N/A	A877
160-1306	1.131	0.835	3.150	0.148	70@2.250	109@1.765	11.25 RH	1.629	A877
160-1452	1.132	0.738	3.230	0.200	139@2.787	317@2.323	11.40 LH	2.210	A877
160-1576	1.132	0.836	1.795	0.148	55@1.480	138@1.040	5.85 RH	0.840	CSV+V
160-1196	1.132	0.882	2.179	0.125	20@1.791	51@1.187	9.10 LH	1.106	AS25
160-1454	1.134	0.720	3.627	0.207	149@3.160	325@2.609	12.35 LH	2.497	A877
160-1451	1.134	0.760	2.800	0.187	49@2.593	193@2.000	10.56 LH	1.928	A877
160-1637	1.138	0.755	3.860	0.192	123@3.300	325@2.450	12.50 RH	2.380	A877
160-1188	1.140	0.777	2.375	0.177	53@2.156	146@1.766	8.75 RH	1.549	A877
160-1678	1.140	0.786	4.010	0.177	100@3.300	245@2.400	13.35 RH	2.355	A877-10
160-1679	1.140	0.786	4.220	0.177	132@3.300	268@2.450	13.44 RH	2.375	A877-10
160-1221	1.140	0.844	2.313	0.148	55@1.812	99@1.437	8.00 RH	1.180	A877
160-1614	1.144T	0.779T	1.898	0.146 X 0.184	104@1.540	235@1.067	7.00 RH	1.075	A877
160-1515	1.145	0.895	2.112	0.125	31@1.640	90@0.875	6.80 LH	0.821	CSV+V
160-1423	1.147	0.863	2.090	0.142	39@1.702	85@1.237	7.75 LH	1.100	A877
160-1612	1.147T	0.771T	1.907	0.150 X 0.188	65@1.650	241@1.075	7.15 RH	1.040	A877
160-1432	1.149T	0.787T	1.929	0.145 X 0.181	75@1.580	185@1.137	7.30 RH	1.050	A877
160-1194	1.150T	0.760	2.190	0.197	94@1.900	221@1.550	7.50 RH	1.450	A877
160-1613	1.150T	0.774T	1.919	0.150 X 0.188	67@1.650	245@1.075	7.15 RH	1.040	A877
160-1671	1.151	0.867	3.174	0.142	84.5@2.100	148@1.400	9.20 RH	1.345	A877-10
160-1418	1.153	0.753	2.910	0.200	103@2.608	275@2.165	9.80 RH	1.841	A877
160-1396	1.154	0.858	2.075	0.148	30@1.790	96@1.230	7.50 LH	1.075	A877
160-1318	1.156	0.824	1.958	0.167	37@1.750	131@1.350	7.50 RH	1.251	A877
160-1635	1.159	0.863	2.090	0.148	42@1.756	88@1.412	7.10 RH	1.060	A230
160-1504	1.162	0.832	1.696	0.162	71@1.437	226@0.905	5.70 RH	0.850	CSV+V
160-1372	1.162	0.866	1.970	0.148	40@1.700	92@1.350	7.50 RH	1.050	A230
160-1673	1.162	0.866	3.097	0.148	85.5@2.100	156.5@1.375	9.05 RH	1.325	A877-10
160-1472	1.163	0.837	1.725	0.135 X 0.163	28@1.542	119@0.991	6.40 RH	0.835	A877
160-1450	1.163T	0.773T	2.148	0.162 X 0.195	112@1.810	265@1.322	7.95 RH	1.250	A877

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Righ Hand	Solid Height	Material
160-1443	1.165T	0.831T	2.065	0.167	95@1.650	218@1.217	7.00 RH	1.115	A877
160-1457	1.177	0.865	2.216	0.156	34@1.941	134@1.291	7.50 RH	1.137	A877
160-1360	1.180T	0.854T	1.630	0.162	72@1.340	175@0.984	5.80 RH	0.900	A877
160-1365	1.185T	0.865T	1.700	0.162	68@1.400	138@1.150	6.25 RH	1.000	A877
160-1114	1.188	0.864	2.533	0.162	53@2.109	120@1.750	9.37 LH	1.520	A877
160-1521	1.189	0.859	1.801	0.165	35@1.637	167@1.035	6.30 RH	1.000	CSV+V
160-1028	1.189	0.905	1.540	0.142	39@1.283	101@0.878	5.30 RH	0.780	A877
160-1486	1.190	0.766	3.262	0.178 X 0.212	50@3.006	241@2.236	11.75 RH	2.057	A877
160-1505	1.192	0.922	1.807	0.134	43@1.331	83@0.940	6.20 LH	0.811	A877
160-1361	1.193T	0.870T	1.670	0.162	82@1.340	182@0.984	6.20 RH	0.940	A877
160-1414	1.194	0.780	4.067	0.207	190@3.338	339@2.814	12.80 RH	2.678	J157
160-1055	1.195	0.871	1.760	0.162	55@1.550	125@1.200	5.90 RH	1.092	A877
160-1543	1.195	0.925	1.836	0.135	16@1.605	62@1.000	7.25 RH	0.952	A877
160-1664	1.200	0.904	1.880	0.148	37@1.600	144@1.025	6.65 RH	0.980	A877-10
160-1008	1.204	0.850	2.220	0.177	72@1.890	177@1.450	7.40 LH	1.280	A877
160-1014	1.210	0.886	1.831	0.162	53@1.524	129@1.190	7.00 RH	1.100	A877
160-1272	1.210	0.886	2.250	0.162	90@1.700	152@1.400	7.80 LH	1.238	J157
160-1676	1.210	0.898	2.840	0.156	62@2.200	139@1.500	9.25 LH	1.455	A877-10
160-1611	1.213T	0.789T	2.540	0.170 X 0.212	101@2.154	303@1.637	9.50 RH	1.570	CSV+V
160-1181	1.215	0.870	1.960	0.170	45@1.738	141@1.258	7.25 RH	1.191	A877
160-1460	1.216	0.932	2.425	0.142	48@1.800	104@1.230	8.00 RH	1.120	A877
160-1382	1.216T	0.860T	1.900	0.177	81@1.610	181@1.280	6.50 RH	1.105	A877
160-1523	1.217	0.877	1.783	0.170	29@1.650	169@1.065	6.30 RH	1.032	CSV+V
160-1665	1.218	0.906	1.760	0.156	40@1.500	142.5@1.075	6.80 RH	1.045	A877-10
160-1117	1.220	0.880	2.030	0.170	80@1.696	160@1.366	7.25 RH	1.190	A877
160-1125	1.220	0.880	2.050	0.170	74@1.696	164@1.306	6.50 RH	1.125	A877
160-1121	1.220	0.880	2.250	0.170	63@1.946	160@1.496	8.20 RH	1.394	A877
160-1025	1.221	0.875	2.000	0.173	45@1.800	130@1.400	7.26 RH	1.230	A877
160-1219	1.222	0.898	2.760	0.162	54@2.300	147@1.700	9.30 RH	1.521	A230
160-1133	1.224	0.880	2.030	0.172	64@1.727	164@1.340	7.25 RH	1.247	AS-28
160-1142	1.225	0.885	1.860	0.170	60@1.640	166@1.250	6.50 LH	1.105	A877
160-1584	1.227	0.957	1.825	0.135	30@1.469	79@1.106	6.50 RH	0.900	A877
160-1009	1.230	0.876	1.910	0.177	92@1.610	235@1.160	6.60 RH	1.130	A877
160-1144	1.230	0.876	2.048	0.177	88@1.700	225@1.250	6.60 RH	1.150	AS33
160-1475	1.231	0.891	2.010	0.170	88@1.679	206@1.239	6.50 RH	1.161	A877
160-1083	1.231	0.899	2.007	0.166	97@1.679	198@1.240	7.00 RH	1.161	A877
160-1086	1.232	0.878	2.059	0.177	105@1.610	214@1.220	6.80 RH	1.146	A877
160-1099	1.232	0.900	1.780	0.166	75@1.440	165@1.040	6.00 RH	0.960	AS33
160-1148	1.234	0.880	1.900	0.177	61@1.660	184@1.270	6.70 RH	1.170	A877
160-1456	1.235	0.835	2.756	0.200	126@2.340	281@1.828	9.00 RH	1.758	A877
160-1615	1.238	0.838	2.330	0.152 X 0.200	74@1.900	215@1.225	8.00 RH	1.185	A877
160-1115	1.239	0.885	1.970	0.177	74@1.660	155@1.400	7.00 LH	1.240	A877
160-1493	1.239	0.969	1.668	0.135	16.7@1.485	75.6@0.937	5.30 RH	0.720	A877
160-1652	1.240	0.886	2.655	0.177	67@2.205	147@1.700	9.40 RH	1.660	A877-10
160-1655	1.240	0.886	2.960	0.177	100@2.300	194@1.700	9.45 RH	1.665	A877-10
160-1651	1.242	0.888	2.440	0.177	78@2.000	183@1.450	8.10 RH	1.375	A877-10
160-1607	1.245T	0.825T	2.081	0.165 X 0.210	90@1.801	254@1.315	7.75 RH	1.258	A877
160-1338	1.245T	0.954T	1.800	0.148	30@1.600	75@1.300	6.85 RH	1.100	A877
160-1266	1.247	0.893	2.040	0.177	83@1.700	197@1.270	6.70 RH	1.200	AS33
160-1085	1.249	0.895	1.981	0.177	80@1.720	210@1.320	7.00 LH	1.250	A877
160-1184	1.250	0.867	2.470	0.192	78@2.200	183@1.800	8.20 RH	1.632	A877
160-1436	1.250T	0.860T	1.900	0.162 X 0.192	77@1.600	208@1.175	6.75 RH	1.070	A877
160-1267	1.250T	0.876T	1.960	0.187	50@1.800	214@1.318	6.50 RH	1.210	A877
160-1112	1.250T	0.890T	1.710	0.177	79@1.437	208@1.030	5.80 RH	0.990	A877
160-1572	1.252	0.968	2.319	0.142	70@1.600	138@1.012	6.50 LH	0.970	CSV+V
160-1663	1.253	0.941	2.006	0.156	41@1.675	123@1.175	7.25 RH	1.140	A877-10
160-1177	1.257	0.903	2.685	0.177	70@2.250	155@1.720	9.00 RH	1.610	A877
160-1488	1.257T	0.845T	2.126	0.170 X 0.206	52@1.937	2381.372	7.50 RH	1.221	A877
160-1407	1.259	0.876	2.140	0.192	110@1.800	325@1.200	6.30 RH	1.150	AS33

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1144HP	1.260	0.876	2.023	0.192	118@1.700	318@1.210	6.50 RH	1.160	A877
360-1010	1.260	0.876	2.023	0.192	118@1.700	318@1.210	6.50 RH	1.160	CS
160-1233	1.260	0.876	2.035	0.192	80@1.811	230@1.390	6.60 RH	1.278	AS33
360-1013	1.260	0.876	2.180	0.192	130@1.800	350@1.200	6.20 RH	1.160	CS
360-1012	1.260	0.885	2.140	0.192	110@1.800	325@1.200	6.30 RH	1.160	CS
160-1627	1.260T	0.807T	2.134	0.176 X 0.223	100@1.870	326@1.299	7.25 RH	1.252	CSV+V
160-1569	1.262T	0.966T	1.729	0.148	42@1.440	137@0.820	5.60 RH	0.770	A877
160-1319	1.264	0.880	1.876	0.162 X 0.192	39@1.671	135@1.278	7.15 RH	1.172	A877
160-1095	1.267	0.955	1.700	0.156	59@1.350	118@1.000	5.70 RH	0.920	A877
160-1623	1.270T	0.845T	2.125	0.170 X 0.212	63@1.900	288@1.275	7.60 RH	1.230	CSV+V
160-1300	1.271	0.917	2.265	0.177	75@1.867	150@1.477	7.60 RH	1.350	A877
160-1571	1.272	0.948	2.780	0.162	47@2.370	183@1.375	8.40 RH	1.334	A877
160-1628	1.272T	0.826T	2.024	0.178 X 0.223	100@1.771	326@1.220	7.00 RH	1.181	CSV+V
160-1519	1.273	0.913	1.775	0.180	39@1.603	143@1.165	6.40 RH	1.128	A877
160-1406	1.275	0.920	2.335	0.177	46@2.096	162@1.534	7.12 RH	1.360	A877
160-1527	1.275	0.947	2.518	0.162	74@1.930	144@1.504	8.25 RH	1.370	A877
160-1645	1.275T	0.979T	2.016	0.148	70@1.424	140@0.875	6.00 RH	0.815	CSV
160-1080	1.279	0.933	1.878	0.173	97@1.460	217@1.020	6.00 RH	0.976	A877
160-1179	1.280	0.906	2.650	0.187	56@2.340	156@1.830	9.50 RH	1.770	A877
160-1012	1.280	0.940	1.730	0.170	67@1.418	166@1.020	5.90 RH	0.950	A877
160-1647	1.280	0.946	2.455	0.167	80@1.900	171@1.300	7.30 RH	1.260	A877
160-1290	1.281	0.930	2.438	0.177	125@1.740	151@1.590	7.75 RH	1.370	A877
160-1030	1.283	0.959	1.822	0.162	46@1.550	120@1.150	6.00 RH	1.056	A230
160-1570	1.285	0.945	2.386	0.170	44@2.055	184@1.300	7.75 RH	1.262	A877
160-1076	1.290	0.930	2.110	0.180	90@1.701	215@1.290	6.89 RH	1.240	A877
160-1001	1.292	0.938	2.066	0.177	75@1.727	180@1.340	7.20 LH	1.260	A877
160-1223	1.292	0.968	2.375	0.162	61@1.875	119@1.521	8.30 RH	1.344	A877
160-1000	1.292T	0.938T	2.130	0.177	75@1.727	180@1.340	7.12 LH	1.260	A877-10
160-1437	1.293T	0.935T	1.834	0.182	68@1.600	205@1.170	6.00 LH	1.000	A877
160-1072	1.297	0.933	1.840	0.182	65@1.577	180@1.156	5.90 LH	1.050	A877
160-1225	1.297	1.013	2.640	0.142	38@1.937	70@1.546	9.50 RH	1.350	A877
160-1654	1.299	0.987	1.950	0.156	41@1.594	128@1.125	6.90 RH	1.065	A877-10
160-1642SSA	1.299T	0.854T	2.370	0.178 X 0.222	117@1.988	332@1.466	8.35 RH	1.429	CSV
160-1427	1.300	0.901	2.016	0.199	85@1.780	255@1.330	6.50 RH	1.280	AS22-CrV
160-1064	1.300	0.960	1.935	0.170	45@1.700	143@1.200	6.00 RH	1.002	A877
160-1019	1.300	0.988	1.968	0.156	55@1.575	105@1.200	7.00 RH	1.106	A230
160-1653	1.300	1.024	2.255	0.138	31@1.650	77@1.150	8.00 RH	1.105	A877-10
160-1398	1.300T	0.961T	2.025	0.167	54@1.700	158@1.250	7.00 RH	1.150	A877
160-1130	1.301	1.005	2.070	0.148	46@1.600	101@1.160	6.75 LH	1.030	A877
160-1145	1.302	0.938	2.190	0.182	78@1.890	202@1.450	6.75 RH	1.220	A877
160-1648	1.302	0.972	2.788	0.165	73@2.100	154@1.450	8.50 RH	1.385	A877
160-1106	1.303	0.949	1.923	0.177	65@1.600	161@1.200	6.60 RH	1.176	A877
160-1307	1.304	0.930	1.846	0.187	56@1.650	170@1.250	6.50 RH	1.180	A877
160-1549	1.305	0.943	2.618	0.144 X 0.181	57@2.030	143@1.285	8.75 RH	1.255	A877
160-1550	1.305	0.943	2.691	0.144 X 0.181	62@2.035	148@1.300	8.73 RH	1.253	A877
160-1608	1.305	0.979	2.175	0.163	55@1.688	110@1.344	6.80 RH	1.110	A877
160-1220	1.306	1.010	2.313	0.148	40@1.812	70@1.437	7.50 RH	1.110	A877
160-1031	1.315	0.961	1.875	0.177	57@1.600	155@1.200	6.50 RH	1.150	A877
160-1489	1.315	0.975	2.158	0.170	92@1.575	172@1.155	6.60 RH	1.063	A877
160-1216	1.316	0.992	2.065	0.162	59@1.575	105@1.260	6.75 LH	1.040	A877
160-1097	1.317	1.005	1.958	0.156	62@1.450	101@1.200	7.00 LH	1.048	A877
160-1016	1.318	0.964	1.830	0.177	51@1.640	140@1.265	5.63 RH	1.000	A230
160-1378	1.318T	0.958T	1.967	0.177	85@1.640	200@1.216	6.50 RH	1.163	A877
160-1379	1.320	0.948	2.385	0.187	78@2.000	174@1.650	7.60 RH	1.400	A877
160-1526	1.323	0.923	2.387	0.152 X 0.200	79@1.850	223@1.200	7.50 RH	1.130	A877
160-1038	1.324	0.950	1.800	0.187	50@1.600	170@1.200	5.90 RH	1.091	A877
160-1348	1.325	0.942	2.235	0.192	59@2.000	180@1.550	7.10 RH	1.350	A877
160-1430	1.327T	0.923T	2.015	0.160 X 0.202	85@1.602	206@1.151	7.30 RH	1.110	AS33
160-1127	1.328	1.004	2.000	0.162	52@1.585	117@1.220	7.25 LH	1.150	A877

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1595	1.329	0.929	2.106	0.152 X 0.200	61@1.700	219@1.080	6.75 RH	1.005	A877
160-1053	1.330	1.006	2.010	0.162	35@1.750	123@1.200	6.60 RH	1.093	AS-28
160-1140	1.332	0.958	2.260	0.187	100@1.812	195@1.437	7.25 RH	1.360	A877
160-1247	1.334	0.980	1.900	0.177	89@1.503	165@1.200	6.40 RH	1.100	A877
160-1483	1.334T	0.964T	1.930	0.185	75@1.640	210@1.216	6.60 RH	1.156	A877
160-1482	1.335	0.995	1.955	0.170	30@1.750	120@1.250	7.20 RH	1.200	A230
160-1463	1.336	0.972	2.523	0.182	90@2.000	203@1.425	7.50 RH	1.325	A877
160-1116	1.341	0.969	2.250	0.182	78@1.858	192@1.462	8.00 LH	1.390	A877
160-1518	1.341	0.995	2.067	0.173	40@1.825	197@1.165	6.75 RH	1.130	A877
160-1210	1.342	0.958	1.820	0.192	70@1.625	213@1.200	6.22 RH	1.150	A230
160-1459	1.342	0.968	2.194	0.187	38@2.010	184@1.440	7.00 RH	1.280	A877
160-1565	1.343	1.003	1.901	0.170	42@1.630	143@1.135	6.50 RH	1.066	A877
160-1172	1.343	1.004	2.170	0.173	90@1.585	173@1.222	6.80 RH	1.161	AS-22
160-1126	1.344	0.980	2.160	0.182	65@1.858	163@1.530	7.50 LH	1.375	A877
160-1288	1.344	1.047	2.875	0.148	42@2.094	59@1.781	9.50 RH	1.410	A877
160-1079	1.346	0.960	1.960	0.162 X 0.192	70@1.600	178@1.200	6.80 RH	1.150	A877
160-1435	1.347	1.013	2.131	0.167	60@1.690	156@1.194	6.75 RH	1.115	A877
160-1264	1.348	1.005	2.130	0.170	60@1.730	130@1.330	6.80 RH	1.130	A877
160-1103	1.349	0.950	1.950	0.200	73@1.732	223@1.350	6.50 RH	1.250	A230
160-1363	1.350T	0.930T	1.940	0.178 X 0.212	74@1.700	230@1.260	6.50 RH	1.156	A877
160-1517	1.351	1.005	2.311	0.173	41@2.035	206@1.260	7.20 RH	1.206	A877
160-1287	1.354	1.030	2.681	0.162	58@1.978	109@1.541	9.00 RH	1.400	A877
160-1131	1.355	1.006	1.828	0.177	52@1.585	154@1.220	6.00 LH	1.065	A230
160-1516	1.355	1.009	1.920	0.173	32@1.745	131@1.205	6.25 RH	1.100	A877
160-1573	1.358	1.034	2.075	0.162	58@1.638	157@0.980	5.80 RH	0.943	A877
160-1274	1.362	1.006	2.126	0.177	82@1.650	156@1.350	6.80 RH	1.200	J157
160-1128	1.364	0.980	2.270	0.192	80@1.920	204@1.500	7.50 RH	1.370	A877
160-1033	1.364	1.010	1.950	0.177	48@1.700	165@1.200	6.00 LH	1.062	A877
160-1120	1.364	1.010	2.222	0.177	75@1.780	168@1.390	7.00 LH	1.300	A877
160-1023	1.370	0.970	2.034	0.200	69@1.800	207@1.400	6.50 RH	1.225	AS-28
160-1152	1.374	1.010	2.020	0.182	61@1.730	183@1.280	6.50 LH	1.180	A877
160-1610	1.374	1.017	2.190	0.177	37@1.984	205@1.314	6.60 RH	1.140	A877
160-1620	1.375	0.981	3.035	0.197	130@2.350	294@1.700	7.90 LH	1.570	A877
160-1226	1.375	0.992	2.234	0.192	69@1.900	164@1.500	7.25 RH	1.392	A230
160-1205	1.375	1.021	2.173	0.177	58@1.811	143@1.358	6.75 RH	1.228	A877
160-1592	1.379	1.009	2.608	0.185	101@2.000	207@1.492	7.70 RH	1.400	A877-10
160-1203	1.379	1.015	1.785	0.182	30@1.667	174@1.119	5.50 LH	1.005	A877
160-1024	1.380	0.996	1.923	0.192	55@1.700	165@1.300	6.10 LH	1.115	A877
160-1151	1.380	1.010	1.970	0.185	75@1.660	180@1.230	6.25 RH	1.170	A877
160-1118	1.382	1.058	1.980	0.162	58@1.533	105@1.203	6.25 RH	1.020	A877
160-1302	1.383	0.969	3.420	0.207	120@2.810	255@2.210	10.30 RH	2.066	A877
160-1202	1.384	1.010	1.960	0.185	70@1.640	175@1.240	6.25 LH	1.140	A877
160-1054	1.385	1.011	1.900	0.187	39@1.750	190@1.200	5.75 RH	1.075	AS-28
160-1020	1.385	1.015	2.000	0.185	83@1.687	177@1.310	6.75 RH	1.249	A877
160-1192	1.386	1.016	2.050	0.185	58@1.766	159@1.271	6.75 LH	1.201	A877
160-1629	1.390	1.007	2.445	0.1915	110@1.920	235@1.413	7.20 RH	1.319	A877
160-1018	1.390	1.020	1.810	0.185	85@1.480	187@1.080	5.75 RH	1.002	A877
160-1143	1.390	1.020	2.610	0.185	100@2.000	190@1.500	7.50 RH	1.350	A877
160-1446	1.392T	1.038T	2.190	0.177	36@1.984	210@1.314	6.50 RH	1.150	A877
160-1479	1.393	0.957	3.886	0.218	94@3.464	324@2.535	10.65 RH	2.275	A877
160-1004	1.393	1.010	2.060	0.192	75@1.790	200@1.340	6.90 LH	1.255	A877
160-1044	1.394	1.010	2.040	0.192	78@1.780	204@1.360	6.75 LH	1.290	A877
160-1047	1.394	1.010	2.100	0.192	78@1.780	204@1.330	6.50 LH	1.260	A877
160-1164	1.394	1.010	2.200	0.192	84@1.812	218@1.365	6.90 RH	1.300	A230
160-1122	1.394	1.020	2.000	0.192	83@1.687	178@1.313	6.25 LH	1.203	A877
160-1069	1.394	1.020	2.160	0.187	114@1.650	208@1.220	6.50 RH	1.165	A877
160-1431	1.394T	1.020T	2.212	0.187	90@1.808	226@1.338	6.60 RH	1.220	AS33
160-1606	1.397	1.023	2.182	0.187	88@1.769	211@1.237	6.30 RH	1.185	A877
160-1137	1.398	1.058	1.940	0.170	62@1.586	140@1.134	5.80 LH	0.990	AS33

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1206	1.400	1.000	2.050	0.200	76@1.800	197@1.400	6.50 RH	1.260	AS33
160-1161	1.400	1.000	2.068	0.200	80@1.810	229@1.330	6.40 LH	1.280	A877
160-1134	1.400	1.016	1.990	0.192	80@1.700	197@1.300	6.00 LH	1.150	A877
160-1135	1.400	1.024	1.875	0.188	81@1.580	192@1.180	6.00 LH	1.120	A877
160-1498	1.400	1.046	1.847	0.177	40@1.658	177@1.050	5.40 RH	0.948	A877
160-1199	1.400T	1.022T	1.959	0.187	103@1.570	228@1.170	6.18 LH	1.098	AS-22
160-1556	1.400T	1.046T	2.051	0.177	44@1.760	154@1.225	6.75 RH	1.165	A877
160-1558	1.401T	1.047T	2.085	0.177	33@1.860	169@1.200	6.70 RH	1.150	CSV+V
160-1447	1.408	1.025	2.560	0.192	85@2.067	191@1.500	7.50 RH	1.417	A877
160-1499	1.408	1.054	1.674	0.177	38@1.506	167@0.958	4.90 RH	0.865	A877
160-1041	1.410	1.010	1.965	0.200	45@1.800	205@1.300	6.10 LH	1.220	A877
160-1071	1.410	1.010	2.028	0.200	80@1.780	225@1.330	6.50 LH	1.250	A877
160-1162	1.410	1.010	2.056	0.200	80@1.820	226@1.390	6.70 LH	1.330	A877-10
160-1201	1.410	1.010	2.090	0.200	136@1.650	228@1.350	6.30 LH	1.200	A877
160-1189	1.410	1.056	2.710	0.177	117@1.850	160@1.530	7.50 RH	1.350	A877
160-1212	1.420	1.067	2.208	0.177	69@1.740	145@1.320	6.75 LH	1.130	A230
160-1410	1.424T	1.010T	2.050	0.207	75@1.840	250@1.348	6.30 RH	1.270	A877
160-1291	1.425	1.141	2.578	0.142	49@1.656	83@1.256	7.50 LH	1.065	A230
160-1624	1.427	1.063	2.940	0.182	105@2.150	206@1.500	8.00 RH	1.430	A877
160-1229	1.429	1.050	1.837	0.187	80@1.480	200@1.070	5.80 LH	1.030	AS-25
160-1157	1.432	1.058	2.100	0.187	75@1.716	200@1.264	6.66 LH	1.224	A877
160-1650	1.434	0.947	2.875	0.187	150@1.928	230@1.473	7.00 RH	1.316	A877-10
160-1075	1.434	1.050	2.021	0.192	95@1.650	240@1.180	6.12 LH	1.150	A877
160-1228	1.435	1.052	1.900	0.192	52@1.700	170@1.250	6.00 RH	1.152	A877
160-1124	1.436	1.062	2.260	0.187	99@1.820	189@1.420	6.50 LH	1.250	A877
160-1669	1.436	1.062	3.070	0.187	172@2.000	260@1.492	8.00 RH	1.430	A877-10
360-1015	1.437	0.796	2.380	0.180	165@1.800	315@1.300	6.25 LH	1.100	CS
160-1006	1.437	1.053	1.960	0.192	80@1.670	187@1.270	5.85 RH	1.110	A877
160-1147	1.437	1.053	1.960	0.192	80@1.670	212@1.270	5.85 RH	1.110	A877
160-1049	1.437	1.053	2.010	0.192	90@1.670	210@1.220	5.78 RH	1.110	A877
160-1132	1.438	1.024	2.047	0.207	89@1.770	233@1.380	6.00 LH	1.260	A877
160-1575	1.438	1.055	3.185	0.189	80@2.643	210@2.008	8.85 RH	1.673	AS-50A
160-1304	1.440	1.026	3.300	0.207	132@2.589	230@2.073	9.40 RH	1.954	A877
160-1541	1.444	1.132	2.418	0.156	57@1.800	120@1.170	7.15 LH	1.095	CSV+V
160-1129	1.450	1.076	2.280	0.187	79@1.820	199@1.420	7.00 LH	1.310	A877
160-1513	1.452	1.058	1.962	0.197	51@1.750	183@1.250	6.15 LH	1.205	A877
160-1190	1.453	1.070	2.400	0.192	93@1.900	200@1.400	6.75 RH	1.296	A877
160-1211	1.454	1.100	2.390	0.177	65@1.900	145@1.405	7.50 LH	1.280	A877
360-1016	1.460	0.800	2.235	0.192	120@1.875	395@1.175	5.80 LH	1.080	CS
160-1159	1.460	1.060	2.073	0.200	83@1.790	215@1.340	6.40 LH	1.270	A877
160-1173	1.462	1.062	1.985	0.200	80@1.720	230@1.260	6.00 LH	1.100	A877
160-1175	1.462	1.062	2.120	0.200	90@1.820	220@1.380	6.63 LH	1.320	AS33S
160-1409	1.464	1.080	2.300	0.192	85@1.900	211@1.300	6.50 RH	1.200	A877
160-1567	1.468	1.128	2.789	0.170	64@2.075	150@1.300	7.30 RH	1.238	CSV+V
160-1213	1.469	1.069	2.341	0.200	55@2.096	180@1.530	7.00 RH	1.434	A877
360-1017	1.470	0.820	2.244	0.188	110@1.880	350@1.330	7.00 RH	1.250	CS
160-1405	1.471	1.117	2.333	0.177	54@1.875	135@1.421	7.50 RH	1.315	A877
160-1227	1.475	1.091	2.440	0.192	90@1.900	190@1.400	7.00 LH	1.300	AS28
160-1416	1.477	1.063	2.357	0.207	83@2.007	215@1.497	6.90 LH	1.370	A877
160-1204	1.480	1.080	2.100	0.200	75@1.800	208@1.400	6.25 LH	1.250	A230
160-1417	1.482	1.068	2.580	0.207	145@1.980	262@1.530	6.90 LH	1.370	A877
160-1178	1.484	1.110	2.310	0.187	55@1.950	180@1.400	7.38 RH	1.340	A877
160-1492	1.488	1.118	2.175	0.185	35@1.984	150@1.346	6.20 RH	1.140	A877
160-1554	1.489	1.119	2.199	0.185	48@1.875	177@1.245	6.75 RH	1.208	A877
160-1533	1.490	1.150	2.270	0.170	46@1.825	146@1.160	7.00 RH	1.123	A877
160-1497	1.491	1.167	1.809	0.162	25@1.567	106@1.020	5.60 LH	0.921	A877
160-1150	1.494	1.080	1.940	0.207	96@1.650	238@1.220	5.70 RH	1.100	A877
160-1149	1.494	1.080	2.230	0.207	105@1.860	246@1.360	6.25 RH	1.290	A877
160-1286	1.499	1.116	2.562	0.192	56@2.156	137@1.706	8.60 RH	1.600	A877

Valve Spring Progressive Size Listing By O.D.

SBI Part #	O.D.	I.D.	Free Length	Wire Size	Closed Position Pressure & Length	Open Position Pressure & Length	Number Of Coils Left Or Right Hand	Solid Height	Material
160-1089	1.500	1.081	2.050	0.207	80@1.800	215@1.370	6.25 LH	1.280	AS33
160-1305	1.500	1.086	2.635	0.207	89@2.240	217@1.670	7.40 RH	1.552	A877
160-1507	1.500T	1.100T	2.162	0.200	48@1.977	220@1.397	6.45 RH	1.264	A877
160-1003	1.501	0.803	2.120	0.207	111@1.880	331@1.380	6.50 RH	1.280	A877
160-1154	1.503	1.067	2.060	0.218	85@1.820	270@1.320	6.00 LH	1.260	AS33
160-1141	1.504	1.090	2.050	0.207	90@1.800	220@1.400	6.50 LH	1.340	A877
160-1139	1.504	1.090	2.215	0.207	90@1.880	220@1.460	6.50 LH	1.340	AS33S
360-1011	1.504	1.090	2.235	0.207	90@1.880	220@1.460	6.50 LH	1.340	CS
160-1160	1.512	1.062	2.026	0.225	92@1.820	315@1.320	6.00 LH	1.270	A877
360-1014	1.514	0.795	2.453	0.192	140@1.940	360@1.300	6.50 LH	1.200	CS
160-1531	1.530	1.136	2.504	0.197	46@2.200	187@1.535	8.00 RH	1.499	A877
160-1537	1.535	1.111	2.565	0.178 X 0.212	71@2.100	220@1.375	7.75 RH	1.330	A877
160-1011	1.540	1.090	2.078	0.225	80@1.880	300@1.380	5.68 LH	1.278	A877
160-1138	1.543	1.093	2.143	0.225	110@1.880	343@1.380	6.00 LH	1.260	A877
160-1424	1.547	1.193	2.350	0.177	73@1.752	130@1.287	6.50 RH	1.150	A877
160-1198	1.552	1.138	2.005	0.207	48@1.802	174@1.302	6.30 RH	1.252	A877
160-1296	1.555	1.201	3.468	0.177	44@2.718	111@2.156	11.00 RH	1.875	A230
160-1552	1.560	1.128	2.491	0.177	54@2.015	179@1.225	6.95 RH	1.175	A877
160-1217	1.560	1.190	2.038	0.185	42@1.790	142@1.190	6.30 RH	1.117	A877
160-1449	1.574	1.190	2.520	0.192	100@1.890	165@1.510	6.50 LH	1.250	A877
160-1546	1.575	1.181	2.300	0.197	56@1.950	171@1.350	6.75 RH	1.293	A877
160-1171	1.580	1.206	3.543	0.187	60@2.719	135@2.154	11.00 RH	1.964	A877
160-1197	1.717	1.281	2.574	0.218	65@2.219	176@1.614	7.35 RH	1.531	A877
160-1677	1.720	1.284	3.017	0.218	122@2.300	263@1.600	7.30 RH	1.555	A877-10
160-1461	1.720	1.284	3.030	0.218	102@2.500	197@2.000	7.15 LH	1.500	A877
160-1429	1.730	1.347	3.302	0.192	65@2.596	130@2.076	8.25 RH	1.590	A877
160-1191	1.731	1.281	2.626	0.225	88@2.219	233@1.580	7.00 RH	1.519	A877
160-1397	1.735	1.285	2.500	0.225	61@2.220	194@1.660	6.50 RH	1.377	A877
160-1641	1.775	1.325	2.795	0.225	67@2.500	313@1.450	6.20 RH	1.350	CSV+V
160-1176	1.802	1.332	3.349	0.235	171@2.470	280@1.908	7.86 LH	1.841	A877
160-1548	2.086	1.186	3.117	0.195	56@2.500	174@1.350	7.00 RH	1.030	CSV+V

Rotators/Retainers Numerical Listing

SBI Part #	Description	SBI Part #	Description	SBI Part #	Description
161-1003	Rotator				
161-1006	Rotator				
161-1012	Rotator				
161-1013	Rotator				
161-1018	Rotator				
161-1020	Rotator				
161-1023	Rotator				
161-1028	Rotator				
161-1029	Rotator				
161-1030	Rotator				
161-1033	Rotator				
161-1035	Rotator				
161-1038	Rotator				
161-1039	Rotator				
161-1040	Rotator				
161-1041	Rotator				
161-1042	Rotator				
161-1045L	Rotator, Lower				
161-1046	Rotator				
161-1047	Rotator				
161-1049	Rotator				
161-1052	Rotator				
161-1053	Rotator				
161-1054	Rotator				
161-1056	Rotator				
161-1057	Retainer				
161-1058	Retainer				
161-1059	Rotator				
161-1067	Rotator				
161-1068	Rotator				
161-1069	Rotator				
161-1072L	Rotator, Lower				
161-1073	Rotator				
161-1074	Retainer				
161-1075	Rotator				
161-1076	Rotator				
161-1077	Rotator				
161-1078	Rotator				
161-9002	Lash Cap				
361-1010	Retainer, Steel				
361-1011	Retainer, Steel				
361-1013	Retainer, Steel				
361-1014	Retainer, Steel, 10 Degree				
361-1015	Retainer, Steel				

Lifter Numerical Listing

SBI Part #	Type	SBI Part #	Type	SBI Part #	Type
170-1011	Mechanical	VL556LA	Front-MDS-Hydraulic Roller Assy.		
170-1012	Mechanical	VL557LA	Rear-MDS-Hydraulic Roller Assy.		
170-1013	Mechanical	VL558	AFM Hydraulic Roller		
170-1014	Hydraulic Roller	VL558FG	AFM Lifter Guide-Front		
VL5	Hydraulic	VL558RG	AFM Lifter Guide-Rear		
VL8	Hydraulic	VL559	Hydraulic Roller		
VL9	Hydraulic	VL559G	Non-AFM Lifter Guide		
VL21	Mechanical	VL560	Hydraulic Roller		
VL31	Mechanical High Performance	VL561	Hydraulic Lash Adjuster		
VL32	Hydraulic	VL562	Hydraulic Lash Adjuster		
VL35	Hydraulic	VL564	Hydraulic Bucket		
VL37	Hydraulic	VL565	Mechanical		
VL48	Mechanical High Performance	VL567	Hydraulic Bucket		
VL49	Hydraulic	VL568	Hydraulic Bucket		
VL63	Mechanical High Performance	VL569	Hydraulic Lash Adjuster		
VL64	Hydraulic	VL570	Hydraulic Lash Adjuster		
VL66RH	Hydraulic High Performance	VL571	Hydraulic Bucket		
VL67RH	Hydraulic High Performance	VL572	Mechanical		
VL73	Hydraulic	VL573	Mechanical Roller		
VL81	Mechanical	VL574	Mechanical		
VL83	Hydraulic Lash Adjuster	VL575	Hydraulic Lash Adjuster		
VL86	Hydraulic				
VL87	Hydraulic Lash Adjuster				
VL88	Hydraulic				
VL89	Hydraulic				
VL94	Hydraulic				
VL100	Hydraulic Roller				
VL106	Hydraulic Roller				
VL107	Hydraulic Lash Adjuster				
VL109	Hydraulic Lash Adjuster				
VL113	Hydraulic Roller				
VL114	Hydraulic Roller				
VL115	Hydraulic Roller				
VL116	Hydraulic Bucket				
VL117RH	Hydraulic High Performance				
VL119	Mechanical Bucket				
VL120	Hydraulic Bucket				
VL121	Hydraulic				
VL123	Hydraulic Roller				
VL124	Hydraulic Bucket				
VL135	Hydraulic Lash Adjuster				
VL138	Hydraulic Roller				
VL141	Hydraulic Lash Adjuster				
VL146	Hydraulic Lash Adjuster				
VL149	Hydraulic Bucket				
VL150	Hydraulic Roller				
VL156	Mechanical				
VL163	Hydraulic Roller				
VL171	Hydraulic Lash Adjuster				
VL173	Hydraulic Lash Adjuster				
VL175	Hydraulic Lash Adjuster				
VL176	Hydraulic Lash Adjuster				
VL178	Hydraulic Lash Adjuster				
VL180	Hydraulic Lash Adjuster				
VL519	Hydraulic				
VL523	Hydraulic Bucket				
VL524	Hydraulic Bucket				
VL549	Mechanical				
VL554	Mechanical				
VL555LA	Non-MDS-Hydraulic Roller Assy.				

Rocker Arm Numerical Listing

SBI Part #	Description	SBI Part #	Description
180-1004	Cam Follower	180-1339	Roller Cam Follower
180-1007	Rocker Arm		
180-1008	Rocker Arm		
180-1012	Rocker Arm		
180-1028	Cam Follower		
180-1029	Rocker Arm		
180-1037	Cam Follower		
180-1040	Rocker Arm, Stamped Steel		
180-1041	Rocker Arm, Stamped Steel		
180-1055	Rocker Arm		
180-1056	Rocker Arm		
180-1059	Rocker Arm, Cast		
180-1077	Rocker Arm		
180-1078	Rocker Arm		
180-1079	Rocker Arm		
180-1080	Rocker Arm		
180-1207	Roller Rocker Arm		
180-1228	Rocker Arm		
180-1229	Rocker Arm		
180-1233	Rocker Arm, Stamped		
180-1234	Rocker Arm, Stamped		
180-1236	Rocker Arm, Stamped		
180-1237	Rocker Arm, Cast		
180-1238	Rocker Arm, Cast, Rail Type		
180-1239	Rocker Arm, Stamped, Long Slot		
180-1240	Cam Follower		
180-1264	Cam Follower, Cast		
180-1265	Cam Follower		
180-1266	Cam Follower		
180-1267	Cam Follower		
180-1283	Rocker Arm, Rail Type		
180-1284	Roller Cam Follower		
180-1288	Rocker Arm		
180-1290	Rocker Arm		
180-1291	Rocker Arm		
180-1292	Rocker Arm		
180-1304	Rocker Arm, Cast		
180-1313	Rocker Arm		
180-1315	Rocker Arm		
180-1317	Rocker Arm, Roller Pivot Assy., W/Bolt		
180-1318	Rocker Arm		
180-1319	Rocker Arm		
180-1320	Roller Cam Follower, Incl. Lash Adj.		
180-1321	Roller Cam Follower, Incl. Lash Adj.		
180-1322	Roller Cam Follower		
180-1323	Cam Follower		
180-1324	Roller Cam Follower		
180-1325	Roller Cam Follower		
180-1326	Rocker Arm, Cast Aluminum		
180-1328	Rocker Arm, Stamped		
180-1329	Rocker Arm, Roller Pivot Assy.		
180-1330	Cam Follower		
180-1331	Rocker Arm, Roller Pivot Assy.		
180-1332	Roller Cam Follower		
180-1333	Roller Cam Follower		
180-1335	Roller Cam Follower		
180-1336	Rocker Arm, Roller Pivot Assy.		
180-1337	Rocker Arm, Roller Pivot Assy.		
180-1338	Roller Cam Follower		

Rocker Arm Kit Component Listing

SBI Part #	Rocker Arm	BLS/FUL/BR (1)	BLS/FUL/BR (2)	BLT/NUT/STD (1)	BLT/NUT/STD (2)	BLT/NUT/STD (3)	Retainer
181-1008	Not Sold Sep. (1)	Not Sold Sep. (1)		Not Sold Sep. (1)			
181-1011	180-1228 (1)	183-1017 (1)		184-1038 (1)			
181-1012	Not Sold Sep. (1)	183-1024 (1)		184-1038 (1)			
181-1014	180-1229 (1)	183-1026 (1)		184-1040 (1)			
181-1016	Not Sold Sep. (1)	183-1015 (1)		184-1032 (1)			
181-1017	Not Sold Sep. (1)	Not Sold Sep. (1)					
181-1018	180-1012 (1)	Not Sold Sep. (1)		Not Sold Sep. (1)			
181-1020	Not Sold Sep. (1)	183-1021 (1)		184-1038 (1)			
181-1021	Not Sold Sep. (1)	Not Sold Sep. (1)		184-1038 (1)			
181-1023	180-1304 (1)	183-1020 (1)		184-1038 (1)			
181-1025	Not Sold Sep. (1)	183-1021 (1)		184-1038 (1)			
181-1028	Not Sold Sep. (2)	183-1014 (2)	183-1028 (1)				
181-1032	Not Sold Sep. (2)	183-1014 (2)	183-1028 (1)				
181-1034	180-1233 (1)	183-1022 (1)		184-1034 (1)			
181-1035	180-1234 (1)	183-1022 (1)		184-1035 (1)			
181-1037	180-1236 (2)	183-1014 (2)	183-1028 (1)				
181-1040	180-1237 (1)	183-1030 (1)		184-1038 (1)	184-1039 (1)		
181-1041	180-1238 (1)	183-1020 (1)		184-1038 (1)	184-1039 (1)		
181-1044	Not Sold Sep. (1)	183-1021 (1)		184-1038 (1)			
181-1048	Not Sold Sep. (1)	183-1026 (1)		184-1040 (1)			
181-1049	180-1239 (1)	183-1032 (1)		184-1038 (1)			
181-1057	Not Sold Sep. (2)	183-1027 (2)	183-1028 (1)				
181-1059	Not Sold Sep. (2)	183-1027 (2)	183-1028 (1)				
181-1060	Not Sold Sep. (2)	Not Sold Sep. (2)					Not Sold Sep. (1)
181-1061	180-1283 (1)	183-1017 (1)		184-1038 (1)			
181-1063	Not Sold Sep. (1)	Not Sold Sep. (1)		Not Sold Sep. (1)			
181-1064	180-1318 (1)	183-1034 (1)		184-1045 (1)			

(1) = 1 Quantity Per Kit

(2) = 2 Quantity Per Kit

Not Sold Sep. = Item contained in Kit but not sold separately

Rocker Components Numerical Listing

SBI Part #	Description	SBI Part #	Description
183-1014	Fulcrum, Short		
183-1015	Smooth Ball, 10mm		
183-1017	Smooth Ball, 3/8		
183-1020	Grooved Ball, 3/8		
183-1021	Grooved Ball, 7/16		
183-1022	Fulcrum		
183-1024	Smooth Ball, 3/8		
183-1026	Grooved Ball, 7/16		
183-1027	Fulcrum, Long		
183-1028	Bridge		
183-1030	Smooth Ball, 3/8		
183-1032	Grooved Ball, 3/8		
183-1034	Smooth Ball, 9/16		
183-1035	Smooth Ball, 7/16		
184-1020	Stud, 7/16		
184-1021	Stud, 5/16		
184-1022	+6 Oversize Stud		
184-1023	Stud, 3/8-7/16		
184-1025	Stud, 10mm		
184-1032	Nut, 10mm		
184-1033	Nut, 8mm		
184-1034	Bolt, 5/16		
184-1035	Bolt W/Washer, 5/16		
184-1038	Nut, 3/8		
184-1039	Nut, 5/16		
184-1040	Nut, 7/16		
184-1045	Stud Bit, 3/8		
186-1035	Rocker Arm Shaft		
186-1090	Rocker Arm Shaft		
186-1100	Rocker Arm Shaft		
186-1121	Rocker Arm Shaft		
187-1014	Retainer		
187-1051	Roll Pin		
187-1052	Bridge Guide		
187-1061	Injector Roller Pin		
187-1062	Valve Roller Pin		
187-1066	Valve Cam Roller		
187-1067	Injector Cam Roller		
187-1068	Injector Cam Roller		
187-1069	Spring		
187-1079	Valve Roller & Pin Set		
187-1080	Cam Follower Roller Set		
187-1081	Cam Follower Assy.		
187-1087	Valve Bridge Guide		

Pushrod Numerical Listing

PUSHROD TYPES



SINGLE PIECE



WELDED BALL



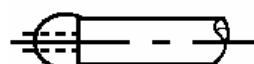
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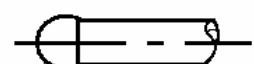
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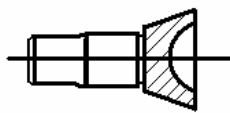
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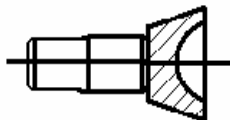
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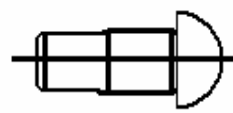
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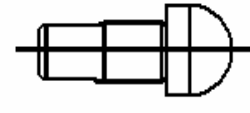
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PF-156



PM-156



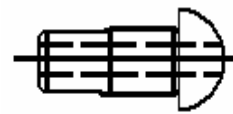
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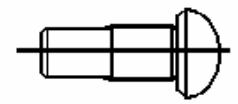
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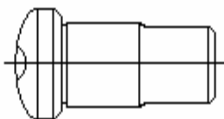
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PM-156D



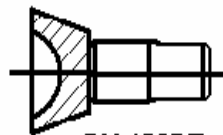
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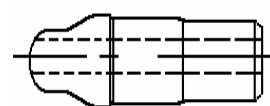
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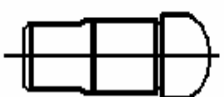
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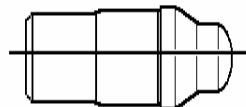
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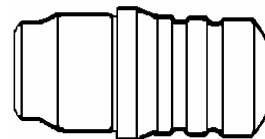
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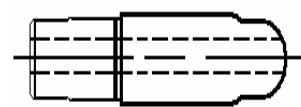
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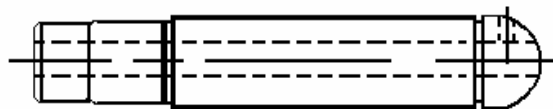
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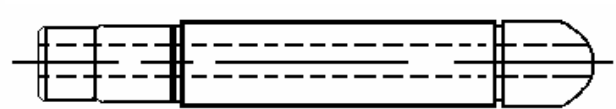
PM1752G



XLM-156D*



PM-156DTHXL*



PM156DXL*

*Long Tips (Can use guideplate contacts tip and not tubing wall)

Pushrod Numerical Listing

SBI Part #	Length	Tip	Tip	Pushrod Dia.
190-0471	5.475	187-WB	187-WB	312X060
190-1221	8.258	WB-180	PF-180	312X060
190-1222	9.602	WB-180	PF-180	312X060
190-1237	9.975	WB-156	PM-180	312X060
190-1269	8.778	156-WBD	156-WBD	312X060
190-1280	8.021	WB-187	PF-180	312X060
190-1327	8.350	187-WB	187-WB	312X060
190-1327U54	8.290	187-WB	187-WB	312X060
190-1328	9.355	187-WB	187-WB	312X060
190-1342	7.491	156-WB	PF-156	312X060
190-1349	8.723	187-WB	187-WB	312X060
190-1351	9.620	187-WB	187-WB	312X060
190-1351+60	9.680	187-WB	187-WB	312X060
190-1351U60	9.560	187-WB	187-WB	312X060
190-1370	9.779	WB-187	WB-187	375X060
190-1384	9.547	156-WBD	156-WBD	312X060
190-1385	10.200	156-WBD	156-WBD	344X060
190-1395	8.408	156-WBD	156-WBD	312X060
190-1396	8.648	156-WBD	156-WBD	312X060
190-1403	9.315	156-WB	156-WB	312X060
190-1408	8.575	156-WB	156-WB	312X060
190-1411	8.234	156-WBD	156-WBD	312X042
190-1417	9.500	156-WBD	156-WBD	312X060
190-1417+60	9.560	156-WBD	156-WBD	312X060
190-1417U60	9.440	156-WBD	156-WBD	312X060
190-1421	9.378	156-WBD	156-WBD	312X060
190-1422	9.390	187-WB	187-WB	312X060
190-1425	8.550	156-WBD	156-WBD	312X060
190-1425+60	8.610	156-WBD	156-WBD	312X060
190-1426	9.590	187-WB	187-WB	312X060
190-1426+60	9.650	187-WB	187-WB	312X060
190-1427	7.635	156-WBD	156-WBD	344X060
190-1429	9.594	156-WBD	156-WBD	312X060
190-1433	8.686	156-WBD	156-WBD	312X060H
190-1433+35	8.721	156-WBD	156-WBD	312X060H
190-1433+60	8.746	156-WBD	156-WBD	312X060H
190-1435	5.429	WB-172	PF-172	312X060
190-1438	8.245	187-WBD	187-WBD	312X060
190-1440	9.622	156-WBD	156-WBD	312X060
190-1443	8.182	156-WBD	156-WBD	312X060
190-1449	9.985	156-WBD	156-WBD	312X060
190-1450	7.500	156-WB	156-WB	312X060
190-1450+15	7.530	156-WB	156-WB	312X060
190-1450+45	7.560	156-WB	156-WB	312X060
190-1454	9.700	156-WBD	156-WBD	312X060
190-1454+40	9.740	156-WBD	156-WBD	312X060
190-1455	9.485	156-WBD	156-WBD	312X060
190-1467	7.260	156-WBD	156-WBD	312X060
190-1469	8.880	156-WBD	156-WBD	312X060
190-1473	6.248	156-WBD	156-WBD	312X060
190-1473U57	6.188	156-WBD	156-WBD	312X060
190-1478	8.468	156-WBD	156-WBD	312X060
190-1489	7.702	187-WBD	187-WBD	312X060
190-1500	8.828	187-WBD	187-WBD	375X075
190-1502	6.802	156-WB	156-WB	312X060
190-1507	6.777	156-WBD	156-WBD	312X060
190-1509	5.125	156-WBD	156-WBD	312X060
190-1511	7.137	156-WBD	156-WBD	312X060
190-1513	10.920	WB-172	PF-172	312X060
190-1522	7.770	156-WBD	156-WBD	312X060
190-1524	5.332	156-WBD	156-WBD	312X060

Pushrod Numerical Listing

SBI Part #	Length	Tip	Tip	Pushrod Dia.
190-1525	6.901	156-WBD	156-WBD	312X060
190-1526	8.634	156-WBD	156-WBD	312X060
190-1527	8.571	156-WBD	156-WBD	312X075
190-1528	9.540	156-WBD	156-WBD	312X075
190-1529	9.728	156-WBD	156-WBD	312X060
190-1530	10.910	156-WB	LF-187	375X060
190-1531	9.993	187-WBD	187-WBD	344X060
190-1532	6.721	156-WBD	156-WBD	344X060
190-1533	7.029	156-WBD	156-WBD	344X060
190-1534	5.750	156-WBD	156-WBD	312X060H
190-1535	6.074	156-WBD	156-WBD	312X060H
190-1536	7.520	156-WBD	156-WBD	312X060
190-1537	7.397	156-WBD	156-WBD	312X075
190-1538	10.240	187-WBD	187-WBD	344X060
190-1539	7.515	156-WBD	156-WBD	375X060
190-1541	5.297	156-WBD	156-WBD	312X060
190-1543	8.122	WB-180	PF-180	312X060
190-1544	6.610	156-WBD	156-WBD	312X060
190-1545	7.838	156-WBD	156-WBD	312X060
190-1546	5.879	156-WBD	156-WBD	312X060
190-1547	6.168	156-WBD	156-WBD	312X060
190-1548	9.795	187-WBD	187-WBD	344X060
190-1549	6.792	156-WBD	156-WBD	312X075
190-1550	8.085	156-WBD	156-WBD	312X075
190-1551	6.650	156-WBD	156-WBD	312X060
190-1552	7.870	156-WBD	156-WBD	312X060
190-1553	9.530	187-WBD	PF-156	312X060
190-1554	11.450	195-WD	PF-187	375X075
192-1229	9.136	156-WBD	156-WBD	312X060H
192-1229U60	9.076	156-WBD	156-WBD	312X060H
192-1321	6.804	156-WBD	156-WBD	312X060H
192-1322	10.136	156-WBD	156-WBD	312X060H
192-1322U40	10.100	156-WBD	156-WBD	312X060H
192-1330	9.682	156-WBD	156-WBD	312X060H
192-1331	7.798	156-WBD	156-WBD	312X060H
192-1335	11.382	156-WBD	156-WBD	312X060H
192-1336	9.252	156-WBD	156-WBD	375X075H
192-1337	8.280	156-WBD	156-WBD	375X075H
192-1338	9.200	156-WBD	156-WBD	312X060H
192-1339	8.230	156-WBD	156-WBD	312X060H
192-1377	8.680	156-WBD	156-WBD	375X075H
192-1378	9.643	156-WBD	156-WBD	375X075H
192-1381	7.735	156-WBD	156-WBD	312X060H
192-1399	8.152	156-WBD	156-WBD	312X060H
192-1409	6.876	156-WBD	156-WBD	312X060H
192-1409U60	6.816	156-WBD	156-WBD	312X060H
192-1439	8.092	156-WBD	156-WBD	312X060H
192-1442	9.650	156-WBD	156-WBD	312X060H
192-1444	6.162	156-WBD	156-WBD	312X060H
192-1446	8.045	156-WBD	156-WBD	312X060H
192-1453	8.975	156-WBD	156-WBD	312X060H
192-1462	8.383	156-WBD	156-WBD	312X060H
192-1480	8.272	156-WBD	156-WBD	312X060H
192-1481	6.043	156-WBD	156-WBD	312X060H
192-1482	6.390	156-WBD	156-WBD	312X060H
192-1482U40	6.350	156-WBD	156-WBD	312X060H
192-1484	7.700	156-WBD	156-WBD	375X075H
192-1485	7.195	156-WBD	156-WBD	312X060H
192-1491	7.963	156-WBD	156-WBD	344X060H
192-1503	9.252	156-WBD	156-WBD	312X060H
192-1504	8.280	156-WBD	156-WBD	312X060H

Pushrod Numerical Listing

SBI Part #	Length	Tip	Tip	Pushrod Dia.
192-1505	8.177	156-WBD	156-WBD	312X075H
192-1506	9.162	156-WBD	156-WBD	312X060H
192-1507	7.642	156-WBD	156-WBD	312X060H
192-1508	8.595	156-WBD	156-WBD	312X060H
192-1509	9.132	156-WBD	156-WBD	375X060H
192-1510	8.190	156-WBD	156-WBD	375X060H
192-1511	7.640	156-WBD	156-WBD	375X060H
192-1512	8.591	156-WBD	156-WBD	375X060H
192-1513	7.458	156-WBD	156-WBD	375X060H

Pushrod Progressive Size Listing By Length

Length	Tip	Tip	Pushrod Dia.	SBI Part #	Length	Tip	Tip	Pushrod Dia.	SBI Part #
5.125	156-WBD	156-WBD	312X060	190-1509	8.258	WB-180	PF-180	312X060	190-1221
5.297	156-WBD	156-WBD	312X060	190-1541	8.272	156-WBD	156-WBD	312X060H	192-1480
5.332	156-WBD	156-WBD	312X060	190-1524	8.280	156-WBD	156-WBD	312X060H	192-1504
5.429	WB-172	PF-172	312X060	190-1435	8.280	156-WBD	156-WBD	375X075H	192-1337
5.475	187-WB	187-WB	312X060	190-0471	8.290	187-WB	187-WB	312X060	190-1327U54
5.750	156-WBD	156-WBD	312X060H	190-1534	8.350	187-WB	187-WB	312X060	190-1327
5.879	156-WBD	156-WBD	312X060	190-1546	8.383	156-WBD	156-WBD	312X060H	192-1462
6.043	156-WBD	156-WBD	312X060H	192-1481	8.408	156-WBD	156-WBD	312X060	190-1395
6.074	156-WBD	156-WBD	312X060H	190-1535	8.468	156-WBD	156-WBD	312X060	190-1478
6.162	156-WBD	156-WBD	312X060H	192-1444	8.550	156-WBD	156-WBD	312X060	190-1425
6.168	156-WBD	156-WBD	312X060	190-1547	8.571	156-WBD	156-WBD	312X075	190-1527
6.188	156-WBD	156-WBD	312X060	190-1473U57	8.575	156-WB	156-WB	312X060	190-1408
6.248	156-WBD	156-WBD	312X060	190-1473	8.591	156-WBD	156-WBD	375X060H	192-1512
6.350	156-WBD	156-WBD	312X060H	192-1482U40	8.595	156-WBD	156-WBD	312X060H	192-1508
6.390	156-WBD	156-WBD	312X060H	192-1482	8.610	156-WBD	156-WBD	312X060	190-1425+60
6.610	156-WBD	156-WBD	312X060	190-1544	8.634	156-WBD	156-WBD	312X060	190-1526
6.650	156-WBD	156-WBD	312X060	190-1551	8.648	156-WBD	156-WBD	312X060	190-1396
6.721	156-WBD	156-WBD	344X060	190-1532	8.680	156-WBD	156-WBD	375X075H	192-1377
6.777	156-WBD	156-WBD	312X060	190-1507	8.686	156-WBD	156-WBD	312X060H	190-1433
6.792	156-WBD	156-WBD	312X075	190-1549	8.721	156-WBD	156-WBD	312X060H	190-1433+35
6.802	156-WB	156-WB	312X060	190-1502	8.723	187-WB	187-WB	312X060	190-1349
6.804	156-WBD	156-WBD	312X060H	192-1321	8.746	156-WBD	156-WBD	312X060H	190-1433+60
6.816	156-WBD	156-WBD	312X060H	192-1409U60	8.778	156-WBD	156-WBD	312X060	190-1269
6.876	156-WBD	156-WBD	312X060H	192-1409	8.828	187-WBD	187-WBD	375X075	190-1500
6.901	156-WBD	156-WBD	312X060	190-1525	8.880	156-WBD	156-WBD	312X060	190-1469
7.029	156-WBD	156-WBD	344X060	190-1533	8.975	156-WBD	156-WBD	312X060H	192-1453
7.137	156-WBD	156-WBD	312X060	190-1511	9.076	156-WBD	156-WBD	312X060H	192-1229U60
7.195	156-WBD	156-WBD	312X060H	192-1485	9.132	156-WBD	156-WBD	375X060H	192-1509
7.260	156-WBD	156-WBD	312X060	190-1467	9.136	156-WBD	156-WBD	312X060H	192-1229
7.397	156-WBD	156-WBD	312X075	190-1537	9.162	156-WBD	156-WBD	312X060H	192-1506
7.458	156-WBD	156-WBD	375X060H	192-1513	9.200	156-WBD	156-WBD	312X060H	192-1338
7.491	156-WB	PF-156	312X060	190-1342	9.252	156-WBD	156-WBD	375X075H	192-1336
7.500	156-WB	156-WB	312X060	190-1450	9.252	156-WBD	156-WBD	312X060H	192-1503
7.515	156-WBD	156-WBD	375X060	190-1539	9.315	156-WB	156-WB	312X060	190-1403
7.520	156-WBD	156-WBD	312X060	190-1536	9.355	187-WB	187-WB	312X060	190-1328
7.530	156-WB	156-WB	312X060	190-1450+15	9.378	156-WBD	156-WBD	312X060	190-1421
7.560	156-WB	156-WB	312X060	190-1450+45	9.390	187-WB	187-WB	312X060	190-1422
7.635	156-WBD	156-WBD	344X060	190-1427	9.440	156-WBD	156-WBD	312X060	190-1417U60
7.640	156-WBD	156-WBD	375X060H	192-1511	9.485	156-WBD	156-WBD	312X060	190-1455
7.642	156-WBD	156-WBD	312X060H	192-1507	9.500	156-WBD	156-WBD	312X060	190-1417
7.700	156-WBD	156-WBD	375X075H	192-1484	9.530	187-WBD	PF-156	312X060	190-1553
7.702	187-WBD	187-WBD	312X060	190-1489	9.540	156-WBD	156-WBD	312X075	190-1528
7.735	156-WBD	156-WBD	312X060H	192-1381	9.547	156-WBD	156-WBD	312X060	190-1384
7.770	156-WBD	156-WBD	312X060	190-1522	9.560	156-WBD	156-WBD	312X060	190-1417+60
7.798	156-WBD	156-WBD	312X060H	192-1331	9.560	187-WB	187-WB	312X060	190-1351U60
7.838	156-WBD	156-WBD	312X060	190-1545	9.590	187-WB	187-WB	312X060	190-1426
7.870	156-WBD	156-WBD	312X060	190-1552	9.594	156-WBD	156-WBD	312X060	190-1429
7.963	156-WBD	156-WBD	344X060H	192-1491	9.602	WB-180	PF-180	312X060	190-1222
8.021	WB-187	PF-180	312X060	190-1280	9.620	187-WB	187-WB	312X060	190-1351
8.045	156-WBD	156-WBD	312X060H	192-1446	9.622	156-WBD	156-WBD	312X060	190-1440
8.085	156-WBD	156-WBD	312X075	190-1550	9.643	156-WBD	156-WBD	375X075H	192-1378
8.092	156-WBD	156-WBD	312X060H	192-1439	9.650	156-WBD	156-WBD	312X060H	192-1442
8.122	WB-180	PF-180	312X060	190-1543	9.650	187-WB	187-WB	312X060	190-1426+60
8.152	156-WBD	156-WBD	312X060H	192-1399	9.680	187-WB	187-WB	312X060	190-1351+60
8.177	156-WBD	156-WBD	312X075H	192-1505	9.682	156-WBD	156-WBD	312X060H	192-1330
8.182	156-WBD	156-WBD	312X060	190-1443	9.700	156-WBD	156-WBD	312X060	190-1454
8.190	156-WBD	156-WBD	375X060H	192-1510	9.728	156-WBD	156-WBD	312X060	190-1529
8.230	156-WBD	156-WBD	312X060H	192-1339	9.740	156-WBD	156-WBD	312X060	190-1454+40
8.234	156-WBD	156-WBD	312X042	190-1411	9.779	WB-187	WB-187	375X060	190-1370
8.245	187-WBD	187-WBD	312X060	190-1438	9.795	187-WBD	187-WBD	344X060	190-1548
					9.975	WB-156	PM-180	312X060	190-1237

Pushrod Progressive Size Listing By Length

Length	Tip	Tip	Pushrod Dia.	SBI Part #	Length	Tip	Tip	Pushrod Dia.	SBI Part #
9.985	156-WBD	156-WBD	312X060	190-1449					
9.993	187-WBD	187-WBD	344X060	190-1531					
10.100	156-WBD	156-WBD	312X060H	192-1322U40					
10.136	156-WBD	156-WBD	312X060H	192-1322					
10.200	156-WBD	156-WBD	344X060	190-1385					
10.240	187-WBD	187-WBD	344X060	190-1538					
10.910	156-WB	LF-187	375X060	190-1530					
10.920	WB-172	PF-172	312X060	190-1513					
11.382	156-WBD	156-WBD	312X060H	192-1335					
11.450	195-WD	PF-187	375X075	190-1554					

Torque To Yield Head Bolts

SBI Part #	Qty.	Dia.	Length	Qty.	Dia.	Length	Qty.	Dia.	Length
220-1000	10	10mm	121mm						
220-1002	4	11mm	100mm	4	11mm	67mm			
220-1004	4	11mm	80mm	4	11mm	100mm			
220-1005	16	11mm	100mm						
220-1006	10	12mm	100mm						
220-1008	10	10mm	131mm						
220-1009	10	11mm	122mm						
220-1010	17	12mm	98mm						
220-1013	8 W/Washer	12mm	104mm	2 W/Washer	12mm	88mm			
220-1014	1	11mm	141mm	6 Stud/Bolt	11mm	166mm	3 Stud/Bolt	11mm	184mm
220-1015	8	11mm	100mm	1 Stud/Bolt	11mm	125mm	1 Stud/Bolt	11mm	100mm
220-1016	16	12mm	87mm						
220-1017	16	11mm	121mm						
220-1018	7	7/16 in	3.680 in	2	7/16 in	2.950 in	8	7/16 in	1.650 in
220-1019	8	11mm	93mm	8	11mm	70mm			
220-1021	16	12mm	102mm						
220-1023	10 W/Washer	11mm	211mm						
220-1024	8	11mm	58mm	4	11mm	81mm	4	11mm	112mm
220-1025	5	11mm	126mm	5 Stud/Bolt	11mm	94mm			
220-1026	10	10mm	102mm						
220-1028	10	11mm	104mm						
220-1030	8	11mm	188mm						
220-1031	8	11mm	108mm	7	11mm	91mm	1 Tapped Bolt	11mm	91mm
220-1033	1 Stud/Bolt	11mm	63mm	5	11mm	100mm	5	11mm	63mm
220-1035	5	10mm	90mm	5	10mm	108mm			
220-1043	10	11mm	104mm						
220-1046	10	10mm	96mm						
220-1047	12 W/Washer	11mm	191mm						
220-1048	16	11mm	96mm						
220-1050	5	9mm	84mm	5	9mm	98mm			
220-1052	16	11mm	115mm						
220-1059	10	9mm	98mm						
220-1060	10	10mm	95mm						
220-1071	12 W/Washer	11mm	211mm						
220-1072	4 W/Washer	11mm	109mm	6 W/Washer	11mm	155mm			
220-1074	4 W/Washer	11mm	163mm	6 W/Washer	11mm	208mm			
220-1075	6	1/2 in	3.750 in	4 Stud/Bolt	1/2 in	4.500 in			
220-1076	4	11mm	132mm	4	11mm	81mm			
220-1077	8 W/Washer	11mm	152mm						
220-1080	8	11mm	129mm						
220-1081	8	11mm	185mm	2	11mm	85mm			
220-1083	10 W/Washer	11mm	145mm						
220-1084	12	10mm	103mm	2	10mm	86mm	4	10mm	52mm
220-1085	8	11mm	108mm	8	11mm	91mm	1	11mm	91mm
220-1086	8 W/Washer	11mm	204mm						
220-1088	5	11mm	121mm	5 Stud/Bolt	11mm	120mm			
220-1091	7 Stud/Bolt	1/2 in	6.000 in	5	1/2 in	3.720 in	2 Bolt W/Pin	1/2 in	3.720
220-1092	8 W/Washer	11mm	104mm						
220-1093	8	7/16 in	2.300 in	8	7/16 in	3.200 in			
220-1094	8 W/Washer	10mm	154mm						
220-1095	16 W/Washers	11mm	121mm						
220-1096	16	10mm	127mm						
220-1097	16 W/Washers	11mm	173mm	8 W/Washers	8mm	31mm			
220-1098	20 W/Washers	11mm	173mm	8 W/Washers	8mm	31mm			
220-1099	18 W/Washers	12mm	121mm						
220-1100	10	11mm	164mm	4	8mm	60mm			
220-1101	14 W/Washers	11mm	140mm	1	6mm	89mm	2	6mm	30mm
220-1102	16	11mm	155mm	4	11mm	100mm	10	8mm	45mm
220-1103	20	11mm	100mm	10	8mm	45mm			
220-1104	10	11mm	94mm	4	11mm	75mm	12	11mm	41mm
220-1105	20 W/Washers	12mm	133.5mm	10 W/Washers	8mm	44.5mm			
220-1106	16	12mm	138mm	4	8mm	84mm			

Torque To Yield Head Bolts

SBI Part #	Qty.	Dia.	Length	Qty.	Dia.	Length	Qty.	Dia.	Length
220-1107	24	11mm	103mm	8	11mm	52mm			
220-1108	10 W/Washers	10mm	119mm						
220-1109	18	12mm	148mm						
220-1110	12 W/Washers	11mm	168mm						
220-1111	10	10mm	145mm						
220-1112	10	0.500	4.475	10	0.500	1.975			
220-1113	10	12mm	160mm						
220-1114	10 W/Washer	11mm	97.5mm						
220-1116	10 W/Washers	10mm	117mm						
220-1117	10 W/Washer	12mm	125mm						
220-1118	10	10mm	134mm						
220-1119	10 W/Washers	10mm	147mm						
220-1120	10	10mm	119mm						
220-1121	10	10mm	102mm						
220-1122	8	11mm	107mm	8	11mm	90mm			
220-1123	20	11mm	100mm	10	8mm	45mm			
220-1124	10 W/Washer	11mm	105mm						
220-1125	10	11mm	206mm						

Head Saver Shims Numerical Listing

SBI Part #	Description	SBI Part #	Description	SBI Part #	Description
230-2000	Steel - 0.020"	230-2086	Steel - 0.020"	230-2160	Steel - 0.020"
230-2001	Steel - 0.020"	230-2089	Steel - 0.020"	230-2161	Steel - 0.020"
230-2002	Steel - 0.020"	230-2094	Steel - 0.020"	230-2162L	Left, Steel - 0.020"
230-2003	Steel - 0.020"	230-2095	Steel - 0.020"	230-2162R	Right, Steel - 0.020"
230-2004	Steel - 0.020"	230-2097	Steel - 0.020"	230-2163	Steel - 0.020"
230-2005	Steel - 0.020"	230-2100	Steel - 0.020"	230-2164	Steel - 0.020"
230-2006	Steel - 0.020"	230-2104	Steel - 0.020"	230-2165	Steel - 0.020"
230-2007	Steel - 0.020"	230-2105	Steel - 0.020"	230-2166	Steel - 0.020"
230-2008L	Left, Steel - 0.020"	230-2107	Steel - 0.020"	230-2167	Steel - 0.020"
230-2008R	Right, Steel - 0.020"	230-2110	Steel - 0.020"	230-2168	Steel - 0.020"
230-2009	Steel - 0.020"	230-2114L	Left, Steel - 0.020"	230-2169	Steel - 0.020"
230-2011	Steel - 0.020"	230-2114R	Right, Steel - 0.020"	230-2170	Steel - 0.020"
230-2015	Steel - 0.020"	230-2115	Steel - 0.020"	230-2171	Steel - 0.020"
230-2016	Steel - 0.020"	230-2116	Steel - 0.020"	230-2172	Steel - 0.020"
230-2017	Steel - 0.020"	230-2117	Steel - 0.020"	230-2173	Steel - 0.020"
230-2018	Steel - 0.020"	230-2118L	Left, Steel - 0.020"	230-2174	Steel - 0.020"
230-2020	Steel - 0.020"	230-2118R	Right, Steel - 0.020"	230-2175	Steel - 0.020"
230-2021	Steel - 0.020"	230-2120	Steel - 0.020"	230-2176	Steel - 0.020"
230-2022	Steel - 0.020"	230-2121	Steel - 0.020"	230-2177	Steel - 0.020"
230-2024	Steel - 0.020"	230-2122	Steel - 0.020"	230-2178	Steel - 0.020"
230-2025	Steel - 0.020"	230-2123	Steel - 0.020"	230-2179L	Steel - 0.020"
230-2026L	Left, Steel - 0.020"	230-2124	Steel - 0.020"	230-2179R	Steel - 0.020"
230-2026R	Right, Steel - 0.020"	230-2125	Steel - 0.020"	230-2180	Steel - 0.020"
230-2028	Steel - 0.020"	230-2126L	Left, Steel - 0.020"	230-2181	Steel - 0.020"
230-2029	Steel - 0.020"	230-2126R	Right, Steel - 0.020"	230-2182	Steel - 0.020"
230-2030	Steel - 0.020"	230-2127L	Left, Steel - 0.020"	230-2183	Steel - 0.020"
230-2031	Steel - 0.020"	230-2127R	Right, Steel - 0.020"	230-2184	Steel - 0.020"
230-2032	Steel - 0.020"	230-2128	Steel - 0.020"	230-2185	Steel - 0.020"
230-2033	Steel - 0.020"	230-2129	Steel - 0.020"	230-2186	Steel - 0.020"
230-2037	Steel - 0.020"	230-2130L	Left, Steel - 0.020"	230-2187	Steel - 0.020"
230-2038	Steel - 0.020"	230-2130R	Right, Steel - 0.020"	230-2188	Steel - 0.020"
230-2039	Steel - 0.020"	230-2131	Steel - 0.020"	230-2189	Steel - 0.020"
230-2041	Steel - 0.020"	230-2132	Steel - 0.020"	230-2190	Steel - 0.020"
230-2042	Steel - 0.020"	230-2133	Steel - 0.020"	230-2191L	Steel - 0.020"
230-2045	Steel - 0.020"	230-2135	Steel - 0.020"	230-2191R	Steel - 0.020"
230-2047	Steel - 0.020"	230-2136	Steel - 0.020"	230-2192	Steel - 0.020"
230-2048	Steel - 0.020"	230-2137L	Left, Steel - 0.020"	230-2193	Steel - 0.020"
230-2049	Steel - 0.020"	230-2137R	Right, Steel - 0.020"	230-2194	Steel - 0.020"
230-2050	Steel - 0.020"	230-2138	Steel - 0.020"	230-2195L	Steel - 0.020"
230-2052L	Left, Steel - 0.020"	230-2139	Steel - 0.020"	230-2195R	Steel - 0.020"
230-2052R	Right, Steel - 0.020"	230-2140	Steel - 0.020"	230-2196	Steel - 0.020"
230-2053	Steel - 0.020"	230-2141	Steel - 0.020"	230-2197	Steel - 0.020"
230-2056	Steel - 0.020"	230-2142	Steel - 0.020"		
230-2058	Steel - 0.020"	230-2143	Steel - 0.020"		
230-2059	Steel - 0.020"	230-2144	Steel - 0.020"		
230-2060	Steel - 0.020"	230-2145	Steel - 0.020"		
230-2063	Steel - 0.020"	230-2146	Steel - 0.020"		
230-2065	Steel - 0.020"	230-2147	Steel - 0.020"		
230-2066	Steel - 0.020"	230-2148	Steel - 0.020"		
230-2067	Steel - 0.020"	230-2149	Steel - 0.020"		
230-2068	Steel - 0.020"	230-2150	Steel - 0.020"		
230-2069	Steel - 0.020"	230-2151	Steel - 0.020"		
230-2072L	Left, Steel - 0.020"	230-2152	Steel - 0.020"		
230-2072R	Right, Steel - 0.020"	230-2153	Steel - 0.020"		
230-2073	Steel - 0.020"	230-2154	Steel - 0.020"		
230-2080	Steel - 0.020"	230-2155	Steel - 0.020"		
230-2081	Steel - 0.020"	230-2156	Steel - 0.020"		
230-2082	Steel - 0.020"	230-2157	Steel - 0.020"		
230-2083	Steel - 0.020"	230-2158	Steel - 0.020"		
230-2085	Steel - 0.020"	230-2159	Steel - 0.020"		

Heat Tabs and Adhesive

SBI Part #	Application
231-1000	ADHESIVE / 3.0 oz Tube
231-1001	HEAT TAB / 250-255 Degrees
231-1002	HEAT TAB / 225-230 Degrees

Injector Tubes and Components

SBI Part #	Description	Material
240-1000	Water Director	Brass
240-1001	Water Director	Brass
240-1002	Injector Tube	Copper
240-1003	Injector Tube	Stainless Steel
240-1003R	O-Ring	Viton
240-1004	Injector Tube	Copper
240-1005	Injector Tube	Stainless Steel
240-1006	Injector Tube	Stainless Steel
240-1006RB	O-Ring	Viton
240-1006RM	O-Ring	Aflas
240-1006RT	O-Ring	Viton
240-1008	Injector Tube	Copper
240-1009	Injector Tube	Copper
240-1009R	O-Ring	Viton
240-1010	Injector Tube	Copper
240-1011	Injector Tube	Stainless Steel
240-1011R	O-Ring	Viton
240-1012	Injector Tube	Copper
240-1013	Injector Tube	Copper
240-1013R	O-Ring	Viton
240-1014	Water Director	Copper
240-1015	Water Director	Copper
240-1016	Water Director	Steel
240-1017	Injector Tube	Copper
240-1017R	O-Ring	Viton
240-1018	Injector Tube	Copper
240-1018R	O-Ring	Viton
240-1019	Injector Tube	Stainless Steel
240-1019R	O-Ring	Silicon
240-1020	Injector Tube	Cast Iron
240-1021	Injector Tube	Cast Iron
240-1023	Injector Tube	Cast Iron
240-1024	Injector Tube	Brass
240-1025	Injector Tube	Stainless Steel
240-1026	Injector Tube	Brass
240-1027	Injector Tube	Stainless Steel
240-1028	Injector Tube	Copper
240-1030	Injector Tube	Stainless Steel
240-1030CU	Injector Tube	Copper
240-1030R	O-Ring	Viton
240-1031	Injector Tube	Brass
240-1032	Injector Tube	Copper
240-1033	Injector Tube	Stainless Steel
240-1034	Injector Tube	Stainless Steel
240-1034GP	Glow Plug Sleeve	Stainless Steel
240-1035	Injector Tube	Stainless Steel
240-1035R	O-Ring	Aflas
240-1035SH+007	Injector Tube Shim, 0.007 Thick	Stainless Steel
240-1035SH+012	Injector Tube Shim, 0.012 Thick	Stainless Steel
240-1035SH+018	Injector Tube Shim, 0.018 Thick	Stainless Steel
240-1036	Injector Tube	Stainless Steel
240-1036RB	O-Ring	Aflas
240-1036RT	O-Ring	Viton
240-1037	Injector Tube	Stainless Steel
240-1037RB	O-Ring	EPDM
240-1037RT	O-Ring	Viton
240-1038	Injector Tube	Stainless Steel
240-1039	Injector Tube	Stainless Steel
240-1040	Injector Tube	Stainless Steel
240-1040RB	O-Ring	Nitrile
240-1040RT	O-Ring	Viton
240-1041	Injector Tube	Stainless Steel

Injector Tubes and Components

SBI Part #	Description	Material
240-1041RB	O-Ring	Aflas
240-1041RT	O-Ring	Viton
240-1042	Injector Tube	Stainless Steel
240-1043	Injector Tube	Stainless Steel
240-1044	Injector Tube	Stainless Steel
240-1045	Injector Tube	Stainless Steel
240-1045R	O-Ring	Aflas
240-1046	Injector Tube	Copper
240-1046R	O-Ring	Viton
240-1047	Injector Tube	Stainless Steel
240-1047R	O-Ring	Viton
240-1048	Injector Tube	Stainless Steel
240-1048RTR	Injector Tube Retaining Ring	Iron
240-1049	Injector Tube	Stainless Steel
240-1050	Injector Tube	Copper
240-1051	Injector Tube	Stainless Steel
240-1051R	O-Ring	Viton
240-1052	Injector Tube	Copper
240-1053	Injector Tube	Stainless Steel
240-1054	Injector Tube	Stainless Steel

Buyer's Guide

Make Code Abbreviations

Make	Make Code	Make	Make Code
ACURA PASSENGER CAR/TRUCK	ACU	LAND ROVER	LRV
ALLIS-CHALMERS	ALL	LEXUS PASSENGER CAR/TRUCK	LEX
AUDI PASSENGER CAR/TRUCK	AUD	MACK	MAC
BMW PASSENGER CAR/TRUCK	BMW	MASSEY FERGUSON	MFT
BUDA	BUD	MAZDA PASSENGER CAR/TRUCK	MAZ
CASE	CAS	MAZDA INDUSTRIAL	MAI
CATERPILLAR	CAT	MERCEDES BENZ PASSENGER CAR	MBZ
CHEVROLET BIG BLOCK PERFORMANCE	CBB	MERCEDES BENZ H.D.	MBD
CHEVROLET SMALL BLOCK PERFORMANCE	CSB	MERCEDES BENZ PASSENGER TRUCK	MBT
CHRYSLER PASSENGER CAR/TRUCK	CHR	MERCURY MARINE	MER
CHRYSLER INDUSTRIAL	CHI	MINI	MIC
CHRYSLER MARINE	CHM	MINNEAPOLIS MOLINE	MIN
CLIMAX	CLI	MITSUBISHI PASSENGER CAR/TRUCK	MIT
CONTINENTAL	CON	MITSUBISHI INDUSTRIAL	MII
CUMMINS	CUM	MWM	MWM
DAEWOO	DAE	NEW HOLLAND	NHL
DETROIT DIESEL	DET	NISSAN PASSENGER CAR/TRUCK	NIS
FIAT	FIA	NISSAN INDUSTRIAL	NII
FORD PASSENGER CAR	FOC	OLIVER	OLI
FORD INDUSTRIAL	FOI	OMC MARINE	OMC
FORD TRACTOR	FTR	PERKINS	PER
FORD TRUCK	FOT	REO	REO
GM INDUSTRIAL	GMI	SAAB	SAB
GM PASSENGER CAR	GMC	SCION	SCI
GM TRUCK	GMT	SHIBAURA	SHB
HARLEY DAVIDSON	HAR	STUDEBAKER	STU
HERCULES	HER	SUBARU	SUB
HINO	HIN	SUPERIOR	SUP
HONDA PASSENGER CAR/TRUCK	HON	SUZUKI PASSENGER CAR/TRUCK	SUZ
HYUNDAI	HYU	THERMO KING	THE
I.H.C. TRACTOR	IHC	TOYOTA PASSENGER CAR/TRUCK	TOY
I.H.C. NAVISTAR	IHN	TOYOTA INDUSTRIAL	TOI
INFINITI PASSENGER CAR/TRUCK	INF	VOLKSWAGEN PASSENGER CAR/TRUCK	VKW
ISUZU PASSENGER CAR/TRUCK	ISU	VOLVO PASSENGER CAR/TRUCK	VOL
ISUZU INDUSTRIAL	ISI	VOLVO HEAVY DUTY	VHD
JAGUAR	JAG	VOLVO INDUSTRIAL	VOI
JOHN DEERE	JON	WAUKESHA	WAU
KIA PASSENGER CAR/TRUCK	KIA	WISCONSIN	WIS
KOMATSU	KOM	WITTE	WIT
KUBOTA	KUB	YANMAR	YAN

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140-1337	CHI 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 28, CHM 6, 7, CHR 72, 78, 81, 82, 88, 90	140-1810	MAC 4, 7, 8	140-1962	CON 7, 16, 23, 33, 34, 56
140-1338	CHI 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 28, CHM 7, CHR 72, 78, 81, 82, 88, 90	140-1813	CAS 22	140-1965	WAU 3
140-1342	CHR 26, 27	140-1814	CAS 22	140-1966	FOI 3, 5, FTR 14
140-1411	GMC 163	140-1817	CHR 132, IHN 46, 47, 66, 74, 75, 80, 81	140-1968	IHC 45
140-1421	ALL 13, 15, 16	140-1821	GMC 157, 182, 193	140-1969	CUM 38, 39, 43, 44, 45, 57, KOM 18, 26
140-1453	GMC 106, GMT 41	140-1823	CUM 5, 6, 7, 15, 18, 19, 20, 21, 22, 23	140-1970	CON 38, 39
140-1458	CAS 3	140-1829	CAS 20, 23, 25, 31, 33, 34, 35, 36, GMC 193	140-1972	GMC 194, 195, 196, 203, 209, 210, 216, MER 12, 14
140-1470	CON 41	140-1830	CAS 24, 30, 32	140-1973	GMC 194, 195, 196, 203, 209, 210, 216, MER 12, 14
140-1476	GMC 106, GMT 41	140-1832	DET 1, 6	140-1974	MIN 1
140-1503	STU 1	140-1833	CAS 7, CON 35, MFT 11	140-1976	MFT 19, PER 24
140-1504	CHR 26	140-1839	CHI 40, 41, 42, 44, 49, 50, CHM 20, CHR 118	140-1977	MFT 19, PER 24
140-1515	CAS 16, CHR 77, CON 36, 37, 44, 45, 46, 47	140-1840	CHI 40, 41, 42, 44, 49, 50, CHM 20, CHR 118	140-3000	NII 6, 10
140-1527	GMC 106, 124, GMT 41, 50, 57	140-1840	CHI 40, 41, 42, 44, 49, 50, CHM 20, CHR 118	140-3001	NII 6, 10
140-1543	IHC 2, 3	140-1851	ALL 10, 12, 18, 22, 23, BUD 1, 2, 20, 23	140-3006	IHC 52, IHN 55, 67, 77
140-1544	IHC 6, 10	140-1852	ALL 10, 12, 18, 22, 23, BUD 1, 2, 20, 23	140-3007	CAT 78, 80, 81, 82, 85, 87, 92, 95, 100
140-1545N	IHC 6, 10, 12, 13	140-1853	ALL 13, 15, 16	140-3008	CUM 35, 36, 37, 42
140-1546	IHC 23, 26, 29	140-1854	ALL 1, 2, 3, 4, 5, 6, 7, 8, 11	140-3009	GMC 52, GMT 13, ISU 13
140-1547N	IHC 23, 25, 26, 29	140-1857	JON 49	140-3010	DAE 2, 3, GMC 47, 81, 94, GMT 30, ISU 12, SAB 8, 10, 11, SUZ 11
140-1568	HER 1	140-1858	JON 5	140-3011	DAE 2, 3, GMC 47, 81, 94, GMT 30, ISU 12, SAB 8, 10, 11, SUZ 11
140-1577	CAS 6	140-1859	JON 6	140-3012	FOC 16
140-1578	IHC 38	140-1860	JON 7, 22	140-3014	CAT 76, 77, 84, 94
140-1579	IHC 27	140-1865	CAS 23, 25, 31, 33, 34, 35, 36	140-3015	GMC 136, GMT 58, 59, 60
140-1592	WAU 5, 6	140-1872	CAS 2, 4, 8, 9, 10, 11	140-3016	GMC 136, GMT 58, 59, 60
140-1593	WAU 5	140-1873	CAS 10, 13, 14	140-3019	CHR 55
140-1600	JON 29	140-1874	CAS 12, 13, 14, 15	140-3020	GMC 41
140-1614	FOC 56, FOT 38, FTR 1, 2, 3	140-1875	CAS 12, 15	140-3021	CHR 110, CUM 11, 12
140-1618	HER 4	140-1878	GMC 157, 182, 193	140-3022	CHR 110, CUM 11, 12
140-1619	CON 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14	140-1880	GMC 104	140-3023	CHR 70, 80
140-1620	CAS 1, CON 17, 18, 19, 20, 24, 25, 26, 27, 29, 30, 31, 32, 50, 51, 52, 53	140-1881	IHC 11, 15, 20, 31, 34, IHN 27	140-3024	GMT 131, MER 13
140-1636	IHC 1	140-1888	CAT 33, 34, 51, 52	140-3025	GMT 131, MER 13
140-1644	JON 50	140-1896	JON 15	140-3026	CHR 76, 95, MIT 37, 39
140-1673	CAS 2, 4, 5, 8, 9, 11	140-1897	JON 30, 35, 48, 52, 53	140-3027	JON 76
140-1678	CON 1	140-1898	JON 40, 41, 42, 57, 59, 60, 61	140-3028	FOC 41, JAG 1
140-1680	DET 2	140-1899	JON 15	140-3029	GMC 48, 49, 53, 54, 55, 61, 62, 63, 65, 66, GMT 14, 15, 16, 17, 18, SAB 4
140-1689	STU 2	140-1906N	CAT 30, 31, 35, 36, 50, 53	140-3031	CHR 107
140-1690	STU 2	140-1907	WIS 3	140-3032	CHR 107
140-1697	HER 3	140-1908	WIS 6	140-3033	CHR 110, 127, CUM 4, 11, 12, 16
140-1703	BUD 6, 7, 8, 9, 10, 11, 12, 17, 19, 21, 25, 26, 27, 28, 34	140-1909	WIS 1, 2, 4, 5	140-3034	CHR 110, 127, CUM 4, 11, 12, 16
140-1704	CHR 27	140-1914	MIN 2, 3, 4, 6, 8	140-3035	CAT 103, 105, 112, 114, 118, 120, 122, 124, 125
140-1711	CAT 33, 34, 51, 52	140-1919	CHR 87, 94, 104	140-3036	CAT 103, 105, 112, 114, 118, 120, 122, 124, 125
140-1717	CON 15, 21, 22, 28, MFT 2, 3, 4, 5	140-1923	OLI 3	140-3037	CAT 43, 44, 63, 65
140-1723	WIS 1, 2, 3, 4, 5	140-1924	OLI 3	140-3038	CAT 48, 49
140-1726	FOI 1, 2, 3, 4, FTR 4, 5, 6, 11, 12, 13, 14	140-1927	OLI 2	140-3039	CAT 48, 49
140-1732	GMC 106, 124, GMT 41, 50, 57	140-1932	JON 58	140-3042	CAT 104, 113, 119, 126
140-1733	GMC 197, 202	140-1937	GMC 197, 202	140-3043	MAC 13
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140-1745	GMC 179, 192, 213	140-1941SA	CUM 34, 46, 50, 51	140-3047	FOC 69, FOT 49, 65, 88
140-1747	IHC 9, 12, 13, 16, 18, 24, 30, 32, 33, IHN 3, 4, 5, 12, 13, 14, 20, 21	140-1943	ALL 9, 17, 21, BUD 3, 4, 22, 24	140-3048	FOC 43, FOT 25, MAZ 50
140-1803	CHR 108, 123, GMT 54	140-1944	ALL 9, 17, 21, BUD 3, 4, 22, 24	140-3049	GMT 120
140-1804	IHC 2, 3, 4, 5, 7	140-1946	DET 6, 18	140-3050	JON 77, 78, 79
140-1809	MAC 6, 7, 8, 9	140-1947	WAU 1	140-3051	CAT 75, 79, 83, 86, 93, 96
		140-1952	WAU 2	140-3052	CAT 75, 79, 83, 86, 93, 96
		140-1953	OLI 1, WAU 2		
		140-1954	OLI 1		
		140-1956	MFT 1, 6, 8, 9, 10, 13, 14, PER 2, 3, 7, 8, 10, 11, 17, 18, 35		
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140-3053	GMC 101, 102, 125, 126, 127, 128, 156, 170, 171, 176, 177, 178, 183, 184, 185, 186, 187, 188, GMT 40, 51, 52, 68, 69, 70, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 96, 97, 98, 99, 100, 101, 103, 104, 107, 108, 109, ISU 33, 34, SAB 13, 14	140-3097	CAT 15, 16, 27, MII 9, 11	140-3164	CAT 17, 26, 42
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140-3054	GMT 66, ISI 3, 6, ISU 31, 36	140-3100	MFT 8, 9, 13, 14, PER 10, 11, 17, 18	140-3168	MIC 1, 2
140-3055	FOT 76, 82, IHN 25, 41, 44	140-3101	GMT 75, 127, ISI 4, 8, ISU 32, 37	140-3169BR	MIC 2, 4, 5
140-3056	GMC 143, 144, 145, GMT 64	140-3102	MII 7, 10	140-3170	FOC 49, 50, FOT 30, 31, 33, 34
140-3057	GMC 143, 144, 145, GMT 64	140-3103	KUB 4	140-3174	CAT 79
140-3058	CAT 55, 69, 71	140-3104	KUB 4	140-3175	MBD 6, 7
140-3059	CAT 14, 20, 21, 24, 25, 37, MFT 12, 21, 26, 34, 39, PER 15, 16, 25, 30, 31, 32, 33, 34, 44, 47	140-3105	CAT 13, PER 12, 13, 14	140-3176	DET 5, 7, 8, 9, MBD 1, 2, 4, 5
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230-2192	CHR 47	240-1035SH+012	DET 15		
230-2193	NII 7, 11	240-1035SH+018	DET 15		
230-2194	SAB 7, SUB 18, 19	240-1036	CAT 48, 49, 55		
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122-1489	JON 47, 67	00343	CON 21, 22, 28, MFT 3, 4, 5	00637	FOC 82, 85, 88, 89, FOT 72, 74, 80
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00159	MIN 2, 3, 4, 5, 6, 8	00503	IHC 3, 4, 5, 7	00752S	CAT 90, 91, 101, 102, 110, 111, 116, 117
00160	MIN 2, 3, 4, 5, 6, 8	00504	IHC 3, 4, 5, 7	00753S	CAT 30, 32, 35, 36, 53, 54
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00162	IHC 2	00518	CHI 33, 37, CHM 13, CHR 93, 97, 100, 101, 103	00755	CAT 30, 31, 32, 35, 36, 50, 53, 54
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00196	CAS 1, 16, CON 17, 18, 19, 20, 24, 25, 26, 27, 29, 30, 31, 32, 36, 37, 44, 45, 46, 47, 50, 51, 52			00852S	CAT 72, 89, 97, 98, 108, 109
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00204	IHC 23, 26			00873	MFT 6, 7, 8, 9, 10, 13, 14, PER 7, 8, 9, 10, 11, 17, 18, 35
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00917SN	FOI 15, 19, 20, 22, FOT 61, 73, 75, 79, 81	01133S	IHC 45, IHN 2, 43	01238	FOC 79, MER 11, OMC 8
00918	FOI 15, 19, 20	01135	FOC 62, 72, 73, 79, FOT 43, 58, 59, 68, 70, OMC 5	01241SN	GMT 105, 106, 121, 122, 125
00919	GMC 150, 159, 166, 201, MER 2, OMC 2	01135S	FOC 62, FOT 43, 58, 59, 68, OMC 5	01242	FOC 78, 82, 84, 85, 87, 88, 89, FOT 72, 74, 80
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00922	IHC 20, 31, 34	01145S	CAT 73, 74, 88, 99, 107	01247	GMC 219
00923	IHC 43, 44, 46, 47, IHN 53, 54	01146S	CAT 73, 74, 88, 99, 107	01257	CHR 111, 126, IHN 45
00924	IHC 43, 44, 46, 47, IHN 53, 54	01147	CON 23, 33, 53, 56	01258	CHR 111, 126, IHN 45
00938	CHI 32, 34, CHM 12, CHR 83, 84, 92, 100, 101, 102	01148	CON 23, 33, 53, 56	01260	CHR 79, 89, 98, IHC 19, IHN 9, 17
00947	FOC 70, FOT 51	01152	IHC 45, IHN 2, 43	01261S	GMT 124, 126, MER 12, 14
00949	FOI 16, 17, 22, FOT 62	01156	CHI 52, CHR 113, 121, 125, 130, 131	01263	GMC 168
00958	GMC 191, 206	01160	GMC 165, 199, 219	01265	CHI 1, 3, 10, 11, CHM 1, 2, CHR 56, 68, 74
00963	FOC 58, FOI 9, 14, FOT 40, 54	01161	GMC 165, 199, 219	01266	FOC 37, 48, 61, FOI 6, 7, FOT 21, 27, 28
00969	GMC 161, 168	01164	GMC 195, 209, 216, GMT 131, MER 12, 13, 14	01268	FOC 37, 48, 61, FOI 6, 7, FOT 21, 27, 28
00970	GMC 161, 168	01169	FOC 80, 81, 86, FOT 69, 83	01271	FOC 90, 91, FOI 23, FOT 96, MER 3
00974	GMC 168, 198, 200, 207, 217	01170	FOC 80, 81, 86, FOT 69, 83	01272	FOC 90, 91, FOI 23, FOT 96, MER 3
00975	CHR 75, GMC 114	01171	FOC 80	01273	CHR 100, 101, 105, 113, 114, 115, 116
00976	CHR 75, GMC 114, 147, 162	01172	FOC 80	01285	FOC 35, 38, FOT 22
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00988	GMC 150, 159, 166	01180	CHR 100, 101, 114, 115	01292	GMC 208, 220, 221
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01358	FOC 58, FOI 9, 14, FOT 40, 54	01457	GMC 168, 198, 200, 204, 207, 217	01555	CHR 29, 51
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01735	GMC 122, 123	01887	CAT 18, 19, 38, 39, MFT 19, 22, 23, 35, 36, PER 24, 26, 27, 39, 40, 45, 46	02006	FOC 13, 18, 26, 30, 31, 32, FOT 4, 11, 12, 15, 16, 17, MAZ 26, 27, 28, 34, 37, 41, 42
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01741	CHR 19	01902	GMC 52, GMT 13, ISU 13	02009	CHR 44, 45
01742	CHR 19	01903	GMC 52, GMT 13, ISU 13	02010	GMC 53, 54, 55, 61, 62, 63, 64, 65, 66, GMT 14, 15, 16, 17, 18
01743	FOT 10, 19, MAZ 36, 38	01904	CHR 70, 80	02010S	GMC 53, 61, GMT 14
01744	FOT 10, 19, MAZ 36, 38	01905	CHR 70, 80	02014	CHR 110, 127, CUM 4, 11, 12, 16
01745	FOC 11, FOT 3, MAZ 20	01910S	MAC 13	02014R	CHR 110, 127
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01750	MAC 5, 12	01912	CAT 78, 80, 81, 82, 85, 87, 92, 95, 100	02034	CHR 46
01754	FOT 94, IHN 60	01913	FOC 60, FOT 42, LRV 2, MAZ 54	02035	CHR 46
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02040S	DAE 2, 3, GMC 47, 81, 94, GMT 30, ISU 12, SAB 8, 10, 11, SUZ 11	02248S	GMC 22	10129	CHR 10, 11, MII 1, 2, MIT 7
02044	FOC 16	02249	DAE 1	10137	TOY 9
02045	GMT 97	02250S	DAE 1	10138	TOY 9
02046	FOC 43, FOT 25, MAZ 50	02254	CUM 28, 29	10141	CHR 22, 23, MII 3, 4, MIT 9, 10, 12, 13
02047	FOC 43, FOT 25, MAZ 50	02254S	CUM 28, 29	10142	CHR 22, 23, MII 3, 4, MIT 9, 10, 12, 13
02053	GMC 103, 141, 143, 144, 145, GMT 64	02255	CUM 28, 29	10143	CHR 32, HYU 18, MII 4, 5, MIT 22, 24
02054	GMC 103, 129	02255S	CUM 28, 29	10144	CHR 32, HYU 18, MII 4, 5, MIT 22, 24
02057	GMC 79, 87, 88, 89	02257	CUM 10, KOM 17	10145	CHR 52, 53, MAZ 44, MII 6, MIT 28, 29
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02101	GMT 131, MER 13	02261	CAT 55	10148	CHR 58, HYU 26, MIT 30
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02118	FOC 69, FOT 49, 65, 88	02263S	CUM 41, 52, 53, 54	10157	FOC 2, 3, KIA 7, MAZ 9, 11
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SB2368E-3N	CAT 103, 105, 112, 114, 118, 120				
SB2375-2	BUD 34, IHN 37, 38, 39, 40, 48, 49, 50				
SB2381E-1	CUM 55				
SB2381E-1C	CUM 55				
SB2381E-2	CUM 55				
SB2381E-2C	CUM 55				

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ACURA	2114117	01701	22869A	180-1040	251612015	00399+15	
12204PJ7305	140-8158	2114118	02046	22870A	180-1041	251717	01268
12204PNA305	140-3136	2114119	01790	22873	180-1037	251719	00963
12205PJ7305	140-8157	2114121	02054	231008	180-1012	251722	00938
12205PNA305	140-3137	2114122	01901	23881	181-1016	251722015	00938+15
12210PZ1004	122-1201	2114125	01934	23882	181-1059	251729015	01120+15
12211PZ1004	122-1202	2114148	02008	23894	181-1017	251745	00975
14711P0HA00	10541	2114149	02009	23904	181-1008	251754	01087
14711P8EA00	10778	2114150	01992	23949	181-1060	251756	00988
14711R44A00	13358	2114151	01991	241435	160-1041	251773	00969
14711RYEA00	13336	2114152	01994	241445	160-1106	251775	01457
14721P75000	10196	2114153	01993	241446	160-1216	251785	01001
14721P8EA00	10779	2114155	01945	241457	160-1069	251798	01082
14721PV4000	10546	2114168	01234	241458	160-1199	251800	01105
14721R44A00	13359	2114169	01233	241461	160-1079	251826	01098
14781PL2004	121-1054	2114179	02126S	241462	160-1072	251850	01103
14781PR7A01	121-1060	2114180	01999	241550	160-1112	251880	01172
14781PRBA02	121-1060	2114181	01998	241552	160-1103	251907	01186
8971319610	10739	2114182	02014	24446	160-1118	251912	01107
8971319620	10740	2114183	02015	24471	160-1120	251920	01216
		2114262	13073	24485	160-1121	251926	01195
		2114263	13074	24510	160-1122	251927	01193
		212113234	01807	24521	160-1125	251928	01194
		212114007	01811	24534	160-1126	251932	01137
		212114122	01901	24591	160-1128	251964	01296
		2121460	160-1464	24624	160-1131	251981	01260
		2121461	160-1575	24644	160-1133	251993	01285
		213022	190-1221	24648	160-1135	252045	01328
		213023	190-1351	24653	160-1148	252075	01170
		213028	192-1229	24666	160-1140	252077	01362
		213036	190-1237	24671	160-1141	252103	10031
		213076	190-1280	24673	160-1143	252105	10015
		213093	192-1331	24677	160-1144	252117	01388
		213103	192-1336	24690	160-1156	252143	01393
		213105	192-1378	24704	160-1005	252167X	10037
		213106	192-1377	24718	160-1004	252168	10048
		213112	190-1328	24721	160-1006	252170	01598
		213160	190-1425	24726	160-1008	252181	10087
		213165	192-1321	24727	160-1009	252187	10061
		213166	192-1399	24733	160-1024	252196	01450
		213167	192-1321	24743	160-1023	252202	01452
		213172	190-1426	24753	160-1014	252204	01813
		213172A	190-1426+60	24754	160-1013	252232	01470
		213173	190-1349	24755	160-1019	252239	10076
		213174	190-1411	24760	160-1016	252242	10078
		213176	190-1327	24761	160-1029	252250	10268
		213178	190-1385	24762	160-1028	252256	10107
		213180	192-1330	24767	160-1031	252264	10328A
		213181	192-1338	24786	160-1038	252269	10214
		213182	192-1339	24788	160-1025	252287	01484
		213183	192-1322	24799	160-1049	252291	01481
		213184	190-1395	24832	160-1053	252300	01528
		213185	190-1396	24847	160-1012	252316	10255
		213186	190-1417	24848	160-1097	252322	10281
		213187	192-1409	24849	160-1096	252337	01015
		213191	190-1408	24850	160-1095	252344	10236
		213193	190-1403	24857	160-1033	252345	10237
		213194	190-1450	24867	160-1055	252352	10307
		213197	190-1384	24876	160-1052	252365	01505
		213198	190-1422	24907	160-1086	252404	10367
		213203	192-1378	24917	160-1172	252412	10348
		213204	192-1377	24919	160-1054	252416	10406
		213205	190-1438	24926	160-1075	252428	01553
		213206	192-1446	251060	00302	252434	01555
		213207	192-1444	251076	00308	252439	01273
		213209	190-1443	251115	00373	252443	01569
		213232	190-1489	251128	00376	252448	01536
		213233	190-1435	251285	00494	252497	10322
		213241	190-1473	251386	00548	252501	10310
		213263	192-1480	251428	00585	252502X	10337
		213279	190-1509	251434	00567	252505	10309
		213282	192-1484	251434015	00567+15	252530	01592
		213285	190-1433	251537	00627	252532	10117
		2154250	190-1507	251599	00637	252548	10195
		2167099	220-1023	251599015	00637+15	252554	10385
		22810	180-1007	251612	00696	252557	01671
AE CLEVITE							
2111752	00759						
2111935	01358						
2112582	10276S						
2112655	10215S						
2113216	01715						
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2114020	01736						
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AE CLEVITE (Cont'd)							
252560	10190	262182	10064	27137556	SB1375-56	27181254	SB1812-54
252563	10624	262201	01451	2714371	SB1437-1	27181255	SB1812-55
252566	10197A	262203	01814	2714371N	SB1437-1N	2718125N	SB1812-5N
252572	10270	2622231	01469	2714372	SB1437-2	2718150	SB1815E-1
252574	10314	262238	10083	2714372N	SB1437-2N	2718221N	SB1812-21N
252575	10315	262249	10269	2714373	SB1437-3	2718751	SB1875-1
252580	10273	262255	10106	2714373N	SB1437-3N	2718751N	SB1875-1N
252582	10137	262263	10330A	2714374	SB1437-4	27187550	SB1875-50
252585	10305	262265	10060S	27143759	SB1437-59	27187551	SB1875-51
252587X	10339SA	262268	10217	27143766	SB1437-66	2718756	SB1875-6
252588X	10473	262282X	01483S	27143767	SB1437-67	2719371	SB1937-1
252608	10118	262290	01480	2715002	SB1500-2	27193751	SB1937-51
252611	01673	262299	01527	27150050	SB1500-50	27193752	SB1937-52
252613	01726	262325	10256	27150054	SB1500-54	2720001	SB2000-1
252615	10162	262326	10271	27150062	SB1500-62	2720621	SB2062-1
252616	10218	262330	10282	27150063	SB1500-63	2721251	SB2125-1
252620	10421	262334X	10102S	27150071	SB1500-71	2721252	SB2125-2
252626	10122	262336	10105	2715160	SB1516E-1	2722501	SB2250-1
252630	10172	262355	10308	2715621	SB1562-1	28130	140-1342
252632	10219	262366X	10193	2715622	SB1562-2	28326	140-1421
252643	10224	262403X	10367	2715622N	SB1562-2N	28336	140-1515
252647	10226	262411X	10349S	2715623	SB1562-3	28338	140-1504
252649	01736	262414X	10407S	27156236	SB1562-36	28350	140-1527
252652	10126A	262442	01568	2715625	SB1562-5	28419	140-1337
252659	10498	262449X	01646S	27156250	SB1562-50	28420	140-1338
252661	10143	262477R	01769R	27156251	SB1562-51	28428	140-1614
253919	10207	262496	10323	27156254	SB1562-54	28460	140-1704
253927	01200	262498	10177	27156266	SB1562-66	28473	140-1732
253928	10192	262500	10311	27156267	SB1562-67	285044	140-9205
253929	01272	262529	01591	27156269	SB1562-69	285045	140-9206
253936	10103	262533	10116	27156272	SB1562-72	28549	140-1839
253946	10176	262547	10196	2715629	SB1562-9	28550	140-1840
253954	01714	262553	10386	271624E1N	SB1624E-1N	28623	140-1919
253956	01699	262558	01670	27162511	SB1625-11	28628	140-1733
254022	10275	262559	10413	2716251N	SB1625-1N	28634	140-1937
261127	00375	262561	10191	2716252N	SB1625-2N	28675	140-7529
261351	00185	262565X	10198A	2716254	SB1625-4	28684	140-7498
261439	00564	262581X	10274S	2716254N	SB1625-4N	28688	140-1972
261710	00742	262583	10138	2716255	SB1625-5	28689	140-1973
261755	00919	262586	10340A	27162552	SB1625-52	28691	140-7542
261768X	00917SN	262589X	10474	27162556	SB1625-56	28697	140-7714
261770	00970	262607	10153	27162558	SB1625-58	28698	140-7713
261784	01000	262612	01727	271630E1N	SB1630E-1N	28700	140-7662
261799	01189	262614	10163	2716400	SB1640E-1	28701	140-7661
261849	01102	262619	10420	2716690	SB1669E-1	28705	140-7359
261853	01242	262627	10123	2716871	SB1687-1	28706	140-7523
261879	01171	262631	10173S	27168715	SB1687-15	28709	140-7577
261893	01237	262634X	10220S	27168716	SB1687-16	28710	140-7576
261900	01156	262638	10414	2716871N	SB1687-1N	28711	140-8143
261904	01192	262640	10206	2716872	SB1687-2	28713	140-9557
261911	01106	262641X	10306S	2716874N	SB1687-4N	28714	140-7575
261940	01199	262646X	10227S	27168754	SB1687-54	28715	140-7576
261961	01135	262648	01737	27168755	SB1687-55	28721	140-7589
261963	01245	262653	10128A	27168756	SB1687-56	28724	140-7828
261983	01266	262656	01698	2716876	SB1687-6	28729	140-7395
261984	01271	262660	10144	2716878	SB1687-8	28731	140-8021
261989X	01261S	263931	00976	2716879	SB1687-9	28734	140-7499
261992	01300	263937	01504	271744E1N	SB1744E-1N	28737	140-7822
261998	01744	263940	01554	2717501N	SB1750-1N	28741	140-7825
262030	01169	263943	01597	2717503	SB1750-3	28743	140-7826
262032	01320	263949	10116	2717503N	SB1750-3N	28746	140-7830
262040	01358	263957	01535	2717504	SB1750-4	28747	140-7659
262044	01327	264165X	10215S	2717504N	SB1750-4N	28748	140-7710
262061	01354	264185X	10276S	27175051	SB1750-51	28752	140-8018
262076	01361	27106250	SB1062-50	27175061	SB1750-61	28757008	140-7873
262102	10033S	27112551	SB1125-51	27175068	SB1750-68	28758008	140-7873
262104X	10036S	27118752	SB1187-52	271781E1N	SB1781E-1N	28788	140-8201
262116	01387	27118753	SB1187-53	2718121	SB1812-1	28789	140-8202
262133	01381	27125052	SB1250-52	2718121N	SB1812-1N	28790	140-8208
262135X	01383SN	27125054	SB1250-54	2718122	SB1812-2	28791	140-8038
262153	01312S	27131252	SB1312-52	2718124	SB1812-4	28792	140-8147
262169	01397	27131253	SB1312-53	2718124N	SB1812-4N	28796	140-8233
262172	01394	27131259	SB1312-59	2718125	SB1812-5	28797	140-8157
262180	10086	2713751N	SB1375-1N	27181250	SB1812-50	28803	140-8158
		27137550	SB1375-50	27181251	SB1812-51	28809	140-8273
		27137551	SB1375-51	27181253	SB1812-53	28812	140-8211

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AE CLEVITE (Cont'd)						AJUSA	
28814	140-8156	E1420S	01420S	1883	00883	81013400	220-1043
28815	140-8155	E1422S	01422S	M2070	VL81	81013500	220-1060
28816	140-8324	E1455	01455	M892	VL21	81013700	220-1048
28817	140-8016	E1468S	01468S	VG284	140-1680	81013900	220-1047
28822	140-8218	E1476S	01476S	VG377	140-1711	81014000	220-1046
28823	140-8212	E1489S	01761S	VG43	140-1337	81014400	220-1035
28823	140-8213	E1497S	01497S	VG442	140-1809	81014700	220-1050
28824	140-8216	E1500	01500	VG447	140-1823	81014800	220-1052
28825	140-8217	E1511	01511	VG457	140-1832	81015400	220-1028
28828	140-8204	E1512	01512	VG613	140-6254	81017500	220-1124
28886	140-8209	E1525S	01525S	VG614	140-1881	81019300	220-1108
28903	140-8194	E1531	01531	VG642	140-1888	81023000	220-1059
28904	140-8193	E1542	01542	VG650	140-1906N	81024200	220-1072
28910	140-8219	E1658S	01658S	VG652	140-1898	81029800	220-1114
28911	140-9557	E1662S	01662S	VG656	140-1977	81031300	220-1117
28917	140-8291	E1664	01664	VG657	140-1976	81056200	220-1106
28927	140-8142	E1666	01666	VG663	140-6469	85004800	VL524
295002T	140-9259	E319	00319	VG664	140-6470	85004900	VL523
295004T	140-9116	E326S	00326S	VG666	140-1969	85007700	VL124
295005T	140-9607	E327	00327	VG667	140-1947		
295006T	140-9606	E554	00554	VG668	140-7994		
295007T	140-9298	E574S	00574S	VG670	140-1944		
295009T	140-9869	E602N	00602	VG671	140-1943		
295016T	140-9198	E702	00702	VG694	140-1957		
311009	180-1059	E702S	00702S	VG705	140-1946		
32628	186-1035	E733	00819S	VG706	140-1973		
34115	121-1021	E751S	00751S	VG707	140-1972		
34144	121-1011	E753S	00753S	VG710	140-1840		
34157S	161-1012	E754	00754	VG711	140-5607		
34165	121-1019	E759	00759	VG712	140-5606		
34174	121-1014	E819S	00819S	VG714	140-7298		
341751	184-1038	E989	00989	VG715	140-6110		
341823	184-1039	EHT2148	VL115	VG717	140-6116		
341847	184-1035	GS33504	220-1099	VG718	140-6115		
34204	121-1024	H2012	VL83	VG719	140-7259		
34208	121-1026	H2056	VL109	VG720	140-6106		
34210	121-1023	H2083	VL9	VG721	140-6867		
34213	121-1034	H2095	VL94	VG723	140-1968		
34215	121-1047	H2102	VL86	VG724	140-7876		
34224	121-1020	H2201	VL114	VG725	140-7194		
34225	121-1052	H2270	VL138	VG730	140-8420		
34228	121-1054	H6000	VL141	VG731	140-7255		
34230	121-1031	H817	VL37	VG733	140-6881		
34232	121-1039	H900	VL35	VG735	140-7216		
34235	121-1054	H951	VL49	VG736	140-7444		
34242	121-1058	I1036S	01036S	VG737	140-6730		
34243	121-1059	I1073	01073	VG738	140-7431		
34245	121-1060	I1146S	01146S	VG739	140-7689		
34247	121-1048	I1204	01204	VG739	140-7712		
34248	121-1061	I1234	01234	VG740	140-7074H		
34249	121-1062	I1314S	01314S	VG741	140-7073		
34251	121-1064	I1336S	01336S	VG742	140-7248		
3463	121-1001	I1379	01379	VG743	140-8004		
821042	220-1015	I1403	01403	VG744	140-7373		
821048	220-1016	I1409	01409	VG745	140-7448		
821050	220-1009	I1415S	01415S	VG746	140-7447		
821054	220-1018	I1423	01423	VG767	140-1976		
821057	220-1005	I1456	01456	VK117	121-1003		
821058	220-1006	I1461S	01461S	VK135	121-1030		
821062	220-1017	I1462S	01462S	VK142	121-1006		
821065	220-1002	I1490S	01760S	VK149	121-1011		
E1018	01018	I1523S	01523S	VK201	121-1007		
E1037	01037	I1524	01524	VK80	121-1000		
E1145S	01145S	I1526	01526	VS1036	160-1178		
E1203	01203	I1532	01532	VS1041	160-1184		
E1205S	01205S	I1543	01543	VS1045	160-1219		
E1233	01233	I1663	01663	VS1047	160-1206		
E1350S	01350S	I1665	01665	VS1050	160-1130		
E1366	01366	I1667	01667	VS356	160-1604		
E1375	01375	I318	00318	VS454	160-1188		
E1377	01377	I555	00555	VS467	160-1171		
E1378	01378	I609	00609	VS695	160-1170		
E1408	01408	I734	00734	VS817	160-1179		
E1412	01412	I752S	00752S	VS893	160-1221		
		I755	00755	VSP94773S	160-1212		
		I852S	00852S	VSP95423S	160-1211		
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ALLIS CHALMERS (Cont'd)	FB0450 VL116	0213326 10195	0213517 10543
74035186 160-1219		0213328 10206	0213518 10544
800324 140-1678		0213329 10196	0213524 10815
8BA6510 140-1614		0213330 10207	0213526 13140S
957E6510B 140-1956		0213331 10299	0213528 10736
U3142 140-1421		0213332 10172	0213532 10817
	BECK ARNLEY/ WORLDPARTS	0213333 10226	0213533 10816
	0160073 190-1513	0213338 10498	0213537 10387
	016018 220-1119	0213339 10436	0213549 10784
	0161028 220-1108	0213343 10137	0213615 10808
	0161049 220-1114	0213345 10473	0213623 02197
	0161052 220-1110	0213346 10305	0213624 02195
	0161073 220-1117	0213349 10314	0220277 140-7576
	0210013 10076	0213352 10300	0220285 140-7577
	0210021 10083	0213354 10414	0220798 140-7542
	0210039 10065	0213357 10499	0220806 140-7499
	0210047 10064	0213358 10437	0220962 140-8143
	0210278 10015	0213362 10138	0220970 140-7523
	0210302 10031	0213363 10340A	0221010 140-7830
	0210310 10056	0213364 10474	0221119 140-7395
	0210377 10033S	0213368 10315	0221127 140-7713
	0210385 10036S	0213370 10173S	0221135 140-7714
	0211093 140-9557	0213372 10162	0221234 140-7589
	0212308 10048	0213376 10176	0221391 140-9557
	0212456 10061	0213377 10337	0221404 140-7710
	0212464 10060S	0213378 10309	0221410 140-8172
	0212498 10087	0213379 10421	0221411 140-8018
	0212506 10086	0213383 10434	0221430 140-7825
	0212597 10406	0213384 10435	0221466 122-1127
	0212605 10407S	0213387 10420	0221469 122-1114
	0212704 10308	0213388 10311	0221475 122-1136
	0212720 10037	0213390 10177	0221476 122-1136
	0212928 10106	0213394 10243	0221478 122-1125
	0212936 10107	0213397 10163	0221482 122-1089
	0213109 10069	0213398 10495	0221489 122-1132
	0213146 10277	0213400 10126A	0221499 122-1141
	0213148 10269	0213402 10123	0221529 140-7659
	0213150 10268	0213403 10128A	0221531 140-7873
	0213159 10271	0213404 10497	0221556 140-8016
	0213181 10255	0213405 10157	0221557 140-8205
	0213182 10256	0213409 10244	0221558 140-8201
	0213193 10328A	0213410 10170	0221561 122-1199
	0213195 10330A	0213411 10273	0221562 140-8208
	0213201 10237	0213415 10169	0221563 140-8038
	0213203 10216	0213419 10310	0221569 122-1201
	0213204 10217	0213421 10070	0221570 122-1202
	0213213 10370S	0213423 10228	0221583 140-8580
	0213243 10192	0213425 10432	0221584 140-8581
	0213244 10193	0213427 10518	0221585 140-8187
	0213254 10103	0213428 10519	0221586 140-8186
	0213255 10302	0213430 10248	0221589 140-8155
	0213256 10281	0213432 10550	0221590 140-8156
	0213269 10282	0213433 10516	0221591 140-8397
	0213273 10145	0213437 10552	0221592 140-8157
	0213275 10146	0213439 10517	0221593 122-1150
	0213277 10322	0213440 10551	0221594 122-1158
	0213278 10323	0213443 10547	0221596 140-8273
	0213280 10141	0213444 10548	0221597 140-8207
	0213283 10236	0213448 10263	0221599 140-8195
	0213285 10413	0213449 10496	0221601 140-8142
	0213288 10105	0213450 10229	0221603 140-8211
	0213289 10104	0213451 10224	0221604 140-8543
	0213294 10270	0213455 10501	0221609 140-8039
	0213295 10143	0213456 10500	0221610 140-8324
	0213296 10144	0213457 01481	0221611 140-8189
	0213299 10142	0213458 01480	0221612 140-8291
	0213300 10218	0213459 10556	0221616 140-8194
	0213301 10220S	0213461 10506	0221622 140-8193
	0213302 10129	0213462 10507	0221626 122-1152
	0213303 10127	0213465 10503	0221637 122-1147
	0213304 10219	0213470 10435	0221639 140-8212
	0213305 10221S	0213480 10525	0221644 140-8217
	0213308 10356S	0213491 10536	0221645 140-8204
	0213312 10158S	0213492 10723	0221647 140-8216
	0213318 10625	0213496 01743	0221648 140-8203
	0213322 10624	0213503 10546	0221649 140-8202
	0213323 10198A		
	0213325 10541		

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BECK ARNLEY/ WORLDPARTS (Cont'd)	BUDA		VT3232 00269		1376856 122-1302	
			VT3233 00268		1381997 SB1711E-1C	
0221660 140-8147	4513354 140-1852		VT3372 160-1223		1381999 SB1812E-8	
0221661 140-9560	B101 00310		VT366 140-1872		1382006 SB1812E-8	
0221664 140-7577	B281 00311		VTA2634 00269		1382050 05002S	
0221677 140-8573			VTA2635 00268		1382052 05001	
0225029 122-1366					1382053 VL549	
0227000 VL141	CASE		CATERPILLAR		1406188 160-1453	
0227001 VL146	251103R1 140-4944		0676834 121-1018		1409670 140-3038	
0227004 VL135	251261R3 00485		1004626 05000		1456855 13136	
0227007 VL173	3900250 121-1079		1007860 01760S		1456856 122-1395	
0230045 121-1047	4761971 VL156		1007861 01761S		1456857 13219	
0230060 121-1058	5619A 140-1577		1008150 140-8592		1456858 122-1397	
0230078 121-1031	57765H 140-1458		1017788 170-1014		1457390 02161S	
0230086 121-1034	6321A 140-1829		1017788 170-1014		1471979 121-1118	
0230268 160-1038	6529A 140-1830		1018314 01632S		1478211 02160S	
0230300 121-1026	675574C3 01520		1026229 122-1373		1478214 122-1364	
0231142 160-1019	8744 140-4941		1026229N 122-1373		1478218 SB1814E-4C	
0231225 160-1016	A11801 00678		1031800 161-1018		1478220 140-3039	
0231423 160-1013	A11802 02084		1032454 160-1606		1487425 140-3037	
0231663 121-1028	A11803 140-1865		1032782 160-1514		1487455 01761S	
0231666 121-1024	A150225 01650S		1036304 01911		1487502 140-3037	
0231667 121-1020	A182172 01826		1039247 140-3097		1511329 140-8485	
0231683 121-1048	A182173 01650S		1039260 122-1116		1511330 140-3138	
0231710 160-1055	A21712 00678		1045536 240-1006		1516235 140-3174	
0231712 160-1025	A21713 02084		1047184 01584S		1527582 SB1687E-1N	
0231797 160-1014	A24910 02084		1051779 01579S		1527585 01912	
0231798 121-1059	A27872 121-1049		1054232 240-1004		1528380 01911	
0231821 160-1028	A29954 140-1673		1061111 01468S		1529857 13142	
0231822 160-1029	A29954 140-1873		1070265 SB2004E-3N		1529858 160-1502	
0231841 121-1039	A29955 140-1872		1070268 SB2049E-1		1529860 121-1093	
0231881 121-1054	A30025 160-1223		1085902 01462S		1535554 122-1465	
0231884 121-1063	A30270 140-1673		1085910 01911		1535558 160-1638	
0231886 121-1061	A30438 00268		1085911 01912		1535559 122-1464	
0231892 160-1055	A38422 00691		1085912 SB1891E-1		1537023 01911	
0231901 160-1031	A38423 00690		1090390 140-3037		1537024 01912	
0231903 160-1079	A41726 00691		1136180 01580		1540888 13326	
0231909 160-1076	A41727 00690		1152358 SB1812E-7		1540889 13327	
0233009 121-1003	A41753 01511		1152367 01468S		1541249 VL574	
0234023 SB1437-73	A41754 01512		1152368 01462S		1559504 SB1656E-1	
0234024 SB1375-62	A41783 140-7444		1161102 240-1005		1564168 SB1891E-1	
0234025 SB1437-59	A4355A 140-1814		1167553 140-3037		1578373 240-1003	
0234027 SB1437-67	A58619 SB1946E-1N		1185569 140-3007		1590300 240-1003	
0234028 SB1250-54	A58626 01512		1189491 SB2366E-2N		1597303 160-1181	
0234029 SB1437-72	A58627 01511		1193036 122-1299		1605436 140-3063	
0235024 SB1250-59	A66191 SB2100E-1		1193061 240-1002		1605438 140-3064	
0235025 SB1312-64	A66192 SB1946E-1N		1196772 01497S		1614280 02231	
0235026 SB1375-60	A66193 01826		1212028 01804		1614485 140-3105	
0235028 SB1062-50	A66336 161-1003		1219835 01805S		1621589 140-3037	
0235029 SB1250-58	A66444 160-1226		1219839 01805S		1632442 02260S	
0235030 SB1312-63	C5549A 140-1813		1220321 01831S		1632444 140-3058	
0235031 SB1500-53	F6001235 140-1515		1220322 01830S		1632478 122-1373	
	G11711 00268		1225963 SB2368E-3N		1639063 SB1969E-4N	
BMW	G11719 00268		1227352 SB1812E-6N		1639256 140-3060	
11121264034 SB1625-63	G11947 00691		1227353 01857S		1662903 240-1006RT	
11121707152 SB1500-53	G11948 00690		1227374 140-3014		1662904 240-1006RM	
11121707154 SB1500-53	G11961 00682		1227375 140-3007		1663739 240-1006	
11121711166 SB1625-56	G11962 00683		1228612 140-3007+5		1665944 140-8679+5	
11121714183 SB1500-62	G1761200 140-1833		1233984 140-8485		1737188 140-3145	
11121715252 SB1500-53	G2033 140-1873		1240811 240-1003		1753617 SB1891E-1	
11121715253 SB1500-53	G2068 140-1875		1242692 01582S		1757523 160-1464	
11121719784 SB1750-60	G2069 140-1874		1242693 01581S		1757526 160-1575	
11121721144 SB1375-55	G46241 00682		1302607 SB2387E-2		1763134 05003	
11121721153 SB1312-64	G46242 00683		1302608 SB2366E-2N		1763137 05004	
11321727471 VL116	G47110 00691		1302613 140-8679		1763139 160-1499	
11341287814 10374S	G47111 00690		1309004 SB1969E-4N		1799453 SB1711E-1C	
11341708895 10373	J901187 140-8122		1314340 SB2366E-2N		1799454 SB1812E-8	
11341708896 10374S	J904408 140-8177		1323214 140-8592		1838172 140-3192	
11341738218 10695	J904409 140-8178		1336997 SB1711E-1C		1838173 140-3193	
11341738219 10696S	J915506 01667		1337029 01581S		1845494 140-3035	
11341739820 10695	J920867 01665		1339306 140-8679		1845495 140-3036	
11341739821 10696S	J920868 01664		1339746 SB1812E-6N+010		1850882 140-3059	
	J921444 01666		1339747 SB1812E-6N+020		1862001 161-1047	
	J924492 01667		1360819 01579S		1883122 02261	
	M20614 122-1422		1369630 SB2387E-1		1888633 140-3105	
	VT131 140-1673		1376718 160-1454		1888636 SB1518E-1	

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1888637	SB1782E-2	2140586	160-1463	2N9298	140-7074H	4N3668	140-7242
1888640	13143	2143286	SB1813E-1	2N9299	140-7073	4N3669	140-7338
1906115	160-1577	2146051	122-1393	2N9300	01461S	4N5653	01468S
1906117	160-1572	2175213	SB1656E-3	2N9301	01476S	4N5654	01462S
1916760	SB2368E-2N	22000025	140-8248	2P1262	140-7194	4N5893	SB1812E-3
1916766	140-3139	22000028	140-8247	2S0893	140-6470	4N5906	160-1184
1926335	122-1475	2241270	SB1669E-2N	2S4213	160-1178	4N6761	161-1029
1929213	01582S	2242410	SB1792E-1	2S5627	160-1179	4P4735	240-1004
1944897	02168S	2243028	13151	2S8143	01351S	4P7135	240-1004
1944901	160-1461	2243030	13280	2W2620	01760S	4P7223	13056
1944902	160-1460	2243983	SB1891E-2	2W2621	01314S	4S7468	161-1035
1976995	140-3042	2244441	160-1462	2W2622	01462S	4S8898	SB1812E-3
1977006	161-1069	2255495	13137	2W2877	01491S	4S8902	SB1687E-1N
1977005	122-1302	2255496	160-1569	2W3211	01476S	4S8909	SB2590E-1+010
1977055	121-1095	2255499	13138	2W4837	SB2004E-3N	4W1300	01498S
1977062	161-1067	2260262	240-1042	3003565	SB1687E-6C	4W1670	01314S
1977063	161-1068	2265561	SB1687E-6C	3081860	13326	4W2471	160-1213
1986529	SB1687E-4N	2271200	240-1036	3081861	13327	4W2472	160-1207
1N4885	01146S	2272911	240-1003	3096678	13329	4W2474	161-1030
1N4886	01146S	2274239	240-1006	3107255	240-1036RT	4W3778	140-7681
1N4995	KL1840A	2289673	122-1436	3107257	240-1036RB	4W3779	140-7682
1P1081	01145S	2321285	SB1814E-4C	3107258	240-1041RT	4W5374	01462S
1P2629	01145S	2335469	13063	3107259	240-1041RB	4W6802	01498S
1P407	01146S	2335470	13064	3128619	122-1487	4W9176	140-8408
1P6837	SB2004E-2	2348776	122-1414	3165976	160-1677	5H1463	SB2435E-1
1S2894	SB1505E-1	2365605	01911	3165977	160-1676	5H1464	SB2590E-1
1S2895	SB1442E-2	2418382	13192S	3165978	161-1077	5H7071	240-1000
1S2898	121-1011	2418383	13193	3165979	161-1078	5I7624	122-1476
1S2903	01350S	2418385	160-1587	3165980	122-1490	5I7738	13392
1S3062	240-1001	2418386	160-1586	3177213	SB1577E-1+010	5I7739	13394
1S5738	SB2435E-2N	2418388	SB1577E-1	3223661	140-3035+5	5I7740	160-1657
1S6653	140-7338	2418389	140-3123	3223662	140-3035+10	5I8011	SB1815E-2
1S6654	140-6469	2418390	122-1424	3223663	140-3035+20	5I8012	SB1540E-1
1S8143	01351S	2479908	160-1575	3223664	140-3036+5	5M1889	SB1687E-1N
1S9910	140-7338	2481467	13033	3223665	140-3036+10	5M5828	00574S
1W1801	SB2367E-1	2503044	122-1393	3223666	140-3036+20	5M8023	140-1906N
1W1816	140-7604	2526438	122-1434	3322152	160-1463	5S1757	SB2590E-1
1W1817	01459S	2527801	02161S	3399637	13330	5S2921	140-6881
1W1818	01459S	2527802	13032	3487743	187-1087	5S4507	140-1906N
1W1819	01458S	2527803	13192S	3495303	160-1672	5S5874	161-1018
1W1822	01460S	2543941	140-3123+5	3495307	160-1673	5S6449	01203
1W2713	SB1693E-8N	2543942	140-3123+20	3633731	187-1087	5S6452	01204
1W2715	121-1079	2543946	SB1577E-1+020	3695921	13421	5S7218	SB2129E-1
1W3359	01498S	2543954	122-1435	3770399	SB1381E-1	5S7221	SB2004E-2
1W3859	01462S	2550897	140-3195	3770400	SB1322E-1	5S7232	01205S
1W3860	01468S	2558665	140-3194	3802073	140-3164	5S9291	140-6881
1W4259	160-1198	2558676	13421	3911107	21912	6H3026	00318
1W5283	SB1687E-1N	2558677	160-1670	3B1143	121-1030	6I0282	01887
1W5300	161-1018	2558678	160-1671	3N1414	149-1000	6I0283	160-1497
1W5321	SB2004E-2	2562084	SB1558E-1PM	3N515	140-8486	6I0284	160-1496
1W5849	122-1398	2562085	SB1400E-1PM	3S0461	161-1028	6I1196	01887
1W8606	01461S	2595829	140-3123	3S3018	160-1181	6I1390	01912
2033237	140-3058+5	2604855	SB1792E-1	402022507	01880	6I1458	187-1087
2033238	140-3058+20	2604856	140-3058	402022508	01881	6I1713	SB2368E-2N
2061541	140-3140	2610193	240-1041	402022516	01882	6I2307	160-1452
2061542	140-3140+10	2622957	13420	4360519	160-1569	6I2662	122-1177
2061543	140-3140+20	2634920	240-1044	4360521	160-1630	6I2663	161-1041
2061544	140-3139+10	2646157	SB1656E-3	4405104	122-1465	6I2864	140-8357
2061545	140-3139+20	2668718	SB2388E-2N	4432712	02168S	6I2865	140-8356
2064127	160-1498	2682953	140-3058	4644668	21912	6I4014	SB1687E-4N
2064442	SB2388E-1N	2733553	140-8679+5	4901729	13420	6I4019	SB1812E-6N
2102529	01805S	2763875	140-3042+5	4901730	13421	6N2236	140-7255
2102542	01804	2768123	121-1098	4907198	21911	6N7154	161-1038
2113122	160-1464	2768132	160-1630	4907200	21912	6N7174	122-1328
2113123	160-1575	2803979	SB1891E-2	4F212	00319	6N7175	161-1038
2120932	02259S	2816157	160-1461	4F213	00318	6N8847	140-7357
2120933	02258S	2899231	01912	4F6949	140-1711	6N9915	01760S
2120936	SB1687E-5C	2934633	SB1813E-1+010	4H0621	140-1888	6N9916	01761S
2128474	SB1894E-4	2934635	SB1813E-1+020	4H621	140-1888	7C1586	01581S
2128477	13393	2934802	SB1687E-5C+010	4H9804	00751S	7C2353	01461S
2128917	SB1479E-1C	2934804	SB1687E-5C+020	4H9805	00752S	7C2354	01461S
2128918	SB1459E-1	2995511	122-1457	4M4320	SB2590E-1	7C3792	13055
2137536	140-3051	2A4429	121-1000	4N2803	140-7216	7C3829H	140-8248
2137537	140-3052	2M6402	01146S	4N3664	140-7083	7C3830H	140-8247
		2M6403	01145S	4N3665	140-7255	7C4273	160-1451
		2N8943	SB2150E-1	4N3667	140-7357	7C5215	01582

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7C5335	SB2049E-1+005	9H9164	160-1179	1947718Z	01017S	3240768	01442	
7C5336	SB2049E-1+010	9L7682	01379	1954291	VL31	3242659	01479	
7C5343	SB2004E-3N+005	9L7683	01378	2084029	VL8	3242660	01478	
7C5344	SB2004E-3N+010	9L8368	01379	208819	00122	3242896	01478	
7C5921	SB2590E-1+020	9M3204	SB2004E-2	208821	00121	33002400	SB1562-1	
7C6217	01498S	9M3205	SB1812E-1	209567	140-1504	33002429	01478	
7C8581	161-1041	9M4163	00753S	2128829	00567	33002729	122-1047	
7E1551	140-8594	9M5349	160-1196	2202961	00746S	33002986	192-1442	
7E3413	140-8485	9M5350	160-1197	2203250	VL31	33003515	01557	
7E4609	01498S	9M6495	SB1880E-2	2206103	00548	33003521	121-1021	
7E4610	01584S	9M8745	SB2503E-2	2211432901	140-7576	33003575	01557+15	
7E5862	SB2387E-1	9N2837	SB1912E-1	2211511050	140-7577	33003860	01556	
7E7830	01145S	9N3617	160-1228	2211532901	140-7575	33004296	160-1378	
7E7977	161-1041	9N5125	01497S	2222425000	122-1440	33004853	190-1529	
7E7978	122-1177	9N5495	160-1218	2236146	00883	33007142	SB1562-1	
7E9577	01581S	9N5496	160-1217	2236147	00882A	3418239	VL89	
7E9578	01582	9N5786	170-1013	2236556	140-1976	3418411	VL89	
7F4784	00574S	9N6117	01314S	2236557	140-1977	3418424	180-1077	
7F5310	00852S	9S9699	SB1687E-1N	2402714	01017S	3418479	01156	
7M0991	SB2435E-1	9X7430	240-1006RB	2465335	00938	3420039	VL89	
7M7358	00755	9Y1846	140-3144	2465339	01329	3512095	01156	
7M7359	00754	9Y1847	140-3143	2468038	VL31	3549963	01186	
7M7360	00753S	9Y6882	140-3035	2469501	VL31	3549967	01312S	
7M7817	00752S	9Y6883	140-3036	2532149	186-1100	3549971	00567	
7N0359	01880	9Y7895	140-8220	2536979	01017S	3549975	00548	
7N0360	01882	9Y8848	140-8590	2808569	VL8	3549979	00548	
7N1649	SB2004E-4N	9Y9803	01632S	2843014	VL31	3577836	00548	
7N1650	01491S	9Y9804	01857S	2863439	160-1150	3577943	01186	
7N1819	140-8679	G6144	122-1381	2863521	01307	3577948	01180	
7N1903	160-1396	CHRYSLER					3577950	01180+15
7N1904	160-1397	05045515AA	190-1549	2899036	01156	3614320	VL89	
7N2051	140-7338	05045516AA	190-1550	2899856	VL89	3614321	VL89	
7N4310	140-8408	10014819	181-1017	2899860	VL64	3614322	VL89	
7N4448	SB2049E-1	1109911	00349	2899864	VL64	3671207	01273	
7N4580	01468S	1109912	00298	2899872	VL64	3671902	01265	
7N572	01760S	1124659	140-1338	3004643	VL89	3683801	01273	
7N573	01761S	1124959	140-1337	3004647	VL64	3744801	01312S	
7N7639	161-1035	119136	140-1504	3004718	180-1056	3751087	01312S	
7N8855	SB2004E-3N	119137	140-1342	3004719	180-1055	3751091	160-1018	
7S2514	01351S	119138	140-1704	3151444	VL31	3751252	VL89	
7S3161	170-1011	119139	140-1704	3156155	00549	3751262	VL64	
7S6322	140-7357	1234424	187-1014	3156156	00550	3751267	VL64	
7S6323	160-1191	1319087	SB1640E-1	3160304	VL89	3751659	161-1020	
7S6366	140-7357	1319089	00257	3172303	VL89	3751673	01307	
7S6767	01205S	133595R1	140-8224	3172328	00549	3751741	160-1020	
7S7144	160-1192	133670R1	140-1817	3180454	VL89	375994	121-1046	
7S8809	01314S	1486911	140-1740	3180609	VL89	3769317	01309	
7W0028	SB2368E-2N	1531204	VL8	3182585	01048	381875	121-1000	
7W1636	140-8319	1555176	VL8	3187202	01047	381875	121-1014	
7W2699	01579S	1614666	121-1014	3189883	VL89	3830705	01329	
7W4602	01784	1614730	VL31	3190810	VL89	3830710	01307	
7W5554	SB1711E-1C	1618636	00518	3190895	VL89	3830715	01156	
7W6878	140-8592	1634790	140-1803	3190901	VL89	3830721	01156	
7W6884	01584S	1737645	180-1055	3190935	VL89	3879719	161-1020	
7W7082	160-1463	17376746	180-1056	3195223	01047	3899498	01312S	
7W7083	160-1462	1737698	00520	3202148	140-1919	3904408	140-8177	
7W7489	140-8220	1739356	VL31	3204487	140-1919	3904409	140-8178	
7W7490	01631S	1821238	00514	3211218	01179	3906206	140-8277	
7W7491	01630S	1828240	SB1516E-1	3213609	160-1164	395931	121-1001	
7W8064	01580	1850079	00257	3214013	190-1429	4006767	VL64	
7W8065	SB1969E-3	1851672	140-1840	3218732	01260	4049338	VL89	
7W8809	01314S	1851674	140-1839	3218733	01258	4071003	122-1015	
8C0563	240-1003R	1851767	00548	3218809	01260	4071006	122-1015	
8H1993	00852S	1851904	VL8	3218810	01260	4095897	VL88	
8H1994	00574S	1852079	00257	3218813	01325	4100367	01419	
8H7097	00751S	1852089	00257	3219896	01257	4100377	01307	
8M4014	SB2435E-1	1852247	00185	3222276	VL89	4100382	01417	
8M9810	SB2503E-1	1852248	00518	3223888	181-1037	4100387	01399	
8N0875	01205S	1852689	VL106	3224597	01325	4100774	180-1078	
8N3723	00751S	1859623	SB1624E-1N	3224598	01326	4104402	01307	
8N3724	00753S	1945318	00514	3224602	01325	4105348	VL87	
8N3725	01145S	1945345	VL8	3224603	01325	4105715	140-7662	
8N5645	01379	1947231	00185	3228192	160-1023	4105716	140-7661	
8N7782	161-1018	1947322	VL8	3229657	01258	4105979	01265	
		1947623	00567	3237464	01441	4106028	VL88	
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4186155	VL31	4648701AB	180-1321	5011892AA	190-1554	53006986	01556
4201187	140-7662	4648702	180-1320	5015552AA	190-1530	53008282	180-1313
4201188	140-7661	4648702AC	180-1320	5037372AB	13206	53008514	VL106
4201189	SB1500-63	4648907AA	160-1426	5037373AB	13207	53009173	VL106
4201190	SB1687-51	4663302	122-1254	5037382AB	160-1627	53009270	01556+15
4201332	122-1079	4663345	01712	5037382AD	160-1627	53009886	122-1204
4201391	140-7451N	4663347	01713	5037475AB	190-1552	53009887	122-1205
4201393	01449	4663722	121-1082	5037475AC	190-1552	53010388	160-1483
4201761	121-1020	4663801	160-1352	5037476AB	190-1551	53010512AA	01916
4227660	VL88	4663836	01901	5037476AC	190-1551	53010513AA	01917
4227778	01448	4663899	01920	5037477AC	160-1628	53010515AA	121-1083
4240007	VL87	4663902	01921	5037477AD	160-1628	53020556	160-1483
4298137	01553	4663904	122-1327	5037798AA	122-1423	53020586	VL106
4298142	01552	4663985	VL171	5038784AC	VL555LA	53020742AC	180-1335
4315415	01675	4667124	01730	5038785AC	VL556LA	53020747AB	01918
4315450	190-1507	4667129	01731	5038786AC	VL557LA	53020748	01919
4315809	01712	4667139	180-1324	5047068AA	13190	53020749AB	160-1432
4323235	VL106	4667140	VL173	5047068AB	13190	53020749AC	160-1432
4323244	01555	4667411	140-8556	5047069AA	13191	53020752AB	122-1344
4323249	01554	4667807	01730	5047069AB	13191	53020752AD	122-1344
4382094	SB1562-9	4667810	01731	5047446AA	13401	53021056	160-1378
4387677	VL106	4667969	01730	5047447AA	13402	53021077	VL107
4387682	VL106	4667969AB	02008	5047453AA	122-1467	53021288AC	160-1613
4397751	VL106	4667972	01731	5047564AA	13400	53021550AA	02103
4429097	122-1269	4694185	140-8177	5073735AA	02234	53021551AA	02220
4429105	01665	4694222	01904	5073738AA	02235	53021551AB	02220
4429109	01664	4694224	01905	5080042AA	SB1218E-1	53021556AA	190-1544
4429111	SB1722E-1	4713216	01665	5080043AA	SB1175E-1	53021556BB	190-1549
4429206	140-8277	4713439	VL106	5080044AB	140-3098	53021557AA	190-1545
4429251	121-1079	4713994	01664	5080051AA	121-1106	53021557BB	190-1550
4429277	160-1348	4740269	VL89	5080054AA	160-1528	53021571AA	02036
4429408	140-8177	4740353	190-1530	5080057AA	122-1360	53021578AA	122-1354
4429409	140-8178	4777050	121-1086	5086290AA	122-1360	53021580AB	160-1450
4429854	SB1853E-1	4777050AB	121-1087	5086736AA	VL565	53021580AE	160-1450
4448050	190-1509	4777050AC	121-1087	5086861AA	122-1370	53021644AA	02036
4448052	01671	4777535	160-1377	5086862AA	122-1371	53021644AC	13252
4448057	01670	4777555	160-1347	5117399AA	13073	53021720AB	VL555LA
4448062	SB1875-54	4777898AA	02009	5117402AA	13074	53021720AD	VL555LA
4448065	SB1562-74	4777976AA	VL173	5117403AA	160-1529	53021726AD	VL556LA
4448072	140-8219	4781025AA	01993	5117407AA	SB1160E-1	53021726AE	VL556LA
4448075	121-1071	4781029AA	01994	5117410AA	SB1088E-1	53021726BB	VL556LA
4448152	186-1121	4781029AB	01994	5140913AA	13161	53021726BC	VL556LA
4448305	160-1069	4781030AA	121-1089	5159009AA	122-1251	53021728AD	VL557LA
4448305	160-1122	4781072AB	122-1350	5175396AA	13356	53021728AE	VL557LA
4448993	180-1079	4781588AA	160-1443	5175397AA	13357	53021728BB	VL557LA
4448994	180-1080	4781588AB	160-1443	5175398AA	160-1639	53021728BC	VL557LA
4448996	160-1229	4781588AC	160-1443	5175399AA	121-1098	53021775AA	160-1612
446723C1	140-7174	4792215	160-1441	5175402AA	160-1640	53021775AC	160-1612
4483041	01419	4792216AB	160-1626	5175438AA	122-1456	53021790AA	160-1613
4483711	140-7451N	4792295	180-1322	5175440AA	VL561	53021795AA	160-1613
4483714	140-7429N	4792295AB	180-1322	5175441AA	180-1338	53021873AA	160-1614
4483725	180-1288	4852361AA	02035	5184060AN	160-1656	53021887AA	160-1612
4483859	160-1199	4852411AA	02034	5184127AC	13263	53021894AA	VL562
4494467	VL106	4882061	160-1379	5184128AD	13264	53021913AB	180-1335
4536513	121-1093	4882220	140-8219	5184128AE	13264	53021916AA	02036
4536513AB	121-1093	4884042AA	180-1324	5184168AB	122-1442	53021916AB	02036
4573320	01713	4884690AA	02009	5184296AE	180-1332	53021974AA	122-1344
4573507	160-1343	4884691AA	02008	5184296AF	180-1332	53021990AA	13251
4621116	01670	4884726AA	121-1060	5184332AA	VL561	53021994AA	160-1609SSA
4621530	160-1426	4884804AA	160-1589	5203472	SB1687-51	53022087AA	13194
4621938	VL106	4892082AA	160-1626	5203577	121-1052	53022088AB	13195
4636790	VL106	4892094AA	01713	5203789	140-7429N	53022089AD	160-1642SSA
4636794	VL106	4892292AA	122-1254	5203792	SB1500-63	53022090AB	122-1425
4637537	01556	4892465AA	VL560	5214861	01449	53022277AA	121-1093
4637539	01556+15	4892674AB	122-1363	5214866	01448	53041123	190-1522
4648613	01742	4892820AB	121-1098	5240925	140-7359	600746	140-1337
4648613AC	01992	5003595AA	VL156	5245590	VL106	6007461	140-1338
4648615	01741	5011441AA	160-1484	53005771	122-1232	630356	00122
4648615AC	01991	5011441AB	160-1484	53005772	122-1232	630357	00121
4648619	122-1251	5011790AA	VL554	53005863	01781	637182	00122
4648635	140-8555	5011877AA	02015	53005864	01782	637183	00121
4648684	160-1377	5011878AA	121-1097	53006673	140-8494	646421	00302
4648701	180-1321	5011879AA	02014	53006677	SB1687-5N	6503560	220-1072
		5011880AA	122-1334	53006722	190-1525	6503561	220-1074
		5011881AA	122-1335	53006723	01714	6503562	220-1074
				53006724	01715	6504033	220-1083

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6504329 220-1086	MD061895 121-1039	MN183950 13191	10125 122-1077
68002237AA 13006	MD070691 10141	MN187696 13190	10132 122-1199
68080909AA 160-1642SSA	MD070693 10142		10139 122-1136
68080909AB 160-1642SSA	MD070694 10142	CONTINENTAL	10147 122-1132
68210104AA 122-1477	MD072177 VL141	1005916M1 140-1673	10151 122-1116
711045 00210	MD073398 160-1079	1010268M1 160-1544	10155 122-1141
741568 00121	MD075924 10127	1019739M1 140-1833	10170 122-1125
802639 00303	MD075925 10127	1019742M1 13105	10176 122-1089
8122755 01260	MD075927 10129	1019743M1 13106S	10183 122-1330
8122756 01258	MD083483 SB1750-59	1750069M1 140-1717	10185 122-1053
8122761 01325	MD083848 10145	1751518M1 00234	10234 122-1201
8122929 VL89	MD083850 10146S	1751519M1 00234	10235 122-1202
8127694 01258	MD083851 10146S	200131 00196	10237 122-1149
8132227 01813	MD083887 10141	830762M91 140-1833	10239 122-1142
8132229 01814	MD085253 10143	830935M91 140-1673	10241 122-1215
8134389 01813	MD085254 10144	83490M91 140-1717	10242 122-1216
8134392 01814	MD088811 10624	840210M91 140-1620	10246 122-1232
8350066 VL89	MD088812 10625	CVT03234 121-1003	10249 122-1328
83500739 01395	MD093714 VL141	D6001233 140-1470	10269 122-1077
83500740 01395	MD108465 SB1312-53	F140A216 SB1348E-1N	10274 122-1052
83500743 01394	MD108468 SB1375-51	F4001213 140-1620	10275 122-1232
83500766 VL94	MD108471 SB1500-75	F4001251 140-1962	10276 122-1202
8933003516 01556	MD110451 SB1562-69	F400T296 00170	10277 122-1205
8933003575 01557+15	MD115472 122-1114	F6001112 00810	10282 122-1150
8933003576 01556+15	MD117726 SB1312-64	F6001228 00170	10286 122-1252
8933003860 01556	MD119254 SB1437-63	F6001229 00810	10287 122-1254
925437 00210	MD121489 SB1437-68	F6001235 140-1515	10291 122-1227
954302 00185	MD124739 VL135	F6001238 00196	10298 122-1139
994946 00302	MD126605 140-8193	F6001242 00170	10304 122-1086
994969 00302	MD126608 140-8194	F6001244 00196	10306 122-1230
AW321739 10625	MD127840 10126A	F6001248 00210	10318 122-1158
J3189833 VL89	MD127841 10128A	F6001249 00210	10333 122-1260
J3218976 122-1031	MD128114 SB1562-69	F6001265 140-1515	10334 122-1323
J3218976 122-1075	MD128434 10495	F6001302 01148	10338 122-1263
J3222276 VL89	MD128435 10496	F6001351 00170	10339 122-1262
J3224598 01326	MD135479 10500	F6001352 00196	10340 122-1159
J3228192 160-1023	MD135480 10501	F6001353 01693S	10342 122-1075
J3229657 01258	MD136125 SB1437-59	F6001354 00210	10344 122-1236
J3237464 01441	MD139755 10497	F6011303 01147	10348 122-1088
J3237465 01442	MD148418 SB1125-52	G1931210 140-1970	10349 122-1285
J3240767 01441	MD148420 SB1312-62	G1931302 00867	10350 122-1073
J3240768 01442	MD148422 SB1437-61	G1931303 01055	10352 122-1069
J3241709 190-1455	MD149309 VL135	N621200 140-1678	10360 122-1127
J3242659 01479	MD151369 121-1096	TM27100309 160-1573	10361 122-1163
J3242664 122-1037	MD151382 VL141	TM27100316 140-1962	10364 122-1198
J3242678 160-1210	MD159502 10534A	TM27100504 13016	10365 122-1217
J3242864 122-1047	MD162422 10498	TM27100505 13017	10366 122-1218
MD000441 SB1562-50	MD162423 10499	TMD27100501 13019	10372 122-1147
MD000461 140-7576	MD168421 10501	TMD27100502 13018	10373 122-1155
MD000471 140-7577	MD169655 SB1312-64	TMD27100505 13019	10374 122-1200
MD000480 10076	MD169831 SB1437-73	VT131 140-1673	10380 122-1119
MD000481 10083	MD172315 10500	Y4001205 121-1010	10381 122-1237
MD002465 SB1375-51	MD172530 140-8571	Y4001209 140-1619	10391 122-1187
MD002481 10083	MD172535 SB1187-51	Y4001215 160-1401	10392 122-1136
MD007783 10083	MD183893 SB1187-54	Y4001232 140-1619	10393 122-1130
MD016445 140-7589	MD184303 122-1252	Y4001332 01365	10395 122-1189
MD016483 121-1031	MD185569 10535A	Z1201203 00234	10402 122-1325
MD016490A 122-1114	MD185850 140-7577	Z1201326 00489	10510 122-1357
MD020551 140-7574	MD188579 SB1250-59	Z120T123 00234	26001 VL109
MD020561 140-7575	MD189240 SB1250-60	Z120T142 00234	26003 VL86
MD020580 10065	MD191384 SB1375-62	Z120T157 00234	26005 VL116
MD020583 10064	MD193862 SB1437-59	Z120T161 00489	26007 VL113
MD020587 10064	MD195450 180-1207	Z1291108 00486	26011 VL519
MD020588 10064	MD197467 122-1086	Z1291204 140-1717	26028 VL149
MD022591 160-1031	MD300702 140-8554	Z1291205 00343	26029 VL121
MD024414 SB1750-61	MD301193 10534A	Z1291208 00486	26031 VL9
MD024441 SB1500-62	MD301640 SB1562-69	Z129T107 00486	26033 VL107
MD024546 SB1625-56	MD301712 SB1750-61	Z129T117 00343	26035 VL120
MD024547 SB1625-56	MD301714 SB1562-69		26036 VL146
MD026514 SB1875-51	MD303177 10535A	CORTECO	26040 VL135
MD026515 SB1875-51	MD306183 10535A	10001 122-1043	26041 VL94
MD026517 SB1625-56	MD307235 140-8569	10046 122-1067	26042 VL141
MD026518 SB1625-56	MD307342 122-1253	10052 122-1203	26049 VL149
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	MD324101 140-8193		26070 VL89

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26072	VL87	169630	240-1008	3070212	140-8210
26073	VL106	174213	140-7990	3070460	160-1302
26074	VL100	174214	140-6452	3070473	01659S
26083	VL83	195000	SB1691E-1	3070484	121-1076
26087	180-1321	195001	SB1691E-1+010	3070486	240-1009
26088	180-1320	196641	240-1009R	3071147	240-1010
26089	VL106	200354	SB2003E-1	3072321	140-8134+10
26090	VL173	205091	121-1069	3072369	121-1076
27016	220-1008	205093	SB2381E-2C	3073509	122-1241
27020	220-1016	205208	160-1176	3073510	122-1241
27042	220-1014	207241	01534	3073511	140-8210
27115	220-1060	2105293	140-1823	3073512	140-8210
27118	220-1048	211999	160-1177	3076515	SB1953E-2C
27120	220-1047	212217	SB2000-14	3078399	01659S
27121	220-1046	212940	SB2003E-3N	3080975	01663
27125	220-1035	216707	00703	3080976	01662S
27128	220-1050	218847	01721S-OEM	3081081	161-1045L
27129	220-1052	219091	161-1072L	3081212	160-1305
27135	220-1028	3000926	00603	3083991	01847S
27144	220-1043	3006456	140-7994	3084020	SB1953E-3
27211	220-1059	3006457	140-7264	3084041	SB1953E-2C
27264	220-1015	3007225	01533S	3084045	01756
27268	220-1009	3007759	240-1009R	3084980	01847S
27270	220-1017	3011934	240-1009	3086436	00602S
27274	220-1024	3011935	240-1010	3088389	01734
27276	220-1018	3013330	187-1061	3088391	01533S
27277	220-1085	3013331	187-1062	3088393	01534
27280	220-1010	3017759	SB2003E-1	3088978	SB1812E-4
27281	220-1021	3018818	140-7373	3088980	SB1812E-4
27282	220-1030	3020211	SB1853E-2	3090372	140-8496
27283	220-1026	3021693	140-7610	3090703	SB1812E-9
27284	220-1006	3024333	00602S	3090704	SB1812E-9
27285	220-1005	3024395	01533S	3104445	SB1953E-4
27287	220-1076	3026296	SB2381E-1	3166410	01847S
27288	220-1004	3028070	SB1812E-4	3170135	140-8496
27289	220-1002	3028071	SB1812E-4+010	3201311	140-7610
27290	220-1023	3028072	SB1812E-4+020	3202210	140-7610
27291	220-1033	3028073	SB1812E-4+030	3226064	01656S
27297	220-1025	3029333	00602	3226068	01721S-OEM
27299	220-1013	3031098	SB2381E-1+010	3275354	121-1027
27300	220-1072	3032285	SB2006E-1	3275355	01420S
27301	220-1074	3032287	SB2006E-1+010	3275356	01420S
27302	220-1093	3032288	SB2006E-1+020	3278173	140-8420
27306	220-1096	3032289	SB2006E-1+030	3281508	VL156
27309	220-1077	3032291	SB2006E-1+005	3284377	190-1530
27324	220-1080	3033232	160-1304	3328781	122-1241
		3033233	160-1303	3328785	140-8210
		3033234	01532	3328786	140-3008
		3033235	01531	3394111	122-1437
		3033314	140-7625	3394115	140-3158
		3034827	01734	3395612	SB1722E-3
		3035026	240-1011R	3406657	01659S
		3035110	01533S	3406659	00602S
111446	160-1306	3035996	160-1305	3406702	240-1009
118939	187-1051	3036933	187-1066	3412352	240-1030
123542	00603	3036934	187-1067	3417713	01658S
123558	187-1052	3040830	00602	3417714	01662SNR
123659	00602S	3050369	140-7994	3417715	01662S
127554	121-1006	3052819	SB2381E-1C	3417717	240-1011
127930	SB2003E-1N	3052820	01738S	3417778	01663
127930A	SB2006E-1N	3054590	SB2006E-5	3417779	01662S
127930B	SB2006E-1N	3054591	SB2006E-5+010	3418020	01663
127931	SB2006E-1N+010	3054600	SB2006E-5	3418021	01662SNR
127932	SB2006E-1N+020	3054601	SB2006E-5+010	3418040	SB1812E-4
127933	SB2006E-1N+030	3062096	187-1068	3418052	SB1812E-4T
127935	SB2006E-1N+005	3064281	122-1239	3606766	122-1374
135957	00603	3064312	140-8134	3606856	01720S
138886	00703	3065900	01662SNR	3629006	160-1176
138887	00702	3065934	160-1641	3629007	160-1641
138937	140-1941	3065936	161-1045L	3630628	160-1641
144911	00326S	3068519	01660	3633840	160-1641
145701	00602S	3068828	01663	3640315	161-1045L
146731	160-1424	3069672	01661S	3643725	160-1641
146732	160-1423	3069692	SB2006E-7C	3678536	240-1030R
154390	SB1691E-2	3070159	01662SNR	3679537	SB1874E-2
154391	SB1691E-2+010	3070174	160-1414	3679551	160-1479
154946	140-8420				
156641	122-1362				

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2111945	00602S	2112117	01199	2112351	00852S
2111947	00976	2112119	01212	2112352	00574S
2111948	00969	2112120	01103	2112355	01423
2111949	00970	2112121	01102	2112356	01422S
2111952	01002	2112127	01179	2112357	01393
2111963	01332	2112128	00922	2112358	00752S
2111964	00949	2112129	00921	2112359	00751S
2111965	01329	2112131	01160	2112360	01399
2111966	00938	2112132	01161	2112361	01384S
2111966.015	00938+15	2112133	01215	2112364	01814
2111967	01177S	2112136	01216	2112365	01813
2111970	01120	2112141	01261S	2112366	01380
2111974	01164	2112142	01180	2112366.015	01380+15
2111975	01047	2112146	01186	2112367	01385SN
2111977	00974	2112147	01326	2112368	01386S
2111980	01107	2112148	01273	2112369	01367
2111982	01048	2112149	01257	2112369.015	01367+15
2111983	01288	2112150	01258	2112370	10406
2111992	01289	2112151	01325	2112371	10407S
2111993	00989	2112152	01260	2112402	10076
2112001	01106	2112155	00702	2112403	10083
2112010	00912	2112156	01272	2112404	10065
2112011	01000	2112157	01271	2112405	10064
2112014	01457	2112159	01324	2112416	10078
2112016	01001	2112160	01296	2112425	10307
2112022	00988	2112162	01263	2112428	10037
2112023	01188	2112163	01247	2112435	01654
2112024	01082	2112164	01285	2112437	01598
2112025	01189	2112165	01245	2112438	01397
2112026	01105	2112168	01293	2112439	01366
2112028	01073	2112169	01300	2112443	01419
2112032	01152	2112173	01217S	2112444	01417
2112033	01133S	2112174	00874	2112453	01395
2112034	01148	2112175	01292	2112454	01394
2112035	01147	2112181	01294S	2112455	01379
2112044	00924	2112182	01598	2112456	01378
2112045	00923	2112184	01323	2112461	01242
2112047	01156	2112185	00873	2112461.015	01242+15
2112048	00997	2112193	01241SN	2112462	01500
2112049	00996S	2112197	01597	2112463	01452
2112052	01098	2112201	01322	2112464	01451
2112055	01037	2112205	01321	2112471	01449
2112066	01084	2112207	01320	2112472	01448
2112067	01083	2112208	01328	2112474	01470
2112069	01093	2112208.003	01328+3	2112475	01469
2112072	01195	2112208.015	01328+15	2112482	01446
2112072.003	01195+3	2112209	01327	2112483	01415S
2112072.015	01195+15	2112210	01057S	2112484	01403
2112073	01097	2112212	01311	2112485	01377
2112075	00489	2112213	01309	2112487	01350S
2112076	01172	2112215	01312S	2112488	01351S
2112080	01137	2112217	01310	2112489	00753S
2112080.015	01137+15	2112240	10048	2112490	00755
2112082	01170	2112274	10015	2112491	01314S
2112082.015	01170+15	2112281	10036S	2112492	01205S
2112085	01307	2112290	10031	2112495	01146S
2112087	01171	2112291	10033S	2112496	01145S
2112089	01169	2112309	01354	2112497	01484
2112089.015	01169+15	2112317	10070	2112499	01483S
2112096	01087	2112320	10069	2112500	01481
2112099	01135	2112323	01362	2112501	01480
2112099.003	01135+3	2112324	01361	2112502	01336S
2112099.015	01135+15	2112327	10061	2112503	01375
2112104	01238	2112328	10060S	2112508	01526
2112104.015	01238+15	2112333	01365	2112509	01525S
2112105	01237	2112334	10087	2112512	01523S
2112105.015	01237+15	2112335	10086	2112513	01524
2112106	00883	2112336	01357	2112514	01450
2112107	00882A	2112337	01432	2112536	01018
2112111	00982S	2112338	01431S	2112537	00400
2112112	00983	2112340	10056	2112547	01042
2112113	01210	2112346	01388	2112548	01041
2112116	01200	2112347	01387	2112549	01442
		2112348	01381	2112550	01441
		2112349	01382	2112551	01455
		2112350	01383SN	2112552	01456
				2112554	01482S
				2112555	10370S
				2112556	10367
				2112559	01507
				2112560	01506S
				2112561	01543
				2112562	01542
				2112563	10268
				2112565	10269
				2112570	10255
				2112571	10256
				2112579	10271
				2112580	10270
				2112581	10275
				2112582	10276S
				2112583	10281
				2112584	10282
				2112587	10106
				2112588	10107
				2112589	10176
				2112590	10177
				2112591	10308
				2112594	10323
				2112595	10322
				2112597	10328A
				2112603	10328A
				2112604	10330A
				2112609	10217
				2112611	01508
				2112616	01511
				2112617	01512
				2112625	01412
				2112626	01590S
				2112636	01404
				2112637	01471S
				2112638	01408
				2112649	01471S
				2112650	01479
				2112652	01478
				2112654	10216
				2112655	10215S
				2112658	10193
				2112663	10413
				2112669	10192
				2112674	10214
				2112677	10236
				2112679	10237
				2112680	10060S
				2112687	01505
				2112688	01504
				2112689	00602
				2112692	01528
				2112693	01527
				2112694	01649
				2112695	01648
				2112696	10386
				2112697	10385
				2112700	01553
				2112701	01552
				2112702	01555
				2112703	01554
				2112704	01429S
				2112706	01537
				2112707	01538
				2112708	01546
				2112709	01545
				2112710	10145
				2112711	10146S
				2112712	01305S
				2112715	01578S
				2112717	01235S
				2112718	10129
				2112719	10127
				2112720	01551
				2112721	01550
				2112722	01569

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DANA/PERFECT CIRCLE (Cont'd)							
2112723	01568	2113203	01667	2121201	160-1424	2141029	181-1023
2112724	02057	2113204	01666	2121202	160-1024	2141030	181-1012
2112725	02058	2113205	01671	2121203	160-1008	2141034	184-1038
2112726	01711	2113206	01670	2121205	160-1161	2141035	184-1040
2112727	01710	2113207	01703	2121206	160-1162	2141037	184-1020
2112728	01389	2113208	01675	2121207	160-1227	2141038	183-1020
2112731	01646S	2113209	01705	2121209	160-1149	2141047	181-1041
2112734	01674	2113210	01702	2121221	160-1023	2141048	181-1040
2112735	01673	2113211	01712	2121228	160-1016	2141053	181-1020
2112736	01726	2113212	01704	2121231	160-1014	2141055	181-1021
2112737	01727	2113213	01714	2121238	160-1028	2141056	184-1023
2112738	01591	2113214	01713	2121239	160-1029	2141057	181-1014
2112739	01536	2113215	01858	2121245	160-1041	2141058	184-1034
2112740	01535	2114010	01695S	2121263	160-1031	2141061	183-1027
2112742	01592	2114256	02103	2121282	160-1001	2141063	183-1022
2112746	10104	2114257	02220	2121283	160-1025	2141073	184-1039
2112747	10105	2121002	160-1286	2121284	160-1170	2141078	181-1034
2112748	01532	2121003	160-1285	2121285	160-1171	2141084	184-1022
2112749	01531	2121007	160-1604	2121290	160-1184	2141086	183-1014
2112752	01204	2121009	160-1223	2121291	160-1192	2141089	184-1025
2112753	01203	2121010	160-1220	2121294	160-1049	2141091	184-1032
2112756	01402	2121013	160-1114	2121314	160-1069	2141092	184-1035
2112757	01376S	2121019	160-1188	2121322	160-1202	2141093	183-1015
2112758	00867	2121022	160-1296	2121329	160-1083	2141096	181-1016
2112759	01055	2121026	160-1433	2121330	160-1099	2141102	181-1057
2112761	01520	2121029	160-1503	2121333	160-1064	2141107	187-1080
2112762	01519	2121038	160-1115	2121334	160-1079	2141108	187-1051
2112763	10117	2121041	160-1288	2121339	160-1086	2141114	187-1062
2112764	10116	2121046	160-1289	2121342	160-1072	2141115	187-1061
2112767	10141	2121050	160-1116	2121343	160-1096	2141117	187-1067
2112768	10142	2121051	160-1117	2121344	160-1097	2141118	187-1066
2112769	10277	2121052	160-1118	2121354	160-1080	2141127	181-1008
2112770	10278S	2121053	160-1119	2131629	VL21	2141134	184-1033
2112771	10624	2121059	160-1120	2131635	VL8	2142034	180-1059
2112772	10625	2121061	160-1121	2131638	VL37	2142037	180-1055
2113000	10141	2121071	160-1122	2131646	VL5	2142038	180-1056
2113001	10142	2121074	160-1124	2131650	VL32	2142068	181-1048
2113002	01553	2121078	160-1125	2131667	VL35	2142069	180-1077
2113003	01552	2121083	160-1295	2131669	VL9	2142070	180-1078
2113006	10145	2121084	160-1126	2131674	VL49	2142084	180-1037
2113007	10146S	2121092	160-1127	2131675	VL31	2142107	181-1035
2113010	01546	2121094	160-1206	2131679	VL89	2142113	180-1004
2113011	01545	2121097	160-1290	2131682	VL67RH	2142121	180-1229
2113022	10117	2121106	160-1129	2131683	VL66RH	2142128	180-1029
2113023	10116	2121112	160-1205	2131686	VL64	2142141	180-1080
2113025	01131	2121116	160-1608	2131692	VL63	2142142	180-1079
2113028	01557	2121119	160-1130	2131694	VL48	2142145	180-1028
2113029	01556	2121125	160-1131	2131703	VL83	2154002	190-1349
2113033	10118	2121129	160-1132	2131710	VL109	2154008	190-1269
2113034	10153	2121131	160-1154	2131714	VL81	2154012	192-1331
2113039	01784	2121136	160-1134	2131721	VL88	2154013	192-1330
2113058	10126A	2121139	160-1135	2131722	VL87	2154038	190-1237
2113059	10128A	2121140	160-1136	2131723	VL86	2154039	190-1222
2113062	10162	2121141	160-1137	2131724	VL94	2154041	190-1221
2113063	10163	2121142	160-1011	2131725	VL114	2154049	190-1426
2113066	01699	2121143	160-1139	2131730	VL121	2154050	190-1280
2113067	01698	2121144	160-1140	2131735	VL519	2154051	192-1321
2113070	10235	2121145	160-1141	2131736	VL119	2154059	192-1229
2113173	01571S	2121149	160-1143	2131737	VL106	2154078	190-1478
2113174	01570	2121151	160-1145	2131738	VL115	2154082	190-1411
2113175	10103	2121153	160-1006	2131742	VL100	2154085	190-1327
2113176	10102S	2121154	160-1148	2131743	VL113	2154086	192-1339
2113177	10169	2121157	160-1221	2131746	VL141	2154087	192-1338
2113178	10170	2121163	160-1000	2131747	VL116	2154088	192-1322
2113185	10195	2121164	160-1150	2131749	VL146	2154089	190-1342
2113186	10196	2121165	160-1151	2131750	VL106	2154093	190-1429
2113187	10414	2121165	160-1152	2131752	VL150	2154100	190-1328
2113188	10143	2121167	160-1175	2131753	VL141	2154104	190-1440
2113189	10144	2121168	160-1144HP	2131756	VL138	2154106	190-1385
2113191	10219	2121180	160-1044	2131763	VL135	2154107	192-1381
2113192	10221S	2121185	160-1160	2131777	VL163	2154108	190-1489
2113201	01665	2121190	160-1164	2141005	184-1038	2154109	190-1384
2113202	01664	2121193	160-1005	2141016	183-1030	2154111	190-1450
		2121197	160-1012	2141017	183-1024	2154113	190-1408
		2121198	160-1009	2141020	181-1011	2154116	190-1403
		2121200	160-1423	2141021	183-1026	2154117	190-1433

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2154126	192-1229	2165210	121-1023	2173265	140-7451N
2154133	192-1399	2165214	121-1026	2173265.002	140-7451N+2
2154134	192-1409	2165215	121-1027	2173266	140-1954
2154137	190-1396	2165216	121-1028	2173268	140-1953
2154152	190-1421	2165217	121-1047	2173269	140-1927
2154154	190-1417	2165219	121-1030	2173270	140-1977
2154158	190-1370	2165220	121-1031	2173271	140-1976
2154160	190-1351U60	2165221	121-1024	2173272	140-6990
2154161	190-1425	2165223	121-1034	2173273	140-6730
2154162	190-1422	2165228	121-1052	2173275	140-8200
2154169	190-1395	2165229	121-1039	2173283	140-1888
2154170	190-1351	2167021	220-1005	2173286	140-6905
2154187	190-1435	2167026	220-1018	2173288	140-1823
2154193	190-1443	2167052	220-1019	2173291	140-6107
2154199	190-1438	2167054	220-1016	2173302	140-7662
2154200	192-1446	2167055	220-1013	2173303	140-7661
2154202	190-1454	2167106	220-1014	2173304	140-9298
2154204	192-1484	2167107	220-1017	2173306	140-7448
2154205	190-1449	2173164	140-5604	2173307	140-7447
2154206	192-1453	2173166	140-7459	2173309	140-7656
2154207	190-1531	2173167	140-7946	2173310	140-7457
2154233	190-1467	2173170	140-6110	2173311	140-7456
2154234	192-1462	2173172	140-5612	2173313	140-7873
2154235	190-1473	2173173	140-6113	2173314	140-8017
2154236	190-1455	2173175	140-9523	2173315	140-7826
2154241	192-1481	2173177	140-6119	2173318	140-8202
2154242	192-1482	2173178	140-7554	2173319	140-8201
2154243	192-1480	2173180	140-6869	2173321	140-8021
2154246	192-1484	2173181	140-6111	2173325	140-7336
2161003	122-1043	2173182	140-7259	2173326	140-8038
2161060	122-1007	2173183	140-6114	2173330	140-8016
2161064	122-1005	2173184	140-6116	2173331	140-8039
2161071	122-1059	2173185	140-1973	2173332	140-7625
2161102	122-1263	2173188	140-1972	2173333	140-7999
2161103	122-1089	2173195	140-7713	2173335	140-8114
2161111	122-1088	2173196	140-7714	2173336	140-8115
2161112	122-1006	2173200	140-8155	2173337	140-1337
2161114	122-1053	2173201	140-7830	2173338	140-1338
2161118	122-1086	2173205	140-8143	2173342	140-1342
2161130	122-1177	2173207	140-7659	2173344	140-1342
2161144	122-1079	2173209	140-7659	2173366	140-8147
2161160	122-1136	2173210	140-8194	2173378	140-8172
2161163	122-1023	2173211	140-1941	2173379	140-1970
2161189	122-1218	2173214	140-1968	2173380	140-8142
2161192	122-1330	2173216	140-8193	2173402	140-7499
2161204	122-1114	2173218	140-7577	2173406	140-7545
2161205	122-1155	2173226	140-9612	2173407	140-7359
2162502	161-1012	2173227	140-9869	2173421	140-1421
2162504	161-1020	2173228	140-9111	2173425	140-7198
2162506	161-1030	2173229	140-8407	2173426	140-6873
2162507	161-1018	2173229	140-9606	2173426	140-7198
2162508	161-1029	2173230	140-9607	2173427	140-8040
2162509	161-1040	2173231	140-9604	2173431	140-9705
2162513	161-1013	2173232	140-9106	2173433	140-9584
2163013	161-1023	2173234	140-9110	2173434	140-8113
2163139	161-1006	2173234	140-9110	2173435	140-8112
2165080	121-1000	2173234	140-9110	2173435	140-8112
2165081	121-1001	2173234	140-9110	2173446	140-7373
2165096	121-1002	2173245	140-9113	2173450	140-7712
2165117	121-1003	2173245	140-9111	2173451	140-8147
2165142	121-1006	2173249	140-9206	2173452	140-8219
2165144	121-1007	2173250	140-9116	2173452.002	140-8219+2
2165146	121-1009	2173251	140-9259	2173453	140-7577+2
2165147	121-1010	2173252	140-9609	2173453	140-7577+2
2165149	121-1011	2173252	140-9119	2173454	140-7575+2
2165169	121-1065	2173254	140-9119	2173454	140-1458
2165177	121-1014	2173245	140-7174	2173458	140-1458
2165183	121-1017	2173249	140-1966	2173503	140-1503
2165191	121-1018	2173250	140-7205	2173504	140-1504
2165201	121-1019	2173251	140-1810	2173505	140-1515
2165205	121-1020	2173252	140-7431	2173515	140-1515
2165206	121-1021	2173254	140-7552	2173527	140-1527
		2173255	140-7272	2173545	140-1545N
		2173257	140-6881	2173547	140-1547N
		2173258	140-7255	2173547	140-1568
		2173259	140-7216	2173577	140-1577
		2173260	140-7194	2173579	140-1579
		2173263	140-7589	2173600	140-1600
		2173264	140-7429N	2173606	140-1969
		2173264.002	140-7429N+2	2173614	140-1614
				2173618	140-1618
				2173619	140-1619
				2173620	140-1620
				2173636	140-1636
				2173673	140-1673
				2173678	140-1678
				2173680	140-1680
				2173693	140-1947
				2173697	140-1697
				2173703	140-1703
				2173704	140-1704
				2173711	140-1711
				2173717	140-1717
				2173726	140-1726
				2173732	140-1732
				2173733	140-1733
				2173745	140-1745
				2173747	140-1747
				2173804	140-1804
				2173810	140-1809
				2173813	140-1813
				2173814	140-1814
				2173816	140-8224
				2173817	140-1817
				2173829	140-1829
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				2173898	140-1898
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				2173909	140-1909
				2173914	140-1914
				2173916	140-7994
				2173920	140-1919
				2173937	140-1937
				2173943	140-1943
				2173944	140-1944
				2173946	140-1946
				2173951	140-1957
				2173967	140-8004
				2173973	140-7372
				2173974	140-6053
				2173976	140-1956
				2173983	140-7523
				2173987	140-7528
				2173990	140-7527
				2173998	140-7498
				2174000	140-7825
				2174001	140-8192
				2174004	140-7828
				2174006	140-8124
				2174007	140-6254
				2174008	140-9204
				2174009	140-8158
				2174010	140-8157
				2174011	140-8205
				2174012	140-8187
				2174013	140-8186
				2174016	140-8216

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DANA/PERFECT CIRCLE (Cont'd)	
2174017	140-8217
2174018	140-8207
2174022	140-9198
2174026	140-7208
2174027	140-7577
2174028	140-7822
2174029	140-7830
2174030	140-8195
2174033	140-8211
2174035	140-8156
2174036	140-8155
2174037	140-8324
2174038	140-8213
2174039	140-8204
2174040	140-8193
2174041	140-7458
2174042	140-5607
2174043	140-5606
2174044	140-7298
2174055	140-6469
2174056	140-5745
2174063	140-7255
2174065	140-7444
2174069	140-7074H
2174070	140-7073
2174071	140-7248
2174072	140-8004
2183690	SB1875-1N
2183732	SB2003E-1
2183786	SB2187-1C
2187323	SB1000-1
2187349	SB1125-1
2187361	SB1187-1
2187367	SB1250-2
2187369	SB1250-1
2187370	SB1250-0
2187373	SB1262E-1
2187373.01	SB1262E-1+010
2187373.02	SB1262E-1+020
2187373.03	SB1262E-1+030
2187379	SB1375-8
2187389	SB1312-1
2187390	SB1312-0
2187393	SB1375-3
2187395	SB1437-9
2187405	SB1348E-1N
2187405.01	SB1348E-1N+010
2187411	SB1375-4
2187417	SB1375-5
2187418	SB1375-0
2187419	SB1437-10
2187421	SB1437-4
2187423	SB1437-8
2187425	SB1500-5
2187439	SB1437-3
2187441	SB1437-5
2187443	SB1500-2
2187445	SB1500-6
2187447	SB1562-13
2187448	SB1562-0
2187450	SB1562-34
2187463	SB1500-1
2187464	SB1500-0
2187473	SB1562-7
2187481	SB1625-6
2187483	SB1625-7
2187487	SB1516E-1
2187493	SB1562-1
2187493.005	SB1562-1+005
2187493.01	SB1562-1+010
2187495	SB1562-2
2187497	SB1562-4
2187497.01	SB1562-4+010
2187499	SB1625-4
2187499.02	SB1625-4+020
2187501	SB1625-3
2187503	SB1687-9
2187505	SB1687-6
2187506	SB1687-0
2187507	SB1750-6
2187511	SB1624E-1N
2187521	SB1628E-2
2187521.01	SB1628E-2+010
2187521.02	SB1628E-2+020
2187521.03	SB1628E-2+030
2187525	SB1630E-1
2187525.005	SB1630E-1+005
2187525.01	SB1630E-1+010
2187525.02	SB1630E-1+020
2187531	SB1562-12
2187535	SB1625-1
2187535.005	SB1625-1+005
2187535.01	SB1625-1+010
2187536	SB1625-0
2187537	SB1625-2
2187545	SB1687-7
2187545.005	SB1687-7+005
2187547	SB1687-8
2187551	SB1750-7
2187553	SB1750-8
2187555	SB1750-9
2187559	SB1750-0
2187577	SB1678E-1
2187581	SB1687-3
2187583	SB1744E-1N
2187585	SB1750-3
2187587	SB1750-4
2187595	SB1812-7
2187597	SB1812-11
2187598	SB1812-0
2187601	SB1875-12
2187617	SB1750-2
2187617.01	SB1750-2+010
2187619	SB1750-1
2187619.01	SB1750-1+010
2187623	SB1812-5
2187623.03	SB1812-5+030
2187631	SB1875-9
2187635	SB1875-0
2187643	SB1937-9
2187651	SB1812-1
2187661	SB1875-2
2187669	SB1937-4
2187670	SB1937-0
2187677	SB1875-7
2187687	SB1875-1
2187697	SB1937-5
2187703	SB2000-6
2187705	SB2000-3
2187708	SB2000-0
2187729	SB1937-1
2187733	SB2000-2
2187737	SB2062-8
2187739	SB2088E-1
2187739.015	SB2088E-1+015
2187739.03	SB2088E-1+030
2187751	SB2000-1
2187763	SB2125-10
2187765	SB2125-0
2187783	SB2125-1
2187785	SB2187-2
2187799	SB1847E-1
2187800	SB1691E-1
2187800.01	SB1691E-1+010
2187801	SB2129E-1
2187802	SB1880E-2
2187802.02	SB1880E-2+020
2187803	SB1442E-2
2187804	SB1505E-1
2187805	SB1687E-1N
2187806	SB1812E-1
2187807	SB1912E-1
2187807.01	SB1912E-1+010
2187807.02	SB1912E-1+020
2187808	SB2150E-1
2187808.01	SB2150E-1+010
2187808.02	SB2150E-1+020
2187809	SB2004E-2
2187810	SB2503E-2
2187811	SB2435E-1
2187811.02	SB2435E-1+020
2187812	SB2503E-1
2187813	SB1442E-1
2187813.005	SB1442E-1+005
2187813.01	SB1442E-1+010
2187813.02	SB1442E-1+020
2187813.03	SB1442E-1+030
2187813.04	SB1442E-1+040
2187813.063	SB1442E-1+063
2187814	SB2020E-1
2187815	SB1690E-1
2187817	SB1161E-1
2187817.005	SB1161E-1+005
2187817.01	SB1161E-1+010
2187817.02	SB1161E-1+020
2187817.03	SB1161E-1+030
2187817.04	SB1161E-1+040
2187817.062	SB1161E-1+062
2187818	SB2590E-1
2187818.01	SB2590E-1+010
2187818.02	SB2590E-1+020
2187819	SB1437-2
2187820	SB1687-2
2187820.01	SB1687-2+010
2187821	SB1750-52
2187822	SB1500-50
2187824	SB1750-51
2187825	SB1375-50
2187827	SB1562-50
2187828	SB1812-55
2187831	SB1500-54
2187832	SB1437-60
2187834	SB1375-55
2187836	SB1437-61
2187837	SB1625-59
2187838	SB1500-70
2187839	SB1500-56
2187840	SB1250-50
2187841	SB2375-2
2187842	SB1375-51
2187843	SB1500-62
2187844	SB1750-61
2187846	SB1312-53
2187847	SB1875-51
2187848	SB1625-56
2187848.03	SB1625-56+030
2187850	SB1312-52
2187852	SB1812-51
2187855	SB1812-54
2187856	SB1812-56
2187857	SB1625-60
2187859	SB1812-53
2187861	SB1937-51
2187862	SB1625-58
2187863	SB1750-59
2187865	SB1625-52
2187866	SB1375-56
2187867	SB1937-52
2187868	SB1562-67
2187869	SB1500-71
2187870	SB1312-59
2187876	SB1803E-1
2187877	SB1628E-1N
2187877.01	SB1628E-1N+010
2187877.013	SB1628E-1N+013
2187878	SB2001E-1
2187878.01	SB2001E-1+010
2187878.013	SB2001E-1+013
2187879	SB2444E-1
2187879.03	SB2444E-1+030
2187879.062	SB2444E-1+062
2187880	SB2562-1
2187881	SB2250-1
2187882	SB1812E-4
2187882.005	SB1812E-4+005
2187882.01	SB1812E-4+010
2187882.02	SB1812E-4+020
2187882.03	SB1812E-4+030
2187900.02	SB1695E-1+020
2187926	SB1500-73
2187927	SB1875-50
2187939	SB1750-68
2187940	SB1562-72
2187943	SB1500-74
2187944	SB1500-77
2187945	SB1250-56
2187946	SB1312-67
2188439	SB1437-3
2188661	SB1875-2
2303029	186-1100
B45908	122-1358
GTA878	122-1241
R18E11F	122-1075
R18H08MF	122-1052
T1208	122-1192
VS143	122-1207
VS1610	122-1009
VS1612	122-1011
VS18	122-1223
VS1811	122-1014
VS1812	122-1015
VS1912	122-1017
VS47	122-1221
VS52	122-1212
VS55	122-1077
VS56	122-1031
VS64	122-1215

DETROIT DIESEL

10137454	01482S
14025511	01483S
14033927	01484
14033928	01482S
14050661	01482S
23500054	01482S
23500056	01483S
23500058	01484
23500061	01483S
23500480	122-1221
23500501	01500
23501576	13000
23501577	13001
23501580	240-1017
23502067	01455
23502068	01456
23505104	140-8133
23506350	01566
23507238	121-1003
23507504	01566
23515470	240-1017R
23518571	140-8591
23523930	122-1242
23524521	01566
23525179	13001S
23529004	13083S
23529596	13001
23529629	13000
23530359	160-1486
23533147	240-1035R
23533148	240-1035

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23533552	140-8591	5198232	SB1628E-2+020	74045	122-1079	P810235	122-1202
23534743	240-1045R	5198233	SB1628E-2+030	74046	122-1067	P810237	122-1149
23534745	240-1045	5199323	00759	74048	122-1038	P810238	122-1155
23535122	160-1486	5199527	240-1012	74052	122-1203	P810239	122-1142
23535296	160-1418	5199938	01366	74120	122-1238	P810240	122-1067
23536862	240-1035SH+007	6310193	140-7563	74125	122-1048	P810241	122-1215
23536863	240-1035SH+012	7129248	140-7563	74126	122-1069	P810242	122-1216
23536864	240-1035SH+018	7134379	140-7563	74133	122-1246	P810246	122-1232
23538829	240-1045	7135923	140-7564	74147	122-1132	P810251	122-1086
23538840	240-1039	8380291	121-1003	74149	122-1086	P810254	122-1086
5101101	SB1262E-1	8920119	01456	74151	122-1116	P810255	122-1088
5101102	SB1262E-1	8920390	240-1018R	74155	122-1141	P810256	122-1114
5101315	SB1442E-1+010	8920404	240-1018	74181	122-1067	P810258	122-1162
5104280	01429S	8921209	122-1223	74183	122-1330	P810264	122-1204
5104701	240-1013R	8921347	01455	74185	122-1053	P810269	122-1077
5106136	01366	8921501	SB1161E-1	74186	122-1053	P810270	122-1069
5108918	187-1069	8921502	SB1161E-1	74224	122-1073	P810271	122-1200
5109925	01018	8921741	122-1224	74225	122-1198	P810274	122-1052
5111332	240-1015	8922388	240-1014	74237	122-1149	P810275	122-1232
5111336	01500	8922516	01500	74238	122-1155	P810276	122-1202
5111337	121-1011	8923813	187-1079	74241	122-1215	P810277	122-1205
5114288	01500	8923814	187-1080	74246	122-1232	P810282	122-1150
5116137	00758	8924439	187-1081	74251	122-1086	P810286	122-1252
5116196	SB1441E-1	8925203	121-1007	74254	122-1086	P810287	122-1254
5116341	121-1017	8925606	240-1012	74255	122-1088	P810290	122-1449
5116361	SB1161E-1	8925981	240-1013	74256	122-1114	P810291	122-1227
5116362	SB1161E-1+020	8927794	160-1186	74258	122-1162	P810293	122-1260
5116363	SB1161E-1+030	8927857	160-1194	74264	122-1204	P810295	122-1206
5117561	160-1186	8927920	SB1628E-2	74269	122-1077	P810298	122-1139
5119293	240-1016	8929072	122-1242	74270	122-1069	P810299	122-1263
5119992ND	140-1832	8929078	240-1017	74274	122-1052	P810304	122-1086
5120930	140-1680	8929105	161-1039	74275	122-1232	P810306	122-1230
5125917	00759	8929126	SB1628E-3	74277	122-1205	P810307	122-1155
5129919	140-1946	8929127	SB1819E-1	74286	122-1252	P810314	122-1075
5131096	SB1628E-2	8929415	160-1418	74287	122-1254	P810318	122-1158
5131614	SB1161E-1	8929573	121-1080	74290	122-1449	P810323	122-1251
5131961	140-6254	8929589	01567	74291	122-1227	P810324	122-1229
5138653	140-6546	8929590	01566	74293	122-1260	P810327	122-1236
5139982	SB1899E-1	8929625	SB1819E-1+010	74295	122-1206	P810329	122-1226
5142777	01500	8929626	SB1819E-1+020	74298	122-1139	P810333	122-1260
5142960	00411	8929628	SB1628E-3+010	74299	122-1263	P810336	122-1234
5144019	160-1185	8929629	SB1628E-3+020	74300	122-1086	P810338	122-1263
5145172	00759	8929630	SB1628E-3+030	74314	122-1075	P810340	122-1159
5147347	160-1186	A0249976445	240-1051R	74323	122-1251	P810372	122-1147
5147424	160-1187	A0269978245	240-1051R	74324	122-1229		
5148489	01366	A4710500426	13381	74327	122-1236	DIVERCO	
5148490	SB1442E-1	A4710500527	13382	74329	122-1226	DPR230	192-1504
5148493	SB1442E-1+020	A47200530158	122-1461	74333	122-1260	DPR230A	192-1503
5148494	SB1442E-1+030	A4720350220	160-1679	74340	122-1159	DPR441	192-1337
5149042	01366	A4720530026	121-1073	P810001	122-1043	DPR442	192-1336
5149386	01429S	A4720530420	160-1636	P810005	122-1075	DRK434	181-1020
5149724	240-1018	A4720530520	160-1637	P810029	122-1114		
5149742	01455	A4720530558	122-1461	P810045	122-1079	DURABOND	
5149743	01456	A4720780273	240-1051	P810046	122-1067	30015	SB1500-50
5149771	01366	A4730500126	13354	P810052	122-1203	30031	SB1500-54
5150041	240-1013	A4730500127	13355S	P810125	122-1077	30045	SB1500-57
5150289	160-1188	DDEA1020530026	121-1132	P810126	122-1069	30138	SB1875-53
5160037	240-1013R	DDEA5419970345	240-1047R	P810132	122-1199	30165	SB1750-68
5178590	140-1680	DDEA9060170488	240-1047	P810136	122-1136	30230	SB1250-56
5185327	00327	DDEA9060500326	13360	P810139	122-1136	30238	SB1375-56
5186381	00411	DDEA9060500327	13361	P810146	122-1132	30503	SB1562-2
5193197	00327	DDEA9060530020	160-1644	P810147	122-1132	30509	SB1875-2
5193198	00411	DDEA9060530120	160-1643	P810149	122-1086	30530	SB1812-3
5193666	00411	DDEA9060530130	140-3176	P810151	122-1116	30537	SB2125-4
5194968	01500	DDEA9060530358	122-1462	P810153	122-1150	30541	SB1562-9
5195167	01500			P810154	122-1262	30542	SB1818E-1
5195948	00758	DETROIT GASKET		P810155	122-1141	30556	SB1437-1
5196606	00759	20712	230-2049	P810163	122-1187	30557	SB2125-1
5196752	SB1161E-1+010	74001	122-1043	P810170	122-1125	30558	SB1375-1
5197167	SB1262E-1+010	74005	122-1270	P810181	122-1067	30559	SB1687-4
5197168	SB1262E-1+020	74011	122-1039	P810183	122-1330	30559	SB1687-55
5197170	SB1262E-1+030	74019	122-1206	P810185	122-1053	30560	SB1937-1
5197176	01018	74029	122-1114	P810224	122-1073	30562	SB1312-50
5198230	SB1628E-2+010	74032	122-1127	P810225	122-1198	30562	SB1312-56
				P810226	122-1075		
				P810234	122-1201		

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	30700	SB2000-2	30919	SB1875-9	31156	SB1375-10
	30700	SB2006E-1	30920	SB1875-14	31157	SB1375-5
	30700+10	SB2006E-1+010	30923	SB1875-11	31160	SB1437-30
30563	SB1312-64	30700+5	30932	SB1937-4	31161	SB1437-5
30640	SB1562-6	30701	30933	SB1937-27	31163	SB1142E-28
30640	SB1562-6PM	30702	30935	SB1937-23	31165	SB1750-17
30642	SB1630E-1	30705	30936	SB1937-17	31166	SB1937-20
30643	SB1562-1	30706	30952	SB2000-7	31168	SB1102E-1
30643	SB1562-1PM	30707	30963	SB2062-3	31169	SB1142E-2
30643+10	SB1562-1+010	30709	30974	SB2125-34	31170	SB1181E-1
30643+5	SB1562-1+005	30710	30984	SB2187-4	31171	SB1221E-2
30644	SB1562-4	30711	30989	SB2250-1	31172	SB1260E-1
30644+10	SB1562-4+010	30711	30991	SB2312-9	31173	SB1299E-1
30645	SB1562-7	30712	30994	SB2375-2	31174	SB1339E-2
30646	SB1625-2	30712	31000	SB1812-10	31175	SB1378E-1
30647	SB1562-17	30712	31030	SB1437-3	31176	SB1417E-1
30648	SB1625-1	30713	31030	SB1437-3PM	31177	SB1457E-2
30648	SB1625-1PM	30714	31031	SB1437-2	31178	SB1496E-1
30648+5	SB1625-1+005	30715	31031	SB1437-2PM	31179	SB1535E-1
30649	SB1625-4	30717	31032	SB1500-10	31181	SB1575E-3
30649	SB1625-4PM	30718	31033	SB1562-3	31182	SB1614E-1
30650	SB1625-3	30720	31034	SB1875-51	31183	SB1654E-3
30651	SB1625-10	30722	31042	SB1687-29	31186	SB1693E-4
30652	SB1750-7	30723	31045	SB1750-11	31187	SB1732E-1
30653	SB1750-8	30724	31045	SB1750-34	31188	SB1811E-1
30654	SB1750-9	30725	31046	SB1625-33	31189	SB1890E-2
30655	SB1750-3	30726	31047	SB1062-50	31190	SB1929E-1
30656	SB1750-4	30727	31048	SB1125-52	31193	SB2008E-2
30657	SB1750-5	30729	31050	SB1187-52	31194	SB2047E-1
30658	SB1750-2	30730	31053	SB1250-3	31195	SB2087E-2
30658	SB1750-2PM	30731	31054	SB1250-52	31199	SB1562-67
30658	SB1750-38	30732	31058	SB1312-57	31204	SB1500-62
30659	SB1750-1	30733	31058	SB1312-68	31205	SB1500-77
30659	SB1750-39	30736	31063	SB1375-52	31207	SB1500-74
30660	SB1750-13	30754	31064	SB1375-26	31215	SB1750-61
30661	SB1625-9	30754	31064	SB1375-51	31218	SB1625-56
30662	SB1625-6	30774	31064	SB1375-64	31223	SB1625-62
30663	SB1625-52	30775	31068	SB1457E-2	31225	SB1437-10
30663	SB1625-7	30775	31080	SB1562-66	31225	SB1437-24
30664	SB1687-17	30779	31090	SB1828E-1	31225	SB1437-9
30664	SB1687-2	30779	31091	SB1875-0	31227	SB1772E-2
30664	SB1687-2PM	30786	31092	SB1875-56	31228	SB1850E-2
30667	SB1812-4	30786	31097	SB1125-2	31234	SB1625-17
30667	SB1812-4PM	30787	31097	SB1125-5	31237	SB1812-50
30668	SB1812-2	30787	31097	SB1125-6	31238	SB1875-19
30668	SB1812-8	30788	31102	SB1375-50	31239	SB1812-51
30670	SB1687-1	30790	31104	SB1562-31	31240	SB2125-31
30671	SB1812-1	30791	31105	SB1250-58	31241	SB1500-58
30671	SB1812-38	30792	31111	SB1437-25	31242	SB1937-19
30672	SB1812-5	30801	31112	SB1562-0	31243	SB1812-53
30673	SB1687-3	30802	31117	SB1750-60	31244	SB1500-73
30674	SB1687-22	30802	31124	SB2125-32	31248	SB1375-22
30674	SB1687-27	30803	31125	SB1375-6	31249	SB2062-25
30674	SB1687-9	30806	31128	SB1750-10	31251	SB1562-74
30675	SB1687-6	30809	31129	SB1750-0	31252	SB2250-12
30676	SB1687-11	30818	31129	SB1750-32	31252	SB2250-2
30676	SB1687-23	30822	31131	SB1812-18	31255	SB1500-30
30678	SB1687-7	30823	31131	SB1812-19	31258	SB1500-53
30679	SB1687-10	30838	31134	SB1937-30	31261	SB2250-35
30679	SB1687-8	30839	31134	SB1937-7	31262	SB1937-6
30680	SB1812-21N	30840	31135	SB2187-1	31269	SB1812-17
30681	SB1875-20	30841	31137	SB1812-54	31270	SB1687-0
30681	SB1875-6	30853	31139	SB1375-61	31280	SB2000-11
30682	SB1875-1	30853	31139	SB1375-62	31281	SB1937-52
30682	SB1875-35	30854	31142	SB1062-4	31282	SB2187-27
30683	SB1875-4	30857	31143	SB1125-10	31283	SB1812-12
30684	SB1875-17	30857+6	31143	SB1125-4	31285	SB1812-55
30685	SB1875-18	30871	31145	SB1187-5	31286	SB1562-66
30687	SB1875-7	30872	31146	SB1187-51	31287	SB1562-69
30690	SB2000-36	30873	31147	SB1250-1	31288	SB1687-51
30691	SB2000-1	30873	31148	SB1250-12	31289	SB1312-11
30692	SB2000-17	30881	31151	SB1250-50	31289	SB1312-6
30692	SB2000-38	30889	31152	SB1250-2	31290	SB1500-29
30693	SB2000-20	30891	31152	SB1250-4	31291	SB1500-63
30694	SB2000-18	30903	31153	SB1312-10	31292	SB1562-54
30698	SB2000-15	30904	31155	SB1312-5	31318	SB1562-51
30699	SB2000-16	30905				

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31327	SB1812-52	31702	SB1691E-1	70643	SB1562-1N	71621+5	SB1262E-1+005
31329	SB1437-56	31703	SB1691E-2	70646	SB1625-2N	71633	SB1348E-1N
31330	SB2125-33	31707	SB1687-56	70648	SB1625-1N	71641	SB1441E-1
31344	SB1562-34	31708	SB1687-58	70649	SB1625-4N	71665	SB1486E-1
31352	SB1187-2	31709	SB1722E-1	70650	SB1625-3N	71671	SB1536E-2N
31373	SB1678E-1	31715	SB1750-65	70653	SB1750-8N	71680	SB1628E-2
31402	SB1437-14	31717	SB1750-59	70655	SB1750-3N	71681	SB1628E-1N
31455	SB1625-30	31718	SB1750-52	70656	SB1750-4N	71681+10	SB1628E-1N+010
31459	SB1812-0	31722	SB1782E-1	70658	SB1750-2N	71682	SB1628E-3
31467	SB1750-51	31723	SB1803E-1	70659	SB1750-1N	71691	SB1625-64N
31470	SB2250-20	31724	SB1814E-1	70664	SB1687-2N	71694	SB1638E-1N
31471	SB1937-8	31725	SB1815E-1	70667	SB1812-4N	71696	SB1654E-1N
31482	SB1625-39	31726	SB1817E-3	70670	SB1687-1N	71697	SB1657E-1
31484	SB1500-70	31726+10	SB1817E-3+010	70671	SB1812-1N	71698	SB1671E-1N
31486	SB1562-5	31727	SB1812-56	70672	SB1812-5N	71699	SB1670E-1
31488	SB1625-18	31732	SB1847E-1	70673	SB1687-3N	71701	SB1690E-1
31489	SB1625-5	31734	SB1853E-1	70674	SB1687-9N	71704	SB1693E-1N
31490	SB1687-40	31736	SB1875-13	70677	SB1687-5N	71704+10	SB1693E-1N+010
31491	SB1687-33	31737	SB1875-38	70679	SB1687-10N	71710	SB1733E-2N
31495	SB1875-50	31738	SB1875-8	70679	SB1687-4N	71721	SB1775E-1
31496	SB1937-3	31739	SB1880E-2	70680	SB1812-21N	71729	SB1819E-1
31497	SB1937-2	31741	SB1875-54	70682	SB1875-1N	71731	SB1831E-1
31498	SB2125-2	31743	SB1900E-2	70691	SB2000-1N	71735	SB1858E-1N
31499	SB2187-12	31744	SB1900E-1	70700	SB2006E-1N	71746	SB1912E-1
31600	SB1000-1	31745	SB1900E-3	70700+10	SB2006E-1N+010	71752	SB1962E-1N
31602	SB1062-51	31747	SB1937-51	70700+5	SB2006E-1N+005	71753	SB1969E-2N
31603	SB1125-55	31748	SB1937-12	70703	SB2006E-2	71757	SB2003E-1N
31604	SB1125-51	31749	SB1937-5	70704	SB2006E-3N	71758	SB2004E-2
31605	SB1125-54	31753	SB1969E-2	70711	SB1500-1N	71759	SB2004E-4N
31607	SB1125-53	31754	SB1973E-1	70724	SB2000-13N	71761	SB2004E-3N
31609	SB1187-1	31756	SB2001E-1	70726	SB2000-3N	71771	SB2088E-1
31610	SB1187-7	31756+10	SB2001E-1+010	70740	SB1562-46N	71775	SB1991E-1N
31611	SB1187-54	31757	SB2003E-1	70786	SB1375-3N	71780	SB2136E-1N
31614	SB1250-61	31762	SB2000-10	70790	SB1375-1N	71783	SB2165E-1N
31615	SB1250-59	31765	SB2020E-1	70840	SB1562-36N	71828	SB1687E-4N
31617	SB1250-53	31766	SB2049E-1	70855	SB1624E-1N	71846	SB1687E-1N
31619	SB1250-54	31768	SB2062-8	70907	SB1812-9N	71847	SB2368E-2N
31620	SB1250-60	31769	SB2062-2	70932	SB1937-4N	71869	SB1692E-1N
31622	SB1312-3	31770	SB2062-30	70994	SB2375-2N	91844	SB2381E-1C
31624	SB1312-59	31772	SB2129E-1	71030	SB1437-3N	91845	SB2381E-2C
31625	SB1312-63	31773	SB2125-3	71031	SB1437-2N		
31626	SB1312-53	31774	SB2125-10	71068	SB1457E-2N		
31630	SB1312-62	31775	SB2125-0	71086	SB1744E-1N		
31635	SB1375-55	31776	SB2125-7	71087	SB1784E-1N		
31636	SB1375-54	31777	SB2125-11	71168	SB1102E-1N		
31637	SB1375-63	31779	SB2125-38	71169	SB1142E-2N		
31638	SB1375-60	31780	SB2131E-1	71170	SB1181E-1N		
31643	SB1437-50	31782	SB2150E-1	71171	SB1221E-2N		
31644	SB1437-59	31783	SB2165E-1	71172	SB1260E-1N		
31645	SB1437-67	31785	SB2187-2	71173	SB1299E-1N		
31646	SB1437-63	31786	SB2220E-1	71174	SB1339E-2N		
31647	SB1437-66	31787	SB2250-13	71175	SB1378E-1N		
31648	SB1437-60	31788	SB2250-8	71176	SB1417E-1N		
31649	SB1437-61	31790	SB2312-4	71177	SB1457E-2N		
31650	SB1437-74	31792	SB2444E-1	71178	SB1496E-1N		
31651	SB1437-75	31827	SB1812E-3	71179	SB1535E-1N		
31652	SB1437-53	31843	SB1812E-4	71181	SB1575E-3N		
31656	SB1437-69	31843+10	SB1812E-4+010	71182	SB1614E-1N		
31658	SB1437-73	31843+5	SB1812E-4+005	71183	SB1654E-3N		
31659	SB1437-72	31844	SB2381E-1	71186	SB1693E-4N		
31666	SB1500-75	31844+10	SB2381E-1+010	71187	SB1732E-1N		
31667	SB1500-79	31868	SB1187-53	71188	SB1811E-1N		
31670	SB1516E-1	31870	SB1562-16	71189	SB1890E-2N		
31673	SB1562-77	50016	SB1562-50	71190	SB1929E-1N		
31674	SB1562-72	50168	SB1562-57	71193	SB2008E-2N		
31679	SB1609E-1	50169	SB1375-54	71194	SB2047E-1N		
31683	SB1625-8	50215	SB1375-54	71195	SB2087E-2N		
31685	SB1625-58	50221	SB1625-55	71227	SB1772E-2N		
31686	SB1625-63	50222	SB1437-58	71228	SB1850E-2N		
31687	SB1625-59	70503	SB1562-2N	71257	SB1781E-1N		
31688	SB1625-60	70541	SB1562-9N	71287	SB1562-69N		
31691	SB1625-64	70556	SB1437-1N	71608	SB1161E-1		
31692	SB1625-50	70558	SB1375-1N	71608+10	SB1161E-1+010		
31695	SB1640E-1	70559	SB1687-4N	71608+5	SB1161E-1+005		
		70640	SB1562-6N	71621	SB1262E-1		
		70642	SB1630E-1N	71621+10	SB1262E-1+010		

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1006	140-1618
1009	140-1697
1019	140-1758
1021	140-1527
1023	140-1680
1025	140-1338
1027	140-1337
1048	140-7548
1130	140-1952
1131	140-1927
1134	140-1954
1135	140-1953
1140	140-1965
1174	140-1898
1175	140-7357
1180	140-1896
1181	140-1957
1194	140-1970
1197	140-6053
1256	140-1969
1265	140-1941
1310	140-1809
1315	140-7592
1342	140-1342
1343	140-1504
1522	140-4944
1545	140-1545N
1547	140-1547N
1568	140-1568
1579	140-1881
1614	140-1614
1668	140-1747
1704	140-1704

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1725	140-1966	30220	SB1312-0	31130	SB1500-30	32050	SB2250-2
1726	140-1726	30230	SB1187-1	31140	SB1500-8	32060	SB1875-16
1732	140-1732	30240	SB1187-7	31150	SB1687-2	32070	SB1875-17
1733	140-1733	30250	SB1312-10	31170	SB1687-3	32120	SB2250-18
1745	140-1745	30260	SB1312-4	31180	SB1500-9	32130	SB1912E-1
1802	140-1543	30270	SB2049E-1	31210	SB1375-1	32133	SB1912E-1+010
1804	140-1804	30283	SB1161E-1+010	31220	SB1375-4	32140	SB2187-9
1823	140-1823	30285	SB1161E-1+020	31230	SB1562-11	32180	SB1937-19
1825	140-1973	30286	SB1161E-1+030	31240	SB1375-2	32190	SB1937-2
1826	140-1972	30287	SB1161E-1+040	31250	SB1562-12	32200	SB1937-3
1828	140-7208	30290	SB1250-2	31260	SB1562-15	32210	SB1937-7
1832	140-1832	30300	SB1250-1	31270	SB1262E-1	32220	SB2375-2
1833	140-1946	30310	SB1312-5	31273	SB1262E-1+010	32260	SB1969E-2
1837	140-7456	30320	SB1312-6	31275	SB1262E-1+020	32270	SB2000-11
1838	140-1919	30330	SB1312-7	31276	SB1262E-1+030	32280	SB2000-12
1839	140-1839	30350	SB1312-1	31277	SB1262E-1+040	32290	SB2000-15
1840	140-1840	30360	SB1375-0	31280	SB1750-2	32300	SB2000-16
1842	140-7376	30370	SB1375-10	31290	SB1750-1	32310	SB2000-17
1843	140-7376	30380	SB1375-8	31310	SB1562-18	32320	SB2000-9
1941	140-6452	30390	SB1375-3	31330	SB1500-1	32330	SB2004E-2
1943	140-1943	30400	SB1375-25	31340	SB1500-3	32350	SB2047E-1
1944	140-1944	30430	SB1375-6	31350	SB1562-3	32360	SB2062-20
1950	140-7074H	30440	SB1500-5	31370	SB1516E-1	32370	SB2062-25
1951	140-7073	30460	SB1375-7	31380	SB1875-12	32380	SB2062-3
1953	140-7194	30480	SB1437-10	31400	SB1625-14	32390	SB2062-30
1960	140-7376	30490	SB1437-8	31410	SB1875-9	32400	SB2062-5
2200	140-1962	30500	SB1437-3	31420	SB1625-17	32410	SB2125-10
2201	140-7194	30520	SB1437-5	31430	SB1625-20	32450	SB2506E-2
2203	140-6254	30530	SB1937-12	31440	SB1875-14	32460	SB2125-7
2223	140-8420	30540	SB1750-12	31460	SB1875-0	32470	SB1812-7
2224	140-7338	30560	SB1437-1	31470	SB1625-4	32480	SB1812-14
2228	140-7357	30580	SB1500-2	31480	SB1625-64	32500	SB1812-11
2231	140-7216	30590	SB2125-38	31490	SB1875-8	32510	SB1812-15
2232	140-7083	30600	SB1500-6	31500	SB1875-2	32520	SB2125-8
2234	140-7255	30630	SB1691E-1	31510	SB1625-7	32530	SB1812-2
2235	140-7255+2	30640	SB1691E-2	31520	SB1803E-1	32540	SB1812-5
2236	140-7994	30650	SB1625-6	31530	SB1875-7	32550	SB1812-8
2238	140-7242	30660	SB1900E-1	31540	SB1625-8	32580	SB1812-4
2244	140-7431	30690	SB1625-4	31560	SB1875-11	32600	SB1812-1
2251	140-7448	30700	SB1437-17	31570	SB1687-0	32610	SB2150E-1
2253	140-7429N	30720	SB1437-25	31580	SB1687-11	32620	SB1812-3
2254	140-7451N	30730	SB1437-28	31590	SB1875-1	32640	SB1687-10
2256	140-7822	30740	SB1625-3	31600	SB1937-5	32650	SB1687-7
2261	140-7589	30750	SB1630E-1	31610	SB1687-12	32660	SB1687-8
2262	140-7713	30752	SB1630E-1+005	31620	SB1818E-1	32680	SB2000-10
2263	140-7714	30753	SB1630E-1+010	31630	SB1875-6	32700	SB1937-1
2264	140-9715	30755	SB1630E-1+020	31640	SB1687-13	32720	SB2187-7
2265	140-9716	30770	SB1437-6	31650	SB2000-13	32730	SB1937-9
2271	140-9846	30780	SB1625-1	31660	SB2062-8	32740	SB2250-13
2273	140-7712	30790	SB1625-2	31670	SB1687E-1N	32760	SB2250-35
2274	140-9460H	30810	SB1640E-1	31680	SB2000-3	32770	SB2250-7
2275	140-9964H	30820	SB1562-1	31710	SB2000-0	32780	SB1937-4
2276	140-9977H	30830	SB1562-13	31720	SB2000-6	32790	SB2250-9
2277	140-7661	30860	SB1562-7	31730	SB1687-4	32800	SB2000-1
2278	140-7662	30870	SB1562-34	31740	SB1750-6	32810	SB2125-3
2279	140-6897H	30880	SB1562-34	31800	SB1750-13	32870	SB2444E-1
2280	140-6896H	30890	SB1500-0	31810	SB1750-17	32880	SB2312-2
2281	140-9523H	30900	SB1562-8	31820	SB2006E-2	32990	SB2250-1
2282	140-9458H	30910	SB1562-4	31822	SB2006E-1+005	33030	SB2503E-1
30020	SB1562-36	30913	SB1562-4+010	31823	SB2006E-1+010	33090	SB1812-0
30030	SB1628E-2	30920	SB1500-10	31840	SB1847E-1	33125	SB2006E-1+020
30033	SB1628E-2+010	30940	SB1687-9	31860	SB2125-2	33130	SB2506E-1
30050	SB1125-4	30950	SB1687-6	31870	SB2062-1	33330	SB2590E-1
30060	SB1625-9	30960	SB1500-11	31890	SB1812-10	33790	SB1562-5
30070	SB1000-1	30964	SB2062-1	31950	SB2062-2	33810	SB1562-2
30100	SB1187-2	30970	SB1678E-1	31970	SB1812E-4	33940	SB2088E-1
30130	SB1750-34	30980	SB1500-12	31972	SB1812E-4+005	33944	SB2088E-1+015
30140	SB1880E-2	30990	SB1750-3	31973	SB1812E-4+010	34050	SB2062-9
30160	SB1250-3	31000	SB1750-4	31980	SB1817E-3	34210	SB1505E-1
30170	SB1250-4	31010	SB1500-19	31983	SB1817E-3+010	34300	SB1625-11+006
30180	SB1375-5	31020	SB1750-5	31985	SB1817E-3+020	3435	01698S
30190	SB1125-1	31030	SB1750-34	31987	SB1817E-3+040	34440	SB2131E-1
30200	SB1260E-1	31060	SB1750-7	31995	SB1818E-2+020	34443	SB2131E-1+010
		31080	SB1750-8	32000	SB1831E-1	34445	SB2131E-1+020
		31090	SB1500-23	32020	SB1853E-1	34470	SB1687-1
		31100	SB1750-9	32040	SB2020E-1	34480	SB1500-4

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	39090	SB1625-62	4415	140-7576	6105	140-7562
39100	SB1437-65	4416	140-7574	652	140-5745	
39140	SB1562-17	4418	140-7575	7001	140-6587	
39150	SB1375-18	4426	140-7542	7005	140-9607	
39180	SB1500-71	4428	140-7499	7005U	140-9607U	
39190	SB1312-59	4448	140-9205	7006	140-9606	
39200	SB1250-54	4458	140-9557	7006U	140-9606U	
39210	SB1062-50	4468	140-7659	7007	140-9604	
39220	SB1125-51	4524	140-7523	7008	140-9609	
39230	SB1562-67	4551	140-7710	7009	140-9298	
39240	SB1312-56	4552	140-7828	7010	140-9119	
39260	SB1187-52	4555	140-8021	7011	140-9554	
39290	SB1687-54	4556	140-8038	7012	140-9612	
39300	SB1437-62	4560	140-7545	7016	140-9110	
39310	SB1812-52	4561	140-7826	7017	140-9108	
39330	SB1562-66	4562	140-7827	7017U	140-9108U	
39340	SB1500-74	4563	140-7873	7019	140-9105	
39350	SB1250-56	4564	140-8017	7020	140-9869	
39360	SB1437-4	4566	140-7532	7021	140-9114	
39370	SB1500-73	4567	140-7529	7022	140-9116	
39380	SB1562-9	5001	140-1908	7023	140-9115	
39390	SB1750-38	5005	140-5607	7024	140-9259	
39400	SB1750-65	5006	140-5606	7025	140-9106	
39420	SB1687-16	5007	140-5604	7026	140-9872	
39430	SB1625-55	5009	140-7298	7027	140-9867	
39440	SB1437-58	5010	140-6119	7033	140-9458	
39460	SB2001E-1	5011	140-7554	7040	140-9977	
39520	SB1562-57	5012	140-5612	7051	140-9206	
39530	SB1375-54	5016	140-6110	7052	140-8036	
39550	SB2562-1	5017	140-6108	7060	140-9260	
39560	SB2187-1	5018	140-1907	7065	140-7248	
39570	SB1312-57	5019	140-6105	7070	140-9111	
39590	SB1312-62	5020	140-6869	7070U	140-9111U	
39630	SB1437-60	5021	140-6114	7073	140-8016	
39640	SB1812-56	5022	140-6116	7076	140-8039	
39650	SB1625-60	5023	140-6115	7077	140-9198	
39660	SB1687-56	5024	140-7259	7082	140-8040	
39670	SB1625-59	5025	140-6106	7085	140-7398	
39680	SB1500-70	5026	140-6872	7102	140-9560	
39700	SB1437-61	5027	140-6867	7103	140-9873	
39710	SB1812-55	5031	140-7459	7104	140-9523	
39730	SB1312-63	5032	140-7546	7106	140-9584	
39780	SB1880E-1	5033	140-7458	7108	140-9459	
39790	SB1681E-1	5034	140-1909	7109	140-7847	
39800	SB1690E-1	5035	140-7197	7110	140-9848	
39830	SB1187-51	5036	140-6905	7112	140-9460	
39870	SB1687-55	5040	140-6977	7113	140-9113	
39880	SB1437-66	5041	140-6850	7116	140-9610	
39890	SB1375-56	5060	140-7260	7117	140-9109	
39900	SB1437-67	5070	140-6111	7118	140-9946	
39920	SB1937-52	5077	140-7198	7119	140-9107	
39930	SB1187-53	5082	140-7444	7123	140-8219	
39960	SB1750-68	5084	140-7457	7124	140-8114	
39970	SB1562-72	5103	140-6873	7125	140-8115	
39980	SB1937-51	5104	140-6523	7126	140-8124	
39990	SB1625-58	51042	140-8224	7127	140-8112	
40100160	01770R	51043	140-1817	7128	140-8113	
40100163	01772R	51047	140-1968	7255	140-9705	
40100202	01763R	5106	140-9584	7302	140-8144	
40110188	01777R	5112	140-7460	7306	140-8156	
40110219	01773R	5113	140-6113	7307	140-8177	
40510	SB2006E-1	5116	140-5610	7308	140-8203	
41100160	01771R	5117	140-6109	7309	140-8216	
41100202	01764R	5118	140-7946	7310	140-8218	
4250	SB1562-0	5119	140-6107	7311	140-8273	
4260	SB1625-0	51668	140-1747	7312	140-8274	
4290	SB1812-0	51670	140-7174	7313	140-8292	
4310	SB1937-0	51836	140-7876	7314	140-8324	
4320	SB2000-0	6005	140-7272	7318	140-8155	
4330	SB2125-0	6006	140-7271	7319	140-8178	
4380	140-7359	6009	140-7291	7321	140-8217	
4404	140-7395	6012	140-7552	7322	140-8255	
4406	140-7713	6016	140-7447	7323	140-8291	
4408	140-7714	6017	140-7276	7458	140-9557	
4414	140-7577	6021	140-7277	7571	140-8200	

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7572	140-8205	80990	SB1750-3N	913	140-1678	A1553	00608
7573	140-8186	81000	SB1750-4N	914	140-1515	A1555	00873
7574	140-8187	81040	SB1744E-1N	915	140-1458	A1559	00759
7575	140-8172	81150	SB1687-2N	916	140-1619	A1567	00742
7577	140-8142	81170	SB1687-3N	918	140-1620	A1585	01266
7580	140-8193	81190	SB1535E-1N	920	140-1636	A1585+15	01266+15
7581	140-8194	81210	SB1375-1N	923	140-1854	A1587	01358
7582	140-7825	81270	SB1262E-1	924	140-1853	A1587+15	01358+15
7583	140-8192	81280	SB1750-2N	925	140-1851	A1589K	01329
7584	140-8190	81290	SB1750-1N	926	140-1852	A1589K+15	01329+15
7585	140-8191	81300	SB1693E-1N	927	140-6730	A1611	00976
7588	140-8211	81303	SB1693E-1N+010	928	140-1873	A1635	01332
7589	140-8212	81305	SB1693E-1N+020	929	140-1875	A1635+15	01332+15
7590	140-8209	81306	SB1693E-1N+030	933	140-1947	A1639	00970
7591	140-8143	81330	SB1500-1N	938	140-1830	A1643	00974
7592	140-8195	815	140-1577	939	140-1874	A1649	00919
7593	140-8147	81550	SB1654E-3N	940	140-1673	A1651	01106
7595	140-8201	81590	SB1875-1N	942	140-1829	A1651+15	01106+15
7596	140-8202	81680	SB2000-3N	943	140-1872	A1669	01000
7599	140-8208	81730	SB1687-4N	947	140-1865	A1669+15	01000+15
7600	140-8207	81780	SB1733E-2N	948	140-1833	A1683	01097
7601	140-7830	81820	SB2006E-1N	952	140-1956	A1685	01093
7602	140-8189	81840	SB1847E-1	953	140-1976	A1705	01072
7603	140-8018	81930	SB1812-21N	954	140-1977	A1709	01188
7607	140-9204	82250	SB1962E-1N	956	140-1858	A1713	01189
7609	140-8173	82540	SB1812-5N	957	140-1859	A1715	01083
7615	140-7999	82560	SB1812-9N	960	140-1860	A1717	01156
7616	140-8180	82580	SB1812-4N	961	140-1897	A1717+15	01156+15
7617	140-8158	826	140-1546	963	140-8004	A1721K	01307
7618	140-8157	82600	SB1812-1N	970	140-1906N	A1725	00989
7621	140-8203	82630	SB1687-5N	984	140-1711	A1731	01102
7625	140-8139	828	140-1544	986	140-7408	A1735	01147
8001	340-1019BR	82800	SB2000-1N	987	140-1888	A1761	01237
80020	SB1562-36N	82890	SB2435E-1	990	140-1814	A1761+15	01237+15
80030	SB1628E-2	83070	SB1671E-1N	991	140-1813	A1763	01171
8005	340-1020BR	83080	SB1417E-1N	992	140-6469	A1765	01169
8006	340-1021BR	83100	SB2506E-1	993	140-6470	A1765+15	01169+15
8007	340-1022BR	83140	SB2006E-2	994	140-7338	A1771	01135
80080	SB1181E-1N	83330	SB2590E-1	995	140-7338	A1771+15	01135+15
8009	340-1024BR	835	140-1717	997	140-6881	A1771+3	01135+3
8011	340-1025BR	83810	SB1562-2N	998	140-7813	A1772	01199
8012	340-1026BR	83940	SB2088E-1	A0403	01542	A1777K	01179
80140	SB1880E-2	84210	SB1505E-1	A0729	00220	A1785	01212
8016	340-1027BR	84220	SB1442E-2	A0871	00411	A1787	01210
8017	340-1028BR	84310	SB2220E-1	A1027	00203	A1791	01215
8019	340-1029BR	84440	SB2129E-1	A1049	00154	A1797	01245
8020	340-1030BR	84470	SB1687-1N	A1051	00205	A1799	01247
8021	340-1031BR	84500	SB1437-2N	A1059	00310	A1803	01160
8024	340-1032BR	84510	SB1815E-1	A1077	00400	A1805	01325
8025	340-1033BR	847	140-1600	A1077+15	00400+15	A1807	01257
8027	340-1034BR	85000	SB1442E-1	A1077+3	00400+3	A1809	01292
80270	SB2049E-1	85010	SB1781E-1N	A1099	00486	A1813	01322
80280	SB1161E-1	85220	SB1669E-1	A1105	00348	A1815	01320
803	140-1421	853	140-1974	A1107	00312	A1817	01324
8033	340-1035BR	854	140-7371	A1187	00319	A1819	01271
80390	SB1375-3N	85400	SB1348E-1N	A1235	00168	A1819+15	01271+15
80500	SB1437-3N	85410	SB1486E-1	A1265	00520	A1821	01597
80510	SB2006E-3N	85430	SB1609E-1	A1267	00518	A1827	01321
80550	SB1441E-1	85440	SB1657E-1	A1271	00185	A1829	01310
80630	SB1691E-1	856	140-7372	A1331	01500	A1831	01327
80640	SB1691E-2	875	140-1914	A1335	00549	A1833	01300
80660	SB1900E-1	8825	340-1036BR	A1349	01265	A1835	01354
80690	SB1625-4N	8826	340-1037BR	A1353	00564	A1837	01361
80710	SB1437-1N	887	140-1470	A1355	01242	A1849	01326
80740	SB1625-3N	89040	SB1562-69N	A1355+15	01242+15	A1849+15	01326+15
80750	SB1630E-1N	89380	SB1562-9N	A1367	00486	A1853	01441
80760	SB1624E-1N	89460	SB2001E-1	A1371	00489	A1861	01378
80780	SB1625-1N	89470	SB1628E-1N	A1423	00690	A1871	10086
80810	SB1640E-1	89490	SB1654E-1N	A1437	00758	A1875	01367
80820	SB1562-1N	89500	SB1973E-1	A1459	00592	A1875+15	01367+15
80840	SB1562-6N	89510	SB1775E-1	A1463	00503	A1877	01387
80940	SB1687-9N	89560	SB2187-1C	A1497	00658	A1881	01381
80970	SB1678E-1	89780	SB1880E-1	A1519	01242	A1885	01358
		89790	SB1681E-1	A1519+15	01242+15	A1885+15	01358+15
		89800	SB1690E-1	A1539	01047	A1889	01394
		912	140-1703	A1549	00882A	A1891	01135

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A1891+15	01135+15	A2283	01535	A2773	10523	AC1637	00917SN
A1891+3	01135+3	A2283+15	01535+15	A2781	10217	AC1637+15	00917SN+15
A1897	01448	A2285	10386	A2787	01713	AC1879	01383SN
A1901	01451	A2285+15	10386+15	A2793	01782	AC1879+15	01383SN+15
A1905	01469	A2289	01648	A2809	10503	AC1977	01385SN
A1907	01399	A2297	01653	A2819	10507	AC1977+15	01385SN+15
A1911	01814	A2297	01695S	A2821	10102S	AC1979	01241SN
A1921	01266	A2301	00923	A2823	10170	AC3263	01832SN
A1921+15	01266+15	A2313	01366	A2831	10159	AX1171	00598S
A1923	01192	A2317	01710	A2833	10235	AX1239	00427S
A1923	01809	A2343	01772R	A2839	10551	AX1303	01346S
A1923+15	01192+15	A2345	01776R	A2841	10563	AX1379	01017S
A1923+3	01192+3	A2359	01547	A2843	101708	AX1383	00559S
A1925	01265	A2359+15	01547+15	A2849	01877	AX1417	01217S
A1931	01041	A2397	01591	A2863	10497	AX1523	00746S
A1935	02084	A2397+15	01591+15	A2865	10499	AX1597	00602
A1955	00485	A2417	01469	A2867	10501	AX1597	00602S
A1957	00921	A2419	01537	A2869	10535A	AX1613	00753S
A1961	01233	A2421	01698	A2885	01737	AX1633	01177S
A1963	01288	A2425	10235	A2911	01588	AX1633+15	01177S+15
A1981	01419	A2427	10388	A2921	01570	AX1651	01261S
A1981+15	01419+15	A2427+15	10388+15	A2925	01675	AX1651+15	01261S+15
A1983	01417	A2429	10148	A2927	01531	AX1655	00996S
A1983+15	01417+15	A2431	10128A	A2931	01758	AX1655+15	00996S+15
A1991	01135	A2433	01670	A2939	10413	AX1719K	01312S
A1991+15	01135+15	A2437	10144	A2955	01586	AX1735	01693S
A1991+3	01135+3	A2441	01419	A3027	01761S	AX1769	01133S
A1995	01527	A2441+15	01419+15	A3173	10625	AX1779	01294S
A1999	01358	A2443	01675	A3191	01786	AX1779+15	01294S+15
A1999+15	01358+15	A2447	01674	A3201	01791	AX1793	00793
A2001	01542	A2451	10177	A3355	01917	AX1861	01497S
A2017	00159	A2453	10315	A3355+15	01917+15	AX1863	10060S
A2025	01203	A2469	10163	A3406	02040S	AX1939	01446
A2027	01156	A2473	10244	A3407	01731	AX1941	00574S
A2045	01309	A2475	10237	A3409	01905	AX1945	01420S
A2049	01387	A2477	10146	A3413	01742	AX1947	01018
A2049	01389	A2481	10144	A3415	01746	AX1951	01217S
A2075	01055	A2489	10300	A3419	01936	AX1953	01368S
A2077	01511	A2491	10191	A3421	01729	AX1965	01375
A2083	01478	A2493	10196	A3423	01788	AX1967	00982S
A2109	01377	A2495	10414	A3427	01744	AX1971	01350S
A2141	01480	A2497	10164	A3429	01914	AX1973	01145S
A2141+15	01480+15	A2499	10311	A3431	01914	AX1975	01468S
A2143	02058	A2509	10340A	A3435	01698S	AX1985	01431S
A2147	01554	A2519	10315	A3437	01754	AX1989	01037
A2149	01552	A2521	10323	A3439	01925	AX1991	01135S
A2151	01550	A2531	10271	A3441	01937	AX2005	01483S
A2151+15	01550+15	A2553	10256	A3449	01903	AX2007	01261S
A2159	01568	A2579	10386	A3457	10742	AX2007+15	01261S+15
A2163	10104	A2579+15	10386+15	A3461	10740	AX2013	00159
A2165	10146	A2631	01771R	A3465	10549	AX2021	00702
A2173	00100	A2633	01715	A3467	10724	AX2029	01177S
A2189	10069	A2633+15	01715+15	A3489	10536	AX2029+15	01177S+15
A2197	10106	A2637	01664	A3491	10538	AX2033	01075S
A2199	10330A	A2653	10123	A3499	10736	AX2047	01506S
A2215	10142	A2655	10435	A3501	10420	AX2065	01368S
A2217	01556	A2659	10546	A3543	01811	AX2073	01525S
A2217+15	01556+15	A2661	10437	A403	01542	AX2093	01693S
A2219	01527	A2669	10557S	A4214	10083	AX2095	01523S
A2221	10129	A2681	01704	A4218	10064	AX2101	01482S
A2225	01578S	A2683	01702	A4322	10308	AX2105	01305S
A2231	01566	A2689	01807	A619	10034S	AX2123	01504S
A2233	01455	A2695	10173S	A701	00270	AX2127	01205S
A2237	01397	A2697	10517	A713	00212	AX2169	10102S
A2241	01545	A2715	10229	A729	00220	AX2169	10302
A2247	01504	A2735	10138	A769	00257	AX2203	10269
A2247+15	01504+15	A2739	10507	A781	00121	AX2213	10407S
A2249	01777R	A2743	10519	A785	00303	AX2227	01646S
A2253	01769R	A2751	10474	A841	00196	AX2247	01504S
A2255	01770R	A2759	10525	A843	00210	AX2307	01542S
A2265	01727	A2761	10542	A861	00170	AX2307+15	01542S+15
A2275	10116	A2763	10544	A871	00327	AX2471	10248
A2281	10153	A2765	10207	A891	00249	AX2515	10274S
		A2767	10198A	A911	00375	AX2517	10282
		A2769	01706	A949	00234	AX2517	10282S
		A2771	10521	AC1303	00530SN	AX2525	10278S

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AX2533	10193	ML900H	VL35	S1750+15	01087+15
AX2543	10356S	ML900RH	VL67RH	S1754	01365
AX2547	10338S	ML945H	VL32	S1756	01152
AX2557	00751S	ML951H	VL49	S1760	01238
AX2627	01422S	ML969H	VL73	S1760+15	01238+15
AX2629	01758	ML969RH	VL117RH	S1762	01172
AX2673	10555S	ML976H	VL64	S1764	01170
AX2679	01780S	ML992M	VL63	S1764+15	01170+15
AX2689	01807S	S1042	00343	S1773	01200
AX2705	10285S	S1052	00349	S1776	01186
AX2711	10227S	S1056	00169	S1778K	01180
AX2728	01422S	S1060	00311	S1778K+15	01180+15
AX2741	10553S	S1068	00193	S1790	01216
AX2747	10306S	S1070	00204	S1792	00912
AX2799	10221S	S1078	00399	S1800	01161
AX2803	10276S	S1078+15	00399+15	S1804	01260
AX2857	10370S	S1110	00155	S1806	01258
AX2875	10370S	S1120	00428	S1806+15	01258+15
AX2881	10342S	S1186	00318	S1808	01293
AX2913	10220S	S1222	00494	S1812	01323
AX2919	01235S	S1237	00313	S1814	01598
AX2923	01761S	S1266	00514	S1816	01285
AX2929	01659S	S1316K	00548	S1818	01263
AX2951	01460S	S1336	00550	S1820	01272
AX2953	01533S	S1350	00567	S1820+15	01272+15
AX2957	01695S	S1350+15	00567+15	S1822	01362
AX2959	10349S	S1356	00585	S1828	01311
AX3029	01574S	S1382	00560	S1830	01328
AX3403	02040S	S1416	00627	S1830+15	01328+15
AX3477	02040S	S1418	00637	S1830+3	01328+3
AX3517	01698S	S1418+15	00637+15	S1836	01357
AX3521	01698S	S1422	00691	S1840	01348
AX3525	10734S	S1430	00600	S1840	01348
AX477	01294S	S1432	00601	S1852	01442
AX477+15	01294S+15	S1432	00601	S1860	01379
AX631	10037	S1460	00593	S1862	10061
AX633	10036S	S1462	00504	S1870	10087
AX635	10033S	S1476	00696	S1874	01380
AX867	01206S	S1498	00659	S1874+15	01380+15
AX867+15	01206S+15	S1538	01048	S1876	01388
AX969	00326S	S1548	00755	S1880	01382
ML107H	VL107	S1550	00883	S1888	01395
ML116H	VL116	S1554	00874	S1896	01449
ML119H	VL119	S1584	01268	S1900	01452
ML120H	VL120	S1586	00963	S1902	01450
ML124H	VL124	S1588	00938	S1904	01470
ML135H	VL135	S1588+15	00938+15	S1910	01813
ML138H	VL138	S1596	00603	S1922	01393
ML146H	VL146	S1610	00958	S1922+15	01393+15
ML149H	VL149	S1612	00975	S1924	01193
ML150H	VL150	S1628	00947	S1924+15	01193+15
ML171H	VL171	S1634	01120	S1924+3	01193+3
ML2011H	VL89	S1634+15	01120+15	S1926	00609
ML2012H	VL83	S1636	00949	S1930	01042
ML2056H	VL109	S1638	00918	S1934	00678
ML2083H	VL9	S1640	00969	S1936	00160
ML2084M	VL31	S1644	01457	S1940	00852S
ML2089H	VL88	S1650	00988	S1942	01204
ML2095H	VL94	S1652	01107	S1954	00230
ML2102H	VL86	S1652+15	01107+15	S1956	00922
ML2104H	VL114	S1654	01164	S1958	01423
ML2105H	VL87	S1656	00997	S1960	01234
ML2148H	VL115	S1662	01002	S1966	00983
ML2167H	VL106	S1670	01001	S1968	01598
ML2205H	VL100	S1670+15	01001+15	S1980	00703
ML2217H	VL113	S1682	01098	S1988	01403
ML48M	VL48	S1706	01170	S1992	00924
ML6000H	VL141	S1706+15	01170+15	S1994	01528
ML812H	VL8	S1708	01082	S1998	01543
ML817H	VL37	S1712	01105	S2006	01484
ML817RH	VL66RH	S1714	01084	S2012	01526
ML817RH	VL66RH	S1724	01073	S2018	00867
ML81M	VL81	S1730	01103	S2034	01450
ML846H	VL5	S1732	01137	S2038	01569
		S1732+15	01137+15	S2042	10105
		S1734	01148	S2044	10145
		S1750	01087	S2046	10103
				S2052	10107
				S2054	10070
				S2060	01557
				S2060+15	01557+15
				S2062	01512
				S2064	01328
				S2068	01567
				S2070	01456
				S2082	01479
				S2114	01536
				S2114+15	01536+15
				S2124	01505
				S2124+15	01505+15
				S2138	01481
				S2138+15	01481+15
				S2140	02057
				S2144	01555
				S2146	01553
				S2148	01551
				S2148+15	01551+15
				S2152	10385
				S2152+15	10385+15
				S2154	10118
				S2170	01524
				S2172	01654
				S2180	01649
				S2184	01783
				S2192	01538
				S2198	10328A
				S2202	10268
				S2204	10078
				S2214	10406
				S2216	10141
				S2218	01528
				S2220	10127
				S2224	01773R
				S2226	01775R
				S2228	01726
				S2240	01546
				S2248	01507
				S2252	01762R
				S2256	01763R
				S2262	01543
				S2262+15	01543+15
				S2274	01711
				S2284	01548
				S2284+15	01548+15
				S2302	01765R
				S2304	01774R
				S2366	01592
				S2366+15	01592+15
				S2380	01598
				S2386	10162
				S2388	01699
				S2390	10234
				S2396	10147
				S2400	10126A
				S2402	01671
				S2406	10314
				S2408	10143
				S2412	10176
				S2416	01673
				S2422	10117
				S2428	01107
				S2430	01598
				S2432	10247
				S2434	10243
				S2436	10236
				S2438	10145
				S2442	10143
				S2450	10299
				S2452	10190
				S2454	10195
				S2456	01598
				S2464	10322
				S2466	10273

Interchange Listing

DYNAGEAR/MANLEY (Cont'd)					
S2468	10270	S2892	01736	SX1928	01036S
S2470	10263	S2896	10367	SX1962	01289
S2484	10277	S2904	10498	SX1964	01336S
S2488	10281	S2906	01508	SX1970	01351S
S2496	10307	S2908	01589	SX1972	01146S
S2512	10309	S2910	01471S	SX1974	01462S
S2516	10015	S2912	01296	SX1976	01386S
S2518	10255	S2918	01532	SX1976+15	01386S+15
S2536	10310	S2920	01660	SX1984	01432
S2538	10192	S2922	01665	SX2026	01415S
S2584	10387	S2930	10348	SX2126	01314S
S2584+15	10387+15	S2938	01194	SX2182	01306
S2590	01757	S2940	01404	SX2284	01548S
S2592	01767R	S2942	01409	SX2458	10176
S2594	01768R	S2950	01663	SX2474	10339SA
S2596	01764R	S2952	01931	SX2480	10328A
S2600	01766R	S2976	10624	SX2514	10337
S2602	01714	S3004	00734	SX2674	10554S
S2602+15	01714+15	S3038	01826	SX2676	10158S
S2604	01665	S3122	01273	SX2914	01571S
S2654	10434	S3166	01792	SX2916	01760S
S2656	10122	S3168	01723	SX2934	00752S
S2660	10197A	S3188	01785	SX2944	01590S
S2662	10436	S3200	01789	SX2946	01461S
S2670	01712	S3214	01858	SX2948	01471S
S2672	10556	S3344	01916	SX3516	01699S
S2680	01703	S3344+15	01916+15	SX3518	01699S
S2684	01705	S3404	10784		
S2690	01806	S3406	01730	ELGIN	
S2692	01931	S3408	01901	00230EA	00230
S2694	10172	S3410	01904	00326SEA	00326S
S2696	10516	S3414	01741	00485EA	00485
S2698	10103	S3418	01745	00503EA	00503
S2706	10226	S3420	02044	00504EA	00504
S2708	10228	S3422	02044	00574SEA	00574S
S2710	10224	S3424	01728	00602SEA	00602S
S2724	10284	S3426	01787	00603EA	00603
S2732	10137	S3428	01790	00678EA	00678
S2736	10506	S3434	01743	00755EA	00755
S2738	10552	S3436	01913	00852SEA	00852S
S2740	10518	S3438	01913	00923EA	00923
S2744	10305	S3442	01924	00924EA	00924
S2748	10473	S3444	01941	01036SEA	01036S
S2756	10524	S3446	01929	01075SEA	01075S
S2758	10541	S3448	01739	01145SEA	01145S
S2760	10432	S3456	01902	01146SEA	01146S
S2762	10543	S3464	01739	01205SEA	01205S
S2764	10206	S3466	10547	01305SEA	01305S
S2768	01707	S3470	10723	01314SEA	01314S
S2772	10520	S3478	10784	01350SEA	01350S
S2774	10522	S3492	10537	01351SEA	01351S
S2782	10147	S3498	10735	01376SEA	01376S
S2792	01781	S3500	10321	01420SEA	01420S
S2802	10219	S3502	10421	01429SEA	01429S
S2804	10502	S3522	10742	01458SEA	01458S
S2808	10213	S3532	01810	01459SEA	01459S
S2814	10314	S4026	10076	01460SEA	01460S
S2816	10275	S4028	10065	01461SEA	01461S
S2818	10169	S408	01195	01471SEA	01471S
S2820	10103	S408+15	01195+15	01476SEA	01476S
S2826	10157	S620	10030	01491SEA	01491S
S2830	10234	S632	10048	01497SEA	01497S
S2832	10216	S636	10031	01498SEA	01498S
S2834	10550	S638	10056	01500NEA	21500
S2836	10562	S767	00298	01533SEA	01533S
S2838	01709	S782	00122	01571SEA	01571S
S2844	01701	S786	00302	01573SEA	01573S
S2858	10495	S840	00810	01574SEA	01574S
S2860	10534A	S868	00308	01581SEA	01581S
S2864	10500	S914	00376	01582SEA	01582S
S2868	01598	S920	00373	01584SEA	01584S
S2880	10496	SX1328	00531S	01590SEA	01590S
S2884	10218	SX1436	01057S	01630SEA	01630S
		SX1436+15	01057S+15	01631SEA	01631S
		SX1878	01384S	01650SEA	01650S
		SX1878+15	01384S+15		
				01656SEA	01656S
				01658SEA	01658S
				01661SEA	01661S
				01695SEA	01695S
				01709	01709
				01717SEA	01717S
				01720SEA	01720S
				01721SEA	01721S
				01738SEA	01738S
				01760SEA	01760S
				01760SEA	01761S
				01830SEA	01830S
				01831SEA	01831S
				01900SEA	01900S
				01910SEA	01910S
				01944SEA	01944S
				01946SEA	01946S
				02084EA	02084
				02095EA	02095
				02131EA	02131
				02160SEA	02160S
				02161SEA	02161S
				02168SEA	02168S
				02175EA	02175
				02176EA	02176
				02179EA	02179
				02180EA	02180
				02187EA	02187
				02188EA	02188
				02231EA	02231
				02237EA	02237
				02238EA	02238
				02239EA	02239
				02254EA	02254
				02255EA	02255
				02257EA	02257
				02260SEA	02260S
				02261EA	02261
				10767SEA	10767S
				13001EA	13001
				13006EA	13006
				13033EA	13033
				13073EA	13073
				13074EA	13074
				13083SEA	13000
				13083SEA	13083S
				13121EA	13121
				13122EA	13122
				13151EA	13151
				13161EA	13161
				13162EA	13162
				13163EA	13163
				13176EA	13176
				13177SEA	13177S
				13178SEA	13178S
				13192SEA	13192S
				13193EA	13193
				13246EA	13246
				13247EA	13417
				30001	SB1812E-4T
				30013	SB1375-50
				30106	SB1500-71
				30238	SB1375-56
				30280	SB1161E-1
				30530	SB1812-3
				30560	SB1937-1
				30642	SB1630E-1
				30642	SB1630E-1N
				30644+10	SB1562-4+010
				30648+10	SB1625-1+010
				30648+5	SB1625-1+005
				30652	SB1750-8N
				30653	SB1750-8
				30654	SB1750-9
				30658	SB1687-17
				30658	SB1750-2

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ELGIN (Cont'd)						
	31091	SB1875-0	31637	SB1375-63	32004	SB1312-52
	31092	SB1875-56	31638	SB1375-60	32007	SB1812-56
	31097	SB1125-5	31641	SB1441E-1	32008	SB1625-60
30658+10	31104	SB1562-31	31647	SB1437-66	32009	SB1687-56
30660	31105	SB1250-58	31648	SB1437-60	32010	SB1625-59
30662	31124	SB2125-32	31649	SB1437-61	32011	SB1500-70
30664	31125	SB1375-6	31650	SB1437-74	32012	SB1500-56
30667	31129	SB1750-0	31651	SB1437-75	32013	SB1250-50
30676	31131	SB1812-19	31659	SB1437-72	32015	SB1562-72
30678+5	31134	SB1937-30	31670	SB1516E-1	32017	SB1437-51
30680	31135	SB2187-1	31673	SB1562-77	32018	SB1875-57
30690	31139	SB1375-62	31679	SB1609E-1	32019	SB1375-61
30692	31142	SB1062-4	31680	SB1628E-2	32020	SB1969E-4N
30694	31143	SB1125-4	31680+10	SB1628E-2+010	32021	SB1693E-8N
30698	31145	SB1187-5	31680+20	SB1628E-2+020	32022	SB1691E-1
30698+10	31146	SB1187-51	31682	SB1628E-3	32022+10	SB1691E-1+010
30699	31148	SB1250-12	31683	SB1625-8	32023	SB1691E-2
30700	31152	SB1250-2	31686	SB1625-63	32023+10	SB1691E-2+010
30700+10	31153	SB1312-10	31691	SB1625-64	32026	SB2129E-2
30700+20	31155	SB1312-5	31692	SB1625-50	32028	SB1847E-1
307005	31156	SB1375-10	31697	SB1657E-1	32032	SB1875-38
30701	31161	SB1437-5	31699	SB1670E-1	32033	SB1973E-1
30703	31165	SB1750-17	31701	SB1681E-3	32035	SB1750-4N
30703+20	31169	SB1142E-2	31701	SB1690E-1	32038	SB1969E-3
30707	31172	SB1260E-1	31709	SB1722E-1	32040	SB1953E-3
30709	31175	SB1378E-1	31722	SB1782E-1	32041	SB1953E-2C
30713	31177	SB1457E-2	31722+15	SB1782E-1+015	35000	SB1062-2
30714	31179	SB1535E-1	31724	SB1814E-1	35001	SB1062-3
30715	31183	SB1654E-3	31726	SB1817E-3	35002	SB1062-5
30718	31186	SB1693E-4	31726+20	SB1817E-3+020	35003	SB1062-6
30723	31188	SB1811E-1	31726+40	SB1817E-3+040	35004	SB1187-12
30724	31189	SB1890E-2	31729	SB1819E-1	35005	SB1187-4
30725	31193	SB2008E-2	31731	SB1831E-1	35006	SB1312-0
30727	31194	SB2047E-1	31731+15	SB1831E-1+015	35007	SB1312-13
30729	31195	SB2087E-2	31731+30	SB1831E-1+030	35008	SB1312-16
30730	31205	SB1500-77	31731+5	SB1831E-1+005	35009	SB1312-2
30731	31227	SB1772E-2	31734	SB1853E-1	35010	SB1375-25
30732	31228	SB1850E-2	31739	SB1880E-2	35011	SB1375-27
30736	31234	SB1625-17	31741	SB1875-54	35012	SB1437-22
30774	31240	SB2125-31	31743	SB1900E-2	35013	SB1500-19
30779	31248	SB1375-22	31743	SB1900E-3	35014	SB1500-23
30787	31249	SB2062-25	31744	SB1900E-1	35015	SB1500-26
30792	31251	SB1562-74	31746	SB1912E-1	35016	SB1500-33
30793	31269	SB1812-17	31748	SB1937-12	35017	SB1539E-2
30803	31270	SB1687-0	31753	SB1969E-2	35018	SB1562-13
30822	31280	SB2000-11	31756	SB2001E-1	35020	SB1562-15
30838	31283	SB1812-12	31756+10	SB2001E-1+010	35023	SB1562-26
30839	31289	SB1312-6	31756+13	SB2001E-1+013	35026	SB1562-39
30840	31329	SB1437-56	31757	SB2003E-1	35027	SB1562-78
30853	31352	SB1187-2	31758	SB2004E-2	35030	SB1625-15
30854	31371	SB1600E-1	31765	SB2020E-1	35032	SB1625-41
30857	31374	SB1687-55	31766	SB2049E-1	35033	SB1681E-1
30868	31459	SB1812-0	31768	SB2062-8	35034	SB1687-14
30871	31470	SB2250-20	31770	SB2062-30	35035	SB1687-19
30873	31490	SB1687-40	31771+30	SB2088E-1+030	35038	SB1687-35
30889	31491	SB1687-33	31772	SB2129E-1	35039	SB1687-42
30905	31495	SB1875-50	31773	SB2125-3	35042	SB1695E-1
30920	31497	SB1937-2	31777	SB2125-11	35044	SB1750-20
30923	31600	SB1000-1	31780	SB2131E-1	35045	SB1750-24
30935	31602	SB1062-51	31780+20	SB2131E-1+020	35046	SB1750-25
30952	31603	SB1125-55	31782	SB2150E-1	35047	SB1811E-2N
30963	31604	SB1125-51	31783	SB2165E-1	35047	SB1811E-3
30991	31607	SB1125-53	31786	SB2220E-1	35048	SB1812-14
30994	31608+10	SB1161E-1+010	31787	SB2250-13	35049	SB1812-16
31000	31608+20	SB1161E-1+020	31790	SB2312-4	35050	SB1812-24
31031	31610	SB1187-7	31792	SB2444E-1	35051	SB1812-25
31031	31611	SB1187-54	31827	SB1812E-3	35052	SB1812-34
31032	31612	SB1250-63	31827	SB1812E-8	35053	SB1812-36
31042	31614	SB1250-61	31843	SB1812E-4	35054	SB1823E-1
31046	31615	SB1250-59	31843+10	SB1812E-4+010	35055	SB1856E-1
31047	31616	SB1250-62	31843+20	SB1812E-4+020	35056	SB1857E-1
31053	31617	SB1250-53	31844	SB2381E-1	35057	SB1875-12
31053	31620	SB1250-60	31868	SB1187-53	35058	SB1875-21
31054	31622	SB1312-3	32000	SB1875-8	35059	SB1875-33
31058	31625	SB1312-63	32002	SB1562-51	35060	SB1875-39
31058	31635	SB1375-55	32003	SB1437-53	35061	SB1880E-1

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		51009	140-1697	52224	140-7610	54406	140-7713
		51019	140-1758	52234	140-7255	54408	140-7714
		51020	140-1453	52236	140-7994	54414	140-7577
35062	SB1891E-1	51021	140-1527	52244	140-7431	54415	140-7576
35064	SB1933E-2	51023	140-1680	52251	140-7448	54416	140-7574
35065	SB1937-0	51023T	140-1680	52253	140-7429N	54418	140-7575
35066	SB1937-10	51025	140-1338	52254	140-7451N	54418+2	140-7575+2
35068	SB1937-9	51027	140-1337	52254+2	140-7451N+2	54418+6	140-7575+6
35070	SB2000-24	51048	140-7548	52255	140-9705	54426	140-7542
35071	SB2000-25	51050	140-6990	52256	140-7822	54428	140-7499
35072	SB2000-34	51130	140-1952	52261	140-7589	54448	140-9205
35073	SB2000-50	51135	140-1953	52262	140-7714	54458	140-9557
35074	SB2000-51	51140	140-1965	52262+2	140-7714+2	54468	140-7659
35075	SB2000-9	51174	140-1898	52263	140-7713	54524	140-7523
35076	SB1562-29	51180	140-1896	52264	140-9715	54524+2	140-7523+2
35077	SB2051E-4	51181	140-1957	52265	140-9716	54551	140-7710
35078	SB2062-13	51194	140-1970	52271	140-9846	54552	140-7828
35079	SB2062-20	51197	140-6053	52273	140-7689	54555	140-8021
35080	SB2062-21	51256T	140-1969	52273	140-7712	54556	140-8038
35081	SB2062-23	51310	140-1809	52277	140-7661	54560	140-7545
35082	SB2062-27	51310	140-1810	52278	140-7662	54560	140-7575
35083	SB2062-29	51315	140-7592	52579	140-1579	54561	140-7826
35083	SB2100E-1	51342	140-1342	53001	140-3001	54562	140-7827
35085	SB2062-5	51343	140-1504	53006	140-3006	54562	140-8233
35086	SB2062-9	51458	140-1458	53007	140-3007	54563	140-7873
35088	SB2125-15	51470	140-1470	53014	140-3014	54564	140-8017
35089	SB2125-16	51503	140-1503	53019	140-3019	54566	140-7532
35092	SB2125-21	51545	140-1545N	53023	140-3023	54567	140-7529
35095	SB2125-30	51547	140-1547N	53026	140-3026	54941	140-4941
35097	SB2125-39	51579	140-1881	53027	140-3027	55001	140-1908
35098	SB2125-8	51592	140-1592	53028	140-3028	55005	140-5607
35099	SB2129E-2	51593	140-1593	53029	140-3029	55005B	340-1020BR
35102	SB2187-31	51614	140-1614	53031	140-3031	55006	140-5606
35104	SB2187-7	51644	140-1644	53032	140-3032	55007	140-5604
35105	SB2187-8	51704	140-1704	53033	140-3033	55009	140-7298
35106	SB2187-9	51711	140-1711	53034	140-3034	55010	140-6119
35107	SB2244E-1	51725	140-1966	53035	140-3035	55011	140-7554
35109	SB2250-16	51726	140-1726	53036	140-3036	55012	140-5612
35110	SB2250-18	51732	140-1732	53038	140-3038	55014	140-9197
35112	SB2250-21	51733	140-1733	53039	140-3039	55016	140-6110
35115	SB2250-37	51736	140-1937	53042	140-3042	55016B	340-1027BR
35116	SB2250-5	51745	140-1745	53043	140-3043	55017	140-6108
35117	SB2250-7	5178	140-1578	53046	140-3046	55017B	340-1028BR
35118	SB2284E-2	51802	140-1543	53047	140-3047	55019	140-6105
35119	SB1750-43	51804	140-1804	53048	140-3048	55020	140-6869
35121	SB2312-11	51809	140-1809	53049	140-3049	55021	140-6114
35122	SB2312-16	51816	140-7604	53050	140-3050	55021B	340-1031BR
35125	SB2312-8	51820T	140-1878	53051	140-3051	55022	140-6116
35126	SB2323E-2	51821T	140-1821	53052	140-3052	55023	140-6115
35127	SB2375-15	51823T	140-1823	53053	140-3053	55024	140-7259
35128	SB2367E-1	51825	140-1973	53054	140-3054	55025	140-6106
35128	SB2387E-1	51826	140-1972	53055	140-3055	55026	140-6872
35129	SB2441E-1N	51828	140-9208	53058	140-3058	55027	140-3015
35130	SB2503E-1	51832	140-1832	53059	140-3059	55027	140-6867
35131	SB2503E-2	51832T	140-1832	53067	140-3067	55031	140-7459
35131	SB2506E-2	51837	140-7456	53068	140-3068	55032	140-7546
35132	SB2506E-1	51838	140-1919	53070	140-3070	55033	140-7458
35133	SB2520E-1	51839	140-1839	53079	140-3079	55034	140-1907
35135	SB1264E-1	51839	140-7337	53098	140-3098	55034	140-1909
35139	SB1656E-1	51840	140-1840	53101	140-3101	55035	140-7197
35139	SB1814E-4C	51888	140-1888	53112	140-3112	55035	140-9197
35149	SB1088E-1	51889	140-1899	53118	140-3118	55036	140-6905
35154	SB1832E-1	51906	140-1906N	53119	140-3119	55040	140-6977
35155	SB1638E-2	5194	140-1515	53123	140-3123	55051	140-9206
35156	SB1951E-1	51942	140-7994	53127	140-3127	55060	140-7260
35158	SB2126E-2	51943	140-1943	53128	140-3128	55070	140-6111
35163	SB2387E-2	51944	140-1944	53129	140-3129	55077	140-7198
35164	SB2013E-1	51946	140-1946	53130	140-3130	55082	140-7444
35165	SB1697E-1	51946+2	140-1946+2	53131	140-3131	55084	140-7457
36010	SB1125-52	51946+5	140-1946+5	53134	140-3134	55096	140-7528
39960	SB1750-68	51947	140-1947	53135	140-3135	55097	140-7527
39961	SB2125-34	51969	140-1969	53136	140-3136	55103	140-6873
50722	140-9116	52200	140-1962	53137	140-3137	55104	140-6523
509105	140-9105	52201	140-7194	53145	140-3145	551042	140-8224
50953	140-1953	52223	140-8420	54380	140-7359	551043	140-1817
50953	140-1976	52224	140-7373	54404	140-7395	551047	140-1968
50954	140-1977						

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	57117	140-9109	58118	140-3143	58707	140-8572
	57118	140-8407	58122	140-8122	58708	140-8573
	57118	140-9946	58134	140-8134	58709	140-8543
551047	140-7860	57119	58144	140-8144	58710	140-8544
551047	140-8223	57123	5815	140-1577	58712	140-8585
55112	140-7460	57124	58161	140-8161	58713	140-8578
55113	140-6113	57125	58168	140-8168	58714	140-8587
55113	140-9113	57126	58177	140-8177	58716	140-8554
55116	140-5610	57127	58178	140-8178	58717	140-8571
55117	140-6109	57128	58188	140-8188	58718	140-7498
55118	140-3016	57205	58210	140-8210	58719	140-8204
55118	140-7946	57216	58213	140-8213	58720	140-8564
55119	140-6107	57242	58218	140-8218	58721	140-8565
551668	140-1747	57255	58273	140-8273	58722	140-8552
551670	140-7174	57255G	58277	140-8277	58726	140-1823
551836	140-7876	57264	5835	140-1717	58728	140-3021
556896	140-6896H	57278	58356	140-8356	58729	140-3022
556897	140-6897H	57306G	58383	140-3144	58730	140-8715
559460	140-9460H	57308G	58409	140-8409	58731	140-3008
559607	140-9607H	57309G	58418	140-8418	58732	140-7625
559964	140-9964H	57312G	58419	140-8419	58733	140-1941
559977	140-9977	57318G	5847	140-1600	58734	140-7336
56011	140-7279	57321G	58494	140-8494	58736	140-8476
56012	140-7552	57322G	58531	140-3037	58737	140-8562
56016	140-7447	57322G	58535	140-8535	58738	140-7248
56105	140-7562	57322G	58536	140-8536	5875	140-1914
56254	140-6254	57338	58547	140-8547	5880	140-1880
56254+5	140-6254+5	57357	58548	140-8548	59108H	140-9108H
56905	140-6905	57357	58555	140-8555	5913	140-1678
57001	140-6587	57458	58556	140-8556	5914	140-1515
57005	140-9607	57495	58558	140-8558	5915	140-1723
57006	140-9606	57507	58559	140-8559	5918	140-1620
57007	140-9604	57571	58567	140-8567	5920	140-1636
57008	140-9609	57572	58569	140-8569	59208	140-7208
57009	140-9298	57573	58574	140-8574	59208	140-9208
57010	140-9119	57574	58575	140-8575	5923	140-1854
57011	140-9554	57575	58582	140-8582	5924	140-1853
57012	140-9612	57577	58583	140-8583	5925	140-1851
57016	140-9110	57580	58590	140-8590	5926	140-1852
57017	140-9108	57581	58591	140-8591	5927	140-6730
57019	140-9105	57582	58592	140-8592	5928	140-1873
57020	140-9869	57583	58658	140-8658	5929	140-1875
57021	140-9114	57584	58659	140-8659	5938	140-1830
57022	140-9116	57585	58663	140-8663	5939	140-1874
57023	140-9115	57588	58670	140-8670	5940	140-1673
57023G	140-9115	57589	58671	140-8671	5942	140-1829
57024	140-9259	57590	58673	140-8673	5943	140-1872
57025	140-9106	57591	58674	140-8674	5947	140-1865
57025G	140-9106	57592	58676	140-8397	5952	140-1956
57026	140-9872	57593	58677	140-8577	5952	140-3100
57027	140-9867	57595	58679	140-8579	5954	140-1977
57033	140-9458	57596	58681	140-8662	59546	140-9546
57040	140-9977	57599	58682	140-3012	5956	140-1858
57051	140-9206	57600	58683	140-8561	5957	140-1859
57051G	140-9206	57601	58684	140-8560	5960	140-1860
57052	140-8036	57603	58685	140-8388	5961	140-1897
57060	140-9260	57607	58686	140-8389	5963	140-8004
57070	140-9111	57615	58687	140-8545	59690	140-9690
57073	140-8016	57616	58689	140-8324	5986	140-7408
57076	140-8039	57616+2	58690	140-8292	5989	140-7450
57076+2	140-8039+2	57617	58691	140-8293	5990	140-1814
57077	140-9198	57618	58692	140-3009	59907	140-9907
57077G	140-9198	57621	58692+2	140-3009+2	59908	140-9908
57082	140-8040	57625	58693	140-8584	5991	140-1813
57082G	140-8040	57663	58695	140-3010	5992	140-6469
57102	140-9560	57669	58696	140-3011	5993	140-6470
57103	140-9873	57679	58697	140-8593	59964	140-9964
57104	140-9523	57681	58698	140-8666	5997	140-6881
57106	140-9584	57681	58699	140-8668	59972	140-9972
57108	140-9459	57682	58700	140-7656	59972+3	140-9972+3
57109	140-7847	57903	58701	140-9973	5998	140-7813
57110	140-9848	58008	58702	140-8256	70000	SB2366E-2N
57112	140-9460	58010	58703	140-3025	70503	SB1562-2N
57112+2	140-9460H+2	58023	58704	140-3024	70558	SB1375-1N
57113	140-9113	5803	58705	140-8580	70559	SB1687-4N
57113G	140-9113	58105	58706	140-8581	70640	SB1562-6N
57116	140-9610					

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ELGIN (Cont'd)							
70646	SB1625-2N	A1687062305	SB1687-51	E1765	01169	E2265	01727
70672	SB1812-5N	A1687125297	SB1687-54	E1765+15	01169+15	E2275	10116
70673	SB1687-3N	A1750070310	SB1750-61	E1772	01199	E2281	10153
70677	SB1687-5N	A1750075280	SB1750-51	E1777	01179	E2283	01535
70700	SB2003E-3N	A1750082307	SB1750-52	E1785	01212	E228315	01535+15
70700	SB2006E-1N	A1750102302	SB1750-60	E1787	01210	E2285	10386
70711	SB1500-1N	A1750125315	SB1750-59	E1791	01215	E228515	10386+15
70726	SB2000-3N	A1750141276	SB1750-65	E1797	01245	E2289	01648
70786	SB1375-3N	A1812075307	SB1812-51	E1799	01247	E2297	01653
70840	SB1562-36N	A1812100315	SB1812-53	E1803	01160	E2317	01710
71030	SB1437-3N	A1812114315	SB1812-54	E1805	01325	E2359	01547
71031	SB1437-2N	A1812116307	SB1812-50	E1807	01257	E2397	01591
71621	SB1262E-1	A1812131278	SB1812-55	E1809	01292	E239715	01591+15
71621+10	SB1262E-1+010	A1812165315	SB1812-52	E1813	01322	E2413	01597
71621+20	SB1262E-1+020	A1875094317	SB1875-51	E1817	01324	E2419	01537
71671	SB1536E-2N	A1875125280	SB1875-50	E1819	01271	E2421	01698
71681	SB1628E-1N	A1937109315	SB1937-51	E1827	01321	E2425	10235
71694	SB1638E-1N	A1937123379	SB1937-52	E1829	01310	E242715	10388+15
71696	SB1654E-1N	A892-4	VL21	E1831	01327	E2429	10148
71704	SB1687E-1N	E1049	00154	E1833	01300	E2431	10128A
71704	SB1693E-1N	E1051	00205	E1835	01354	E2433	01670
71710	SB1733E-2N	E1077	00400	E1837	01361	E2437	10144
71735	SB1858E-1N	E1077+15	00400+15	E1849	01326	E2447	01674
71752	SB1962E-1N	E1099	00486	E1853	01441	E2451	10177
71757	SB2003E-1N	E1105	00348	E1863	10060S	E2453	10315
71759	SB2004E-4N	E1235	00168	E1871	10086	E2464	10322
71761	SB2004E-3N	E1235	00626	E1875	01367	E2469	10163
71775	SB1991E-1N	E1265	00520	E1877	01387	E2473	10244
71780	SB2136E-1N	E1267	00518	E1881	01381	E2475	10237
71780	SB2212E-1N	E1271	00185	E1889	01394	E2489	10300
71847	SB2368E-2N	E1335	00549	E1891	01135	E2491	10191
71869	SB1692E-1N	E1349	00746S	E1901	01451	E2493	10196
71869+15	SB1692E-1N+015	E1349	01265	E1905	01469	E2495	10414
71869+30	SB1692E-1N+030	E1353	00564	E1907	01399	E2497	10164
71869+5	SB1692E-1N+005	E1355	01242	E1911	01814	E2499	10311
751SEA	00751S	E1355	01242+15	E1921+15	01266+15	E2509	10340A
752SEA	00752S	E1371	00489	E1923	01192	E2519	10315
91845	SB2381E-2C	E1459	00592	E1923+3	01192+3	E2521	10323
A1250126230	SB1250-56	E1497	00658	E1931	01041	E2531	10271
A1312082305	SB1312-50	E1539	01047	E1957	00921	E2553	10256
A1312107293	SB1312-53	E1549	00882A	E1981	01419	E2579	10386
A1312116305	SB1312-56	E1549	13136	E1981+15	01419+15	E2633+15	01715+15
A1312130280	SB1312-57	E1553	00608	E198115	01419+15	E2637	01664
A1312137316	SB1312-64	E1555	00873	E1983	01417	E2655	10435
A1375116280	SB1375-51	E1555	13103	E198315	01417+15	E2659	10546
A1375137410	SB1375-52	E1559	00759	E1991	01135	E2681	01704
A1375145230	SB1375-54	E1567	00742	E199115	01135+15	E2683	01702
A1437084255	SB1437-67	E1585	01266	E1995	01527	E2689	01807
A1437097316	SB1437-68	E1587	01358	E1999	01358	E2695	10173S
A1437102305	SB1437-50	E1587+15	01177S+15	E2001	01542	E2697	10517
A1437111315	SB1437-56	E1589	01329	E2002	01156	E2715	10229
A1437125297	SB1437-62	E1589+15	01329+15	E2045	01309	E2735	10138
A1437159300	SB1437-66	E1611	00976	E2049	01389	E2739	10507
A1437172322	SB1437-65	E1635	01332	E2083	01556	E2743	10519
A1500094307	SB1500-54	E1635+15	01332+15	E2141	01480	E2751	10474
A1500094345	SB1500-63	E1639	00970	E2141+15	01480+15	E2759	10525
A1500102310	SB1500-62	E1643	00974	E2143	02058	E2761	10542
A1500114214	SB1500-74	E1649	00919	E2147	01554	E2763	10544
A1500125280	SB1500-50	E1651	01106	E2149	01552	E2765	10207
A1500131307	SB1500-53	E1651+15	01106+15	E2151	01550	E2767	10198A
A1500135278	SB1500-73	E1661	01378	E215115	01550+15	E2769	01706
A1500144315	SB1500-58	E1669	01000	E2159	01568	E2771	10521
A1500148316	SB1500-57	E1669+15	01000+15	E2163	10104	E2773	10523
A1500164300	SB1500-75	E1683	01097	E2165	10146	E2787	01713
A1562078280	SB1562-50	E1685	01093	E2189	10069	E2787	10548
A1562099319	SB1562-67	E1705	01072	E2197	10106	E2793	01782
A1562109344	SB1562-54	E1709	01188	E2199	10330A	E2809	10503
A1562137280	SB1562-66	E1713	01189	E2215	10142	E2823	10170
A1562175317	SB1562-69	E1715	01083	E2217+15	01556+15	E2831	10159
A1625098300	SB1625-53	E1717	01156	E2221	10129	E2833	10235
A1625102315	SB1625-52	E1717+15	01156+15	E2227	01646S	E2839	10551
A1625125317	SB1625-56	E1721	01307	E2233	01455	E2841	10563
A1625137315	SB1625-58	E1731	01102	E2237	01397	E2843	01708
A1625156300	SB1625-62	E1735	01147	E2241	01545	E2863	10497
		E1761	01237	E2247	01504	E2865	10499
		E1763	01171	E2255	01770R	E2867	10501

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E2925	01675	E5183	02265	EHC126S	220-1098
E2927	01531	E5189	10817	EHC165	121-1065
E2931	01758	E5191	10809	EHC206	121-1084
E2939	10413	E5193	10811	EHC208	121-1028
E3173	10625	E5195	13046	EHC213	121-1026
E3191	01786	E5197	10815	EHC217	121-1018
E3223	01735	E5199	02235	EHC217	121-1118
E3407	01731	E5203	02240	EHC221	121-1049
E3409	01905	E5205	13082	EHC222	121-1069
E3415	01746	E5213	13039	EHC224	121-1020
E3419	01936	E5215	13042	EHC227	121-1054
E3421	01729	E5217	13044	EHC2330	220-1031
E3423	01788	E5221	13078	EHC2332	220-1060
E3427	01744	E5223	13080	EHC2337	220-1017
E3431	01914	E5227	13087	EHC2337	220-1095
E3439	01925	E5229	13089S	EHC2341	220-1071
E3439	01925S	E5231	13183	EHC2353	220-1030
E3441	01937	E5233	13191	EHC2353	220-1086
E3445	01935	E5235	13195	EHC237	121-1052
E3447	02045	E5239	13207	EHC2387	220-1008
E3449	01903	E5241	13209	EHC2392	220-1006
E3461	10740	E5247	13200	EHC2420	220-1010
E3463	10813	E5251	13226	EHC2426	220-1099
E3465	10549	E5259	13230	EHC2780	121-1058
E3467	10724	E5261	13238	EHC2781	121-1074
E3477	02040S	E5267	13216	EHC2782	121-1090
E3483	13274S	E5269	13198	EHC2783	121-1085
E3489	10536	E5271	13205	EHC2784	121-1079
E3491	10538	E5273	13264	EHC2785	121-1031
E3499	10736	E5277	13262	EHC2786	121-1063
E3501	10420	E5279	13260	EHC2788	121-1059
E4214	10083	E5285	13266	EHC2789	121-1062
E4218	10064	E5287	13295	EHC2792	121-1086
E4322	10308	E5289	13289	EHC2793	121-1087
E5017	01919	E5291	13287	EHC2795	121-1082
E5019	01917	E5725	13277	EHC2797	121-1080
E5019+15	01917+15	E701	00270	EHC2800	121-1071
E5021	01992	E713	00212	EHC2801	121-1076
E5023	01994	E727	00100	EHC2802	121-1078
E5025	02047	E781	00121	EHC2803	121-1089
E5027	02054	E785	00303	EHC2807	121-1093
E5045	10795	E841	00196	EHC2808	121-1094
E5053	01519	E843	00210	EHC2809	121-1095
E5055	01662S	E861	00170	EHC2810	121-1096
E5059	02010S	E871	00327	EHC2811	121-1097
E5065	01579S	E871	00411	EHC2812	121-1100
E5071	02119	E891	00249	EHC2813	121-1101
E5073	10803S	E911	00375	EHC2814	121-1102
E5079	02035	E949	00234	EHC2815	121-1103
E5081	02036	EA600	00600	EHC2817	121-1105A
E5083	02009	EA601	00601	EHC2818	121-1106
E5085	02007	EC1303	00530SN	EHC2819	121-1107
E5087	01999	EC1637	00917SN	EHC2821	121-1048
E5089	02007	EC163715	00917SN+15	EHC2823	121-1099
E5101	10437	EC1879	01383SN	EHC2824	121-1108
E5105	10781	EC1879+15	01383SN+15	EHC2825	121-1127
E5107	01950	EC1977	01385SN	EHC2826	121-1129
E5109	02173	EC1977+15	01385SN+15	EHC2827	121-1130
E5119	01862	EC1979	01241SN	EHC2828	121-1128
E5123	10779	EC3263	01832SN	EHC309	121-1017
E5127	02182S	EHC01027	121-1027	EHC510	121-1072
E5131	10799	EHC01073	121-1073	EHC555	121-1003
E5136	00703	EHC0217	121-1021	EHC613	121-1007
E5137	01801	EHC0310	121-1002	EHC614	121-1011
E5139	02015	EHC101K	220-1026	EHC619	121-1024
E5147	00758	EHC102K	220-1014	EHC620	121-1019
E5149	00702	EHC108K	220-1019	EHC716	121-1039
E5165	02195	EHC109S	220-1085	EHC743	121-1001
E5167	02197	EHC110K	220-1016	EHC746	121-1000
E5169	10807	EHC112K	220-1024	EHC766	121-1014
E5171	02220	EHC113K	220-1004	EHC803	121-1006
E5171B	02220	EHC114K	220-1023	EHC810	121-1045
E5179	02246	EHC119K	220-1101	EHC811	121-1023
E5181	02193	EHC121S	220-1083	EHC813	121-1034
		EHC123S	220-1081	EHC816	121-1030
		EHC124S	220-1052	EHC819	121-1047
				EHC822	121-1010
				EHC860	121-1046
				EOS1050	122-1011
				EOS1053	122-1189
				EOS1054	122-1014
				EOS1062	122-1009
				EOS1064	122-1192
				EOS1065	122-1074
				EOS1066	122-1196
				EOS1068	122-1015
				EOS1068	122-1075
				EOS1068	122-1253
				EOS1100	122-1047
				EOS1100	122-1047
				EOS1100	122-1233
				EOS1239	122-1239
				EOS1241	122-1241
				EOS1241	122-1374
				EOS1301	122-1301
				EOS1391	122-1391
				EOS1392	122-1392
				EOS1392	122-1443
				EOS1414	122-1414
				EOS1415	122-1415
				EOS1420	122-1420
				EOS1421	122-1421
				EOS1424	122-1424
				EOS1432	122-1432
				EOS2006	122-1063
				EOS2100	122-1205
				EOS2100	122-1334
				EOS2101	122-1215
				EOS2102	122-1216
				EOS2104	122-1226
				EOS2105	122-1356
				EOS2107	122-1252
				EOS2110	122-1276
				EOS2112	122-1314
				EOS2115	122-1324
				EOS2117	122-1327
				EOS2118	122-1329
				EOS2119	122-1332
				EOS2120	122-1333
				EOS231PA	122-1040
				EOS240B	122-1043
				EOS253	122-1046
				EOS254	122-1051
				EOS450	122-1270
				EOS450PA	122-1038
				EOS530PA	122-1041
				EOS535	122-1079
				EOS713	122-1003
				EOS766PA	122-1034
				EOS806	122-1199
				EOS812	122-1067
				EOS821	122-1077
				EOS830VT	122-1069
				EOS844VT	122-1330
				EOS9036	122-1351
				EOS9038	122-1227
				EOS904	122-1336
				EOS9040	122-1282
				EOS9043	122-1236
				EOS9049	122-1349
				EOS9050	122-1288
				EOS9051	122-1337
				EOS9052	122-1338
				EOS9053	122-1323
				EOS9054	122-1119
				EOS9057	122-1346
				EOS905PA	122-1033
				EOS9061	122-1139
				EOS9061	122-1377
				EOS9064	122-1137
				EOS9065	122-1266
				EOS907	122-1005

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EOS907	122-1059	EOS9170	122-1447	EX2747	10306S	HL7010	VL156
EOS9070	122-1187	EOS921	122-1031	EX2799	10221S	HL7011	VL558
EOS9071	122-1180	EOS921PA	122-1037	EX2881	10342S	HL7011	VL558FG
EOS9072	122-1181	EOS935	122-1052	EX2913	10220S	HL7011	VL558RG
EOS9073	122-1347	EOS936	122-1053	EX2929	01659S	HL7012	VL180
EOS9075	122-1163	EOS938	122-1075	EX3517	01698S	HL7013K	VL555LA
EOS9076	122-1165	EOS938PA	122-1048	EX3525	10734S	HL7014K	VL556LA
EOS9077	122-1251	EOS940	122-1335	EX3527	10787S	HL7015K	VL557LA
EOS9078	122-1342	EOS950	122-1206	EX3537	13203S	HL7017	VL561
EOS9079	122-1065	EOS950PA	122-1039	EX3539	13175S	HL9001	VL135
EOS9080	122-1066	EOS960	122-1082	EX3541	13291S	HL9001	VL564
EOS9081	122-1299	EOS962	122-1116	EX477	01294S	HL9002	VL149
EOS9084	122-1243	EOS962	122-1141	EX5029	10215S	HL9002	VL568
EOS9086	122-1223	EOS962	122-1162	EX5029	10217	HL9021	VL523
EOS9088	122-1221	EOS962	122-1263	EX5035	10374S	HL9022	VL524
EOS9089	122-1175	EOS964	122-1086	EX5041	10732S	HL9029	VL567
EOS9092	122-1362	EOS964	122-1130	EX5047	10793S	I1000125188	SB1000-1
EOS9093	122-1361	EOS967	122-1088	EX5051	10696S	I1042	00343
EOS9094	122-1360	EOS967	122-1127	EX5073	10803S	I1052	00349
EOS9095	122-1439	EOS972	122-1132	EX5173	10805S	I1056	00169
EOS9096	122-1358	EOS978	122-1089	EX5201	02178S	I1078	00399
EOS9097	122-1357	EOS995	122-1136	EX5231	13140S	I1078+15	00399+15
EOS9099	122-1355	EOS995	122-1152	EX631	10037	I1110	00155
EOS910	122-1036	EOS997	122-1149	EX633	10036S	I125125219	SB1125-1
EOS9100	122-1354	EX1171	00598S	EX635	10033S	I1187094188	SB1187-1
EOS9101	122-1350	EX1239	00427S	EX733	00185	I1222	00494
EOS9102	122-1348	EX1303	01346S	EX867	01206S	I1238+15	01481+15
EOS9103	122-1344	EX1379	01017S	EX86715	01206S+15	I1250125219	SB1250-1
EOS9104	122-1373	EX1383	00559S	EX901	02250S	I1250125250	SB1250-3
EOS9105	122-1341	EX1597	00602	EX903	02248S	I1266	00514
EOS9106	122-1340	EX1613	00753S	EX969	00326S	I1312125188	SB1312-1
EOS9107	122-1328	EX1613	00754	GD9716	140-9716	I1316	00548
EOS9109	122-1322	EX1633	01177S	HB124	220-1018	I1336	00550
EOS910PA	122-1045	EX165115	01261S+15	HB128	220-1021	I1350	00567
EOS910PA	122-1287	EX1655	00996S	HB148	220-1028	I1350+15	00567+15
EOS9110	122-1320	EX1655	01235S	HL1812	VL8	I1352	00548
EOS9111	122-1302	EX1655+15	00996S+15	HL1817	VL37	I1354	00627
EOS9112	122-1300	EX1735	01693S	HL1817HP	VL66RH	I1356	00585
EOS9113	122-1274	EX1769	01133S	HL1846	VL5	I1375125188	SB1375-4
EOS9114	122-1258	EX177915	01294S+15	HL1900	VL35	I1375125219	SB1375-1
EOS9115	122-1259	EX1793	00793	HL1900HP	VL67RH	I1375125250	SB1375-2
EOS9116	122-1254	EX1867	01807S	HL1945	VL32	I1375125266	SB1375-5
EOS9118	122-1242	EX1875+15	01367+15	HL1951	VL49	I1375156188	SB1375-3
EOS911PA	122-1035	EX1879	01383SN	HL1969	VL73	I1375156250	SB1375-7
EOS9121	122-1269	EX1935	01368S	HL1969HP	VL117RH	I1382	00560
EOS9123	122-1224	EX1951	01217S	HL1976HP	VL64	I1418	00637
EOS9124	122-1217	EX1975	01468S	HL2011	VL89	I1418+15	00637+15
EOS9125	122-1218	EX1985	01431S	HL2012	VL83	I1437094219	SB1437-1
EOS9126	122-1177	EX2005	01483S	HL2056	VL109	I1437109219	SB1437-2
EOS9131	122-1370	EX2007	01261S	HL2083	VL9	I1437125219	SB1437-3
EOS9131	122-1371	EX2029	01177S	HL2089	VL88	I1437125250	SB1437-5
EOS9132	122-1212	EX2029+15	01358+15	HL2095	VL94	I1437156188	SB1437-10
EOS9133	122-1378	EX2047	01506S	HL2102	VL86	I1437156219	SB1437-4
EOS9134	122-1378	EX2073	01525S	HL2105	VL87	I1437156250	SB1437-8
EOS9140	122-1365	EX2101	01482S	HL2148	VL115	I1437156313	SB1437-6
EOS9141	122-1394	EX2169	10102S	HL2148	VL559	I1437188188	SB1437-9
EOS9144	122-1418	EX2169	10302	HL2198	VL121	I1460	00593
EOS9145	122-1409	EX2203	10269	HL2201	VL114	I1476	00696
EOS9147	122-1364	EX2213	10407S	HL2205	VL100	I1498	00659
EOS9148	122-1425	EX2247+15	01504S	HL2217	VL113	I1500082219	SB1500-4
EOS9149	122-1423	EX2307	01542S	HL2220	VL106	I1500094219	SB1500-30
EOS9150	122-1427	EX230715	01542S+15	HL2236	VL116	I1500125188	SB1500-13
EOS9151	122-1433	EX2515	10274S	HL2254	VL146	I1500125219	SB1500-1
EOS9152	122-1438	EX2517	10282	HL2255	VL124	I1500125250	SB1500-3
EOS9154	122-1363	EX2517	10282S	HL2270	VL138	I1500141250	SB1500-11
EOS9155	122-1419	EX2525	10278S	HL2278	VL173	I1500156219	SB1500-2
EOS9156	122-1369	EX2533	10193	HL2280	VL176	I1500156250	SB1500-6
EOS9157	122-1413	EX2543	10356S	HL2332	VL560	I1538	01048
EOS915PA	122-1006	EX2547	10338S	HL6000	VL141	I1554	00874
EOS9163	122-1428	EX2627	01422S	HL7000	VL107	I1554	13101
EOS9164	122-1429	EX2669	10557S	HL7000	VL562	I1562094219	SB1562-12
EOS9165	122-1430	EX2673	10555S	HL7002	VL150	I1562094250	SB1562-5
EOS9166	122-1441	EX2679	01780S	HL7003	VL163	I1562096219	SB1562-9
EOS9167	122-1442	EX2705	10285S	HL7005	VL171	I1562096250	SB1562-2
EOS9169	122-1445	EX2711	10227S	HL7007	VL175	I1562109219	SB1562-3
		EX2741	10553S	HL7008	VL178	I1562125188	SB1562-36

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I1562125219	SB1562-1	I1761	01238	I2000125188	SB2000-36	I2394	10387
I1562125250	SB1562-4	I1762	01172	I2000125219	SB2000-1	I2396	10147
I1562125313	SB1562-18	I1764	01170	I2000125281	SB2000-20	I2400	10126A
I1562156250	SB1562-7	I1764+15	01170+15	I2000125313	SB2000-18	I2402	101671
I1562156313	SB1562-34	I1773	01200	I2000156250	SB2000-16	I2406	10314
I1562188219	SB1562-13	I1776	01186	I2000156278	SB2000-2	I2408	10143
I1584	01268	I1778	01180	I2000156375	SB2000-4	I2412	10176
I1586	00963	I1778	01180+15	I2000188219	SB2000-12	I2416	101673
I1586+15	01120+15	I1790	01216	I2000188297	SB2000-3	I2422	10117
I1588	00938	I1792	00912	I2000188313	SB2000-14	I2434	10243
I1588+15	00938+15	I1800	01161	I2000221250	SB2000-10	I2436	10236
I1610	00958	I1804	01260	I2000221375	SB2000-34	I2450	10299
I1612	00975	I1806	01258	I2006	01484	I2452	10190
I1625125219	SB1625-1	I180615	01258+15	I2018	00867	I2454	10195
I1625125250	SB1625-2	I1808	01293	I2022	01193	I2456	01598
I1625141250	SB1625-5	I1812	01323	I2034	01450	I2464	10322
I1625156219	SB1625-4	I1812094219	SB1812-3	I2038	01569	I2466	10273
I1625156250	SB1625-3	I1812096219	SB1812-12	I2042	10105	I2468	10270
I1625156250N	SB1625-3N	I1812125219	SB1812-4	I2044	10145	I2470	10263
I1625156313	SB1625-10	I1812125219N	SB1812-4N	I2046	10103	I2484	10277
I1625188219	SB1625-9	I1812125250	SB1812-1	I2052	10107	I2488	10281
I1625188250	SB1625-6	I1812125313	SB1812-10	I2054	10070	I2496	10307
I1625188375	SB1625-29	I1812156219	SB1812-2	I2060	01557	I2512	10309
I1628	00947	I1812156250	SB1812-5	I2060+15	01557+15	I2516	10015
I1634	01120	I1812188250	SB1812-7	I2062094250	SB2062-1	I2518	10255
I1636	00918	I1816	01285	I2062156219	SB2062-25	I2536	10310
I1636	00949	I1818	01263	I2062156278	SB2062-2	I2538	10192
I1640	00969	I1820	01272	I2064	01328	I2584	10387
I1644	01457	I1822	01362	I2070	01456	I258415	10387+15
I1650	00988	I1828	01311	I2076	01195	I2590	01757
I1652	01107	I1830	01328	I2082	01479	I2602+15	01714+15
I1652+15	01107+15	I1836	01357	I2112	10117	I2604	01665
I1654	01164	I1840	01348	I2114	01536	I2654	10434
I1656	00997	I1852	01442	I211415	01536+15	I2656	10122
I1660	01379	I1862	10061	I2124+15	01505+15	I2660	10197A
I1662	01002	I1870	10087	I2125125250	SB2125-2	I2662	10436
I1670	01001	I1874	01380	I2125156188	SB2125-38	I2670	01712
I1670+15	01001+15	I1874+15	01380+15	I2125156250	SB2125-1	I2680	01703
I1682	01098	I1875094219	SB1875-20	I2125188281	SB2125-10	I2684	01705
I1687125156	SB1687-15	I1875125219	SB1875-6	I2138	01481	I2692	01931
I1687125219	SB1687-2	I1875125250	SB1875-1	I2140	02057	I2694	10172
I1687125219N	SB1687-2N	I1875125313	SB1875-17	I2144	01555	I2696	10516
I1687125250	SB1687-3	I1875141250	SB1875-7	I2146	01553	I2706	10226
I1687125313	SB1687-13	I1875156219	SB1875-19	I2148	01551	I2708	10228
I1687141250	SB1687-1	I1875156250	SB1875-2	I214815	01551+15	I2710	10224
I1687141250N	SB1687-1N	I1875188250	SB1875-9	I2152	10385	I2732	10137
I1687156219N	SB1687-5N	I1876	01388	I215215	10385+15	I2736	10506
I1687156250	SB1687-7	I1880	01382	I2154	10118	I2738	10552
I1687156315	SB1687-8	I1888	01395	I2172	01654	I2744	10305
I1687172315	SB1687-4	I1896	01449	I2180	01649	I2748	10473
I1687188219	SB1687-9	I1897	01448	I2198	10328A	I2756	10524
I1687188250	SB1687-6	I1900	01452	I2202	10268	I2758	10541
I1687188313	SB1687-11	I1902	01450	I2204	10078	I2760	10432
I1687221250	SB1687-19	I1904	01470	I2214	10406	I2762	10543
I1708	01082	I1910	01813	I2216	10141	I2764	10206
I1712	01105	I1922	01393	I2218	01528	I2768	01707
I1714	01084	I1924	01193	I2220	10127	I2772	10520
I1730	01103	I1924+15	01193+15	I2228	01726	I2774	10522
I1732	01137	I1924+3	01193+3	I2240	01546	I2802	10219
I1750	01087	I1926	00609	I2248	01507	I2804	10502
I1750125219	SB1750-2	I1930	01042	I2250156188	SB2250-1	I2808	10213
I1750125219N	SB1750-2N	I1937094219	SB1937-19	I2250156219	SB2250-35	I2814	10506
I1750125250	SB1750-1	I1937125219	SB1937-17	I2250156250	SB2250-15	I2816	10172
I1750125250N	SB1750-1N	I1937125250	SB1937-1	I2250188250	SB2250-9	I2818	10169
I1750156219	SB1750-3	I1937125281	SB1937-15	I2250188278	SB2250-2	I2826	10157
I1750156219N	SB1750-3N	I1937125313	SB1937-30	I2256	01763R	I2830	10234
I1750156250	SB1750-4	I1937156219	SB1937-6	I2274	01711	I2834	10550
I1750156315	SB1750-5	I1937188250	SB1937-4	I2366	01592	I2836	10562
I1750188219	SB1750-7	I1937188250N	SB1937-4N	I236615	01592+15	I2836	10788S
I1750188250	SB1750-8	I1937188313	SB1937-3	I2375188281	SB2375-2	I2858	10495
I1750188375	SB1750-0	I1956	00922	I2375188281N	SB2375-2N	I2864	10500
I1750219250	SB1750-6	I1958	01423	I2380	01598	I2880	10496
I1756	01152	I1968	01598	I2384	01470	I2884	10218
I1760	01238	I1994	01528	I2386	10162	I2904	10498
		I1998	01543	I2388	01699	I2912	10296
		I2000094219	SB2000-7	I2390	10234	I2918	01532

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ELGIN (Cont'd)	I5118	02181	IX1878	01384S	PR35AB	190-1269
I2920	I5120	02177	IX1878+15	01384S+15	PR361	190-1513
I2950	I5122	10798	IX1964	01336S	PR363	190-1467
I2976	I5128	02014	IX1976	01386S	PR365	190-1489
I3122	I5150	01899	IX1976+15	01386S+15	PR366	190-1473
I3168	I5154	02194	IX1984	01432	PR367	190-1500
I3188	I5156	02196	IX2284	01548S	PR369	190-1469
I3200	I5158	10806	IX2474	10339SA	PR371	190-1502
I3214	I5160	02103	IX2672	10556	PR372	192-1480
I3406	I5164	02249	IX2674	10554S	PR373	192-1485
I3408	I5166	02245	IX3442	01924S	PR374	192-1484
I3410	I5168	02192	IX3516	01699S	PR375	192-1481
I3418	I5170	02247	IX3518	13290S	PR376	192-1482
I3420	I5174	10816	IX5070	10804S	PR378	190-1455
I3422	I5176	10808	IX5226	13139S	PR379	192-1339
I3424	I5178	10810	MPR381	192-1507	PR380	192-1338
I3426	I5182	10814	MPR454	192-1506	PR381	190-1507
I3428	I5184	02234	MPR614	190-1537	PR382	190-1526
I3434	I5190	02241	OS642	122-1041	PR384	192-1491
I3438	I5198	13179	PR103B	190-1433	PR387	190-1433+35
I3442	I5200	13081	PR103B	190-1433	PR389	190-1433+60
I3444	I5202	13013	PR105	192-1229	PR391	192-1229U60
I3446	I5204	13038	PR152	190-1237	PR399	190-1529
I3448	I5206	13040	PR155	190-1342	PR403	190-1426+60
I3452	I5208	13043	PR201	190-1370	PR405	190-1450+15
I3454	I5212	13047	PR230	192-1504	PR406	190-1450+45
I3456	I5216	13077	PR230A	192-1503	PR410	190-1454+40
I3464	I5218	13079	PR274	190-1425	PR412	192-1482U40
I3466	I5222	13086	PR274A	190-1425+60	PR415	192-1322U40
I3468	I5224	13088	PR279	192-1321	PR426	190-1473U57
I3470	I5226	13182	PR280	192-1399	PR434	190-1511
I3478	I5228	13190	PR280B	192-1439	PR435	190-1509
I3492	I5230	13194	PR281	192-1409	PR438	190-1532
I3500	I5232	13172	PR281B	192-1409U60	PR44	192-1337
I3502	I5234	13206	PR282	192-1462	PR441	192-1337
I3504	I5236	13208	PR301	190-1429	PR442	192-1336
I3508	I5240	13199	PR302	190-1421	PR445	192-1484
I3522	I5242	13211	PR305	190-1385	PR446	190-1536
I3532	I5244	13225	PR306	192-1322	PR447	190-1531
I4026	I5246	13251	PR307	190-1411	PR447	190-1538
I4028	I5248	13244	PR308	190-1396	PR448	190-1530
I408	I5250	13240	PR309	190-1395	PR44A	192-1336
I408+15	I5252	13239	PR309B	190-1478	PR45	192-1377
I408+3	I5254	13237	PR310	190-1417	PR454	192-1506
I4342	I5260	13215	PR310A	190-1417+60	PR456	190-1427
I4710	I5262	13197	PR310B	190-1417U60	PR45A	192-1378
I5006	I5264	13204	PR311	190-1351	PR460	192-1505
I5016	I5266	13210	PR311A	190-1351+60	PR462	190-1525
I5017	I5268	02267	PR311B	190-1351U60	PR463	190-1527
I5018	I5270	13263	PR312	190-1426	PR464	190-1528
I5020	I5272	13276	PR313	190-1327	PR465	190-1524
I5022	I5274	13261	PR313B	190-1327U54	PR471	190-0471
I5024	I5276	13259	PR314	190-1349	PR474	190-1535
I5026	I5278	13257	PR315	190-1328	PR475	190-1534
I5034	I5281	13258	PR317	192-1330	PR490	192-1513
I5038	I5282	13201	PR318	192-1335	PR498	192-1511
I5040	I5284	13174	PR321	190-1408	PR499	192-1512
I5044	I5286	13265	PR323	190-1403	PR602	192-1508
I5046	I5288	13294	PR324	190-1450	PR603	192-1507
I5058	I5290	13293	PR325A	190-1422	PR604	190-1541
I5066	I5292	13288	PR326	192-1381	PR605	190-1533
I5068	I5294	13286	PR327	190-1384	PR607	190-1522
I5070	I550	13135	PR333	190-1440	PR608	190-1531
I5080	I632	10048	PR335	190-1433	PR609	190-1500
I5082	I636	10031	PR335A	192-1442	PR610	190-1539
I5082	I638	10056	PR337	190-1435	PR614	190-1537
I5084	I750	01087+15	PR339	190-1443	PR638	192-1510
I5086	I767	00298	PR342	192-1444	PR639	192-1509
I5090	I782	00122	PR343	190-1438	PR642	190-1548
I5098	I786	00302	PR344	192-1446	PR652	190-1544
I5100	I840	00810	PR345	190-1449	PR653	190-1545
I5102	I868	00308	PR347	192-1453	PR662	190-1548
I5104	I914	00376	PR34B	192-1331	PR664	190-1552
I5106B	I920	00373	PR353	190-1454	PR665	190-1551
I5116	IX1328	00531S	PR356	190-1522	PR667	190-1549
	IX1436	01057S	PR358	190-1489	PR668	190-1550

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		RK408	181-1020	RV1066	160-1019	RV1426	160-1394
		RK409	181-1017	RV1070	160-1020	RV1430	160-1250
		RK410	181-1018	RV1082	160-1023	RV1446	160-1238
PR669	190-1546	RK416	181-1008	RV1086	160-1024	RV1448	160-1239
PR670	190-1547	RK431	181-1044	RV1096	160-1025	RV1450	160-1236
PR685	190-1553	RK434	181-1020	RV1106	160-1028	RV1455	160-1241
PR71	190-1221	RK450	181-1021	RV1107	160-1029	RV1457	160-1318
PR73	190-1543	RK504	181-1014	RV1123	160-1030	RV1529	160-1273
PR80	190-1222	RK507	181-1048	RV1125	160-1031	RV1530	160-1274
PR81	190-1280	RK508	181-1049	RV1126	160-1033	RV1537	160-1271
R1805	180-1007	RK511	181-1023	RV1135	160-1038	RV1549	160-1272
R1806	180-1007	RK530	181-1020	RV1149	160-1041	RV1550	160-1339
R1807	180-1008	RK531	181-1020	RV1158	160-1226	RV1558	160-1112
R1850	180-1028	RK532	181-1025	RV1166	160-1204	RV1601	160-1327
R217	180-1264	RK533	181-1044	RV1167	160-1173	RV1615	160-1408
R5253	13252	RK536	181-1020	RV1173	160-1184	RV1680	160-1266
R607	180-1315	RK5412	181-1028	RV1175	160-1044	RV1684	160-1264
R702	180-1324	RK543	181-1020	RV1178	160-1190	RV1710	160-1383
R703	180-1322	RK5442	181-1032	RV1189	160-1187	RV1943X	160-1407
R710	180-1029	RK545	181-1034	RV1193	160-1047	RV2210	160-1427
R736	180-1283	RK547	181-1034	RV1195X	160-1049	RV221B	160-1285
R740	180-1236	RK548	181-1035	RV1198	160-1052	RV2220	160-1342
R750	180-1079	RK5502	181-1059	RV1199	160-1053	RV2221	160-1343
R751	180-1080	RK5512	181-1037	RV1200	160-1482	RV2222	160-1441
R754	180-1318	RK5532	181-1057	RV1201	160-1054	RV2223	160-1626
R755	180-1319	RK5542	181-1059	RV1202	160-1055	RV2225	160-1483
R756	180-1313	RK600	181-1040	RV1216	160-1171	RV2230	160-1426
R758	180-1288	RK610	181-1041	RV1217	160-1170	RV2302	160-1504
R808	180-1004	RK610B	181-1041	RV1218	160-1064	RV2406	160-1402
R809	180-1004	RK650	181-1060	RV1220X	160-1233	RV2412	160-1403
R810	180-1037	RK673	181-1064	RV1230	160-1206	RV2450	160-1385
R813	180-1040	RK674	181-1063	RV1240	160-1198	RV2460	160-1382
R814	180-1041	RM1704	183-1027	RV1241	160-1181	RV2470	160-1396
R819	180-1012	RM1718	183-1028	RV1242	160-1210	RV2471	160-1397
R840	180-1239	RM1719	183-1014	RV1244	160-1202	RV2475	160-1430
R842	180-1228	RM1720	184-1032	RV1245	160-1203	RV2476	160-1437
R849	180-1304	RM1721	183-1015	RV1246	160-1069	RV2484	160-1366
R850	180-1055	RM1723	184-1033	RV1250	160-1071	RV2488	160-1578
R851	180-1056	RM1724	187-1014	RV1253X	160-1194	RV2498	160-1443
R859	180-1059	RM1731	183-1017	RV1258	160-1072	RV2556	160-1450
R867	180-1229	RM1740	184-1034	RV1265	160-1363	RV3500	160-1352
R876	180-1237	RM1741	184-1035	RV1266X	160-1075	RV3502	160-1267
R886	180-1238	RM1758	184-1045	RV1268	160-1076	RV3504	160-1488
R888	180-1233	RM1771	183-1030	RV1270	160-1365	RV3505	160-1377
R889	180-1234	RM1772	183-1020	RV1278	160-1378	RV3509	160-1398
R892	180-1077	RM1773	183-1021	RV1280	160-1229	RV3510	160-1410
R893	180-1078	RM1776	183-1022	RV1282	160-1199	RV3511	160-1358
R900	180-1292	RM1783	183-1024	RV1289	160-1079	RV3512	160-1347
R904	180-1321	RM1786	184-1038	RV1290	160-1172	RV3513	160-1431
R905	180-1320	RM1791	184-1039	RV1291	160-1217	RV3514	160-1411
R906M	180-1335	RM1792	183-1032	RV1292	160-1218	RV3515	160-1425
R907M	180-1337	RM1793	184-1040	RV1293	160-1213	RV3517	160-1436
R908M	180-1336	RM1796	184-1038	RV1294	160-1207	RV3518	160-1506
R9097	180-1240	RM1797	183-1026	RV1296	160-1304	RV3523	160-1372
R9098	180-1265	RM1798	183-1027	RV1298	160-1303	RV3524	160-1326
R9099	180-1266	RM1861	183-1034	RV1299	160-1080	RV3534	160-1338
R9100	180-1267	RM8827	183-1035	RV1301X	160-1083	RV3536	160-1444
R9106	180-1326	RS641	186-1090	RV1303	160-1085	RV3544	160-1319
R9111	180-1328	RS661	186-1100	RV1304	160-1086	RV3545	160-1348
R9113	180-1333	RS677	186-1121	RV1306	160-1103	RV3546	160-1379
R9114	180-1325	RV1001	160-1000	RV1310	160-1247	RV3550	160-1414
R9123	180-1332	RV1002X	160-1001	RV1313	160-1307	RV3552	160-1423
R9126	180-1331	RV1009A	160-1003	RV1330X	160-1089	RV3553	160-1424
R925	180-1207	RV1011	160-1004	RV1332	160-1305	RV3555	160-1416
R929	180-1284	RV1014	160-1177	RV1368	160-1096	RV3557	160-1480
R930	180-1330	RV1015	160-1005	RV1370	160-1097	RV3558	160-1432
RDS941	184-1020	RV1016	160-1006	RV1374	160-1099	RV3559	160-1446
RDS943	184-1021	RV1016X	160-1147	RV1378X	160-1409	RV356	160-1604
RDS944	184-1022	RV1034	160-1008	RV1388	160-1103	RV3560	160-1457
RDS945	184-1023	RV1038X	160-1009	RV1398	160-1262	RV3561	160-1485
RDS948	184-1025	RV1041X	160-1011	RV1399	160-1261	RV3562	160-1471
RDS971	184-1045	RV1044	160-1012	RV1403	160-1216	RV3563	160-1472
RK1736	181-1061	RV1047	160-1013	RV1405	160-1106	RV3564	160-1504
RK401	181-1011	RV1048	160-1014	RV1409	160-1253	RV3565	160-1508
RK402	181-1012	RV1050	160-1016	RV1420	160-1201	RV3568	160-1449
RK405	181-1014	RV1061	160-1018	RV1425	160-1393	RV3569	160-1417
RK407	181-1016						

Interchange Listing

ENGINETECH (Cont'd)							
EM2515	10274S	EPR344	192-1446	ERV1175	160-1044	GD7946	140-7946
EM2517	10282	EPR345	190-1449	ERV1258	160-1072	GD8021	140-8021
EM2517	10282S	EPR34B	192-1331	ERV1330	160-1089	GD8038	140-8038
EM2519	10315	EPR353	190-1454+40	ERV1348	160-1348	GD8040	140-8040
EM2521	10323	EPR356	190-1522	ERV1415	160-1488	GD8112	140-8112
EM2533	10193	EPR358	190-1489	ERV1432	160-1432	GD8113	140-8113
EM2547	10338S	EPR366	190-1473	ERV1450	160-1450	GD8147	140-8147
EM2553	10256	EPR372	192-1480	ERV1457	160-1457	GD8155	140-8155
EM2655	10435	EPR373	192-1485	ERV1484	160-1484	GD8156	140-8156
EM2695	10173S	EPR374	192-1484	ERV1485	160-1485	GD8157	140-8157
EM2697	10517	EPR375	192-1481	ERV1568	160-1568	GD8180	140-8180
EM2705S	10285S	EPR376	192-1482	ERV1588	160-1588	GD8204	140-8204
EM2711	10227S	EPR378	190-1455	ERV1612	160-1612	GD8207	140-8207
EM2715	10229	EPR380	192-1338	ERV1613	160-1613	GD8211	140-8211
EM2739	10507	EPR381	190-1507	ERV1614	160-1614	GD8216	140-8216
EM2741	10553S	EPR384	192-1491	ERV1680	160-1266	GD8217	140-8217
EM2747	10306S	EPR434	160-1511	ERV2215	160-1352	GD8219	140-8219
EM2751	10474	EPR435	190-1509	ERV2225	160-1483	GD8256	140-8256
EM2763	10544	EPR438	190-1532	ERV2302	160-1504	GD8274	140-8274
EM2765	10207	EPR454	192-1506	ERV2475	160-1430	GD8277	140-8277
EM2767	10198A	EPR456	190-1427	ERV2476	160-1437	GD8292	140-8292
EM2799	10221S	EPR460	192-1505	ERV2487	160-1411	GD8293	140-8293
EM2809	10503	EPR465	190-1524	ERV2498	160-1443	GD8476	140-8476
EM2831	10159	EPR471	190-0471	ERV3510	160-1410	GD8494	140-8494
EM2839	10551	EPR490	192-1513	ERV3557	160-1480	GD8535	140-8535
EM2841	10563	EPR499	192-1512	ERV3598	160-1488	GD8536	140-8536
EM2865	10497	EPR602	192-1508	ERV619	160-1121	GD8547	140-8547
EM2865	10499	EPR603	192-1507	ERV685	160-1125	GD8548	140-8548
EM2913	10220S	EPR604	190-1541	ERV765	160-1130	GD8554	140-8554
EM3461	10740	EPR605	190-1533	ERV807	160-1134	GD8555	140-8555
EM3467	10724	EPR610	190-1539	ERV812	160-1135	GD8556	140-8556
EM3483	10803S	EPR614	190-1537	ERV813	160-1136	GD8558	140-8558
EM3485	10805S	EPR638	192-1510	ERV814	160-1137	GD8560	140-8560
EM3488	10804S	EPR639	192-1509	ERV864	160-1141	GD8571	140-8571
EM3591	10538	EPR652	190-1544	ERV880	160-1144	GD8574	140-8574
EM4301	13078	EPR669	190-1546	ERV922	160-1156	GD8575	140-8575
EM4349	10542	EPR670	190-1547	ERV923	160-1157	GD8593	140-8593
EM4351	10809	ER1806	180-1007	ERV943	160-1144HP	GD8658	140-8658
EM4353	02040S	ER1807	180-1008	ERV991	160-1161	GD8659	140-8659
EM4355	10793S	ER410	180-1040	GD3015	140-3015	GD8662	140-8662
EM4357	10787S	ER411	180-1041	GD3016	140-3016	GD8663	140-8663
EM4367	10795	ER501	180-1037	GD3019	140-3019	GD8670	140-8670
EM4373	10736	ER668	180-1329	GD3020	140-3020	GD8671	140-8671
EM4387S	02178S	ER690	180-1059	GD3021	140-3021	GD9113	140-9113
EM4389	02240	ER700	180-1004	GD3022	140-3022	GD9198	140-9198
EM4391	10799	ER703	180-1322	GD3023	140-3023	GD9204	140-9204
EM4393	10248	ER713L	180-1079	GD3024	140-3024	GD9206	140-9206
EM4395	10234	ER713R	180-1080	GD3025	140-3025	GD9459	140-9459
EM4395	10548	ER9111	180-1328	GD3026	140-3026	GD9460	140-9460
EM4403	10815	ER9114	180-1325	GD3029	140-3029	GD9606	140-9606
EM4411	13348	ER9126	180-1331	GD3031	140-3031	GD9607	140-9607
EM4441	10807	ER9304	180-1330	GD3032	140-3032	GD9607H	140-9607H
EM4457	13087	ERK1036	181-1011	GD3033	140-3033	GD9848	140-9848
EM4465	13209	ERK1868	181-1061	GD3034	140-3034	GD9867	140-9867
EM4467	13198	ERK374	181-1014	GD3046	140-3046	GD9869	140-9869
EM4469	13287	ERK375	181-1012	GD3047	140-3047	GD9873	140-9873
EM631	10037	ERK383	181-1025	GD3049	140-3049	GD9946	140-9946
EPC291	121-1085	ERK407	181-1032	GD3053	140-3053	GD9972	140-9972
EPC746HD	121-1000	ERK409	181-1017	GD3055	140-3055	GD9972H	140-9972H
EPF555HD	121-1003	ERK419	181-1016	GD3067	140-3067	GD9973	140-9973
EPF613HD	121-1007	ERK550	181-1059	GD3070	140-3070	HB100	220-1000
EPR103B	190-1433	ERK5512	181-1037	GD3112	140-3112	HB102	220-1004
EPR274	190-1425	ERK673	181-1064	GD3118	140-3118	HB103	220-1005
EPR281	192-1409	ERK674	181-1063	GD3119	140-3119	HB104	220-1006
EPR305	190-1385	ERM341	184-1038	GD3127	140-3127	HB106	220-1033
EPR306	192-1322	ERM342	183-1017	GD6108	140-6108	HB110	220-1076
EPR314	190-1349	ERM412	187-1014	GD6869	140-6869	HB114	220-1008
EPR317	192-1330	ERM418	184-1032	GD6977	140-6977	HB115	220-1009
EPR324	190-1450	ERM659	184-1040	GD7198	140-7198	HB116	220-1010
EPR335A	192-1442	ERS668C	186-1090	GD7507	140-7507	HB119	220-1013
EPR337	190-1435	ERV1001	160-1000	GD7523	140-7523	HB120	220-1014
EPR339	190-1443	ERV1002X	160-1001	GD7576	140-7576	HB121	220-1015
EPR342	192-1444	ERV1038	160-1009	GD7577	140-7577	HB122	220-1016
EPR343	190-1438	ERV1082	160-1023	GD7689	140-7689	HB123	220-1017
		ERV1086	160-1024	GD7712	140-7712	HB125	220-1019
		ERV1149	160-1041	GD7907	140-7907	HB128	220-1021

Interchange Listing

ENGINE TECH (Cont'd)							
		IM2474	10339SA	L2236	VL116	ST1669E1	SB1669E-1
		IM2488	10281	L2250	VL135	ST16871	SB1687-1
		IM2512	10309	L2254	VL146	ST168716	SB1687-16
HB130	220-1023	IM2514	10337	L2270	VL138	ST16872	SB1687-2
HB131	220-1024	IM2518	10255	L2273	VL124	ST16872N	SB1687-2N
HB132	220-1025	IM2536	10310	L2276	VL149	ST16875	SB1687-5
HB139	220-1059	IM2538	10192	L2278	VL173	ST16875N	SB1687-5N
HB143	220-1072	IM2654	10434	L2281	VL559	ST1722E1	SB1722E-1
HB144	220-1074	IM2694	10172	L2305	VL180	ST17502	SB1750-2
HB153	220-1060	IM2696	10516	L2308	VL562	ST17502N	SB1750-2N
HB154	220-1048	IM2698	10103	L2319	VL175	ST17503	SB1750-3
HB156	220-1113	IM2706	10226	L2700	VL171	ST17504	SB1750-4
HB157	220-1052	IM2708	10228	L4600	VL107	ST17504N	SB1750-4N
HB158	220-1077	IM2710	10224	L5400	VL180	ST175060	SB1750-60
HB159	220-1107	IM2724	10284	L57004	VL555LA	ST17507	SB1750-7
HB166	220-1031	IM2736	10506	L57014	VL557LA	ST1781E1N	SB1781E-1N
HB170	220-1043	IM2738	10552	L57024	VL556LA	ST1784E1N	SB1784E-1N
HB171	220-1102	IM2744	10305	L6000	VL141	ST18121	SB1812-1
HB177	220-1114	IM2748	10473	L6004	VL119	ST18122	SB1812-2
HB180	220-1124	IM2756	10524	L6005	VL519	ST18123	SB1812-3
HB192	220-1116	IM2760	10432	L6400	VL567	ST18124	SB1812-4
HB193	220-1118	IM2764	10206	L6600	VL121	ST18124N	SB1812-4N
HB199	220-1071	IM2802	10219	L7400	VL163	ST181256	SB1812-56
HB200	220-1119	IM2804	10502	L812	VL8	ST18125N	SB1812-5N
HB205	220-1110	IM2826	10157	L817	VL37	ST18129N	SB1812-9N
HB207	220-1109	IM2834	10550	L817X	VL66RH	ST18751	SB1875-1
HB208	220-1030	IM2836	10562	L846	VL5	ST18752	SB1875-2
HB209	220-1086	IM2858	10495	L900	VL35	ST18756	SB1875-6
HB221	220-1117	IM2880	10496	L900X	VL67RH	ST18758	SB1875-8
HB222	220-1121	IM2884	10218	L945	VL32	ST19371	SB1937-1
HB227	220-1075	IM2904	10498	L951	VL49	ST193717	SB1937-17
HB228	220-1105	IM3464	10739	L969	VL73	ST193723	SB1937-23
HB230	220-1103	IM3466	10547	L976	VL64	ST20001	SB2000-1
HB249	220-1108	IM3470	10723	MT2000	VL48	ST200036	SB2000-36
HB277	220-1112	IM3472	10735	MT2084	VL31	ST200051	SB2000-51
I1078	00399+15	IM3492	10537	MT992	VL63	ST20007	SB2000-7
I1418	00637+15	IM3500	10321	RV939	160-1185	ST21252	SB2125-2
I1588	00938+15	IM3502	10421	S2509	122-1052	ST212534	SB2125-34
I1634	01120+15	IM3522	10742	S2544	122-1089	ST212538	SB2125-38
I1652	01107+15	IM4348	10541	S2927	122-1318	ST22501	SB2250-1
I1706	01170+15	IM4350	10808	S2969	122-1053	V1077	00400
I1732	01137+15	IM4352	10784	S2970	322-1024	V1078	00399
I1760	01238+15	IM4354	10792	S300P	122-1043	V1313	13207
I1778	01180+15	IM4356	10786	S337	122-1035	V1314	13206
I1820	01272+15	IM4370	10794	S9223	122-1203	V1316	00548
I1830	01328+15	IM4386	02177	S9224	122-1086	V1349	00746S
I1874	01380+15	IM4388	02241	SB15621PM	SB1562-1PM	V1350	00564
I1922	01393+15	IM4390	10798	SB156236N	SB1562-36N	V1418	00637
I2060	01557+15	IM4392	10247	SB16251PM	SB1625-1PM	V1476	00696
I2114	01536+15	IM4398	13077	SB16521	SB1562-1	V1519	01242
I2124	01505+15	IM4400	10814	SB181221N	SB1812-21N	V1585	01266
I2138	01481+15	IM4410	13347	SB181255	SB1812-55	V1588	00938
I2148	01551+15	IM4438	13201	ST12503	SB1250-3	V1589	01329
I2152	10385+15	IM4440	10806	ST13752	SB1375-2	V1633S	01177S
I2394	10387+15	IM4456	13086	ST14371	SB1437-1	V1649	00919
I5028	10216	IM4464	13208	ST14373	SB1437-3	V1650	00988
I9148	01592+15	IM4466	13197	ST14374	SB1437-4	V1651	01106
IM1002	10816	IM4468	13286	ST143765	SB1437-65	V1651S	01261S
IM1004	13038	IM632	10048	ST15001	SB1500-1	V1652	01107
IM1008	02194	J2270	VL138	ST150050	SB1500-50	V1655S	00996S
IM1862	10061	L2011	VL89	ST150071	SB1500-71	V1656	00997
IM1870	10087	L2012	VL83	ST150077	SB1500-77	V1706	01170
IM2052	10107	L2056	VL109	ST15621N	SB1562-1N	V1721	01307
IM2198	10328A	L2077	VL73	ST15622	SB1562-2	V1732	01137
IM2202	10268	L2083	VL9	ST156236	SB1562-36	V1760	01238
IM2216	10141	L2089	VL88	ST156254	SB1562-54	V1761	01237
IM2396	10147	L2095	VL94	ST156267	SB1562-67	V1765	01169
IM2396	10624	L2102	VL86	ST156269	SB1562-69	V1771N	01135
IM2400	10126A	L2104	VL114	ST156274	SB1562-74	V1778	01180
IM2406	10314	L2105	VL87	ST15629	SB1562-9	V1779S	01294S
IM2408	10143	L2128	VL150	ST16251	SB1625-1	V1816	01285
IM2434	10243	L2148	VL115	ST16251N	SB1625-1N	V1817	01324
IM2436	10236	L2167	VL106	ST16253	SB1625-3	V1818	01263
IM2452	10190	L2168	VL560	ST16253N	SB1625-3N	V1819	01271
IM2458	10176	L2205	VL100	ST162554	SB1625-54	V1819S	01547
IM2464	10322	L2217	VL113	ST162564	SB1625-64	V1820	01272
IM2466	10273						

Interchange Listing

ERTEL (Cont'd)					
	8211+2	140-8211+2	8592	140-8592	9972+3 140-9972+3
	8212	140-8212	8593	140-8593	9972H 140-9972H
	8213	140-8213	8594	140-8594	9973 140-9973
7903	140-7903		8616	140-8616	9977 140-9977
7907	140-7907		8659	140-8659	9977H 140-9977H
7908	140-7908		8662	140-8662	A0701 00270
7946	140-7946		8663	140-8663	A0713 00212
7994	140-7994		8664	140-8664	A0769 00257
7999	140-7999		8665	140-8665	A0781 00121
8004	140-8004		8666	140-8666	A0785 00303
8008	140-8008		8667	140-8666	A0841 00196
8011	140-8011		8668	140-8668	A0843 00210
8016	140-8016		8669	140-8668	A0861 00170
8017	140-8017		8670	140-8670	A0891 00249
8018	140-8018		8671	140-8671	A0911 00375
8021	140-8021		8673	140-8673	A0949 00234
8024	140-8024		8674	140-8674	G337 140-1337
8036	140-8036		9105	140-9105	G338 140-1338
8038	140-8038		9106	140-9106	G342 140-1342
8038+2	140-8038+2		9107	140-9107	G421 140-1421
8039	140-8039		9108	140-9108	G453 140-1453
8039+2	140-8039+2		9108H	140-9108H	G476 140-1476
8040	140-8040		9109	140-9109	G504 140-1504
8112	140-8112		9110	140-9110	G515 140-1515
8112+2	140-8112+2		9111	140-9111	G527 140-1527
8113	140-8113		9113	140-9113	G545N 140-1545N
8114	140-8114		9114	140-9114	G547N 140-1547N
8115	140-8115		9115	140-9115	G600 140-1600
8118	140-8118		9116	140-9116	G614 140-1614
8122	140-8122		9119	140-9119	G619 140-1619
8124	140-8124		9197	140-9197	G620 140-1620
8133	140-8133		9198	140-9198	G636 140-1636
8134	140-8134		9204	140-9204	G673 140-1673
8136	140-8134+10		9205	140-9205	G680 140-1680
8139	140-8139		9206	140-9206	G703 140-1703
8142	140-8142		9208	140-9208	G704 140-1704
8143	140-8143		9259	140-9259	G711 140-1711
8144	140-8144		9260	140-9260	G717 140-1717
8147	140-8147		9298	140-9298	G723 140-1723
8155	140-8155		9458	140-9458	G726 140-1726
8156	140-8156		9458H	140-9458H	G730 140-6730
8157	140-8157		9459	140-9459	G732 140-1732
8158	140-8158		9460	140-9460	G733 140-1733
8161	140-8161		9460H	140-9460H	G747 140-1747
8168	140-8168		9523	140-9523	G804 140-1804
8169	140-8169		9523H	140-9523H	G809 140-1809
8170	140-8170		9546	140-9546	G810 140-1810
8172	140-8172		9554	140-9554	G817 140-1817
8172+2	140-8172+2		9557	140-9557	G823 140-1823
8173	140-8173		9560	140-9560	G829 140-1829
8177	140-8177		9584	140-9584	G832 140-1832
8178	140-8178		9604	140-9604	G836 140-7876
8180	140-8180		9606	140-9606	G839 140-1839
8180+2	140-8180+2		9607	140-9607	G840 140-1840
8186	140-8186		9607H	140-9607H	G851 140-1851
8187	140-8187		9609	140-9609	G852 140-1852
8188	140-8188		9610	140-9610	G853 140-1853
8189	140-8189		9612	140-9612	G854 140-1854
8190	140-8190		9690	140-9690	G865 140-1865
8191	140-8191		9705	140-9705	G872 140-1872
8192	140-8192		9715	140-9715	G873 140-1873
8193	140-8193		9716	140-9716	G874 140-1874
8193+2	140-8193+2		9846	140-9846	G875 140-1875
8194	140-8194		9848	140-9848	G881 140-1881
8194+2	140-8194+2		9850	140-9850	G881+2 140-1881+2
8195	140-8195		9867	140-9867	G888 140-1888
8200	140-8200		9869	140-9869	G897 140-1897
8201	140-8201		9872	140-9872	G898 140-1898
8202	140-8202		9873	140-9873	G906N 140-1906N
8203	140-8203		9907	140-9907	G907 140-1907
8204	140-8204		9908	140-9908	G909 140-1909
8205	140-8205		9909	140-9909	G919 140-1919
8207	140-8207		9946	140-9946	G937 140-1937
8208	140-8208		9964	140-9964	G941 140-1941
8209	140-8209		9964H	140-9964H	G942 140-7994
8210	140-8210		9972	140-9972	G943 140-1943
8211	140-8211				

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ERTEL (Cont'd)							
G944	140-1944	245125054	SB1250-54	245150073	SB1500-73	24516877	SB1687-7
G946	140-1946	245125061	SB1250-61	245150079	SB1500-79	24516878	SB1687-8
G946+3	140-1946+3	2451301	SB1505E-1	24515621	SB1562-1	24516879	SB1687-9
G946+5	140-1946+5	2451302	SB1442E-2	245156212	SB1562-12	2451690E1	SB1690E-1
G947	140-1947	24513121	SB1312-1	24515621N	SB1562-1N	24517220	SB1722E-1
G952	140-1952	245131250	SB1312-50	24515622	SB1562-2	2451722E1	SB1722E-1
G953	140-1953	245131252	SB1312-52	24515622N	SB1562-2N	24517441N	SB1744E-1N
G956	140-1956	245131253	SB1312-53	24515623	SB1562-3	24517500	SB1750-0
G957	140-1957	245131257	SB1312-57	245156236	SB1562-36	24517501	SB1750-1
G962	140-1962	245131259	SB1312-59	24515624	SB1562-4	245175012	SB1750-12
G966	140-1966	245131262	SB1312-62	24515625	SB1562-5	24517501N	SB1750-1N
G967	140-8004	245131264	SB1312-64	245156250	SB1562-50	24517502	SB1750-2
G968	140-1968	2451343E1	SB1343E-1	245156251	SB1562-51	24517502N	SB1750-2N
G969	140-1969	2451348E1N	SB1348E-1N	245156254	SB1562-54	24517503	SB1750-3
G970	140-1970	24513751	SB1375-1	245156257	SB1562-57	24517503N	SB1750-3N
G972	140-1972	24513751N	SB1375-1N	245156266	SB1562-66	24517504	SB1750-4
G973	140-1973	24513752	SB1375-2	245156267	SB1562-67	24517504N	SB1750-4N
G976	140-1976	24513753	SB1375-3	245156269	SB1562-69	24517505	SB1750-5
G977	140-1977	24513753N	SB1375-3N	24515626N	SB1562-6N	245175051	SB1750-51
S0767	00298	24513754	SB1375-4	24515627	SB1562-7	245175052	SB1750-52
S0769	00257	24513755	SB1375-5	245156272	SB1562-72	245175059	SB1750-59
S0782	00122	245137550	SB1375-50	245156274	SB1562-74	24517506	SB1750-6
S0786	00302	245137551	SB1375-51	24515628	SB1562-8	245175060	SB1750-60
S0840	00810	245137552	SB1375-52	24515629N	SB1562-9N	245175061	SB1750-61
S0868	00308	245137554	SB1375-54	24516251	SB1625-1	245175065	SB1750-65
S0914	00376	245137555	SB1375-55	245162511	SB1625-11	245175068	SB1750-68
S0920	00373	245137556	SB1375-56	245162515	SB1625-15	24517507	SB1750-7
VG545	140-1545N	245137558	SB1375-58	24516251N	SB1625-1N	24517508N	SB1750-8N
VG547	140-1547N	245137561	SB1375-61	24516252	SB1625-2	24517509	SB1750-9
VG6730	140-6730	24513758	SB1375-8	24516252N	SB1625-2N	24517750	SB1775E-1
VG745	140-1745	2451415	SB2004E-2	24516253	SB1625-3	24517811N	SB1781E-1N
VG821	140-1821	2451415 20	SB2006E-2+020	24516253N	SB1625-3N	2451803	SB2003E-3N
VG8388	140-8388	2451416 20	SB2131E-1+020	24516254	SB1625-4	24518031	SB1803E-1
VG8578	140-8578	2451425	SB1899E-1	24516254N	SB1625-4N	24518121	SB1812-1
VG8579	140-8579	2451436	SB1691E-2	24516255	SB1625-5	245181211	SB1812-11
VG8586	140-8586	24514371	SB1437-1	245162550	SB1625-50	24518121N	SB1812-1N
VG878	140-1878	245143710	SB1437-10	245162552	SB1625-52	24518122	SB1812-2
		24514371N	SB1437-1N	245162553	SB1625-53	245181221N	SB1812-21N
		24514372	SB1437-2	245162555	SB1625-55	24518123	SB1812-3
		24514372N	SB1437-2N	245162556	SB1625-56	24518124	SB1812-4
		24514373	SB1437-3	245162558	SB1625-58	24518124N	SB1812-4N
		24514373N	SB1437-3N	245162559	SB1625-59	24518125	SB1812-5
		24514374	SB1437-4	245162560	SB1625-60	245181250	SB1812-50
		24514375	SB1437-5	245162562	SB1625-62	245181251	SB1812-51
		245143750	SB1437-50	24516257	SB1625-7	245181252	SB1812-52
		245143751	SB1437-51	245162800	SB1628E-2	245181253	SB1812-53
		245143753	SB1437-53	24516301	SB1630E-1	245181254	SB1812-54
		245143756	SB1437-56	24516301 10	SB1630E-1+010	245181255	SB1812-55
		245143758	SB1437-58	24516301 20	SB1630E-1+020	245181256	SB1812-56
		245143759	SB1437-59	24516301N	SB1630E-1N	245181258	SB1812-58
		245143760	SB1437-60	24516401	SB1640E-1	24518125N	SB1812-5N
		245143761	SB1437-61	2451648	SB1912E-1	24518127	SB1812-7
		245143762	SB1437-62	2451648 10	SB1912E-1+010	24518141	SB1814E-1
		245143763	SB1437-63	24516541N	SB1654E-1N	24518151	SB1815E-1
		245143766	SB1437-66	24516691	SB1669E-1	2451817	SB1817E-1
		245143767	SB1437-67	24516701	SB1670E-1	2451817E3	SB1817E-3
		245143768	SB1437-68	24516711N	SB1671E-1N	2451818 10	SB1693E-1N+010
		245143769	SB1437-69	24516781	SB1678E-1	2451818 20	SB1693E-1N+020
		245143778	SB1437-8	24516870	SB1687-0	24518530	SB1853E-1
		24515000	SB1500-0	24516871	SB1687-1	2451857E1	SB1857E-1
		24515001	SB1500-1	245168715	SB1687-15	24518750	SB1875-0
		24515001N	SB1500-1N	245168716	SB1687-16	24518751	SB1875-1
		24515002	SB1500-2	24516871N	SB1687-1N	24518751N	SB1875-1N
		24515003	SB1500-3	24516872	SB1687-2	24518752	SB1875-2
		24515005	SB1500-5	24516872N	SB1687-2N	245187550	SB1875-50
		245150050	SB1500-50	24516873	SB1687-3	245187551	SB1875-51
		245150053	SB1500-53	24516873N	SB1687-3N	245187554	SB1875-54
		245150054	SB1500-54	24516874	SB1687-4	245187556	SB1875-56
		245150056	SB1500-56	24516874N	SB1687-4N	24518756	SB1875-6
		245150057	SB1500-57	245168751	SB1687-51	24518757	SB1875-7
		245150058	SB1500-58	245168754	SB1687-54	24518759	SB1875-9
		24515006	SB1500-6	245168755	SB1687-55	2451880E2	SB1880E-2
		245150062	SB1500-62	245168756	SB1687-56	2451932	SB1691E-1
		245150063	SB1500-63	245168758	SB1687-58	24519371	SB1937-1
		245150070	SB1500-70	24516875N	SB1687-5N	245193712	SB1937-12
		245150071	SB1500-71	24516876	SB1687-6	245193717	SB1937-17
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2.451628E+26	SB1628E-2+020						
2.452088E+121	SB2088E-1+015						
2326X	10271						
245106250	SB1062-50						
2451073	SB2003E-1						
2451073 10	SB2006E-1+010						
2451073 20	SB2006E-1+020						
2451073 30	SB2006E-1+030						
245107310	SB2006E-1+010						
245107320	SB2006E-1+020						
24510733	SB2006E-1						
2451103	SB1161E-1						
2451103 10	SB1161E-1+010						
2451103 20	SB1161E-1+020						
2451103 30	SB1161E-1+030						
2451103 40	SB1161E-1+040						
24511251	SB1125-1						
245112551	SB1125-51						
245112553	SB1125-53						
24511871	SB1187-1						
245118751	SB1187-51						
245118752	SB1187-52						
245118753	SB1187-53						
2451194	SB2004E-2						
2451198	SB2444E-1						
2451198 30	SB2444E-1+030						
2451224	SB1441E-1						
24512501	SB1250-1						
24512503	SB1250-3						
245125050	SB1250-50						
245125052	SB1250-52						
245125053	SB1250-53						

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24519374	SB1937-4	2602550	220-1121	FP154390	SB1691E-2	FP23523930	122-1242
24519375	SB1937-5	2602552	220-1095	FP154391	SB1691E-2+010	FP23524521	01566
245193751	SB1937-51	2602553	220-1118	FP156641	122-1362	FP23529596	13001
245193752	SB1937-52	2602554	220-1077	FP1632478	122-1373	FP23529629	13000
24519730	SB1973E-1	2602556	220-1110	FP1669142	140-3130	FP23535122	160-1486
245200006	SB2000-6	2602557	220-1081	FP169630	240-1008	FP2418382	13192S
24520001	SB2000-1	2602558	220-1060	FP1700591	SB1973E-1	FP245107310	SB2006E-1+010
24520002	SB2000-2	2602559	220-1072	FP1701325	01648	FP245107320	SB2006E-1+020
24520003	SB2000-3	2602561	220-1103	FP1737188	140-7216	FP2527801	02168S
24520003N	SB2000-3N	3802355	01665	FP1804330	01543	FP2543941	140-3123+5
24520011	SB2001E-1	612865	140-8356	FP1804420	122-1330	FP2543942	140-3123+20
2452004E4N	SB2004E-4N	71042	122-1349	FP1805249	SB1669E-1	FP2543946	SB1577E-1+020
2452006E2	SB2006E-2	9968PT	230-2116	FP1805250	SB1937-1	FP2558676	13421
2452018E1	SB2020E-1	AT2000	VL48	FP1805250	SB1937-23	FP2622957	13420
24520621	SB2062-1	AT2041	170-1012	FP1805407	140-7689	FP2668718	SB2388E-2N
24520622	SB2062-2	AT2070	VL81	FP1810944C1	121-1011	FP2682953	140-3058
24520880	SB2088E-1	AT2073	170-1013	FP1811191	01542	FP2803979	SB1891E-2
24521250	SB2125-0	AT2084	VL31	FP1818580	01899	FP2816157	160-1461
24521251	SB2125-1	AT2086	VL554	FP1818778	240-1025	FP2A4429	121-1000
245212510	SB2125-10	AT2086	VL565	FP1821901	SB1823E-1	FP2N8943	SB2150E-1
24521252	SB2125-2	AT2212	170-1011	FP1823452	01786	FP2N9299	140-7073
24521253	SB2125-3	AT6003	VL119	FP1823453	01785	FP2P1262	140-7194
24521290	SB2129E-1	AT892	VL21	FP1823875	01945	FP2S0893	140-6470
2452129E2	SB2129E-2	AT914	VL48	FP1823925	122-1320	FP2S4213	160-1178
2452131E1	SB2131E-1	AT992	VL63	FP1824642	01943	FP2S5267	160-1179
24521871	SB2187-1	F904	181-1008	FP1824644	121-1091	FP2S8143	01351S
24522201	SB2220E-1	FB5S7218	SB2131E-1	FP1824683	122-1426	FP2W2620	01760S
24522501	SB2250-1	FP1007860	01760S	FP1824683C1	122-1426	FP2W2621	01314S
24522502	SB2250-2	FP1008150	140-8592	FP1838034	160-1458	FP2W2622	01462S
24525621	SB2562-1	FP1018314	01632S	FP1845495	140-3036	FP2W2877	01491S
2454448	SB2049E-1	FP1026229	122-1373	FP1854006	13182	FP2W3211	01476S
2454448 10	SB2049E-1+010	FP1032454	160-1606	FP1854007	13183	FP2W4837	SB2004E-3N
245570	SB1847E-1	FP1070265	SB2004E-3N	FP1916760	SB2368E-2N	FP3003565	SB1687E-6C
2455893	SB1812E-3	FP1070268	SB2049E-1	FP1916766	140-3139	FP3006456	140-7994
2455893 10	SB1817E-3+010	FP111446	160-1306	FP1944897	02168S	FP3007759	240-1009R
2455893 20	SB1817E-3+020	FP1152367	01468S	FP1944901	160-1461	FP3013330	187-1061
245637	SB2503E-1	FP1152368	01462S	FP1944902	160-1460	FP3013331	187-1062
245637 20	SB2506E-1+020	FP118939	187-1051	FP195000	SB1691E-1	FP3017759	SB2003E-1
2457000	SB1262E-1	FP1193061	240-1002	FP195001	SB1691E-1+010	FP3026296	SB2381E-1
2457000 10	SB1262E-1+010	FP1196772	01497S	FP1977055	121-1095	FP3028070	SB1812E-4
2457000 20	SB1262E-1+020	FP1219839	01805S	FP1N4885	01146S	FP3028071	SB1812E-4+010
2457000 30	SB1262E-1+030	FP1227353	01857S	FP1S3062	240-1001	FP3028072	SB1812E-4+020
2457000 40	SB1262E-1+040	FP1228612	140-3007+5	FP1S6654	140-6469	FP3028073	SB1812E-4+030
2457002	SB1442E-1	FP123558	187-1052	FP1W1818	01459S	FP3032285	SB2006E-1
2457002 10	SB1442E-1+010	FP12GC129P1	240-1021	FP1W1819	01458S	FP3032287	SB2006E-1+010
2457002 20	SB1442E-1+020	FP1302607	SB2387E-2	FP1W2715	121-1079	FP3032288	SB2006E-1+020
2457002 30	SB1442E-1+030	FP1339306	140-8679	FP1W3860	01468S	FP3032289	SB2006E-1+030
245794	SB2503E-2	FP135957	00603	FP1W4259	160-1198	FP3032291	SB2006E-1+005
245794 20	SB2506E-2+020	FP1376718	160-1454	FP1W5283	SB1687E-1N	FP3033232	160-1304
2458943	SB2150E-1	FP138887	00702	FP1W5300	161-1018	FP3033233	160-1303
245977	SB2435E-1	FP138937	140-1941	FP1W5321	SB2006E-2	FP3033234	01532
245977 20	SB2435E-1+020	FP13GC2234P1	SB2444E-1	FP1W8606	01461S	FP3035110	01533S
245978	SB2590E-1	FP13GC2234P15	SB2444E-1+015	FP2033237	140-3058+5	FP3035996	160-1305
245978 20	SB2590E-1+020	FP13GC2234P30	SB2444E-1+030	FP2033238	140-3058+20	FP3036933	187-1066
245997	SB1880E-2	FP13GC2247P1	SB2088E-1	FP205091	121-1069	FP3036934	187-1067
2602501	220-1009	FP13GC2247P30	SB2088E-1+030	FP205208	160-1176	FP3040830	00602
2602509	220-1016	FP13GC2251P15	SB1831E-1	FP2061541	140-3140	FP3050369	140-7994
2602511	220-1002	FP13GC2251P31	SB1831E-1+015	FP20706118	SB1692E-1N	FP3062096	187-1068
2602515	220-1005	FP13GC2251P5	SB1831E-1+005	FP207241	01534	FP3068519	01660
2602516	220-1021	FP13GC2264P15	SB1692E-1N+015	FP2102542	01498S	FP3069672	01661S
2602517	220-1023	FP13GC2264P31	SB1692E-1N+030	FP2102542	01804	FP3070460	160-1302
2602537	220-1085	FP13GC2264P5	SB1692E-1N+005	FP211999	160-1177	FP3070486	240-1009
2602538	220-1096	FP1406188	160-1453	FP212940	SB2003E-3N	FP3071147	240-1010
2602539	220-1088	FP144911	00326S	FP216707	00703	FP3073509	122-1241
2602540	220-1076	FP145701	00602S	FP2243028	13151	FP3076515	SB1953E-2C
2602541	220-1025	FP146731	160-1424	FP2243030	13280	FP3078399	01659S
2602543	220-1093	FP146732	160-1423	FP2244441	160-1462	FP3081212	160-1305
2602544	220-1113	FP1478211	02160S	FP2265561	SB1687E-6C	FP3084020	SB1953E-3
2602545	220-1074	FP1478212	122-1364	FP2274239	240-1006	FP3084045	01756
2602546	220-1098	FP1487425	140-7194	FP23500480	122-1221	FP3088389	01734
2602547	220-1091	FP1487455	01761S	FP23500501	01500	FP3088391	01533S
2602548	220-1083	FP1527585	01912	FP23501580	240-1017	FP3088393	01534
2602549	220-1052	FP1528380	01911	FP23502067	01455	FP3142L051	01887
		FP1537023	01911	FP23505104	140-8133	FP31431315	01783
		FP1537024	01912	FP23507238	121-1003	FP3163410	01847S
				FP23507238	122-1242	FP3165976	160-1677

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FP3165977	160-1676	FP4N3668HT	140-8486	FP688GC2389	01750
FP317365	160-1206	FP4N5906	160-1184	FP688GC337	01446
FP3177213	SB1577E-1+010	FP4N6761	161-1029	FP688GC337A	01037
FP3226064	01656S	FP4S8902	SB1693E-1N	FP688GC337A	01446
FP3226068	01721S	FP4W2471	160-1213	FP690GC2187	01036S
FP3275354	121-1027	FP4W2472	160-1207	FP690GC2187A	01036S
FP3275356	01420S	FP4W2474	161-1030	FP690GC2187B	01036S
FP3275779	01420S	FP4W3778	140-7681	FP690GC2193	01415S
FP3322152	160-1463	FP4W3779	140-7682	FP690GC2210	01571S
FP3328781	122-1241	FP5101101	SB1262E-1	FP690GC32	13307S
FP3394116	SB2003E-6N	FP5101315	SB1442E-1+010	FP69965	SB1847E-1
FP339411610	SB2003E-6N+010	FP5104280	01429S	FP6H3026	00318
FP3417713	01658S	FP5104701	240-1013R	FP6I0282	01887
FP3417717	240-1011	FP5106136	01366	FP6I1196	01887
FP3418040	SB1812E-4	FP5108918	187-1069	FP6I2307	160-1452
FP3418044	SB1812E-4+010	FP5111337	121-1011	FP6I2663	161-1041
FP3418045	SB1812E-4+020	FP511332	240-1015	FP6I2864	140-8357
FP3418046	SB1812E-4+030	FP5116137	00758	FP6N2236	140-7255
FP3629006	160-1176	FP5116362	SB1161E-1+020	FP6N7174	122-1328
FP3633840	160-1641	FP5116363	SB1161E-1+030	FP6N7175	161-1038
FP3679551	160-1479	FP5120930	140-1680	FP6N8847	140-7357
FP3686661	13309S	FP5129919	140-1946	FP6N9915	01760S
FP3801356	01532	FP5131961	140-6254	FP722GC219A	161-1023
FP3801357	01531	FP5139982	SB1899E-1	FP722GC226A	161-1023
FP3802085	01666	FP5144019	160-1185	FP7C4273	160-1451
FP3802275	01667	FP5145172	00759	FP7E1551	140-8594
FP3802356	01664	FP5147347	160-1186	FP7E4609	01145S
FP3803348	01531	FP5147424	160-1187	FP7E4609	01498S
FP3818520	01531	FP5148490	SB1442E-1	FP7E7830	01145S
FP3883287	01658S	FP5148493	SB1442E-1+020	FP7M7358	00755
FP3895860	160-1414	FP5148494	SB1442E-1+030	FP7M7817	00752S
FP3900250	121-1079	FP5149386	01429S	FP7N0573	01761S
FP3901097	122-1053	FP5149724	240-1018	FP7N1649	SB2004E-4N
FP3901177	121-1073	FP5149771	01366	FP7N2051	140-7338
FP3902254	01666	FP5150289	160-1188	FP7N4448	SB2049E-1
FP3904105	SB1722E-1	FP5185327	00327	FP7N7639	161-1035
FP3904716	SB1857E-1	FP5193197	00327	FP7S3161	170-1011
FP3906854	SB1853E-1	FP5193666	00411	FP7S6323	160-1191
FP3908830	SB2129E-2	FP5195167	01500	FP7S7144	160-1192
FP3915506	01667	FP5196752	SB1161E-1+010	FP7W4602	01784
FP3916588	160-1669	FP5197167	SB1262E-1+010	FP8920390	240-1018R
FP3916691	160-1650	FP5197168	SB1262E-1+020	FP8921209	122-1189
FP3920867	01665	FP5197170	SB1262E-1+030	FP8921209	122-1223
FP3920868	01666	FP5197176	01018	FP8921501	SB1161E-1
FP3921444	01666	FP5198230	SB1628E-2+010	FP8921502	SB1161E-1
FP3921640	122-1269	FP5198232	SB1628E-2+020	FP8921741	122-1224
FP3922713	02257	FP5198233	SB1628E-2+030	FP8922516	01500
FP3922714	01862	FP5199323	00759	FP8923813	187-1079
FP3924492	01667	FP5278913	01756	FP8923814	187-1080
FP3924582	SB2129E-2	FP54GC19	121-1045	FP8924439	187-1081
FP3932453	160-1527	FP54GC25	121-1094	FP8925981	240-1013
FP3940123	121-1097	FP575GC1100	160-1171	FP8927794	160-1186
FP3947759	VL565	FP575GC213	160-1189	FP8927857	160-1194
FP3968074	SB1554E-2	FP575GC36	160-1624	FP8927920	SB1628E-2
FP3968183	13161	FP5H7071	240-1000	FP8927953	121-1003
FP3969637	13163	FP5S1757	SB2590E-1	FP8929072	122-1242
FP3970727	13162	FP5S6449	01203	FP8929105	161-1039
FP3B1143	121-1030	FP5S6452	01204	FP8929127	SB1819E-1
FP3S0461	161-1028	FP6127111341	140-8160	FP8929415	160-1418
FP3S3018	160-1181	FP66890	140-1969	FP8929573	121-1080
FP4062872	160-1406	FP6710414210	00602	FP8929590	01566
FP41339	121-1007	FP671559	SB2001E-1	FP8H1993	00852S
FP428046	140-7336	FP671561	SB2001E-1+013	FP8H1994	00574S
FP4312008	122-1448	FP671563	SB1628E-1N	FP8M4014	SB2435E-1
FP446GC279	122-1322	FP671565	SB1628E-1N+013	FP8M9810	SB2506E-1
FP446GC296	122-1274	FP675046	01423	FP8N0875	01203
FP446GC328	122-1274	FP675439	140-7431	FP8N0875	01205S
FP489101	01649	FP675450	SB1628E-1N	FP8N3723	00751S
FP4957806	160-1406	FP676865	01422S	FP8N7782	161-1018
FP4F0212	00319	FP677349	160-1416	FP90210012	160-1406
FP4N2803	140-7216	FP681234	122-1177	FP90210014	SB2003E-6N
FP4N3664	140-7083	FP681234C1	122-1177	FP90210014+10	SB2003E-6N+010
FP4N3668	140-7242	FP682064	160-1190	FP911776	170-1012
		FP688GC2352	01037	FP911776R3	170-1012
		FP688GC2352A	01037	FP9H9164	160-1179
		FP688GC2378	01570	FP9L7682	01379
				FP9L7683	01378
				FP9M3205	SB1812E-1
				FP9M3205	SB1818E-1
				FP9M4163	00753S
				FP9M4163	00754
				FP9M5349	160-1196
				FP9M5350	160-1197
				FP9M6495	SB1880E-2
				FP9M8745	SB2506E-2
				FP9N2837	SB1912E-1
				FP9N5125	01497S
				FP9N5495	160-1218
				FP9N5496	160-1217
				FP9N5786	170-1013
				FP9Y1847	140-3143
				FPA11801	00678
				FPA11802	02084
				FPA182172	01826
				FPA27872	121-1049
				FPA38422	00691
				FPA38423	00690
				FPA66336	161-1003
				FPA66444	160-1226
				FPB367R	121-1000
				FPMV1902	122-1007
				FPR26125	160-1205
				FPR28654	140-1898
				FPR28654R	140-1898
				FPR35431	121-1009
				FPR42182	01407
				FPR43679	01375
				FPR43680	SB1937-1
				FPR43681	SB1750-1N
				FPR43883	01336S
				FPR43914	01404
				FPR44174	01289
				FPR44175	01288
				FPR45823	01406
				FPR48313	SB2136E-1N
				FPR48314	SB1991E-1N
				FPR49569	160-1448
				FPR49571	160-1449
				FPR501640	122-1443
				FPR50356	SB1750-2N
				FPR50357	01377
				FPR50358	01403
				FPR503906	160-1667
				FPR504235	160-1585
				FPR51734	SB1638E-1N
				FPR52251	01234
				FPR527286	140-3131
				FPR53192	140-8004
				FPR59894	SB2136E-1N
				FPR60537	SB1991E-1N
				FPR63982	01412
				FPR73064	SB1858E-1N
				FPR75690	01590S
				FPR78702	SB1750-2
				FPR79623	01234
				FPR79624	01233
				FPR82508	SB1750-2+010
				FPR83071	01471S
				FPR84618	01587
				FPR84619	01586
				FPR84976	SB1933E-2
				FPR84977	SB2051E-4
				FPR87627	122-1023
				FPR90601	01408
				FPR90602	01409
				FPR90692	01588
				FPR91822	160-1447
				FPR91889	121-1078
				FPR98062	01589
				FPR98063	SB1856E-1
				FPRE11410	161-1040
				FPRE529187	122-1421

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FPRE60005	161-1042	FPVK142	121-1010	MR1840	183-1028	R861	180-1077
FPT20077	121-1000	FPVS1462	160-1220	MR1847	184-1035	R862	180-1078
FPV1012	00230	FPVS1577	160-1635	MR1883	184-1025	R865A	180-1239
FPV1017	00234	HT2011	VL89	MR1905	184-1021	R865R	181-1049
FPV1025	00268	HT2012	VL83	MR1906	184-1023	R868R	181-1034
FPV1050	00159	HT2056	VL109	MR1908	184-1022	R869	180-1040
FPV1051	00160	HT2077	VL73	MR1910	184-1020	R870	180-1041
FPV1053	00269	HT2083	VL9	MR1910RS	184-1020	R873	180-1037
FPV1095	00270	HT2089	VL88	MR1934	184-1038	R875	181-1032
FPV1102	00343	HT2095	VL94	MR1947	184-1033	R879	181-1035
FPV1178	00348	HT2102	VL86	MR1951	184-1034	R879A	180-1234
FPV1218X	00427S	HT2104	VL114	MR8923814	187-1080	R881	181-1016
FPV1219	00428	HT2105	VL87	MR8924439	187-1081	R882	181-1059
FPV1326X	00598S	HT2127	VL107	MV-1919	122-1079	R883	180-1291
FPV1421	00489	HT2148	VL115	MV1233	122-1043	R884	180-1290
FPV1422	00486	HT2148	VL559	MV1551	122-1175	R886	181-1057
FPV1471	00793	HT2167	VL106	MV1559	122-1041	R886R	181-1048
FPV1472	00912	HT2198	VL121	MV1598	122-1037	R890	180-1326
FPV1543	00601	HT2205	VL100	MV1599	122-1035	R894	181-1017
FPV1573	00592	HT2217	VL113	MV1760	122-1003	R896	181-1018
FPV1574	00593	HT2220	VL106	MV1766	122-1005	R905	181-1028
FPV1577	00503	HT2225	VL106	MV1769	122-1075	R905	181-1037
FPV1578	00504	HT2236	VL116	MV1772	122-1035	R905A	180-1236
FPV1634	00658	HT2244	VL150	MV1773	122-1033	R907	180-1007
FPV1635	00659	HT2254	VL146	MV1798	122-1059	R909	180-1028
FPV1696	00485	HT2269	VL106	MV1817	122-1038	R912	180-1004
FPV1701	00883	HT2270	VL138	MV1828	122-1039	R922	180-1264
FPV1769	00918	HT2271	VL107	MV1828	122-1206	R923A	180-1228
FPV1836	00989	HT2272	VL120	MV1880	122-1047	R948	180-1029
FPV1840	01041	HT2273	VL124	MV1888	122-1048	R949	181-1060
FPV1948	00983	HT2274	VL135	MV1901S	122-1216	R950	180-1292
FPV1948X	00982S	HT2276	VL149	MV1902	122-1007	R973	181-1061
FPV2086	00608	HT2278	VL173	MV1909	122-1031	R973A	180-1283
FPV2087	00609	HT2279	VL163	MV1910	122-1006	RC119	161-1003
FPV2100	00921	HT2280	VL176	MV1911S	122-1217	RC128S	161-1006
FPV2101	00922	HT2281	VL115	MV1912	122-1287	RC13S	161-1023
FPV2149	00873	HT2296	VL123	MV1915	122-1177	RC147	161-1040
FPV2150	00874	HT2297	VL171	MV1921	122-1037	RC150	161-1033
FPV2164	00923	HT2302	VL156	R1001	180-1079	RC157S	161-1012
FPV2165	00924	HT2303	VL558	R1002	180-1080	RC163S	161-1013
FPV2219	01055	HT2304	VL178	R1007	180-1315	RC630	161-1023
FPV2220	00867	HT2305	VL180	R1008	180-1012	RC642	161-1018
FPV2422X	01650S	HT2307	VL175	R1008	181-1018	RC78S	161-1020
FPV2494	01695S	HT2308	VL562	R1018	180-1240	RP-3339	190-1507
FPV3924	01042	HT2310K	VL555LA	R1019	180-1265	RP-3342	190-1500
FPV3928X	01075S	HT2311K	VL556LA	R1020	180-1266	RP3017	190-1221
FPV4075	00682	HT2312K	VL557LA	R1021	180-1267	RP3021	190-1222
FPV4097	00683	HT2313	VL561	R1046	181-1034	RP3022	190-1543
FPV4238	00154	HT6000	VL141	R1052	181-1041	RP3028	192-1229
FPV796	00155	HT6005	VL519	R1053	181-1008	RP3036	190-1349
FPV816	00249	HT6007	VL141	R1090	181-1063	RP3076	190-1280
FPV839	00161	HT812	VL8	R1092	180-1008	RP3093	192-1331
FPV840	00162	HT817	VL37	R1093	180-1007	RP3102	190-1269
FPV841	00205	HT817HP	VL117RH	R1094	180-1288	RP3103	192-1336
FPV842	00193	HT817R	VL66RH	R1095	180-1313	RP3104	192-1337
FPV843	00203	HT846	VL5	R1096	180-1284	RP3105	192-1378
FPV844	00204	HT855	VL32	R1119	181-1060	RP3106	192-1377
FPV868	00168	HT900	VL35	R1120	181-1064	RP3107	190-1342
FPV869	00169	HT900R	VL67RH	R1122	180-1207	RP3133	190-1370
FPV954	00196	HT951	VL49	R1139	180-1322	RP3160	190-1425
FPV959	00210	HT969	VL73	R1142	180-1321	RP3164	190-1433
FPV999	00220	HT969R	VL117RH	R814	180-1059	RP3164+035	190-1433+35
FPVG226	140-1421	HT976	VL64	R826	181-1011	RP3164+060	190-1433+60
FPVG296	140-1458	MR1751	184-1038	R828	180-1056	RP3165	192-1321
FPVG362	140-1547N	MR1780	183-1024	R829	180-1055	RP3166	192-1439
FPVG5040	140-7669	MR1783	183-1017	R832	181-1012	RP3167	192-1409
FPVG5079T	140-7552	MR1809	183-1030	R836	181-1023	RP3170	192-1462
FPVG5084T	140-6905	MR1810	183-1021	R847	181-1041	RP3171	190-1429
FPVG594	140-1881	MR1811	183-1022	R848	181-1044	RP3172	190-1351
FPVG659	01943	MR1813	184-1040	R849	181-1020	RP3172A	190-1351+60
FPVG840	140-1543	MR1816	183-1027	R850	181-1025	RP3172B	190-1351U60
FPVG842	140-1872	MR1822	183-1032	R851	181-1014	RP3172C	190-1426
FPVG862	140-6990	MR1823	184-1039	R853	181-1021	RP3173	190-1349
		MR1829	187-1014	R854	181-1040	RP3174	190-1411
		MR1837	184-1032	R855	180-1233	RP3176	190-1327
		MR1839	183-1014	R856	181-1057	RP3176B	190-1327U54

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RP3178	190-1385	RP3351	190-1541	ST2152	122-1338	V1616	00734
RP3179	190-1421	RS621	186-1090	V1003X	01206S	V1622X	00602S
RP3180	192-1330	RS626	186-1100	V1004	00257	V1623	00603
RP3181	192-1503	RS628	186-1035	V1005	00298	V1624X	00702
RP3182	192-1504	RS725	186-1121	V1012	00230	V1625	00703
RP3183	192-1322	SB131256	SB1312-56	V1013	00312	V1634	00658
RP3184	190-1395	SB137518	SB1375-18	V1014	00313	V1635	00659
RP3185	190-1396	SB143765	SB1437-65	V1017	00234	V1645	00754
RP3186	190-1417	SB150075	SB1500-75	V1050	00159	V1646X	00753S
RP3188	192-1335	SB156217	SB1562-17	V1051	00160	V1647	00755
RP3191	190-1408	SB175069	SB1750-59	V1052	00268	V1648X	00751S
RP3193	190-1403	SB200015	SB2000-15	V1053	00269	V1649X	00752S
RP3194	190-1450	SS70829	122-1336	V1060	00302	V1671X	00746S
RP3195	192-1381	SS71035	122-1350	V1076	00308	V1681	00303
RP3197	190-1384	SS72867	122-1230	V1086	00349	V1696	00485
RP3198	190-1422	ST1181	122-1181	V1095	00270	V1700	00882A
RP3200	190-1440	ST2001	122-1014	V1102	00343	V1701	00883
RP3202	190-1328	ST2002	122-1031	V1115	00373	V1710	00742
RP3204	190-1433	ST2003	122-1238	V1121	00319	V1717	01268
RP3205	190-1438	ST2004	122-1015	V1122	00318	V1719	00963
RP3206	192-1446	ST2005	122-1009	V1127	00375	V1722	00938
RP3207	192-1444	ST2011	122-1017	V1128	00376	V1722+15	00938+15
RP3208	190-1449	ST2012	122-1268	V1173	00310	V1743	00958
RP3209	190-1443	ST2014	122-1011	V1174	00311	V1744	00976
RP3211	192-1453	ST2015	122-1079	V1178	00348	V1745	00975
RP3232	190-1489	ST2016	122-1189	V1199	00400	V1753X	00996S
RP3233	190-1435	ST2030	122-1192	V1200	00399	V1754	00997
RP3234	190-1522	ST2033	122-1082	V1218X	00427S	V1755	00919
RP3235	190-1454	ST2034	122-1119	V1219	00428	V1756	00988
RP3236	190-1455	ST2037	122-1130	V1262	00411	V1764X	01177S
RP3237	190-1531	ST2039	122-1089	V1285	00494	V1767	00949
RP3238	190-1500	ST2043	122-1053	V1296X	00326S	V1768X	00917SN
RP3241	190-1473	ST2044	122-1052	V130	00100	V1769	00918
RP3244	190-1489	ST2054	122-1136	V1326X	00598S	V1770	00970
RP3245	190-1469	ST2056	122-1114	V1328X	00574S	V1772	00974
RP3252	190-1425+60	ST2065	122-1203	V1329X	00852S	V1773	00969
RP3253	190-1478	ST2066	122-1136	V1339	00520	V1775	01457
RP3254	192-1338	ST2069	122-1159	V1343	00518	V1776	01002
RP3255	192-1339	ST2073	122-1069	V1344	00514	V1783	00947
RP3256	190-1467	ST2074	122-1127	V1351	00185	V1784	01000
RP3259	190-1502	ST2075	122-1132	V1358X	00530SN	V1784+15	01000+15
RP3260	192-1322U40	ST2076	122-1086	V1359X	00531S	V1785	01001
RP3262	192-1485	ST2079	122-1147	V1372	01500	V1785+15	01001+15
RP3263	192-1480	ST2081	122-1150	V1383	00549	V1791X	01036S
RP3270	190-1513	ST2082	122-1149	V1384	00550	V1792	01037
RP3273	192-1481	ST2084	122-1152	V1386	00548	V1797	01188
RP3274	192-1482	ST2089	122-1232	V1421	00489	V1798	01082
RP3275	192-1442	ST2090	122-1052	V1422	00486	V1799	01189
RP3276	190-1529	ST2092	122-1047	V1427	01242	V1800	01105
RP3277	190-1507	ST2092	122-1196	V1428	00585	V1801	01083
RP3279	190-1509	ST2098	122-1215	V1434	00567	V1802	01084
RP3282	192-1484	ST2103	122-1066	V1434+15	00567+15	V1813	01072
RP3283	190-1532	ST2105	122-1073	V1439	00564	V1826	01098
RP3284	190-1511	ST2109	122-1067	V1471	00793	V1830	01047
RP3285	192-1491	ST2114	122-1162	V1472	00912	V1831	01048
RP3286	192-1506	ST2115	122-1163	V1499	02084	V1832	01093
RP3287	192-1505	ST2117	122-1198	V1500	00678	V1833X	01057S
RP3317	190-1530	ST2119	122-1142	V1517	00690	V1834X	01133S
RP3328	192-1513	ST2120	122-1155	V1518	00691	V1836	00989
RP3330	190-1534	ST2122	122-1204	V1528X	00559S	V1837	01073
RP3331	190-1535	ST2122	122-1205	V1529	00560	V1840	01041
RP3332	190-0471	ST2124	122-1202	V1537	00627	V1841	01042
RP3333	190-1525	ST2125	122-1260	V1539	00637	V1849	01102
RP3337	190-1524	ST2127	122-1258	V1539+15	00637+15	V1850	01103
RP3338	192-1508	ST2128	122-1314	V1542	00600	V1853	01242
RP3339	192-1507	ST2130	122-1236	V1543	00601	V1853+15	01242+15
RP3340	190-1533	ST2131	122-1229	V1552	00758	V1854	01147
RP3341	190-1539	ST2131	122-1299	V1553	00759	V1854	01693S
RP3345	190-1538	ST2135	122-1226	V1570	00327	V1855	01148
RP3347	192-1512	ST2139	122-1227	V1573	00592	V1861	01131
RP3348	192-1485	ST2140	122-1449	V1574	00593	V1863	01307
RP3349	190-1537	ST2143	122-1223	V1577	00503	V1874	01087
RP3350	192-1511	ST2145	122-1333	V1578	00504	V1879	01171
		ST2148	122-1180	V1605	00555	V1880	01172
		ST2152	122-1337	V1612	00696	V1881	01203
				V1615X	00819S	V1882	01204

Interchange Listing

FEDERAL MOGUL/ SEALED POWER (Cont'd)							
V1883X	01205S	V2024	01326	V2132	01590S	V2280	01455
V1884X	01145S	V2024K	01326	V2133	01381	V2281	01456
V1885X	01146S	V2026	01322	V2134	01382	V2282X	01483S
V1888X	01206S	V2027	01323	V2135X	01383SN	V2284	01508
V1888X	01807S	V2028	01324	V2136X	01384S	V2287	01484
V1891	01135	V2029	01329	V2137X	01385SN	V2288X	01482S
V1893	01237	V2029K	01329	V2138X	01386S	V2290	01480
V1893+15	01237+15	V2029K+15	01329+15	V2141	01399	V2291	01481
V1894	01238	V2030	01169	V2142	01380	V2294	01479
V1897	01152	V2030+15	01169+15	V2143	01393	V2295	01478
V1900	01156	V2031	01321	V2144	01366	V2299	01527
V1900+15	01156+15	V2032	01320	V2147	01446	V2300	01528
V1902	01160	V2037	01310	V2148X	01415S	V2301X	01471S
V1903	01161	V2038	01311	V2149	00873	V2302	01542
V1904	01192	V2039	01332	V2150	00874	V2303	01543
V1904+15	01192+15	V2039+15	01332+15	V2154	01419	V2305X	10215S
V1904.3	01192+3	V2040	01358	V2155	01417	V2308	10127
V1905	01164	V2041	00963	V2156X	01420S	V2309	10129
V1907	01186	V2041	01120	V2161X	01429S	V2310	10142
V1908	01180	V2044	01327	V2164	00923	V2312	10145
V1909	01188	V2045	01328	V2165	00924	V2313	10146S
V1911	01106	V2045+15	01328+15	V2166	10056	V2316	10255
V1912	01107	V2046X	01350S	V2167X	10037	V2320	10277
V1918	01215	V2047X	01351S	V2168	10048	V2322	10281
V1920	01216	V2052R	01772R	V2169	01397	V2325	10256
V1926	01195	V2056R	01775R	V2170	01598	V2326	10271
V1926+15	01195+15	V2061	01354	V2172	01394	V2328X	10278S
V1926+3	01195+3	V2066	01348	V2173	01395	V2330	10282
V1927	01193	V2072X	01368S	V2180	10086	V2331	10141
V1927+15	01193+15	V2073	01357	V2181	10087	V2332X	10138
V1928	01194	V2074	01358	V2182	10064	V2334X	10102S
V1932	01137	V2075	01170	V2186X	10060S	V2334X	10302
V1932+15	01137+15	V2075+15	01170+15	V2187	10061	V2335	10103
V1937X	01177S	V2076	01361	V2190	01520	V2336	10104
V1940	01199	V2077	01362	V2192	01519	V2337	10105
V1941	01200	V2083X	01346S	V2193	01520	V2344	10236
V1942	01212	V2086	00608	V2194	01448	V2345	10237
V1943	01210	V2087	00609	V2195	01449	V2352	10307
V1947X	00982S	V2088X	01422S	V2196	01450	V2355	10308
V1948	00983	V2089	01423	V2201	01451	V2360	01648
V1952X	01075S	V2090X	01431S	V2202	01452	V2361	01649
V1953X	01017S	V2091	01432	V2203	01814	V2364	01504
V1954X	01217S	V2092	01378	V2204	01813	V2365	01505
V1955	01288	V2093	01379	V2205	01441	V2365+15	01505+15
V1956	01289	V2094X	01314S	V2206	01442	V2366X	10193
V1961	01135	V2095	01367	V2213X	01523S	V2367	10192
V1961+15	01135+15	V2095+15	01367+15	V2214	01524	V2403X	10370S
V1961+3	01135+3	V2098	01375	V2215X	01525S	V2404	10367
V1963	01245	V2099X	01336S	V2216	01526	V2411X	10349S
V1964	01296	V2100	00921	V2217X	01468S	V2412	10348
V1967	01247	V2101	00922	V2218X	01462S	V2414X	10407S
V1970	01268	V2102X	10033S	V2219	01055	V2416	10406
V1979	01258	V2103	10031	V2220	00867	V2421	00602
V1980	01257	V2103	10065	V2226	01511	V2422X	01650S
V1981	01260	V2104X	10036S	V2227	01512	V2426X	01497S
V1983	01266	V2105	10015	V2229	00603	V2427	01552
V1983+15	01266+15	V2108X	01376S	V2231	01469	V2428	01553
V1984	01271	V2110	01377	V2232	01470	V2429	01537
V1985	01292	V2111	01233	V2236	01018	V2430	01538
V1986	01293	V2112	01234	V2238	10083	V2431	02058
V1987X	01241SN	V2113	01309	V2239	10076	V2432	02057
V1988X	01294S	V2114X	01506S	V2242	10078	V2433	01554
V1989X	01261S	V2115	01507	V2249	10269	V2434	01555
V1991	01272	V2116	01389	V2249X	10269	V2436	01550
V1992	01300	V2117	01388	V2250	10268	V2437	01551
V1993	01285	V2119	01402	V2255	10106	V2438	01826
V1995	01263	V2120	01403	V2256	10107	V2439	01273
V1997XK	01312S	V2121	01404	V2257	10069	V2442	01568
V1998	01597	V2122X	01305S	V2258	10070	V2443	01569
V1998	01744	V2123	01306	V2263	10330A	V2445	01545
V1999	01598	V2124	01471S	V2264	10328A	V2446	01546
V2011	10034S	V2125	01406	V2265	10060S	V2447	01535
V2023	01325	V2126	01407	V2265X	10060S	V2448	01536
		V2127	01408	V2268	10217	V2449X	01646S
		V2128	01409	V2269	10216	V2450X	01578S
		V2131	01412	V2274	01265	V2451X	01235S

Interchange Listing

FEDERAL MOGUL/ SEALED POWER (Cont'd)	V2566	10197A	V3942	01547	V4385	01665	
V2452	01548	V2572	10270	V3943	01597	V4385	02257
V2452X	01548S	V2574	10314	V3945	01654	V4386	01666
V2453	01547	V2575	10315	V3946	01076	V4388	01667
V2455	01597	V2579	10244	V3947	01566	V4471X	01761S
V2456	01598	V2580	10273	V3949	10116	V4474X	01761S
V2457	01570	V2581X	10274S	V3950	01589	V4475	01702
V2458X	01571S	V2582	10137	V3951	01419	V4476	01703
V2473R	01762R	V2583	10138	V3952	10148	V4477	01706
V2474R	01763R	V2585	10305	V3952	10625	V4478	01707
V2475R	01765R	V2586	10340A	V3954	01714	V4479	01708
V2476R	01767R	V2587X	10339SA	V3954+15	01714+15	V4480	01709
V2477R	01769R	V2588X	10473	V3956	01699	V4481	01713
V2478R	01770R	V2589X	10474	V3957	01535	V4482	01712
V2479R	01764R	V2606	10387	V3957+15	01535+15	V4483	01729
V2480R	01771R	V2606+15	10387+15	V3993	01783	V4484	01731
V2481R	01773R	V2607	10153	V4005	01365	V4485	01730
V2482R	01774R	V2608	10118	V4022	10275	V4486	01742
V2483R	01776R	V2610	01674	V4064	10145	V4487	01741
V2484R	01777R	V2611	01673	V4065	10284	V4488	01743
V2494	01695S	V2612	01727	V4070	10263	V4489	01746
V2495	01654	V2613	01726	V4075	00682	V4490	01745
V2496	10323	V2614	10163	V4084	00210	V4491X	01780S
V2497	10322	V2615	10162	V4093	01265	V4492	01781
V2498	10177	V2616	10218	V4102	00549	V4493	01782
V2499	10176	V2619	10420	V4104X	01177S	V4494	01785
V2500	10311	V2620	10421	V4106	01441	V4495	01786
V2501	10310	V2626	10122	V4113K	01179	V4496	01810
V2502X	10337	V2627	10123	V4119X	10034S	V4497	01811
V2505	10309	V2630	10172	V4121	01329	V4498X	01698S
V2506X	10342S	V2631	10173S	V4164	01809	V4499X	01699S
V2508X	10338S	V2632	10219	V4165X	10215S	V4500	01701
V2509X	01721S	V2633	10221S	V4167X	01261S	V4505	10500
V2510	01532	V2634X	10220S	V4168	01387	V4506	10501
V2511	01531	V2638	10414	V4168	01389	V4507	10520
V2512X	01581S	V2640	10206	V4185X	10276S	V4508	10521
V2514	01567	V2640	10207	V4198X	10285S	V4509	10522
V2515	01566	V2641X	10306S	V4208	01260	V4510	10523
V2516	01580	V2643	10224	V4211	10247	V4511	10534A
V2517X	01760S	V2644X	10229	V4213	01442	V4512	10535A
V2518X	01761S	V2645X	10228	V4213	10388	V4513	10543
V2519	01761S	V2646X	10227S	V4219	01598	V4514	10544
V2520	01760S	V2647	10226	V4222	01432	V4515	10550
V2523	01432	V2648	01704	V4227	10214	V4516	10551
V2524X	00559S	V2649	01705	V4231	00919	V4517	10562
V2525	00560	V2652	10126A	V4238	00154	V4518	10563
V2526	01556	V2652N	10126A	V4335	10220S	V4519	01728
V2527	01557	V2653	10128A	V4336	01737	V4520X	10356S
V2529	01591	V2653N	10128A	V4341	10169	V4521	01790
V2530	01592	V2654	01715	V4342	10170	V4522	01791
V2532	10117	V2656	01698	V4344	01931	V4523	01739
V2533	10116	V2660	10144	V4345	01807	V4524	10552
V2534X	01590S	V2661	10143	V4346	01736	V4525X	10553S
V2535	01588	V340	00121	V4347	10506	V4526	01723
V2536	01589	V341	00122	V4348	10507	V4551X	01135S
V2537	01586	V3912	10247	V4349	10432	V4553	01744
V2538	01587	V3913	10243	V4355	10164	V4554	01556
V2539X	01504S	V3915	01710	V4356	10516	V4555	01877
V2544X	01574S	V3916	01711	V4357	10517	V4556	01788
V2547	10196	V3918	10388	V4358X	10158S	V4557	01735
V2548	10195	V3919	10206	V4360	10157	V4558	01903
V2553	10386	V3921	00313	V4361	10159	V4559X	10282S
V2554	10385	V3923	01097	V4364	10234	V4560	10503
V2554+15	10385+15	V3924	01042	V4366	10235	V4561	10542
V2556	01675	V3925	01307	V4367	10299	V4562	10435
V2557	01671	V3926	01238	V4368	10300	V4564	01789
V2558	01670	V3927	01200	V4369	10248	V4565	01787
V2559	10413	V3928X	01075S	V4370	10524	V4566X	01699S
V2560	10190	V3929	01272	V4371X	01547	V4567	02044
V2561	10191	V3930	01018	V4372	10525	V4569	01806
V2562	10625	V3933	10142	V4374	10495	V4570	01858
V2563	10147	V3936	10103	V4375	10496	V4571	01929
V2563	10147	V3937	01504	V4376	10497	V4572	01902
V2563	10624	V3938	10192	V4380	01630S	V4573	10541
V2565X	10198A	V3940	01554	V4381	01631S	V4574	10434
		V3941	01551	V4384	01664	V4579	01941

Interchange Listing

FEDERAL MOGUL/ SEALED POWER (Cont'd)							
V4580	01937	V4693	01949	VG1317	140-9705	VG5002	140-7259
V4581	01904	V4694	01950	VG1318	140-8039	VG5002	140-9460
V4582	01905	V4695	13172	VG1319	140-8114	VG5002H	140-9523H
V4583	10742	V4696	13173	VG1319	140-8536	VG5002T	140-9259
V4585	01913	V4699	01991	VG1320	140-8115	VG5002T	140-9523
V4586	01914	V4700	01992	VG1320	140-8535	VG5003	140-7458
V4591	01934	V4709	02103	VG1321	140-8113	VG5003T	140-9458
V4593	01935	V4710	13073	VG1322	140-8256	VG5004	140-6116
V4594	01745	V4711	13074	VG1323	140-7357	VG5004T	140-9116
V4595	01746	V4712	13043	VG1324	140-7083	VG5005	140-5607
V4596	02245	V4713	13044	VG1325	140-8277	VG5005H	140-9607H
V4597	02246	V4714	13161	VG1326	140-8122	VG5005T	140-9607
V4598	02046	V4715	02180	VG1328	140-8188	VG5005T	140-9946
V4599	02047	V4716	02179	VG1330	140-8177	VG5006	140-5606
V4600X	01924S	V4717	01919	VG1331	140-8178	VG5006T	140-9606
V4602	01924	V4718	02007	VG1375	140-7999	VG5007	140-7298
V4603	01925	V4719	02006	VG1377	140-8112	VG5007H	140-9108H
V4605X	01925S	V4720	02172	VG1386T	140-8555	VG5007T	140-9108
V4606	02008	V4721	02173	VG1387T	140-8556	VG5007T	140-9298
V4608	01901	V4723	13046	VG1388T	140-8561	VG5008	140-6115
V4611	10556	V4724	13179	VG1389T	140-8274	VG5008	140-7554
V4612X	10803S	V4725	02009	VG1390T	140-8560	VG5009	140-8669
V4613X	10557S	V4727	13194	VG1391T	140-8574	VG5009T	140-9869
V4614	10804S	V4728	13195	VG1392T	140-8575	VG5011	140-9459
V4615X	10805S	V4730	13183	VG1393T	140-8582	VG5016T	140-9198
V4617	10733	V4731	13182	VG1395T	140-8578	VG5016T	140-9206
V4618X	10734S	V4732	13294	VG1396T	140-8583	VG503	140-1745
V4622	10786	V4733	13295	VG1402T	140-8388	VG5033	140-6110
V4623	10787S	V4734	13225	VG1403T	140-8389	VG5034	140-6105
V4624	10547	V4735	13226	VG1404T	140-8293	VG5035	140-5604
V4625	10723	V4736	13265	VG1405T	140-8292	VG5036	140-6115
V4626	10794	V4737	02175	VG1412	140-3020	VG5037	140-6106
V4627	02241	V4738	02176	VG1413	140-8663	VG5038	140-7715
V4628	02240	V4739	13211	VG1416T	140-8207	VG5039	140-7197
V4629	10321	V4740	13212	VG1419T	140-8558	VG5040	140-7669
V4630	10784	V4741	13042	VG1420T	140-8139	VG5042	140-7679
V4631X	02040S	V4742	13266	VG1423T	140-8584	VG5044	140-7205
V4632X	02040S	V4743	13333	VG1424T	140-8585	VG5046	140-6107
V4634	10548	V4744	13288	VG1425T	140-8203	VG5047T	140-9107
V4635	10549	V4745	13289	VG1426T	140-8564	VG5051T	140-9105
V4636	01917	V4746	13263	VG1434	140-3053	VG5052T	140-9715
V4637	01916	V4747	13264	VG1435	140-3019	VG5056T	140-9119
V4638	02054	V4748	13251	VG1439	140-3021	VG5057T	140-9554
V4641	10795	V4749	13252	VG1440	140-3022	VG5058T	140-9110
V4643	02053	V4750	13344	VG1441	140-3033	VG5059T	140-9114
V4644	02000	V4751	13345S	VG1442	140-3034	VG5060T	140-9458
V4645	01935	V4753	13237	VG1443	140-3149	VG5061	140-7459
V4647	01920	V4755	13398	VG226	140-1421	VG5062	140-6108
V4648	01921	V4756	13399	VG336	140-1515	VG5064	140-7448
V4655	01936	V4762	13086	VG338	140-1504	VG5065	140-7447
V4657	10499	V4763	13087	VG350	140-1527	VG5068H	140-9977H
V4659	10736	V795	00154	VG354	140-1853	VG5069H	140-9460H
V4661	10374S	V796	00155	VG361	140-1545N	VG5070H	140-9964H
V4664	10696S	V800	00170	VG362	140-1547N	VG5071	140-5604
V4671	02014	V801	00810	VG386	140-1577	VG5072	140-5612
V4672	02015	V816	00249	VG414	140-1618	VG5073	140-6113
V4673	01997	V839	00161	VG418	140-1620	VG5075T	140-9705U
V4674X	02010S	V840	00162	VG419	140-1337	VG5076T	140-9111
V4675	01998	V841	00205	VG420	140-1338	VG5077T	140-9106
V4676	01999	V842	00193	VG428	140-1614	VG5078T	140-9609
V4677	01918	V843	00203	VG437	140-1619	VG5083T	140-8040
V4678	02036	V844	00204	VG456	140-1697	VG5085T	140-9204
V4682	02220	V868	00168	VG457	140-1673	VG509	140-1476
V4683	01993	V869	00169	VG460	140-1704	VG5090	140-7174
V4684	01994	V869	00626	VG461	140-1678	VG526	140-1809
V4685	02118	V94085	10732S	VG463	140-1680	VG526T	140-7903
V4686	02119	V94649	13337	VG473	140-1732	VG529	140-8224
V4687	10778	V94650	13338S	VG474	140-1717	VG530	140-1817
V4688	10779	V954	00196	VG477	140-6469	VG538	140-1821
V4689	10798	V959	00210	VG478	140-1711	VG539	140-1823
V4690	10799	V967	00212	VG485	140-1969	VG540	140-1804
V4691	02175	V999	00220	VG497	140-1703	VG543	140-1832
V4692	02176	VC244	161-9002	VG499	140-1747	VG544	140-1829
		VG130	140-1342	VG500	140-1726	VG544	140-1830
		VG1315	140-7577	VG5001	140-7546	VG546	140-1829
		VG1315	140-7577+2	VG5001T	140-9546	VG549	140-1839

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FEDERAL MOGUL/ SEALED POWER (Cont'd)							
VG550	140-1840	VG721	140-7589	VG886	140-8209	VS1431	160-1301
VG555	140-1851	VG727	140-8319	VG899	140-8205	VS1432	160-1291
VG556	140-1852	VG729	140-7395	VG901	140-8191	VS1433	160-1218
VG557	140-1854	VG731	140-8021	VG902	140-8190	VS1435	160-1041
VG568	140-1865	VG733	140-7338	VG903	140-8194	VS1436	160-1173
VG569	140-1833	VG734	140-7499	VG904	140-8193	VS1437	160-1423
VG570	140-1858	VG735	140-7371	VG905	140-7444	VS1438	160-1295
VG571	140-1859	VG737	140-7822	VG910	140-8219	VS1439	160-1196
VG576	140-1860	VG738	140-6730	VG911	140-8036	VS1445	160-1106
VG581	140-7876	VG738	140-7813	VG913	140-8147	VS1446	160-1216
VG594	140-1881	VG741	140-7825	VG914	140-8255	VS1455	160-1409
VG602	140-7994	VG743	140-7826	VG915	140-8189	VS1456	160-1378
VG606	140-1897	VG747	140-7659	VG917	140-8291	VS1457	160-1069
VG607	140-1898	VG748	140-7710	VG927	140-8142	VS1458	160-1199
VG615	140-1952	VG750	140-7656	VG930	140-1568	VS1461	160-1079
VG619	140-1977	VG7501R	340-1043BR	VK115	121-1003	VS1462	160-1072
VG620	140-1976	VG7503R	340-1025BR	VK115R	121-1003	VS1463	160-1184
VG622	140-1888	VG7504R	340-1037BR	VK136	121-1006	VS1509	160-1019
VG623	140-1919	VG7505R	340-1036BR	VK138	121-1007	VS1528	160-1247
VG626	140-1914	VG751	140-7714	VK138R	121-1007	VS1530	160-1112
VG628	140-1733	VG752	140-8018	VK140	121-1009	VS1534	160-1213
VG629	140-1906N	VG756	140-7336	VK142	121-1010	VS1543	160-1080
VG634	140-1937	VG757	140-8017	VK144	121-1011	VS1547	160-1358
VG635	140-1723	VG7578	140-8389	VK174	121-1014	VS1550	160-1112
VG638	140-1962	VG758	140-7873	VK195	121-1017	VS1552	160-1103
VG639	140-1957	VG7588	140-8388	VK204	121-1024	VS1553	160-1348
VG642	140-6881	VG760	140-7828	VK205	121-1019	VS1562	160-1365
VG646	140-1968	VG783	140-7681	VK206	121-1045	VS1565	160-1382
VG647	140-1946	VG783	140-8357	VK208	121-1026	VS1566	160-1360
VG650	140-6254	VG784	140-7682	VK210	121-1023	VS1567	160-1172
VG657	140-7242	VG785	140-8010	VK213	121-1034	VS1568A	160-1075
VG658	140-1944	VG786	140-8008	VK215	121-1047	VS1572	160-1327
VG659	140-1943	VG787	140-8004	VK216	121-1021	VS1575	160-1120
VG660	140-7174	VG788	140-8201	VK217	121-1049	VS1576	160-1494
VG661	140-8420	VG789	140-8202	VK218	121-1027	VS1577	160-1635
VG664	140-7372	VG790	140-8208	VK219	121-1028	VS1578	160-1221
VG666	140-1941	VG791	140-8038	VK222	121-1051	VS1594	160-1194
VG669	140-8169	VG792	140-8195	VK223	121-1018	VS1609	160-1019
VG675	140-7529	VG793	140-7523	VK224	121-1020	VS1611	160-1205
VG676	140-7532	VG796	140-8233	VK225	121-1052	VS1614	160-1124
VG680	140-1909	VG797	140-8157	VK230	121-1031	VS1618R	160-1147
VG681	140-1907	VG803	140-8158	VK232	121-1039	VS1628	160-1267
VG684	140-7498	VG804	140-7712	VK235	121-1054	VS1630	160-1264
VG688	140-1972	VG804OE	140-8476	VK242	121-1058	VS1631	160-1269
VG689	140-1973	VG805	140-7625	VK243	121-1059	VS1632	160-1268
VG690	140-7208	VG809	140-8273	VK245	121-1060	VS1632	160-1408
VG691	140-7542	VG812	140-8211	VK247	121-1048	VS1640	160-1410
VG691	140-7545	VG813	140-8212	VK248	121-1061	VS1641	160-1266
VG692	140-7255	VG814	140-8156	VK249	121-1062	VS1642	160-1363
VG693	140-7255	VG815	140-8155	VK250	121-1063	VS1643	160-1504
VG695	140-7431	VG816	140-8324	VK251	121-1064	VS1644	160-1436
VG696	140-1970	VG817	140-8016	VK261	121-1065	VS1647	160-1383
VG697	140-7714	VG822	140-8218	VK27	121-1012	VS1648	160-1430
VG698	140-7713	VG823	140-8213	VK271	121-1067	VS1649	160-1352
VG700	140-7662	VG824	140-8216	VK273	121-1063	VS1650	160-1385
VG7002R	340-1021BR	VG825	140-8217	VK283	121-1090	VS1651	160-1402
VG7004R	340-1024BR	VG826	140-8210	VK286	121-1079	VS1656	160-1372
VG7005R	340-1044BR	VG828	140-8204	VK287	121-1084	VS1657	160-1484
VG7006R	340-1026BR	VG840	140-1543	VK291	121-1085	VS1659	160-1488
VG7007R	340-1027BR	VG841	140-8004	VK292	121-1072	VS1659	160-1488
VG700R	340-1030BR	VG842	140-1872	VK293	121-1082	VS1661	160-1426
VG701	140-7661	VG843	140-1874	VK294	121-1097	VS1663	160-1411
VG704	140-7194	VG844	140-1875	VK296	121-1087	VS1664	160-1425
VG705	140-7359	VG855	140-1908	VK297	121-1104	VS1665	160-1490
VG706	140-7523	VG856	140-1927	VK301	121-1100	VS1670	160-1458
VG709	140-7577	VG857	140-1947	VK302	121-1128	VS1671	160-1377
VG710	140-7576	VG859	140-1953	VK50	121-1046	VS242	160-1604
VG711	140-8143	VG860	140-1956	VK63	121-1001	VS295	160-1223
VG713	140-8172	VG861	140-1966	VK66	121-1000	VS307	160-1220
VG713	140-8200	VG862	140-6990	VK88	149-1001	VS313	160-1114
VG713	140-9557	VG865	140-7450	VK97	121-1002	VS328	160-1188
VG714	140-7575	VG866	140-7456	VS1414	160-1319	VS336	160-1285
VG715	140-7574	VG867	140-7408	VS1420	160-1239	VS337	160-1286
		VG869	140-7429N	VS1422	160-1236	VS343	160-1296
		VG870	140-7451N	VS1426	160-1220	VS356	160-1401
		VG883	140-7830	VS1428	160-1124	VS374	160-1116

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FEDERAL MOGUL/ SEALED POWER (Cont'd)		VS733	160-1024	FELPRO	9926PT	230-2072L
		VS738	160-1187		9927PT	230-2072R
		VS739R	160-1144HP	26180PT	9932PT	230-2080
VS378	160-1503	VS740	160-1186	26181PT	9942PT	230-2068
VS386	160-1433	VS742	160-1192	26182PT	9971PT	230-2117
VS415	160-1115	VS743	160-1023	26261	ES71028	220-1083
VS424	160-1116	VS747	160-1033	26323PT	ES710381	220-1112
VS425	160-1287	VS748	160-1044	8188PT	ES71066	220-1119
VS425	160-1288	VS753	160-1014	8190PT	ES71102	220-1091
VS445	160-1119	VS754	160-1013	8215PT	ES71129	220-1098
VS446	160-1118	VS755	160-1019	8699PT2	ES711291	220-1097
VS469	160-1289	VS760	160-1016	8770PT	ES71178	220-1113
VS471	160-1120	VS761	160-1029	8807PT1	ES71193	220-1120
VS485	160-1121	VS762	160-1028	8857PT	ES71328	220-1125
VS510	160-1122	VS767	160-1031	9014PT	ES72118	220-1000
VS521	160-1125	VS774	160-1225	9036PT1	ES72126	220-1006
VS525	160-1186	VS776	160-1171	9047PT	ES72129	220-1002
VS534	160-1126	VS777	160-1226	9076PT	ES72131	220-1004
VS547	160-1300	VS778	160-1227	9086PT	ES72136	220-1005
VS562	160-1127	VS781	160-1429	9090PT	ES72137	220-1006
VS581	160-1608	VS786	160-1038	9112PT	ES72138	220-1030
VS585	160-1129	VS789	160-1025	9116PT	ES72154	220-1060
VS587	160-1133	VS795	160-1018	9123PT	ES72155	220-1033
VS590	160-1185	VS799	160-1049	9210PT1	ES72156	220-1076
VS591	160-1128	VS803	160-1204	9228PT	ES72157	220-1074
VS596	160-1290	VS813	160-1055	9229PT	ES72159	220-1094
VS612	160-1130	VS817	160-1424	9233PT	ES72160	220-1076
VS615	160-1186	VS820	160-1233	9239PT	ES72161	220-1109
VS624	160-1131	VS821	160-1228	9250PT	ES72163	220-1095
VS643	160-1006	VS822	160-1210	9253PT	ES72165	220-1081
VS644	160-1133	VS825	160-1305	9274PT	ES72166	220-1072
VS648	160-1134	VS830	160-1198	9289PT	ES72168	220-1048
VS651	160-1136	VS831	160-1052	9293PT	ES72170	220-1088
VS653	160-1148	VS832	160-1053	9294PT	ES72171	220-1106
VS656	160-1135	VS834	160-1197	9296PT	ES72173	220-1102
VS657	160-1139	VS839	160-1064	9309PT2	ES72174	220-1096
VS658	160-1138	VS848	160-1097	9376PT	ES72175	220-1121
VS659	160-1179	VS849	160-1096	9388PT	ES72177	220-1080
VS660	160-1142	VS850	160-1095	9397B	ES72181	220-1050
VS661	160-1132	VS856	160-1219	9405PT1	ES72185	220-1052
VS665	160-1137	VS857	160-1033	9410PT	ES72188	220-1084
VS666	160-1140	VS858	160-1190	9422PT	ES72189	220-1108
VS671	160-1141	VS859	160-1089	9429PT	ES72195	220-1101
VS672	160-1151	VS860	160-1069	9465PT	ES72196	220-1100
VS672	160-1152	VS861	160-1099	9469PT	ES72198	220-1117
VS673	160-1143	VS862	160-1203	9471PT	ES72199	220-1099
VS674	160-1147	VS863	160-1202	9473PT	ES72200	220-1105
VS675	160-1149	VS866	160-1307	9480PT	ES72207	220-1111
VS677	160-1144	VS868	160-1253	9483PT	ES72211	220-1114
VS678	160-1150	VS869	160-1252	9496PT	ES72212	220-1047
VS682	160-1175	VS876	160-1052	9515PT	ES72220	220-1103
VS690	160-1156	VS888R	160-1003	9571PT	ES72264	220-1107
VS691	160-1157	VS901	160-1262	9572PT	ES72303	220-1122
VS693	160-1206	VS902	160-1261	9623PT1	ES72390	220-1123
VS697	160-1178	VS907	160-1086	9627PT	ES72672	220-1008
VS703	160-1161	VS909	160-1076	9637PT	ES72723	220-1009
VS704	160-1005	VS911	160-1229	9646PT	ES72724	220-1010
VS707	160-1159	VS917	160-1172	9651PT	ES72727	220-1013
VS708	160-1003	VS918	160-1071	9673PT	ES72728	220-1014
VS710	160-1001	VS919	160-1054	9676PT	ES72733	220-1015
VS711	160-1000	VS920	160-1201	9683PT1	ES72794	220-1016
VS712	160-1145	VS922	160-1083	9691PT	ES72798	220-1023
VS713	160-1164	VS924	160-1085	9711PT	ES727981	220-1071
VS714	160-1177	VS926	160-1075	9717PT	ES72849	220-1017
VS717	160-1154	VS932	160-1252	9728PT	ES72856	220-1018
VS717	160-1160	VS937	160-1339	9790PT	ES72857	220-1019
VS718	160-1004	VS941	160-1274	9792PT1	ES72859	220-1021
VS720	160-1147	VS942	160-1271	9815PT	ES72892	220-1085
VS721	160-1006	VS943	160-1272	9819PT	ES72895	220-1086
VS722	160-1012	VS944	160-1273	9820PT	ES72896	220-1075
VS726	160-1008	VS949	160-1250	9829PT	ES72897	220-1077
VS727	160-1009	VS957	160-1393	9830PT	ES72902	220-1118
VS728	160-1011	VS957	160-1394	9842PT	ES72903	220-1116
VS72931	122-1458	VS960	160-1238	9851PT	ES72905	220-1110
VS731	160-1217	VS968	160-1241	9861PT	ES72906	220-1092
VS732	160-1218	VS970	160-1318	9861PT	ES729061	220-1124

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FELPRO (Cont'd)					
ES74016	220-1025	SS72562	122-1032	SS72875	122-1226
ES74017	220-1085	SS72564	122-1203	SS728751	122-1226
ES74019	220-1031	SS72567	122-1089	SS72878	122-1282
ES74020	220-1028	SS725671	122-1089	SS72888	122-1419
ES74021	220-1026	SS725681	122-1047	SS72891	122-1449
ES74027	220-1059	SS72608	122-1089		
ES74031	220-1024	SS72616	122-1034	FERREA	
ES74033	220-1093	SS72617	122-1067	VG1008	340-1039BR
ES74034	220-1104	SS72619	122-1082	VG1009	340-1038BR
SS11836	122-1003	SS72621	122-1263	VG1010	340-1041BR
SS12764	122-1051	SS72623	122-1047	VG1011	340-1040BR
SS13294	122-1007	SS72628	122-1218	VG1012	340-1043BR
SS13360	122-1048	SS726281	122-1031	VG1014	340-1042BR
SS13364	122-1041	SS726281	122-1218		
SS13364.1	122-1038	SS726282	122-1330	FIAT	
SS13399	122-1036	SS72629	122-1263	4892674AB	122-1363
SS13399.1	122-1036	SS72630	122-1047	4892820AB	121-1098
SS13401	122-1033	SS72630	122-1086		
SS13807	122-1035	SS72646	122-1137	FORD	
SS13807.1	122-1035	SS72656	122-1147	0311411	140-1966
SS13955	122-1041	SS726561	122-1147	11448522	01285
SS27149	122-1263	SS726562	122-1147	11448894	01300
SS27179	122-1043	SS72657	122-1082	13212V5010	140-7873
SS27276	122-1089	SS72667	122-1075	13212V5010	140-8388
SS27283	122-1082	SS72668	122-1052	13213V5010	140-8017
SS27415	122-1263	SS72669	122-1322	13213V5010	140-8389
SS27416	122-1048	SS72675	122-1142	1550925	VL83
SS27503	122-1125	SS72675.1	122-1142	1822862C1	140-8476
SS27504	122-1125	SS72678	122-1130	1F2Z6571AA	122-1351
SS27506	122-1132	SS72680	122-1149	1S4Z6571AA	122-1206
SS70014	122-1063	SS72680.1	122-1149	1S7Z6505AA	02007
SS70037	122-1047	SS72683	122-1074	1S7Z6507AA	02006
SS70038	122-1088	SS72684	122-1077	1S7Z6513AA	160-1506
SS70060	122-1011	SS72684	122-1077	1S7Z6518AA	121-1104
SS70070	122-1075	SS72685	122-1069	1S7Z6571EA	122-1411
SS70092.1	122-1031	SS72686	122-1067	1S7Z6571FA	122-1410
SS70151	122-1053	SS72687	122-1031	1W4Z6505AA	02246
SS70151.1	122-1053	SS72698	122-1073	1W4Z6507AA	02245
SS70151.1	122-1053	SS72700	122-1075	2L2E6505AA	01914
SS70157	122-1150	SS72702	122-1031	2L2E6507AA	01913
SS70287	122-1198	SS72704	122-1086	2L2Z6505AA	01914
SS70310	122-1082	SS72708	122-1215	2L2Z6505BA	01914
SS70310.1	122-1082	SS72710	122-1155	2L2Z6507AA	01913
SS70359	122-1251	SS72711	122-1332	2L2Z6507BA	01913
SS70360.1	122-1242	SS72712	122-1147	2L2Z6513AA	160-1504
SS70373	122-1075	SS72721	122-1147	2S7Z6513AA	160-1490
SS70530	122-1059	SS72722	122-1147	2S7Z6513AC	160-1490
SS70537	122-1046	SS72729	122-1031	30523090	140-9557
SS70598	122-1086	SS72782	122-1147	310650	00609
SS70654	122-1206	SS72783	122-1079	310651	00608
SS70702	122-1047	SS72793	122-1086	311411	140-1966
SS70710	122-1086	SS72799	122-1227	385658	184-1034
SS70731	122-1040	SS72800	122-1162	388480	184-1035
SS70809	122-1324	SS72807.1	122-1276	3C3Z12A379AA	240-1034GP
SS70816	122-1052	SS72819	122-1149	3C3Z6500AA	VL114
SS70819	122-1052	SS72821	122-1150	3C3Z6505AA	02180
SS70819	122-1053	SS72829	122-1152	3C3Z6507AA	02179
SS70829	122-1314	SS72831	122-1147	3C3Z6513AA	160-1458
SS70861	122-1047	SS72832	122-1165	3C3Z6518AA	121-1105A
SS70861	122-1233	SS72837	122-1147	3C3Z6571AA	122-1378
SS71152	122-1045	SS72839	122-1075	3C3Z9F538AA	240-1034
SS72504	122-1036	SS72839.1	122-1075	3F1Z6564AA	180-1333
SS72513	122-1031	SS72841	122-1163	3L3Z6065AA	220-1071
SS725142	122-1039	SS72842	122-1254	3L3Z6500BA	VL178
SS725143	122-1039	SS72850	122-1449	3L3Z6507BA	02118
SS72522	122-1079	SS72851	122-1314	3L3Z6510AA	140-3047
SS72524	122-1114	SS72852	122-1236	3L3Z6510BA	140-3047
SS72525	122-1270	SS72861	122-1260	3L3Z6513BA	160-1485
SS72526	122-1043	SS72861.1	122-1260	3L3Z6564BA	180-1330
SS72527	122-1270	SS72862	122-1198	3L3Z6571DA	122-1356
SS72528	122-1075	SS72867	122-1230	3M4Z6513AA	160-1568
SS72536	122-1089	SS72869	122-1127	3M4Z6513BA	160-1568
SS72561	122-1032	SS72871	122-1251	3S4Z6505AA	02007
SS72561.1	122-1032	SS72871.1	122-1327		
				3S4Z6507AA	02006
					01538

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FORD (Cont'd)							
AA5Z6505A	13345S	C20Z6500D	VL35	C70E6505J	01000	D1FZ6505A	01199
AA5Z6507A	13344	C20Z6A528CHP	183-1020	C70E6507J	01001	D1FZ6507A	01200
AA5Z6513A	160-1631	C2AE6505E	00375	C7TE6505E	01332	D1TZ6505A	SB1630E-1
AL3Z6505A	13289	C2AZ6505A	01242	C7TE6507A	01057S	D1ZX6500BA	VL48
AL3Z6507A	13288	C2OZ6A528C	183-1030	C7TE6507E	00949	D1ZZ6500B	VL48
AL3Z6513A	160-1611	C30Z6500A	VL48	C7TE6507F	00949	D27Z6505A	10060S
AL3Z6571A	122-1445	C3AE6500A	VL21	C7TZ6505B	01242	D27Z6507A	10061
AL3Z6571AA	122-1445	C3AE6505J	00742	C8AE6500A	VL9	D2AE6505AA	01237
AL8Z6505A	01788	C3AZ6505A	00375	C8AZ6500A	VL9	D2AE6507AA	01238
AL8Z6507A	01787	C3AZ6505J	00742	C8AZ6500B	VL9	D2AZ6505A	01237
AT4Z6505A	13226	C3DE6500B	VL9	C8SZ6505A	SB2125-4	D2AZ6505D	01135
AT4Z6513A	160-1599	C3DZ6500A	VL9	C8SZ6507A	SB1750-1	D2AZ6507A	01238
B4A6507A	00376	C3DZ6500B	VL9	C8SZ6505A	01102	D2DE6505AA	01266
B506500A	VL9	C3DZ6513A	160-1131	C8SZ6507A1	01103	D2DE6507AA	01268
B5A6506A	SB1875-6	C3OZ6513A	160-1132	C8SZ6513B	160-1161	D2DE6507EA	01268
B6505B2	00100	C3SV6500A	VL9	C8SZ6A529A	184-1040	D2DZ65053	01266
B6A6057A	SB1562-1N	C3SZ6500A	VL9	C8TE6507A	01120	D2DZ6505A	01266
B6A6500A	VL21	C3TE6505A	00375	C8TE6507A	SB1815E-1	D2DZ6505C	01266
B6A6513A	160-1120	C3TE6505E	00530SN	C8VE6505J	01102	D2DZ6507A	01268
B6AE6507A	00585	C3TE6507A	00531S	C8VE6507E	01103	D2DZ6507E	01268
B7T6507A	00494	C3VE6500A	VL9	C9AE6500A	VL9	D2FZ6505A	01199
B8AZ6563D	186-1090	C40E6500A	VL35	C9AE6505A	01135	D2OE6505EA	01237
B8AZ6564C	180-1059	C4AE6500A	VL9	C9AE6505U	01135	D2RY6505A	01300
B8C6500A	VL21	C4AE6505A	01242	C9AE6507A	01137	D2RY6507A	01285
B8QH6505AA1	00530SN	C4AE6507E	00947	C9AE6507NHD	01120	D2RY6565A	190-1435
B8QH6507A	SB1744E-1N	C4AZ6507A	00947	C9AE6507S	00963	D2TE6505AA	01135
B8QH6507AA1	00531S	C4DE6500A	VL9	C9AE6507U	01137	D2TE6507AA	01137
B8QH6518A	121-1009	C4DZ6565A	190-1327	C9AZ6505A	01135	D2TZ6505A	01135
B8S6500A	VL9	C4TE6500A	VL9	C9AZ6507A	01137	D2TZ6505J	01135
B8TZ6507T	SB2220E-1	C4TE6505A	00917SN	C9AZ6505U	01217S	D2TZ6507A	01137
B8TZ6505E	00530SN	C4TE6507A	00918	C9NN6057J	SB1600E-1	D3AZ6A527A	184-1034
B9AE6505A	01242	C4TE6507M	00949	C9NN6057L	SB1600E-1+020	D3HZ6507A	00918
B9AE6507A	00585	C4TZ6507A	SB1630E-1	C9OE6505J	01237	D3NN6505A	01653
B9T6057AB	SB1630E-1+020	C4TZ6500A	VL9	C9OE6505U	01237	D3NN6507A	01654
BC3Z6505A	13266	C4TZ6500B	VL9	C9OE6507AA	01238	D3RY6505A	01300
BC3Z6505AA	13266	C4TZ6505A	00917SN	C9OE6507J	01238	D3VE6505AA	01271
BC3Z6505B	02119S	C4TZ6505J	01332	C9TE6505J	01242	D3VE6507A	01272
BC3Z6507A	13265	C4TZ6505N	00917SN	C9TE6507A	01120	D3VZ6505A	01271
BC3Z6507B	02118S	C4TZ6505P	00917SN+15	C9TE6507J	00918	D3VZ6505C	01271+15
BC3Z6513A	160-1616	C4TZ6507A	00918	C9ZE6500C	VL48	D3VZ6507A	01272
BC3Z6565A	190-1553	C4TZ6507J	00949	CAZ6500A	VL9	D3VZ6507C	01272+15
BC3Z6571A	122-1441	C4TZ6507R	01057S	CC3Z6505A	13266	D42E6505AD	01597
BL3Z6505A	13291S	C4TZ6513A	160-1006	CC3Z6505B	13266	D42E6507AD	01598
BL3Z6507A	13290S	C5AE6500A	VL35	CE2DZ6500A	VL35	D43Z6505A	01597
BL3Z6571A	122-1427	C5AE6500E	VL35	COAE6500A	VL9	D4FZ6500A	VL83
BR3Z6500A	VL575	C5AE6505A	01358	D0AE6500A	VL35	D4FZ6505A	01597
BR3Z6505A	13295	C5AE6505E	01358	D0AE6500B	VL48	D4FZ6507A	01598
BR3Z6507A	13294	C5AE6507A	00963	D0AE6500E	VL35	D4FZ6564A	180-1037
BR3Z6513A	160-1617	C5AE6507A2	00963	D0AE6505AA	01169	D4NN6056A	SB1900E-2
BR3Z6571B	122-1447	C5AZ6507A	00963	D0AE6505AE	01171	D4NN6056C	SB1900E-2+020
C0AE6505E	01242	C5AZ6513A	160-1134	D0AE6507BJ	01172	D4NN6056E	SB1900E-3
C0AE6505J	00375	C5NN6507B	01654	D0AZ6500A	VL35	D4NN6057A	SB1630E-1N
C0AE6505N	01242	C5TE6505E	01177S	D0AZ6500B	VL48	D4TE6505AA	01242
C0AE6505U	01242	C5TZ6505A	01177S	D0AZ6500C	VL48	D4TE6505AD	01597
C0AE6507A1	00376	C5TZ6505E	01177S	D0AZ6505A2	01169	D4TZ6505A	01242
C0AE6507E	00585	C5TZ6507A	01120	D0AZ6505E	01171	D4ZE6507A	01598
C0AE6507J	00373	C5TZ6507C	01120+15	D0AZ6505E2	01171	D4ZZ6505A	01300
C0AE6507N	00585	C5TZ6507E	01120	D0AZ6507A2	01172	D5AE6505JA	01327
C0AZ6505N	01242	C5TZ6513A	160-1135	D0AZ6507E2	01170	D5AZ6507A	SB1687-1
C0DE6056A	SB1562-3	C6836505J	01000	D0AZ6507J	00637	D5HE6505AA	00530SN
C0DE6057A	SB1375-4	C6AE6500A	VL9	D0AZ6A529A	184-1039	D5HE6505AA	01346S
C0DE6505A	00564	C6AE6500C	VL9	D0JE6505E	01177S	D5HE6507AA	00531S
C0DE6505J	00564	C6AE6505A	01000	D0JE6505G	01177S+15	D5JE6505AA	01368S
C0ME6507N	00376	C6AZ6505J	01000	D0JE6507A	01701	D5OZ6513A	160-1024
C0TE6507A	00376	C6AZ6507A	01001	D0OZ6500A	VL35	D5TE6505AA	01327
C0TE6507E	00376	C6AZ6507J	01001	D0OZ6513B	160-1004	D5TE6505AAA	01177S
C1AE6505E	01242	C6AZ6513A	160-1175	D0OZ6A527A	184-1034	D5TE6505ACA	01177S+15
C1AE6507A	00637	C6OE6505A	01000	D0TE6505A	01358	D5TE6505AEA	00917SN
C1DE6507A	00627	C6OE6507A	01001	D0TZ6505A	01177S	D5TE6505NA	01332
C20E6500A	VL35	C6TZ6505A	00917SN	D0VZ6505A	01102	D5TE6507AA	01328
C20E6500B2	VL48	C7AE6500A	VL35	D0ZE6500A	VL48	D5TE6507JA	01348
C20Z6500A	VL35	C7AZ6505A	01000	D0ZZ6500A	VL48	D5TZ6505A	01327
C20Z6500B	VL35	C7AZ6507E	01001	D1AE6505AA	01169	D5TZ6505J	01332
C20Z6500C	VL35	C7AZ6507J	01001	D1AZ6500A	VL35	D5TZ6505N	01177S
C20Z6500C	VL35	C7AZ6513B	160-1151	D1AZ6500B	VL35	D5TZ6507A	01328
		C7JE6505M	01242	D1AZ6513A	160-1162	D5TZ6507A2A	01328

Interchange Listing

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D6EE6505AA	01597	DC2Z6571A	122-1449	E4FZ6571A	122-1206	E7GZ6571A	122-1149
D6EE6507A2A	01598	DOAE6507BU	01170	E4TE6505AA	01135	E7HZ6057A	SB1962E-1N
D6EE6507AA	01598	DOAZ6518A	121-1019	E4TZ6505A	01542	E7HZ6057E	SB1733E-2N
D6EE6C501A1A	VL83	DOOZ6513B	160-1004	E4TZ6513C	160-1206	E7HZ6505A	01758
D6FZ6500A	01598	E0AZ6507A	01328	E4ZE6505AA	01397	E7HZ6507A	01757
D6FZ6505A	01597	E0AZ6513A	160-1071	E4ZE6507A2A	01598	E7HZ6510A	140-8409
D6FZ6507A	01598	E0EE6501AA	VL83	E4ZE6507F2A	01328	E7RY6505A	10386
D6NN6505A	01695S	E0HE6505AA	00530SN	E4ZZ6507A	01598	E7SE6507A2A	01538
D6NN6507A	01654	E0HZ6505A	00530SN	E57E6505AA	01527	E7TE6505AB	01547
D6NN6513A	160-1212	E0JY6507A	10157	E57E6507AA	01528	E7TE6507A2A	01505
D6OZ6571A	122-1035	E1AE6505EA	01266	E59E6507A2B	01598	E7TE6507BA	01548S
D6TZ6507E	01348	E1AZ6505A	01266	E59E6507A3B	01598	E7TN6505AA	01695S
D7AZ6505E	01271	E1EE6505AA	01451	E5EE6507C2B	01452	E7TZ6057A	SB1781E-1N
D7AZ6507E	01272	E1EE6507A2A	01452	E5F6500CA	VL86	E7TZ6505D	01547
D7AZ6507F	01272+15	E1EE6507AA	01452	E5FZ6500A	VL86	E7TZ6505G	01504
D7AZ6A528A	183-1022	E1FZ6507A	SB1750-60	E5FZ6507A	01452	E7TZ6507A	01505
D7BE6507AA	01357	E1FZ6507C	SB1562-54	E5HN6505AA	01758	E7TZ6507D	01548S
D7BZ6507A2A	01357	E1FZ6500A	VL86	E5HN6507AA	01757	E7TZ6507G	01505
D7DZ6505A	01327	E1FZ6505A	01451	E5JE6505AA	01504S	E7TZ6564A	181-1060
D7JE6505AA	01271	E1FZ6507A	01452	E5JE6507A	01120	E7TZ6564B	181-1060
D7JE6507AA	01272	E1FZ6518A	121-1024	E5TE6505BA	01504	E7ZE6A517AA	122-1200
D7JL6507A	00609	E27E6505AA	01527	E5TE6507B2A	01505	E7ZE6A517BA	122-1199
D7TE6505AA	01358	E27E6507AA	01528	E5TZ6505A	01504	E7ZZ6571A	122-1200
D7TE6505EA	01358	E27Z6571A	122-1132	E5TZ6505F	01527	E7ZZ6571B	122-1199
D7TZ6505A	01358	E2AE6505A	01135	E5TZ6507A	01505	E83E6507A2A	01598
D8AE6500A	VL35	E2AE6505DD	01469	E5TZ6507F	01528	E83Z6505A	01597
D8AE6505BA	01367	E2AE6505SA	01135	E5TZ6513A	160-1202	E83Z6507A	01598
D8AZ6513A	160-1041	E2AE6507D2D	01470	E5TZ6513B	160-1203	E8AZ6571A	122-1047
D8AZ6513B	160-1044	E2AE6507E2D	01470	E5ZE6505AA	01397	E8BZ6505A	10153
D8AZ6564B	180-1233	E2AZ6505B	01135+15	E5ZE6507A2A	01598	E8BZ6507A	10118
D8AZ6565A	190-1443	E2AZ6505D	01135	E5ZZ6505A	01397	E8TZ6505B	01542
D8AZ6A527A	184-1035	E2DZ6057A	SB1875-50	E5ZZ6507A	01598	E8TZ6505C	01542
D8FZ6564A	180-1037	E2DZ6505A	01469	E5ZZ6507D	01598	E8ZE6505A2A	01597
D8NN6505AA	01695S	E2DZ6507A	01470	E5ZZ6507G	01328	E8ZZ6507A	01598
D8NN6507AA	01694	E2DZ6510A	140-8545	E6AE6505A2C	01535	E92Z6505A	10163
D8TE6505AJ	01367	E2DZ6565A	190-1522	E6AE6507A2E	01536	E92Z6505B	10164
D8TE6505E	01367	E2EE6500CA	VL86	E6AZ6505A	01537	E92Z6507A	10162
D8TE6505EA	01367	E2TE6505DA	01358	E6AZ6507A	01538	E92Z6510A	140-8142
D8TE6505SA	00917SN	E2TN6507AB	01694	E6DZ6505A	01535	E92Z6C501A	VL146
D8TE6507AA	01380	E2TZ6505A	01358	E6DZ6507A	01536	E92Z6C501B	VL146
D8TZ6505A	01367	E2ZE6505GA	01597	E6DZ6564A	180-1315	E9AE6505AA	01537
D8TZ6505J	01135	E2ZZ6505A	01597	E6DZ6571A	122-1066	E9AE6505BA	01537
D8TZ6A527A	184-1021	E3TZ6057B	SB1669E-1	E6FZ6513B	160-1080	E9AE6507AA	01538
D8TZ6A527B	184-1022	E3TZ6500A	VL114	E6HZ6507A	01694	E9AZ6507A	01328
D94Z6507C	SB1671E-1N	E3TZ6505A	01527	E6SE6505A2A	01537	E9DZ6510A	140-8559
D97Z6510A	140-9557	E3TZ6505D	01542	E6SE6505DA	01537	E9FZ6500A	VL113
D97Z6571B	122-1132	E3TZ6505L	01300	E6SE6507A2A	01538	E9JY6505A	10159
D9HZ6507A	SB1781E-1N	E3TZ6507A	01528	E6TZ6500A	VL9	E9JY6507A	10157
D9HZ6500A	VL35	E3TZ6507D	01543	E6TZ6505A	10386	E9JY6510A	140-8186
D9HZ6505A	01385SN	E3TZ6507F	01285	E6TZ6507A	01328	E9JY6510B	140-8187
D9HZ6505D	01383SN	E3TZ6510A	140-8013	E6TZ6507D	10385	E9NN6513BA	160-1211
D9HZ6505G	01381	E3TZ6510B	140-7689	E6TZ6513A	160-1172	E9RY6518A	121-1024
D9HZ6507A	01386S	E3TZ6564A	181-1060	E6TZ6564A	180-1007	E9SE6505B2A	01469
D9HZ6507D	01382	E3TZ6564C	180-1007	E6TZ6571A	122-1067	E9SE6507B2A	01470
D9HZ6507E	01384S	E3TZ6565A	190-1531	E6TZ6571E	122-1325	E9SE6A517AA	122-1216
D9HZ6507G	01384S	E3TZ6571A	122-1330	E79E6507A2A	01598	E9SZ6505A	01469
D9HZ6513A	160-1204	E3ZE6507A	01328	E7AZ6507A	01538	E9SZ6507A	01470
D9HZ6565A	190-1425	E3ZE6507A2A	01328	E7DZ6513A	160-1072	E9SZ6564A	180-1012
D9OE6505AA	01135	E3ZZ6507A	01328	E7EE6505B2A	01545	E9SZ6571B	122-1216
D9TE6505AA	01383SN	E3ZZ6507C	01328+15	E7EE6505B2D	01545	E9TE6505AA	01135
D9TE6505EA	01381	E43E6505B2A	01597	E7EE6505E2A	01451	E9TE6507AA	01328
D9TE6505JA	01385SN	E43E6507B2A	01598	E7EE6507B2A	01546	E9TE6507AB	01328
D9TE6507AA	01137	E43E6564A	180-1029	E7FZ6057A	SB1625-62	E9TZ6505A	01135
D9TE6507AB	01386S	E43Z6505A	01597	E7FZ6057B	SB1437-65	E9TZ6507A	01328
D9TE6507EA	01382	E43Z6507A	01598	E7FZ6057C	SB1562-54	E9TZ6513A	160-1201
D9TE6507JA	01384S	E43Z6564A	180-1029	E7FZ6500A	VL113	E9ZE6505B	01135
D9TZ6507A	01380	E43Z6565A	190-1469	E7FZ6505A	01545	E9ZE6505BA	01135
D9TZ6514A	161-1006	E4AE6507A2B	01470	E7FZ6505B	01545	E9ZE6507A2A	01598
D9ZE6505AA	01397	E4AZ6505A	01135	E7FZ6505C	01545	E9ZE6507BA	01328
D9ZE6507A	01598	E4DZ6057A	SB1630E-1	E7FZ6505D	01545	EAA6500D	VL21
D9ZE6507AA	01598	E4DZ6507A	01470	E7FZ6507A	01546	EAA6513A	160-1120
D9ZZ6505A	01397	E4EE6505A2A	01451	E7FZ6507B	01546	EAD6500	VL9
D9ZZ6507A	01598	E4EE6507A2C	01452	E7FZ6507C	01546	EAF6505D	00348
		E4EZ6505A	01597	E7FZ6507D	01546	EAF6505D2	00348
		E4FZ6505A	01451	E7GZ6510A	140-8036	EAF6510C	140-1726
		E4FZ6507A	01452	E7GZ6513A	160-1213	EAM6518A	121-1065

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EBJ6500A	VL9	F32Z6507C	10562	F57E6A517AA	122-1226
EBP6505A	00375	F32Z6510A	140-8561	F57Z6505A	01744
EBP6507E	00373	F32Z6571A	122-1246	F57Z6505BB	01744
EBU6507A	00376	F32Z6571B	122-1285	F57Z6507A	01743
ECK6505A	00375	F32Z6501A	VL149	F57Z6507BB	01743
ECR6507F	00494	F33E6505A2A	01597	F57Z6510A	140-8274
ECU6500A	VL9	F33E6507A2A	01598	F57Z6513A	160-1383
EDB6507A	00494	F37E6505A2A	01597	F57Z6571A	122-1226
EDC6505E	01242	F3CZ6057A	SB1625-62	F5AE6507AA	01699
EDC6507F	00585	F3CZ6057B	SB1437-65	F5AZ6065A	220-1023
EDG6500A	VL9	F3CZ6500A	VL113	F5AZ6507A	01699
EOAZ6564B	180-1234	F3CZ6505A	10235	F5AZ6510A	140-8274
ESFZ6500B	VL86	F3DE6507AA	01536	F5DE6505AC	01788
F0CZ6505A	10235	F3LY6057A	SB1500-79	F5DE6507AC	01787
F0CZ6507A	10234	F3LY6057B	SB1250-61	F5LY6571A	122-1419
F0CZ6510A	140-8173	F3LY6505A	01708	F5RZ6505A	01746
F0HZ6507A	01757	F3LY6507A	01709	F5RZ6505D	01729
F0JY6505A	10159	F3LY6513A	160-1269	F5RZ6507A	01745
F0JY6507A	10157	F3TE6507JA	01723	F5RZ6507D	01728
F0SE6564A	180-1012	F3TE6507KA	01701	F5RZ6510A	140-8560
F0SZ6564A	181-1018	F3TZ6505A	01877	F5RZ6513A	160-1580
F0TZ6056A	SB1875-9	F3TZ6505B	01754	F5RZ6513B	160-1581
F0TZ6505A	10388	F3TZ6507A	01701	F5RZ6518A	121-1101
F0TZ6507A	10387	F3TZ6507B	01701	F5RZ6518B	121-1082
F0TZ6565A	190-0471	F3TZ6507D	01723	F5RZ6571B	122-1229
F0VY6505A	01537	F3TZ6507E	01723	F5RZ6510A	140-8476
F12Z6510A	140-8142	F3XY6057B	SB1500-53	F5UE6507AA	01792
F1AE6505CC	01698	F3XY6500C	VL121	F5UZ6507A	01792
F1AE6507BE	01699	F3XY6505A	10282	F65E6505AA	01791
F1AE6518BA	121-1084	F3XY6507A	10281	F65E6507AA	01789
F1AE6C501BB	VL107	F3XY6510A	140-8388	F65E6C501AA	VL107
F1AZ6057A	SB1875-56	F3XY6510B	140-8388	F65Z6507AA	01877
F1AZ6057B	SB1375-61	F3XY6513B	160-1052	F67J6C501AA	VL107
F1AZ6505A	01698	F3XY6518B	121-1059	F67Z6500AA	VL83
F1AZ6507A	01699	F3XY6564A	180-1264	F6AE6505AB	01698S
F1AZ6510A	140-8274	F3ZE6505BA	01877	F6AE6507AB	01699S
F1AZ6513A	160-1408	F3ZE6507BA	01701	F6AZ6065BA	220-1071
F1AZ6518A	121-1084	F3ZZ6065B	220-1033	F6AZ6513AA	160-1269
F1AZ6571A	122-1227	F3ZZ6065C	220-1033	F6AZ6514AC	160-1268
F1AZ6C501A	VL107	F3ZZ6065D	220-1033	F6AZ6571A	122-1449
F1AZ6C501B	VL107	F3ZZ6505A	01877	F6AZ6571AA	122-1449
F1CZ6571A	122-1206	F3ZZ6507A	01701	F6CE6505BA	01936
F1DZ6500A	VL35	F3ZZ6571C	122-1067	F6CE6507CB	02044
F1HE6505A	01383SN	F4AE6A517AA	122-1449	F6CE6507EA	02044
F1HE6505AB	01832SN	F4AZ6571A	122-1449	F6DZ6049EC	140-9204
F1HZ6057A	122-1237	F4BZ6505A	10153	F6DZ6505A	01788
F1HZ6057E	122-1237	F4BZ6507A	10118	F6DZ6507A	01787
F1HZ6505A	01832SN	F4BZ6C501B	VL146	F6DZ6565AA	190-1541
F1HZ6571B	122-1237	F4DZ6057A	SB1875-50	F6DZ6571DA	122-1065
F1JE6505AA	01504S	F4DZ6507A	01536	F6DZ6C501A	VL107
F1JE6505DA	01877	F4SE6571A	122-1215	F6JL6505AA	01504S
F1JE6507AA	01120	F4SE6571B	122-1215	F6JL6507AA	01875
F1JE6507EA	01701	F4SE6A517AA	122-1215	F6LE6513AB	160-1425
F1JE6507EZ	01701	F4SE6A517BA	122-1215	F6LE6513AB	160-1425
F1T36507BA	01505	F4SZ6510A	140-8545	F6TE6529AA	180-1284
F1TE6505BA	01504	F4SZ6513A	160-1075	F6XZ6505AA	10282S
F1TE6507BA	01505	F4SZ6571A	122-1215	F6XZ6507AA	10281
F1TE6507HA	01548	F4SZ6571B	122-1215	F6ZE6507AA	01790
F2AE6C501AB	VL107	F4TZ6505A	01786	F6ZZ6505A	01791
F2CZ6500A	VL113	F4TZ6505B	01504S	F6ZZ6507A	01790
F2DZ6565A	190-1524	F4TZ6505C	01786	F6ZZ6510A	140-8574
F2LE6505AF	01708	F4TZ6507A	01785	F6ZZ6510B	140-8575
F2LE6507AE	01709	F4TZ6507B	01785	F6ZZ6513A	160-1430
F2SE6500AA	VL100	F4TZ6513A	160-1054	F75E6505AB	01698S
F2SZ6500A	VL100	F4TZ6518A	121-1011	F77Z6500AB	VL176
F2TZ6507A	01548	F4TZ6565A	190-1538	F77Z6505AA	10388
F2TZ6571A	122-1075	F4TZ6565C	190-1536	F77Z6507AA	10387
F2Y110280A	140-8142	F4TZ6571A	122-1333	F77Z6510AE	140-8663
F2Y1230910	140-8142	F4TZ9F538A	240-1026	F77Z6513AA	160-1504
F32Z6505A	10551	F4XY6571A	122-1263	F77Z6564AB	180-1325
F32Z6505B	10563	F53E6505AB	01729	F77Z6571AB	122-1067
F32Z6507A	10550	F53E6507AA	01728	F77Z6571AB	122-1330
F32Z6507B	10562	F53E6A517AA	122-1229	F77Z6571AB	122-1348
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		F57E6507BB	01743	F7CZ6507CB	02044
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				F7ZZ6565AA	190-1511
				F87E6505BA	01914
				F87E6505DA	01914
				F87E6507BA	01913
				F87E6507CA	01913
				F87Z6505BA	01914
				F87Z6507BA	01913
				F8AZ6564AA	180-1284
				F8CZ6505AA	01746
				F8CZ6513BA	160-1581
				F8RZ6507BA	01745
				FODE6500AA	VL35
				FOTZ6500A	VL150
				FOTZ6513A	160-1264
				FOTZ6564A	180-1008
				FOTZ6571A	122-1326
				FR3Z6507A	13294
				FT4Z6571A	122-1493
				PB8M6500A	VL9
				XF2Z6513AA	160-1430
				XF2Z6571BA	122-1351
				XL3Z6505AA	01925
				XL3Z6505BA	01925S
				XL3Z6507AA	01924
				XL3Z6507BA	01924S
				XL3Z6513AA	160-1411
				XS4Z6513AA	160-1398
				XW4Z6505AA	02193
				XW4Z6507AA	02192
				XW4Z6510AA	140-3028
				XW4Z6518BA	121-1103
				YF1Z6505BA	02047
				YF1Z6507BA	02046
				YF1Z6513CA	160-1437
				YF1Z6513FA	160-1490
				YF1Z6564CA	180-1315
				YF1Z6571CA	122-1357
				YF1Z6571DA	122-1358
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				YS4Z6505AA	01936
				YS4Z6571CA	122-1342
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				10008244	183-1014
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				10022882	01813
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				10034162	01814
				10040226	01551
				10040232	160-1099
				10042875	122-1077
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				10044421	01550
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				10044620	160-1083
				10045251	01294S
				10045252	01393
				10069213	01261S
				10070124	02058
				10070125	122-1069
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10114116	01235S	12338632	SB1625-5	12565199	160-1634	12645473	122-1337
10114117	01087	12339069	SB1750-2	12565763	160-1431	12645725	VL558
10114118	01107	12339070	SB1500-1	12565836	122-1418	12646375	13333
10114119	122-1287	12350995	SB2125-38	12568411	02172	12661717	122-1418
10114123	184-1045	12350996	SB1937-17	12568412	02173	12786696	13331
10124698	160-1083	12350997	SB1812-4N	12569167	180-1336	12791961	13332SN
10127492	01703	12350998	SB1812-9N	12569427	13239	13024	01600
10127493	01702	12350999	SB1812-5N	12569550	13013	1352424	160-1130
10130992	121-1090	12353360	01814	12569583	01929	1362589	140-1733
10131082	122-1198	12353362	01813	12571595	VL558	1370108	00976
10137454	01482S	12353382	01550+15	12571596	VL558FG	1370109	00975
10147882	122-1238	12353387	01551	12571608	VL558RG	1377868	140-1937
10149663	01780S	12353388	01551+15	12572638	VL175	1381656	01188
1015098	140-3020	12353388	01551+15	12574354	122-1349	1381657	01082
10156070	01705	12353397	01591	12575197	121-1127	1381658	01188
10156071	01704	12353398	01591+15	12575351	13081	1385075	01105
10162148	160-1365	12353399	01592	12575352	13211	14002446	181-1016
10162178	01702	12353400	01592+15	12575354	13082	14007370	01393
10166341	01810	12353401	01710	12575355	160-1588	14007743	01192
10166342	01811	12353403	01711	12575356	13230	14024249	01395
10166343	160-1363	12354124	160-1085	12575793	01997	14024254	01394
10166345	121-1085	12356509	SB1562-42	12576400	VL115	14024298	01192
10166354	190-1534	12362632	01195+15	12576628	180-1329	14024300	01192
10166355	190-1535	12363753	01763R	12577692	190-1546	14024474	01195
10166368	122-1314	12363754	01770R	12577693	190-1547	14025512	160-1233
10166867	00996S	12363756	01769R	12577695	180-1331	14025569	01393
10168465	01195	1237653	01188	12577696	13043	14025570	01193
10168495	01195	1237667	01189	12577697	13044	14025571	01393
10168509	01195	1241850	180-1040	12578258	13243	14025572	01195
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10168525	220-1018	12457652	122-1323	12581777	122-1201	14025574	01195
10168526	220-1018	1246741	01321	12581778	122-1202	14025575	01192
10168527	220-1018	1247718	01320	12582197	10778	14031328	01481
10168594	01807	12480244	160-1267	12582198	10779	14031332	01480
10183724	122-1287	12482062	122-1338	12582719	13042	14033139	01192
10198809	160-1267	12482063	122-1337	12586484	160-1623	14033927	01484
10198812	140-8535	12510801	181-1063	12589774	160-1488	14033928	01482S
10198813	192-1513	12523971	180-1318	12590223	02053	14034082	01193
10198816	01736	12529742	140-9946	12590771	13040	14037636	01192
10198817	01737	12533586	122-1323	12592506	160-1579	14042575	161-1012
10198818	122-1236	12537174	160-1267	12595365	VL559G	14045145	01261S
10198819	122-1236	1254371	187-1014	12596034	02010	14075629	192-1339
10206040	160-1427	12550457	02000	12596078	160-1480	14075631	192-1338
10212810	122-1260	12550458	01935	12596995	122-1394	14075641	01195
10212811	160-1266	12550909	01807	12599650	180-1317	14076469	160-1086
10213465	160-1507	12552289	01807S	12600774	160-1607	14077112	160-1089
10214034	122-1043	12553349	02053	12601762	13046	14081040	01578S
10214664	180-1337	12553350	02054	12601763	13179	14081046	161-1013
10220606	01806	12553354	122-1349	12607017	121-1060	14081053	01087
10227494	01931	12553696	160-1488	12607211	13243	14082305	01646S
10227762	192-1511	12555564	160-1366	12610719	13241S	14085486	160-1076
10227763	192-1512	12555580	180-1317	12610931	13333	14086088	01569
10231940	192-1508	12555601	122-1345	12612427	13042	14086089	01568
10231941	192-1507	12555905	01934	1261378	01388	14087525	01235S
10238852	190-1537	12555906	02000	1261380	01387	14088641	01192
10240894	01107	12555908	02045	1261380	01389	14090057	192-1484
10240896	01261S	12556295	192-1510	1261424	01387	14091408	01578S
10240898	160-1410	12556296	192-1509	12615936	02010	14091805	02057
10240899	161-1053	12556298	180-1328	12616671	160-1588	14091806	02058
10241740	192-1485	12556317	02101	12617048	01811	14091807	122-1069
10241743	01931	12556320	160-1446	12617533	13040	14095256	192-1331
10244974	01806	12556458	01706	12619820	VL558	14095451	01192
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1112215030	220-1084	12558674	122-1260	12622329	01997	14097002	360-1017
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11519112	220-1084	12563062	01934	12624396	122-1438	14097049	01600
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1165557	140-1733	12564012	VL115	12627971	13244	14103192	01261S
1231079	01189	12564338	02267	12631974	13335	14103223	01195
1232184	01188	12564494	01934	12631975	13334	1410957	140-1411
12338014	122-1069	12564494AA	01934	12632143	VL558	146112	140-1745
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1486753	01084	21007455	24576677	220-1088	3836006	184-1020
1487602	190-1385	21007455AC	24576974	01998	3836026	00400
1602743	01293	21007456AC	24576975	01999	3836542	00400
1604113	01292	21007462	24577245	220-1081	3836652	00400
1611155	01293	21007685	24577246	220-1081	3839387	00400
1618805	190-1433	21008589	24577277	160-1480	3849814	00988
1625100	SB1625-1	21015025	2465337	00938+15	3849818	00919
1632056	140-5606	22503324	25178085	VL120	3859905	140-7208
1644842	190-1427	22510373	25184804	02248S	3859914	00996S
1647160	140-8666	22514420	25341990	VL559	3859915	01087
1647161	140-8668	22521789	25342148	VL114	3860004	01107
1647199	01707	22525390	25362189	VL163	3864808	01164
1647200	01706	22530611	25510025	190-1478	3866612	122-1045
1647209	121-1081	22531218	25511044	190-1489	3869997	VL37
1647211	122-1288	22531220	25512098	01388	3870360	00400
1649686	160-1103	22533631	25518390	122-1037	388380	00969
1649705	122-1203	22537965	25518390	122-1270	388385	00970
17085565	VL73	22537971	25518766	190-1467	3887125	160-1141
17085566	VL37	22542308	25521841	01389	3887127	00997
17085567	VL49	22542314	25523697	01389	389451	01457
17085568	VL94	22542700	25530143	122-1217	389457	00974
17089102	VL116	22548421	25532065	01711	3899622	183-1026
17089852	VL115	230171	25532066	01710	3904295	184-1020
17102014	VL138	2334647	25532501	192-1491	3906695	01106
17102660	VL73	23500061	25532727	190-1532	3911068	160-1144
17105697	VL120	23500074	329275	01192	3921912	184-1020
17105951	VL116	23500283	33002522	122-1053	3921912	01002
17106263	VL120	23502552	33002729	122-1052	3931005	01107
17109057	VL115	23503994	336733	01294S	3931006	01106
17120060	VL163	2367485	336770	00997	3937750	00919
17120061	VL163	24100005	336771	01241SN	3941010	00399
17120070	VL138	24100293	340226	01294S	3942551	00919
17120090	VL115	24100294	3522423	01739	3942556	00988
17120735	VL115	24405819	3522487	160-1366	3946077	01131
17120991	VL116	24419109	360506	122-1052	3946816	00399
17121905	VL115	24454518	361957	01241SN	3947770	121-1003
17122490	VL559	24500317	361958	01241SN	3947880	121-1007
18120004	SB1812-4	24501290	364737	01241SN	3955188	00919
19207664	122-1418	24501291	364746	01195	3959142	183-1032
19257145	160-1267	24501395	364799	122-1053	3959146	00696
19316203	13398	24501395	3688758	140-1453	3965583	00696
19316204	13399	24501667	3688759	140-1476	3969815	01164
19316205	160-1658	24501717	3688761	140-1527	3972112	01206S
19316207	122-1162	24502254	369399	01393	3973186	01235S
19317154	160-1659	24502256	3695455	00308	3981040	00996S
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21000103	121-1090	24502712	3703920	00399	3989083	01193
21000424	140-8293	24502713	3708168	140-1732	3989084	01192
21000637	10521	24503314	3724778	00400	3989085	01195
21000638	10520	24503417	3730859	00400	3989086	01194
21000639	SB1125-53	24503856	3730860	00399	3989087	01206S
21000640	SB1375-60	24503888	3731212	00400	3989088	01193
21000740	VL124	24504195	3732893	183-1024	3989089	01206S
21000982	140-8292	24504246	3735208	00399	3992264	01192
21000983	SB1437-69	24504249	3735381	160-1125	3992294	183-1024
21000984	SB1687-58	24504406	3744340	183-1032	3994246	01193
21000985	10523	24504710	3744341	184-1038	3995651	01195
21000986	10522	24504953	3754754	00400	3995656	01195
21006284	140-8293	24505722	3758810	00308	399809	00969
21006357	VL123	24507422	3760237	01206S	401762	00974
21006379	SB1125-53	24507423	3765095	00696	401768	00970
21006406	10520	24507690	3769558	00308	403350	01002
21006515	122-1230	24507691	3774052	00399	405874	01457
21006516	122-1230	24508009	3774594	00399	405886	00970
21006678	VL124	24572068	3774685	00399	405892	00974
21006693	VL124	24573076	3774695	00399	409265	01212
21006828	140-8293	24574092	3779410	VL73	409270	01210
21006829	140-8292	24574524	3779486	00400	411202	01457
21006842	160-1382	24574697	3799576	00696	412354	01263
21006898	160-1361	24574723	3799644	VL37	412821	01457
21007037	10521	24574860	3815082	00308	415784	01002
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	5233410	VL73	88969574	122-1347	94362646	140-8255
460527	122-1045	VL114	88972332	160-1444	94364961	140-8189
465934	184-1038	VL73	8941767081	140-8189	94390780	140-3101
471531	01195	VL114	8943626461	140-8255	94450950	SB1187-52
473428	01241SN	VL115	8944245061	140-8291	94450951	SB1375-51
473429	01241SN	VL114	90106142	180-1028	94656542	122-1073
476527	183-1015	VL94	90108699	140-8039	94720894	180-1028
476528	01394	VL73	90118914	160-1064	94840002	SB1500-71
476529	01395	VL94	90220111	10116	94840003	SB1312-59
476530	184-1025	VL73	90220112	10116	94840062	10107
477212	184-1032	VL114	90220119	10213	94840063	10106
477292	160-1009	VL519	90220121	13168	94840067	160-1055
483186	01093	VL73	90220125	10117	94840605	140-8021
483191	01160	VL73	90323756	13169S	94844673	SB1250-54
483196	01247	VL73	90323757	10116	94844674	SB1125-51
483201	01296	VL114	90354648	121-1098	94844703	VL119
483206	01215	VL114	90410741	122-1329	94844753	140-8038
483211	01161	VL73	90410816	02040S	94845132	10176
483221	01216	VL114	90412277	10784	94845133	10177
486564	01160	VL114	90448050	160-1578	94847270	SB1250-54
486567	01160	VL115	90502079	140-3010	94847271	SB1062-50
486573	01215	VL114	90502080	140-3011	94847343	10314
489843	01245	VL5	90529533	121-1131	94847344	10315
489846	01247	VL114	90537032	160-1508	94847347	160-1252
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497268	01310	VL73	90537240	01997	94853629	10506
497271	01311	VL120	90537241	122-1355	94853630	10507
500536	181-1020	VL115	90537248	140-3029	94855715	160-1358
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52252456	10117	01161	90572642	140-3010	94856714	121-1100
52252460	10116	01311	90572643	140-3011	94859225	122-1282
52253484	10116	01361	91171154	140-8144	94859431	10780
52285384	10117	01362	91171765	10302	94859432	10781
5231315	VL63	183-1021	91174039	122-1142	94859433	160-1444
5231355	VL49	184-1038	91174435	122-1246	96051575	140-8016
5231360	VL49	181-1020	91174436	160-1594	96051655	10103
5231430	VL73	01322	91174438	121-1099	96051656	10102S
5231465	VL73	01323	91175073	10787S	96051659	121-1061
5231475	VL37	13293	91177123	140-3127	96053081	10102S
5231585	VL63	01263	91177228	10786	96057952	10172
5231615	VL49	01457	91177364	VL120	96057953	10173S
5231740	VL5	01324	9128603	VL570	96059936	122-1155
5232100	VL73	140-1878	9128626	02040S	96060053	10169
5232110	VL73	01323	9129211	180-1339	96060054	10170
5232215	VL63	01322	9158057	122-1468	96061666	VL120
5232265	VL49	01354	9194698	VL175	96062385	140-8016
5232280	VL37	13340	93174076	VL571	96065425	140-8324
5232320	VL49	13341S	93184457	VL571	96067847	10103
5232375	VL49	13293	93385865	160-1576	96067978	10170
5232385	VL49	13368S	94020342	140-7395	96067994	10173S
5232439	VL63	160-1632	94020343	140-7395	96068277	121-1060
5232445	VL73	13367	94029345	SB1437-58	96068605	10516
5232450	VL37	13369	94029346	SB1625-55	96068606	10517
5232510	VL73	13342	94029351	10216	96336671	140-3046
5232537	01083	13343	94030688	10216	96353035	122-1409
5232550	VL63	160-1633	94030689	10217	96353128	160-1487
5232565	VL73	160-1646	94032687	140-8023	96353286	121-1107
5232570	VL49	140-1821	94047955	140-8024	96376400	VL567
5232575	VL49	181-1012	94051259	240-1019R	96376881	02247
5232660	VL37	VL123	94062396	160-1548	96376980	02248S
5232670	VL37	140-1453	94062397	160-1547	96440079	02248S
5232675	VL49	140-1476	94110559	122-1130	96440081	02247
5232695	VL63	140-1527	94176708	140-8189	96830500	02248S
5232700	VL37	01261S	94200714	121-1047	96840122	122-1409
5232720	VL37	01107	94200743	10086	96896008	02248S
5232750	VL49	01206S	94203702	SB1500-50	97188463	240-1019
5232755	VL49	02040S	94205977	10087	97212571	SB1343E-1
5232762	183-1026	VL73	94206762	140-7713	97212572	SB1264E-1
5232765	VL73	VL94	94206763	140-7714	97212994	122-1346
5232780	VL49	140-1476	94213384	SB1500-50	97225124	160-1457
5232810	VL73	122-1340	94239501	121-1048	97225507	02175
5232895	VL49	122-1341	94250977	10105	97225508	02176
5232900	VL49	122-1276	94250978	10104	97250340	140-3049
5232916	01292	02177	94316157	140-8255	97310851	220-1099
5233282	01292					

Interchange Listing

ISUZU (Cont'd)							
8942512750	10218	8972107020	122-1413	RV9284	10281	RX35066	10340A
8942512760	10220S	8972125711	SB1343E-1	RV9304	10348	RX35080	10104
8942514400	10220S	8972125720	SB1264E-1	RV9310	10141	RX35087	13203S
8942594830	160-1247	8972129940	122-1346	RV9318	10322	RX8701	10060S
8943161570	140-8255	8972195092	02238	RV9320	10236	RX8801	10083
8943255280	SB1187-52	8972503401	140-3049	RV9330	10176	RX8804	10064
8943331140	10726	8973255462	VL573	RV9346	10216	RX8829	01300
8943626451	140-8189	8973528880	160-1570	RV9352	10103	RX9111	10033S
8943649611	140-8189	8973669450	02175	RV9356	10127	RX9112	10036S
8943907800	140-3101	8973669460	02176	RV9364	01598	RX9145	10069
8943933100	160-1567	8980258250	160-1457	RV9368	01449	RX9148	10037
8943933961	160-1554	9117118030	SB1539E-2	RV9370	01452	RX9150	01397
8943933971	160-1553	9117156070	SB1854E-1	RV9372	01598	RX9157	10086
8943944620	SB1894E-1	94029347	140-7656	RV9374	10255	RX9162	10407S
8943949960	160-1554	94424506	140-8291	RV9375	10218	RX9180	10308
8943951131	02237			RV9376	10214	RX9186	10069
8943952660	160-1553			RV9378	10145	RX9200	10269
8943954620	02238			RV9381	10103	RX9221	10278S
8943958820	13121			RV9383	10118	RX9226	10106
8943958830	13122			RV9385	10385	RX9228	10330A
8943958840	160-1549			RV9386	01285	RX9245	10370S
8943958850	160-1550			RV9389	10126A	RX9261	10193
8943961720	SB1697E-1			RV9405	10143	RX9269	10282
8943965980	140-3054			RV9410	01555	RX9275	10271
8943966092	122-1369			RV9411	01553	RX9277	10356S
8943975000	160-1566			RV9412	10157	RX9281	10349S
8943994300	02239			RV9420	10247	RX9289	10129
8944284660	122-1119			RV9434	10172	RX9305	10177
8944294870	121-1074			RV9440	10270	RX9313	10237
8944410740	10220S			RV9441	10273	RX9315	10323
8944470250	10219			RV9446	10169	RX9323	10217
8944470260	10221S			RV9448	10117	RX9331	10102S
8944509500	SB1187-52			RV9452	10275	RX9333	10413
8944509510	SB1375-51			RV9453	10284	RX9343	10146S
8944619570	10725			RV9454	10284	RX9347	01597
8944619580	10726			RV9455	10314	RX9351	01448
8970107270	VL146			RV9462	10219	RX9353	01451
8970155460	10502			RV9463	10218	RX9355	10256
8970155462	10502			RV9464	01481	RX9359	10215S
8970155470	10503			RV9467	10299	RX9360	10142
8970155471	10503			RV9510	10436	RX9365	10302
8970156100	SB1437-67			RV9511	10197A	RX9368	10196
8970228160	SB1750-51			RV9513	10421	RX9369	10153
8970228170	SB1562-66			RV9518	10434	RX9374	10386
8970231081	160-1372			RV9519	10224	RX9375	01300
8970287020	10725			RV9521	10197A	RX9377	10128A
8970287060	10726			RV9525	10234	RX9391	10144
8970336730	122-1119			RV9532	10126A	RX9397	01554
8970338641	02239			RV9533	10387	RX9398	01552
8970338642	02237			RV9538	10516	RX9400	10248
8970343790	10725			RV9549	10535A	RX9418	10164
8970378020	SB1812-51			RV9549	10543	RX9419	10356S
8970427240	10728S			RV9550	10534A	RX9422	10173S
8970604150	02238			RV9551	10507	RX9428	10274S
8970850662	10728S			RV9552	10506	RX9432	10170
8970884600	SB2013E-1			RV9556	10538	RX9434	10116
8970949940	10728S			RV9557	10537	RX9438	10276S
8971102560	10221S			RV9558	10552	RX9439	10285S
8971197510	10220S			RV9559	10321	RX9440	10285S
8971201670	122-1315			RV9559	10544	RX9441	10315
8971203070	122-1137			RV9560	10541	RX9457	10069
8971208990	160-1551			RV9562	10551	RX9458	10069
8971209050	160-1552			RV9564	10550	RX9460	10221S
8971209110	160-1553			RV9621	13038	RX9461	10220S
8971209120	160-1554			RV9622	13276	RX9462	01480
8971319610	10739			RX34499	01199	RX9467	10300
8971319620	10740			RX35031	10123	RX9512	10546
8971363280	160-1372			RX35036	10191	RX9517	10227S
8971884630	240-1019			RX35038	10221S	RX9522	10414
8971891140	02238			RX35041	10159	RX9523	10198A
8972098762	13122			RX35042	10163	RX9524	10198A
8972098763	13122			RX35043	10244	RX9525	10207
8972106820	160-1571			RX35046	10625	RX9528	10159
				RX35059	10311	RX9529	10235
				RX35061	10338S	RX9535	10128A
				RX35063	10342S	RX9536	10388

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K.O. LEE (Cont'd)							
J12C	SB1687-3	Z12E	SB1750-3N	6136111130	240-1050	1523113560	140-8348
J12CE	SB1687-2	Z12U	SB1750-32	6136424520	121-1135	1526113150	122-1375
J12E	SB1750-3	Z13	SB1812-5N	6140414540	122-1473	1526113240	160-1495
J12T	SB1750-5	Z13CE	SB1750-2N	6150111320	SB1835E-1	1526113540	140-3103
J13	SB1812-5	Z13T	SB1812-9N	6150121341	140-3134	1526113560	140-3104
J13AU	SB1937-10	Z14CT30	SB1847E-1	6150121351	140-3183	1539313110	13020
J13BT	SB1875-14	Z16BU62	SB1937-8	6150121370	140-3184	1539313120	13021
J13C	SB1750-1	Z16J	SB2000-3N	6150121380	SB1874E-4N	1551113580	140-8347
J13CE	SB1750-2	Z18BX	SB2187-7	6150414111	13385	1552113580	140-8347
J13E	SB1812-2	Z20U	SB2250-13	6150414210	13386S	1560113560	140-8348
J14	SB1875-2	Z22AY10	SB2506E-1	6150414230	13391S	1641513110	13024
J14C	SB1812-1	Z3AT	SB1312-5	6150414411	160-1652	1641513120	13025
J14CE	SB1812-4	Z4	SB1250-2	6150414420	160-1651	1641913125	13028
J14H	SB1875-7	Z8	SB1500-1N	6150414450	160-1655	1648413110	13024
J14T	SB1875-11	Z9	SB1562-1N	6150414570	122-1474	1648413120	13025
J16	SB2000-6	Z9ATH	SB1562-2N	6150424110	13389	1731113560	140-8348
J16B	SB1875-1	Z9BR	SB1625-3N	6150424210	13390S	1732113560	140-8348
J16BE	SB1875-6	Z9BSH	SB1628E-2	6151111330	SB1874E-3	1732113580	140-8347
J16CE	SB1937-6	Z9BTH	SB1630E-1N	6204111440	SB1538E-2	1C01013150	122-1375
J16E	SB1812-12	Z9DT	SB1750-17	6204191310	140-3181	1C01013560	140-8348
J17	SB2062-8	Z9HU57	SB1624E-1N	6204414210	13384	66535	140-8347
J17+16	SB2088E-1			6204414410	160-1654	6653587	140-8348
J17C	SB1937-15	KIA		6204414431	160-1653	LAND ROVER	
J17D	SB2000-2	OB6S712111	10157	6204414520	121-1134	10253	122-1348
J17U	SB2000-4	OK24712101	VL149	6204414540	122-1472	1025392	VL176
J18CT	SB2000-18	OK24712111	02196	6207111430	SB1775E-3	4121218	180-1325
J18E	SB2000-1	OK24712121	02197	6207111440	SB1539E-5	4397912	160-1504
J18R	SB2125-7	OK2NC12111	13038	6207414110	13383	4438257	01914
J19BX	SB2250-18	OK2NC12121	13039	6207414130	13383	4438258	01913
J19C	SB2125-1	OK30E10155	122-1162	6209414110	13387	LR008878	121-1104
J19D	SB2062-3	OK30E10281	140-3129	6209414210	13388S	LR025006	122-1411
J19E	SB2000-7	OK30E12111	02194	6610414210	00326S	LR025018	122-1410
J19R	SB2187-1C	OK30E12114	121-1108	6710414210	00602		
J20B	SB2125-2	OK30E12121	02195	6712414110	00603		
J21DR	SB2250-1	OK93812121	10159	6732111170	SB1722E-1		
J22	SB2375-2	OK95412111A	10814	6732111180	SB1853E-1		
J23	SB2444E-1	2211423000	140-8573	6732412112	VL156	137110F010	13273
J26E2	SB2562-1	2211433010	140-8193	6732413111	190-1530	137110P010	13086
J2BTH30	SB1161E-1	221143C100	140-3152	6732414430	160-1527	137110P030	13086
J4P	SB1250-1	2211533010	140-8194	6732414520	121-1079	137110T010	13365
J4TH8	SB1262E-1	2211537100	140-8572	6732414540	122-1269	1371150060	13273
J5	SB1312-1	2221125002	13255	6736414110	01665	137150F020	13274S
J5CPH	SB1348E-1N	2221126600	13047	6736414210	01664	137150S020	13087
J6	SB1375-4	222112G000	13255	M11900011810	140-3189	137150T010	13366
J6BP	SB1437-4	2221135510	10810	M12013011860	140-3190	1371531140	13087
J6BR	SB1437-8	2221135520	10810	M12140011340	122-1484	1371550060	13274S
J6P	SB1375-1	2221137201	10808	M12185011150	122-1482	9008031043	122-1266
J6R	SB1375-5	222113C800	13286	M12390011100	13409	9008031046	122-1282
J7	SB1437-3	222113C810	13286	M12390011110	13410	9091303028	121-1100
J7ATH	SB1562-34	2221225002	13256	M12390011120	160-1663	90913A3001	121-1100
J7B	SB1500-2	2221235500	10811	M12446011340	122-1483		
J7BR	SB1500-6	2221237200	10809	M12910011100	13415		
J7R	SB1437-5	222123C800	13287	M12910011130	13416		
J8	SB1500-1	2222302500	121-1060	M12915011810	140-3191		
J8AT	SB1625-7	2222321004	121-1031	M12979511120	160-1665		
J8BR	SB1562-7	2222322001	121-1102	M27310080001	121-1138		
J8E	SB1441E-1	2222423500	122-1366	M27310090000	121-1139		
J8K	SB1505E-1	222242G000	122-1440	M27310090001	121-1139		
J8R	SB1500-3	2222438000	122-1114	SB1775E-4	SB1775E-4		
J9	SB1562-1	2222438010	122-1114	YM12990011100	13411		
J9AR	SB1687-6	222243C100	122-1444	YM12990011110	13412		
J9ATH	SB1562-2	222243CAA0	122-1444	YM12990011120	160-1664		
J9B	SB1625-4	222243CAB0	122-1444				
J9BH	SB1625-11	2223137100	VL568	KUBOTA			
J9BR	SB1625-3	2223137110	VL568	1522113110	13022		
J9BTH	SB1630E-1	2461033050	VL135	1522113120	13023		
J9BTU27	SB1657E-1	OFE3P12121	10815	1522113150	122-1372		
J9BU	SB1625-20	OKL0110155	122-1246	1522113153	122-1372		
J9E	SB1562-3	OKL0210155	122-1285	1522113240	160-1493		
J9R	SB1562-4			1522113360	121-1123		
Z10	SB1625-1N	KOMATSU		1522113560	140-8348		
Z10R10	SB1640E-1	13212FY500	140-7826	1522113580	140-8347		
Z12C	SB1687-3N	3006457	140-7264	1522113980	121-1123		
Z12CE	SB1687-2N	6127111341	140-8160	1523113540	140-8347		

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MACK (Cont'd)		MARTIN WELLS			
13GC2264P1	SB1692E-1N	690GC432	13307S	158IN	00963
13GC2264P15	SB1692E-1N+015	714GB1308P2	140-1809	159IN	00938
13GC2264P31	SB1692E-1N+030	714GB1309	140-1810	160IN	00947
13GC2264P5	SB1692E-1N+005	714GB199A	140-1515	161IN	01120
13GC2290	SB1692E-1N	714GB210P2	140-7592	162IN	00949
13GC2292	SB1692E-1N	714GB217P2	140-8007	1637EX	01429S
13GC38	SB1831E-2	714GB217P2	140-8008	163IN	01107
20510747	121-1024	714GB222P2	140-8010	164IN	00997
20530103	SB1697E-2	714GB26P2	140-8105	165IN	01082
20536487	240-1046R	714GB3103P2	140-8010	1667EX	01586
20564020	13376S	714GB3111P2	140-3043	1668IN	01587
20705437	121-1094	714GB3113A	140-3043	1669EX	01588
20706194	SB1831E-2	714GB3113AP2	140-3043	166IN	01137
20706223	02095	714GB3113P2	140-3043	1670IN	01589
20706558	160-1624	722GC219A	161-1023	167IN	01238
20732758	SB1579E-1C	722GC226	161-1023	168IN	01170
20737586	13375S	722GC311	161-1074	169IN	01180
20737849	SB1658E-1C	722GC312	161-1074	170IN	01161
20740798	13377S	722GC313	161-1052	171IN	01260
20740804	SB1776E-1C	722GC313A	161-1052	172IN	01258
20768519	13378S	722GC314	161-1052	1733	01889
20864662	122-1469	722GC320	161-1056	1734IN	01899
20904074	140-3157	722GC321	161-1074	1735EX	01900S
21016539	13378S	85137065	240-1053	1738IN	13307S
21401136	240-1053	MARTIN WELLS			
21430918	13376S	01371EX	02254	1744IN	01943
21990221	122-1469	100EX	00400	1745EX	01944S
25100204	161-1052	101EX	01265	1746IN	01945
25502378	161-1074	102EX	01242	1747EX	01946S
25633189	122-1361	104EX	01017S	175IN	01328
446GC279	122-1322	105EX	00742	176IN	01357
446GC296	122-1274	106EX	01266	1771IN	02131
446GC328	122-1274	107EX	01358	177IN	01442
446GC332	122-1361	108EX	01329	1786EX	02095
54GC126	121-1009	109EX	01332	179IN	01380
54GC19	121-1045	111EX	01106	180IN	01388
54GC25	121-1094	113EX	01000	181IN	01382
575GC1100	160-1171	114EX	01307	182IN	01395
575GC1115	160-1466	115EX	01237	184IN	01470
575GC146	160-1296	116EX	01169	185IN	01813
575GC172	160-1295	119EX	01325	186IN	01393
575GC199	160-1170	120EX	01320	189IN	01505
575GC213	160-1189	121EX	01597	190IN	01481
575GC35	160-1624	122EX	01327	191IN	02057
575GC36	160-1624	123EX	01354	192IN	01538
688GC185	01037	126EX	01381	193IN	00302
688GC2325	01037	128EX	01394	194IN	00308
688GC2325A	01037	130EX	01469	195IN	00376
688GC2352	01037	131EX	01814	196IN	00373
688GC2352A	01037	133EX	01192	198IN	01457
688GC2361A	01037	134EX	01389	199IN	01152
688GC2364	01446	136EX	01480	200IN	01362
688GC2378	01570	1370IN	02255	2022IN	01910S
688GC2389	01750	1373EX	02187	202IN	00349
688GC337	01446	1374IN	02188	203IN	01057S
688GC337A	01446	137EX	02058	204EX	01422S
688GC339	01572	1385EX	01366	205EX	01326
688GC344	02095	139EX	01537	207EX	01399
690GC122	01036S	140EX	01504	208EX	01417
690GC2114B	01036S	141EX	00303	213EX	01177S
690GC2187	01036S	142EX	00375	214EX	01542
690GC2187A	01036S	143EX	00559S	215EX	01547
690GC2187B	01036S	144EX	01294S	216EX	01710
690GC2193	01415S	145EX	00996S	218EX	01206S
690GC2210	01571S	146EX	01441	219EX	01483S
690GC331	01415S	147EX	01135	220EX	01482S
690GC331A	01415S	148EX	01133S	221EX	01780S
690GC339	01573S	149IN	00399	222EX	01261S
690GC410	13307S	150IN	00494	224EX	01271
690GC411	01910S	151IN	00567	225EX	01419
690GC417	01910S	153IN	00560	227IN	01711
690GC425	13307S	154IN	00637	230IN	01598
690GC427	01910S	156IN	00696	231IN	01484
690GC428	01415S	157IN	01268	233IN	01543
				234IN	01272
				235IN	01548S
				238IN	01450
				239IN	01263
				240EX	01460S
				241EX	01468S
				242IN	01461S
				243IN	01314S
				244IN	01462S
				245EX	00319
				246IN	00318
				247EX	01761S
				248IN	00755
				249IN	00752S
				250IN	00852S
				251EX	00574S
				252EX	00751S
				253EX	01145S
				254IN	01379
				255EX	01378
				256IN	01146S
				257IN	00603
				258EX	00702
				259EX	00326S
				260EX	00602S
				261IN	01534
				262IN	00703
				263EX	01533S
				264EX	01420S
				265IN	01665
				266EX	01664
				267IN	01423
				268IN	10105
				269IN	10103
				270IN	10107
				271IN	10117
				272EX	10104
				273EX	10102S
				276EX	10106
				277IN	10328A
				278EX	10330A
				279EX	10116
				280IN	10162
				281IN	10624
				282IN	10126A
				283IN	10314
				285EX	10625
				286EX	10128A
				287IN	10236
				289IN	10190
				290EX	10315
				292IN	10176
				293EX	10163
				294EX	10237
				296IN	10328A
				297EX	10191
				303IN	10337
				304EX	10177
				305EX	10193
				306IN	10192
				308EX	10338S
				311IN	10172
				312EX	10173S
				313IN	10219
				314EX	10221S
				315EX	10164
				316IN	10255
				317IN	10224
				318EX	10256
				451EX	01500
				452EX	00759
				453EX	01018
				458EX	01570
				459IN	01571S
				6100EX	13161
				6102	00602
				803IN	02014
				805IN	01667
				806EX	01666

Interchange Listing

MARTIN WELLS (Cont'd)					
809IN	01532	W1256	SB2187-1	W2302	SB1375-7
810IN	01663	W1285	SB1625-5	W2310	SB1750-11
812EX	01658S	W1286	SB1812-20	W2335	SB2062-29
813EX	01662S	W1288	SB2062-31	W2346	SB2125-31
814EX	01662SNR	W1288A	SB2125-32	W2363	SB1250-12
823IN	01660	W1290	SB1687-11	W2364	SB1312-3
824IN	01756	W1290A	SB1750-17	W2366	SB1312-5
825EX	01847S	W1301	SB1505E-1	W2371	SB1437-17
826EX	01661S	W1302	SB1442E-2	W2372	SB1437-18
828EX	01659S	W1309	SB1812-10	W2380	SB1500-19
W1000	SB1750-1	W1310	SB1900E-1	W2387	SB1375-6
W1001	SB1125-5	W1316	SB1657E-1	W2388	SB1375-18
W1002	SB1500-5	W1326	SB1803E-1	W2393	SB1312-13
W1004	SB1625-11	W1327	SB1687-40	W2397	SB1562-15
W1006	SB1937-15	W1334	SB2312-1	W2399	SB1375-22
W1009	SB1437-10	W1352	SB1875-11	W2404	SB1437-24
W1010	SB1375-8	W1354	SB1625-20	W2407	SB1500-26
W1011	SB1187-7	W1413	SB1562-3	W2408	SB1562-11
W1017	SB1687-19	W1415	SB2006E-2	W2410	SB1562-0
W1026	SB2220E-1	W1416	SB2131E-1	W2411	SB1437-28
W1031	SB1812-0	W1425	SB1899E-1	W2413	SB1437-30
W1045	SB1500-8	W1436	SB1691E-2	W2416	SB1500-12
W1060	SB1818E-2	W1445	SB1625-35	W2417	SB1500-0
W1061	SB1693E-2	W1455	SB1875-8	W2420	SB1562-35
W1066	SB1687-15	W1457	SB2062-1	W2423	SB1625-29
W1068	SB1687-16	W1462	SB1812-8	W2425	SB1687-23
W1073	SB2006E-1	W1464	SB1812-3	W2428	SB1750-20
W1084	SB1687-13	W1468	SB1500-4	W2429	SB1500-29
W1085	SB1624E-1N	W1470	SB1500-30	W2433	SB1750-23
W1087	SB1875-20	W1502	SB1562-36	W2435	SB1750-24
W1089	SB1437-1	W1648	SB1912E-1	W2436	SB1750-25
W1090	SB2000-7	W1651	SB2250-20	W2438	SB1812-25
W1094	SB1312-2	W1652	SB1486E-1	W2444	SB1687-27
W1095	SB1562-4	W1657	SB1814E-1	W2453	SB1625-33
W1097A	SB2375-15	W1658	SB1670E-1	W2456	SB1625-14
W1099	SB1562-2	W1661	SB1609E-1	W2458	SB1625-0
W1102	SB2000-27	W1672	SB2000-18	W2459	SB1687-29
W1103	SB1161E-1	W1672A	SB2062-27	W2464	SB1625-36
W1104	SB1125-8	W1673	SB1625-11+006	W2470	SB1750-33
W1105	SB1000-2	W1678	SB2062-28	W2472	SB1812-17
W1108	SB2125-34	W1683	SB1625-30	W2476	SB1875-32
W1110	SB2187-11	W1697	SB2020E-1	W2478	SB1875-33
W1146	SB1375-10	W1698	SB1690E-1	W2480	SB1687-32
W1148	SB1500-10	W1699	SB1681E-1	W2481	SB1687-17
W1155	SB2187-12	W1706	SB2125-3	W2482	SB1687-33
W1156	SB1937-7	W1714	SB1375-2	W2485	SB1687-35
W1157	SB2062-5	W1715	SB1687-1	W2486	SB1750-34
W1157A	SB2125-15	W1718	SB1812-19	W2487	SB1750-13
W1159	SB2062-4	W1718A	SB1875-16	W2489	SB1750-36
W1159A	SB2125-16	W1719	SB1687-14	W2494	SB1750-39
W1160	SB1628E-2	W1719A	SB1750-32	W2498	SB1812-10
W1162	SB1262E-1	W1748	SB1937-27	W2503	SB2000-33
W1163A	SB2312-11	W1762	SB1062-4	W2504	SB2000-34
W1166	SB1812-14	W1769	SB1875-53	W2506	SB2062-19
W1167	SB1812-15	W1786	SB1312-11	W2509	SB2125-21
W1168	SB1875-5	W1787	SB1880E-1	W2511	SB1812-38
W1169	SB2000-8	W1794	SB1312-7	W2514	SB1875-17
W1170	SB1875-21	W1798	SB1125-6	W2515	SB1875-18
W1172	SB1875-19	W1803	SB2006E-3N	W2516	SB1937-8
W1176	SB2250-10	W1817	SB1818E-1	W2517	SB2125-26
W1180	SB1062-2	W1818	SB1693E-1N	W2518	SB2250-21
W1185	SB1437-14	W1825	SB1187-4	W2520	SB1875-35
W1186	SB1750-6	W1828	SB2001E-1	W2524	SB1937-17
W1198	SB2444E-1	W1829	SB1628E-1N	W2525	SB1937-30
W1215	SB1687-12	W1831	SB1678E-1	W2528	SB2000-15
W1216	SB1562-18	W1848	SB1125-4	W2529	SB2000-29
W1216A	SB1625-10	W1851	SB1815E-1	W2530	SB2000-4
W1217	SB1125-2	W1868	SB1562-34	W2532	SB2062-22
W1219	SB1250-4	W1905	SB1437-2	W2534	SB2062-23
W1222	SB1562-12	W1906	SB2250-37	W2535	SB2062-24
W1223	SB1312-6	W1921A	SB1500-57	W2543	SB1937-19
W1224	SB1441E-1	W1932	SB1691E-1	W2550	SB2125-7
W1228	SB1744E-1N	W1961	SB1750-38	W2552	SB2125-30
W1255	SB2562-1	W2051	SB1442E-1	W2553	SB2187-15
		W2089	SB1500-71	W2558	SB2000-38
		W2199	SB1625-17	W2559	SB2125-33
					W2568 SB2125-39
					W2574 SB2187-27
					W2578 SB2250-35
					W2902 SB1857E-1
					W2924 SB2006E-5
					W2926 SB2006E-7C
					W2941 SB2129E-2
					W3057 SB1654E-1N
					W3164B SB1437-25
					W3165B SB1312-10
					W3166B SB1562-51
					W3167B SB1437-53
					W3345 SB1312-9
					W3425 SB1812-24
					W3455 SB1671E-1N
					W3459 SB1562-31
					W3501 SB1437-22
					W3527 SB1437-50
					W3528 SB1312-50
					W3530 SB1437-59
					W3539 SB1375-50
					W3540 SB1750-51
					W3541 SB1500-50
					W3542 SB1562-66
					W3543 SB1375-51
					W3544 SB1750-61
					W3545 SB1500-62
					W3551 SB1312-52
					W3552 SB1812-55
					W3553 SB1437-60
					W3554 SB1625-50
					W3555 SB1500-53
					W3556 SB1812-50
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					W3561 SB1812-51
					W3567 SB1500-56
					W3586 SB1375-52
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					W3603 SB1750-60
					W3604 SB1562-54
					W3611 SB1812-54
					W3612 SB1625-53
					W3621 SB1625-64
					W3636 SB1812-52
					W3637 SB1250-50
					W3648 SB1812-53
					W3650 SB1750-59
					W3652 SB1625-52
					W3653 SB1437-56
					W3654 SB1937-51
					W3655 SB1625-58
					W3677 SB1437-51
					W3678 SB1875-57
					W3679 SB1500-73
					W3691 SB1625-63
					W3699 SB1562-9
					W4106 SB1937-12
					W4107 SB1750-12
					W4109 SB2150E-1
					W4110 SB1812E-3
					W4112 SB1669E-1
					W4113 SB1775E-1
					W4114 SB1973E-1
					W4124 SB1500-63
					W4174 SB1312-56
					W4175 SB1312-57
					W4178 SB1437-58
					W4179 SB1500-58
					W4181 SB1562-57
					W4183 SB1625-55
					W4184 SB1625-56
					W4192 SB1815E-1
					W4198 SB2049E-1
					W4199 SB1875-51
					W4201 SB1312-53

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W4204	SB1375-54	W5234	SB1831E-1	W740	SB2000-9	W982	SB2000-2
W4208	SB1630E-1	W5234D	SB1831E-2	W742	SB2187-8	W983	SB1812-12
W4209	SB1781E-1N	W530	SB2125-10	W743	SB2250-7	W985	SB1348E-1N
W4218	SB1687-51	W531	SB1625-2	W744	SB2250-18	W987	SB1437-9
W4451	SB2049E-1	W532	SB2000-6	W744A	SB2312-8	W988	SB2000-0
W4584	SB1784E-1N	W5328	SB1853E-1	W751	SB2062-13	W988A	SB2062-15
W4597	SB1750-65	W533	SB2250-13	W771	SB1125-10	W989	SB1562-5
W4599	SB1062-50	W534	SB1875-2	W786	SB1375-5	W991	SB1812-2
W4600	SB1125-51	W535	SB1562-1	W787	SB1875-7	W992	SB2125-2
W4601	SB1187-51	W536	SB1687-5N	W792	SB2125-8	W993	SB1937-5
W4602	SB1187-52	W537	SB2250-2	W794	SB2506E-2	W995	SB2312-2
W4603	SB1187-53	W538	SB1437-5	W798	SB1437-4	W997	SB1880E-2
W4604	SB1250-53	W539	SB1937-9	W801	SB1000-1	W999	SB2312-4
W4605	SB1437-61	W540	SB2375-2	W802	SB1125-1		
W4606	SB1437-62	W542	SB1875-12	W803	SB1125-7	MASSEY FERGUSON	
W4607	SB1250-54	W543	SB2187-2	W804	SB1187-1	1001525M01	00249
W4609	SB1250-56	W544	SB1937-4	W805	SB1250-2	100550M91	00210
W4612	SB1312-62	W545	SB1562-13	W806	SB1312-1	11501A	00810
W4613	SB1312-63	W546	SB1625-9	W807	SB1375-3	1508789M01	00170
W4614	SB1312-64	W546A	SB1687-22	W808	SB1375-1	1750070M01	00343
W4616	SB1375-55	W547	SB1687-9	W809	SB1437-8	1750072M01	00486
W4617	SB1375-56	W548	SB2125-6	W811	SB1500-3	1750321M01	00234
W4619	SB1375-60	W550	SB1375-4	W812	SB1562-34	18291A	121-1010
W4620	SB1437-63	W551	SB1812-13	W815	SB1625-15	3124H002	13135
W4622	SB1437-65	W553	SB2000-13	W818	SB1687-8	3142A151	13138
W4623	SB1437-66	W553A	SB2062-11	W819	SB1750-9	3142H071	13137
W4624	SB1437-67	W554	SB2125-11	W820	SB1812-7	3142L081	13136
W4625	SB1437-68	W555	SB2250-9	W8202	SB2051E-4	31431281	00874
W4627	SB1500-70	W557	SB1875-13	W826	SB2000-24	3174A016	160-1569
W4628	SB1500-74	W558	SB1500-2	W828	SB2062-8	712010236	00489
W4629	SB1500-75	W559	SB2062-6	W829	SB2125-1	731151M01	00874
W4631	SB1562-69	W560	SB1437-3	W831	SB2250-12	731152M1	00873
W4633	SB1562-72	W565	SB1812-5	W8400	SB1953E-3	731153M1	160-1542
W4635	SB1562-74	W566	SB1625-4	W8401	SB1953E-2C	731154M1	160-1543
W4638	SB1625-62	W567	SB1687-7	W868	SB1187-2	731155M1	121-1051
W4641	SB1687-54	W570	SB1847E-1	W871	SB2088E-1	731704M91	00874
W4642	SB1687-55	W571	SB2250-5	W873	SB1750-2	731705M91	00873
W4643	SB1687-56	W580	SB1516E-1	W874	SB2000-1	731769M91	00874
W4647	SB1750-68	W584	SB1640E-1	W874A	SB2062-25	731770M91	00873
W4650	SB1875-54	W592	SB2125-0	W875	SB1500-11	732812M01	00873
W4652	SB2000-50	W593	SB1562-16	W876	SB1500-6	732867M91	00874
W4653	SB1812E-4	W595	SB1937-3	W877	SB1625-8	732868M91	00873
W4655	SB1750-59	W595A	SB2000-11	W881	SB2187-9	733818M01	00882A
W4656	SB2125-38	W605	SB2000-12	W886	SB1750-5	739027M01	00883
W4659	SB1625-59	W606	SB2312-6	W886A	SB1812-11	740465M1	160-1496
W4660	SB1312-59	W6103	SB1951E-1	W9027	SB2126E-2	740467M1	160-1497
W4661	SB1937-52	W611	SB1750-8	W9028	SB1857E-2	740671M1	VL549
W4662	SB1562-67	W612	SB1750-15	W9029	SB1554E-1	760683M01	00196
W4670	SB1819E-1	W626	SB1500-13	W9032	SB1554E-2	830487M91	00343
W4671	SB1812-56	W628	SB1250-3	W906	SB2000-17	830488M91	00486
W4850	SB1727E-2N	W628A	SB1312-4	W907	SB2187-3	830489M91	00486
W502	SB1562-7	W629	SB1812-18	W913	SB2000-3	830725M91	00489
W5020	SB1823E-1	W630	SB2062-9	W914	SB2250-1	830726M91	00234
W5021	SB1695E-1	W630A	SB2125-12	W917	SB2250-8	830845M91	00170
W5022	SB1933E-2	W634	SB1875-14	W918	SB2000-25	830857M91	00196
W5025	SB1811E-2N	W634A	SB1937-20	W919	SB2000-20	840197M91	00810
W5025	SB1811E-3	W635	SB1562-17	W920	SB2250-1	840199M91	00810
W503	SB1500-1	W637	SB2506E-1	W922	SB2062-3	840200M91	00196
W504	SB1625-3	W640	SB1750-0	W926	SB1812-4	840753M91	121-1010
W505	SB1625-1	W640A	SB1812-16	W927	SB1875-6	840913M91	00210
W5056	SB1856E-1	W645	SB1437-6	W927A	SB1937-6		
W507	SB1750-7	W645A	SB1500-9	W937	SB2187-4	MAZDA	
W508	SB1750-4	W649	SB1625-7	W938	SB1750-3	010712111	13061
W509	SB1687-3	W655	SB1937-1	W940	SB2312-9	010712121	13062S
W511	SB1875-9	W663	SB1687-6	W942	SB1062-3	029012111C	10061
W5114	SB1722E-1	W682	SB1630E-1	W946	SB1062-5	029012111D	10061
W512	SB2000-10	W682A	SB1687-4	W948	SB2000-14	030512121A	10060S
W513	SB1812-1	W687	SB1625-18	W948A	SB2062-21	055012114	160-1513
W514	SB1875-1	W698	SB2187-7	W949	SB1187-5	055212127	122-1382
W514A	SB1937-2	W699	SB1250-1	W964	SB1625-6	063610104B	140-8013
W515	SB2000-16	W702	SB1562-8	W965	SB1750-10	1F0110155	122-1358
W519	SB1875-0	W711	SB2250-16	W972	SB1875-4	1F0112111	02046
W520	SB2250-15	W712	SB2250-17	W973	SB1687-18	1F0112115	160-1437
W5213	SB1692E-1N	W730	SB1687-2	W977	SB2435E-1	1F0112121	02047
		W738	SB1937-10	W978	SB2590E-1		
		W739	SB1937-0	W979	SB2062-2		

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1F0112130	180-1315	F8011214C	160-1097	ZZM112121	01535	MPR302	190-1421
1F0410155	122-1357	F8011215A	160-1096	ZZM112130	180-1315	MPR305	190-1385
1F2210155	122-1348	F80112121	10237	ZZM112431	VL100	MPR306	192-1322
1F221215A	160-1504	F80123090	140-8172	ZZM212114	121-1024	MPR307	190-1411
1F2212121A	01914	F80412121	10237	ZZM312111	01743	MPR308	190-1396
1F2212431	VL176	F8B512100B	VL146	ZZM312114	121-1084	MPR309	190-1395
1F2512130	180-1325	FB0123200	140-8172	ZZM312121	01744	MPR309B	190-1478
22112123	121-1026	FS011211A	10562	ZZM412310	190-1541	MPR310	190-1417
30512121	10060S	FS011211B	10562	ZZM610155	122-1351	MPR311	190-1351
30523090	140-9557	FS011211C	10562	ZZMO23090	140-8274	MPR311A	190-1351+60
55323200	140-8171	FS011212A	10563			MPR311B	190-1351U60
60323200	140-8171	FS011212B	10563			MPR312	190-1426
817310155	122-1132	FSY110280	140-8561	MELLING			
817312121	10060S	G60112111	10243	13039	13039	MPR313	190-1327
817323090	140-8200	G60112121	10244	160-1484	160-1484	MPR314	190-1349
831112114	160-1095	G60212121	10244	46620	160-1144HP	MPR315	190-1328
900525821	10744	GY0112111	01728	47610	121-1003	MPR317	192-1330
900525826	10745	GY0112121	01729	JB171	VL171	MPR318	192-1335
901274805	160-1095	HE1910155	122-1132	JB2000	VL48	MPR321	190-1408
901294804	160-1097	HE1912121	10060S	JB2011	VL89	MPR323	190-1403
901294805	160-1096	JE2612111	10247	JB2012	VL83	MPR324	190-1450
AJ0310155	122-1229	JE2612121	10248	JB2041	170-1012	MPR325A	190-1422
AJ0310281	140-8560	JF0112100	VL146	JB2056	VL109	MPR326	192-1381
AJ0312100	VL107	JFY112100	VL146	JB2070	VL81	MPR327	190-1384
AJ0312111	01787	KL0110155	122-1246	JB2077	VL73	MPR333	190-1440
AJ0312111A	01787	KL0112101B	VL149	JB2079	VL115	MPR335	190-1433
AJ0312114	121-1082	KL0112111A	10550	JB2083	VL9	MPR335A	192-1442
AJ0312121	01788	KL0112111B	10550	JB2084	VL31	MPR337	190-1435
AJ0312125A	160-1490	KL0112121	10551	JB2088	VL554	MPR339	190-1443
AJ0312130A	180-1333	KL0112121A	10551	JB2089	VL565	MPR342	192-1444
AJTM12125	160-1490	KL0210155	122-1285	JB2095	VL88	MPR343	192-1446
AM01109V50	SB1875-51	L3K910155A	122-1454	JB2102	VL94	MPR344	190-1449
AM15109V6	SB1625-56	L3K9101F5A	122-1455	JB2104	VL86	MPR345	192-1453
AM1512111	10145	L3K912111	13305	JB2105	VL114	MPR347	192-1453
AM15129X0	VL141	L3K912121C	13306	JB2107	VL87	MPR34B	192-1331
B30112111	10118	L3K912121D	13306	JB217	VL121	MPR353	190-1454
B30112121	10153	L3Y110281	140-3162	JB2205	VL100	MPR356	190-1522
B62010280	140-8187	L50612121	02007	JB2217	VL113	MPR358	190-1489
B63010155	122-1149	L80710155	122-1410	JB2225	VL106	MPR359	192-1322
B66010155	122-1147	LF0110155	122-1410	JB2236	VL116	MPR35AB	190-1269
B66012101	VL149	LF01101F5	122-1411	JB2240	VL173	MPR363	190-1467
B66012111	10157	LF0112111	02006	JB2244	VL150	MPR365	190-1489
B66012121	10159	LF0112114	121-1104	JB2250	VL141	MPR366	190-1473
B69512111	10157	LF0112121	02007	JB2252	VL150	MPR367	190-1500
B69512121B	10159	LF0112125	160-1506	JB2254	VL146	MPR369	190-1469
B6S712111	10157	LF0212114	121-1104	JB2270	VL138	MPR370	190-1531
B6Y010290	140-8205	LF0212121A	02007	JB2271	VL107	MPR371	190-1502
B6Y110281	140-8205	LF0212121F	02007	JB6003	VL119	MPR372	192-1480
B6Z010280	140-8187	LF5012125A	160-1568	JB6050	VL120	MPR373	192-1485
B6Z010290	140-8186	YF0910155	122-1342	JB6051	VL124	MPR374	192-1484
B6Z110180	140-8173	YF0912111	01745	JB6053	VL149	MPR375	192-1481
B6Z110280	140-8173	YF0912114	121-1101	JB7003	VL163	MPR376	192-1482
BP0512111	10234	YF0912121	160-1580	JB7504	VL178	MPR378	190-1455
BP0512111A	10234	YF0912125	160-1581	JB7504	VL180	MPR379	192-1339
BP0512121	10235	YF0912125	160-1581	JB7520	VL562	MPR380	192-1338
BP0512121A	10235	Z5Y110280	140-8587	JB7525	VL561	MPR381	190-1507
BP0512125	160-1250	ZCC112111	01787	JB812	VL8	MPR384	192-1491
BP0612111	10234	ZCC112121	01788	JB817	VL37	MPR387	190-1433+35
BP0612111A	10788S	ZCC312121A	02007	JB846	VL5	MPR389	190-1433+60
BP1B12111	10788S	ZDD212111	01787	JB892	VL21	MPR405	190-1450+15
CA0112111	13225	ZDD212121	01788	JB900	VL35	MPR424	190-1478
CA0112121	13226	ZZDA12111	02006	JB945	VL32	MPR434	190-1511
CY0110155A	122-1427	ZZJ110155B	122-1427	JB951	VL49	MPR435	190-1509
CY0112125A	160-1599	ZZJ112111	13225	JB976	VL64	MPR437	192-1442
E9226510A	140-8142	ZZJ112121	13226	JB992	VL63	MPR438	190-1532
EVMA26	01729	ZZL010155	122-1067	MPR103B	190-1433	MPR44	192-1337
F20112111	10162	ZZL012111	10387	MPR105	192-1229	MPR44A	192-1336
F20112121A	10163	ZZL012115	160-1264	MPR152	190-1237	MPR45	192-1377
F20212111	10162	ZZL012121	10388	MPR155	190-1342	MPR456	190-1427
F21012121A	10164	ZZL012130	180-1008	MPR201	190-1370	MPR45A	192-1378
F21012121B	10164	ZZL012431	VL150	MPR274	190-1425	MPR460	192-1505
F2212111A	01913	ZZM012111	01598	MPR279	192-1321	MPR462	190-1525
F2Y1230910	140-8142	ZZM012121	01597	MPR280	192-1399	MPR463	190-1527
F80112111A	10236	ZZM012431	VL83	MPR281	192-1409	MPR464	190-1528
		ZZM112111	01536	MPR282	192-1462	MPR465	190-1524
		ZZM112113	121-1024	MPR301	190-1429	MPR471	190-0471
						MPR610	190-1539

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MELLING (Cont'd)							
MPR71	190-1221	MRM1783	183-1024	V0593	00593	V1098	01098
MPR73	190-1543	MRM1786	184-1038	V0598	00598S	V1102	01102
MPR80	190-1222	MRM1791	184-1039	V0600	00600	V1103	01103
MPR81	190-1280	MRM1793	184-1040	V0601	00601	V1104	01189
MR1345	180-1335	MRM1796	184-1038	V0602	00602	V1105	01105
MR1850	180-1028	MRM1797	183-1026	V0603	00603	V1106	01106
MR700	180-1004	MRM1798	183-1027	V0608	00608	V1106+15	01106+15
MR710	180-1029	MRS641	186-1090	V0609	00609	V110615	01106+15
MR740	180-1236	MRS661	186-1100	V0627	00627	V1107	01107
MR810	180-1037	V0121	00121	V0637	00637	V1120	01120
MR813	180-1040	V0122	00122	V0658	00658	V1131	01131
MR814	180-1041	V0154	00154	V0659	00659	V1133	01133S
MR819	180-1012	V0155	00155	V0678	00678	V1135	01135
MR842	180-1228	V0159	00159	V0679	02084	V1135+15	01135+15
MR849	180-1304	V0160	00160	V0690	00690	V1135+3	01135+3
MR850	180-1055	V0168	00168	V0691	00691	V113515	01135+15
MR851	180-1056	V0169	00169	V0696	00696	V11353	01135+3
MR859	180-1059	V0170	00170	V0696+15	01195+15	V1137	01137
MR867	180-1229	V0185	00185	V0696+3	01195+3	V1145	01145S
MR876	180-1237	V0193	00193	V0702	00702	V1146	01146S
MR886	180-1238	V0196	00196	V0703	00703	V1147	01147
MR888	180-1233	V0203	00203	V0742	00742	V1148	01148
MR889	180-1234	V0204	00204	V0753	00753S	V1152	01152
MR892	180-1077	V0205	00205	V0755	00755	V1156	01156
MR893	180-1078	V0210	00210	V0758	00758	V1160	01160
MR894	180-1079	V0212	00212	V0759	00759	V1161	01161
MR897	180-1080	V0220	00220	V0793	00793	V1164	01164
MR900	180-1292	V0230	00230	V0808	10808	V1171	01171
MR923	180-1007	V0234	00234	V0809	10809	V1172	01172
MR925	180-1207	V0249	00249	V0810	00810	V1177	01177S
MR926	180-1283	V0270	00270	V0811	10811	V1179	01179
MR927	180-1008	V0302	00302	V0813	10813	V1180	01180
MR928	180-1318	V0303	00303	V0816	10816	V1186	01186
MR929	180-1284	V0308	00308	V0817	10817	V1192	01192
MR930	180-1288	V0312	00312	V0867	00867	V1192+15	01192+15
MR931	180-1313	V0313	00313	V0873	00873	V1192+3	01192+3
MRDS943	184-1021	V0318	00318	V0874	00874	V119215	01192+15
MRDS944	184-1022	V0319	00319	V0882	00882A	V11923	01192+3
MRDS945	184-1023	V0326	00326S	V0883	00883	V1194	01194
MRDS948	184-1025	V0327	00327	V0912	00912	V1195	01195
MRK401	181-1011	V0343	00343	V0917	00917SN	V1195+15	01195+15
MRK402	181-1012	V0348	00348	V0918	00918	V1195+3	01195+3
MRK405	181-1014	V0349	00349	V0919	00919	V119515	01195+15
MRK407	181-1016	V0373	00373	V0921	00921	V11953	01195+3
MRK409	181-1017	V0375	00375	V0922	00922	V1199	01199
MRK410	181-1018	V0376	00376	V0938	00938	V1200	01200
MRK416	181-1008	V0399	00399	V0947	00947	V1203	01203
MRK434	181-1020	V0399+15	00399+15	V0949	00949	V1204	01204
MRK450	181-1021	V039915	00399+15	V0963	00963	V1205	01205S
MRK511	181-1023	V0400	00400	V0965	01177S	V1206	01206S
MRK532	181-1025	V0400+15	00400+15	V0969	00969	V1212	01212
MRK5401	181-1057	V0400+3	00400+3	V0970	00970	V1217	01217S
MRK5412	181-1028	V040015	00400+15	V0974	00974	V1233	01233
MRK543	181-1020	V04003	00400+3	V0975	00975	V1234	01234
MRK5442	181-1032	V0411	00411	V0976	00976	V1235	01235S
MRK547	181-1034	V0485	00485	V0988	00988	V1237	01237
MRK548	181-1035	V0486	00486	V0989	00989	V1238	01238
MRK5502	181-1059	V0489	00489	V0996	00996S	V1241	01241SN
MRK5512	181-1037	V0494	00494	V0997	00997	V1242	01242
MRK600	181-1040	V0503	00503	V1000	01000	V1245	01245
MRK610	181-1041	V0504	00504	V1001	01001	V1257	01257
MRK650	181-1060	V0514	00514	V1002	01002	V1258	01258
MRK651	181-1061	V0518	00518	V1017	01017S	V1260	01260
MRM1719	183-1014	V0520	00520	V1041	01041	V1261	01261S
MRM1720	184-1032	V0530	00530SN	V1047	01047	V1263	01263
MRM1721	183-1015	V0531	00531S	V1048	01048	V1265	01265
MRM1723	184-1033	V0548	00548	V1055	01055	V1266	01266
MRM1724	187-1014	V0549	00549	V1057	01057S	V1266+15	01266+15
MRM1731	183-1017	V0550	00550	V1073	01073	V1268	01268
MRM1740	184-1034	V0559	00559S	V1075	01075S	V1269	01169
MRM1741	184-1035	V0560	00560	V1081	01188	V1270	01170
MRM1772	183-1030	V0564	00564	V1082	01082	V1271	01271
MRM1773	183-1021	V0567	00567	V1083	01083	V1272	01272
MRM1776	183-1022	V0574	00574S	V1084	01084	V1285	01285
		V0585	00585	V1087	01087	V1288	01288
		V0592	00592	V1097	01097	V1289	01289

Interchange Listing

MELLING (Cont'd)							
V1292	01292	V1480	01480	V5056	10056	V5269	10269
V1293	01293	V1481	01481	V5060	10060S	V5270	10270
V1294	01294S	V1482	01482S	V5061	10061	V5271	10271
V1296	01296	V1483	01483S	V5064	10064	V5273	10273
V1300	01300	V1484	01484	V5065	10065	V5274	10274S
V1303	01597	V1500	01500	V5070	10070	V5275	10275
V1304	01598	V1504	01504	V5076	10076	V5276	10276S
V1305	01305S	V1505	01505	V5078	10078	V5281	10281
V1307	01307	V1506	01506S	V5083	10083	V5282	10282
V1309	01309	V1507	01507	V5086	10086	V5284	10284
V1312	01312S	V1525	01525S	V5087	10087	V5285	10285S
V1322	01322	V1526	01526	V5102	10102S	V5307	10307
V1323	01323	V1527	01527	V5103	10103	V5308	10308
V1324	01324	V1528	01528	V5104	10104	V5310	10310
V1325	01325	V1535	01535	V5105	10105	V5311	10311
V1326	01326	V1536	01536	V5106	10106	V5314	10314
V1327	01327	V1537	01537	V5107	10107	V5315	10315
V1328	01328	V1538	01538	V5116	10116	V5322	10322
V1328+3	01328+3	V1542	01542	V5117	10117	V5323	10323
V1329	01329	V1543	01543	V5118	10118	V5328	10328A
V1332	01332	V1545	01545	V5126	10126A	V5330	10330A
V1336	01336S	V1546	01546	V5127	10127	V5337	10337
V1340	01320	V1547	01547	V5128	10128A	V5338	10338S
V1348	01348	V1548	01548	V5129	10129	V5339	10339SA
V1354	01354	V1550	01550	V5141	10141	V5340	10340A
V1357	01357	V1551	01551	V5142	10142	V5342	10342S
V1358	01358	V1552	01552	V5143	10143	V5348	10348
V1361	01361	V1553	01553	V5144	10144	V5349	10349S
V1362	01362	V1554	01554	V5145	10145	V5356	10356S
V1366	01366	V1555	01555	V5146	10146	V5367	10367
V1367	01367	V1556	01556	V5147	10147	V5385	10385
V1368	01368S	V1557	01557	V5148	10148	V5386	10386
V1375	01375	V1560	02058	V5153	10153	V5387	10387
V1377	01377	V1561	02057	V5157	10157	V5388	10388
V1378	01378	V1568	01568	V5159	10159	V5413	10413
V1379	01379	V1569	01569	V5162	10162	V5520	10520
V1380	01380	V1578	01578S	V5163	10163	V5521	10521
V1381	01381	V1591	01591	V5164	10164	V5522	10522
V1382	01382	V1592	01592	V5169	10169	V5536	10536
V1383	01383SN	V1646	01646S	V5170	10170	V5541P	10541
V1384	01384S	V1648	01648	V5172	10172	V5542P	10542
V1385	01385SN	V1649	01649	V5173	10173S	V5560	02036
V1386	01386S	V1670	01670	V5176	10176	V5806	10806
V1388	01388	V1671	01671	V5177	10177	V5807	10807
V1389	01389	V1673	01673	V5190	10190	VL100	121-1000
V1393	01393	V1674	01674	V5191	10191	VL1093	121-1093
V1394	01394	V1675	01675	V5192	10192	VL1097	121-1097
V1395	01395	V1698	01698	V5194	10193	VL1125P	121-1104
V1397	01397	V1699	01699	V5195	10195	VL200	121-1003
V1398	01598	V1702	01702	V5196	10196	VL300	121-1007
V1399	01399	V1703	01703	V5197	10197A	VL400	121-1014
V1403	01403	V1705	01705	V5198	10198A	VL530	121-1002
V1417	01417	V1710	01710	V5214	10214	VL570	121-1011
V1419	01419	V1711	01711	V5215	10215S	VL590	121-1009
V1429	01429S	V1714	01714	V5216	10216	VL600	121-1047
V1431	01431S	V1715	01715	V5217	10217	VL650	121-1052
V1432	01432	V1735	01735	V5218	10218	VL669	121-1026
V1437	01814	V1737	01737	V5220	10220S	VL670	121-1019
V1438	01813	V1858	01858	V5222	10219	VL700	121-1024
V1441	01441	V1918	01918	V5223	10221S	VL710	121-1021
V1442	01442	V1920	01920	V5224	10224	VS1000	160-1028
V1448	01448	V1924S	01924S	V5226	10226	VS1011	160-1069
V1449	01449	V1925S	01925S	V5227	10227S	VS1020	160-1031
V1450	01450	V2014	02014	V5228	10228	VS1040	160-1141
V1451	01451	V2194	02194	V5229	10229	VS1040P	160-1141
V1452	01452	V2195	02195	V5234	10234	VS1060	160-1033
V1457	01457	V3006	13006	V5235	10235	VS1080	160-1210
V1462	01462S	V3038	13038	V5236	10236	VS1090	160-1064
V1468	01468S	V3047	13047	V5237	10237	VS110	160-1117
V1469	01469	V3255	13255	V5241	10145	VS1100	160-1049
V1470	01470	V5015	10015	V5242	10146S	VS1110	160-1014
V1478	01478	V5031	10031	V5243	10243	VS1120	160-1150
V1479	01479	V5033	10033S	V5244	10244	VS1130	160-1152
		V5036	10036S	V5255	10255	VS1140	160-1233
		V5037	10037	V5256	10256	VS1140P	160-1233
		V5048	10048	V5268	10268	VS120	160-1118

Interchange Listing

NAVISTAR/IHC TRUCK (Cont'd)							
160908R1	160-1405	1835235C1	240-1034GP	387095C1	VL89	795713R1	140-1976
1700591C1	SB1973E-1	1835655C1	161-1059	391936C1	00560	796122R1	140-1977
1700609C1	SB1775E-1	1835851C1	SB1584E-1	401065C1	180-1291	8044D	140-1547N
1701325C1	01648	1835852C1	SB1480E-2	404064C1	180-1290	8049DR	140-1545N
1804330C1	01543	1835858C1	160-1489	406723R1	160-1478	8198DR	140-1579
1804330C2	01543	1837731C1	02179	41339D	121-1007	83481R1	00600
1804338C1	190-1531	1837732C1	02180	42024D	00162	874913R2	140-1968
1804420C91	122-1330	1838034C1	160-1458	42025DA	00161	874918R2	01133S
1804468C1	01542	1839968C1	13002	428046C1	140-7336	911776	170-1012
1805249C1	SB1669E-1	1839970C1	13003	444829C1	01260	911776R3	170-1012
1805407C1	140-7689	1841095C1	240-1033	446418C1	01432		
1805917C1	01542	1841538C1	140-3079	446571C1	VL89		
1809323C1	01542	1841566C1	121-1085	446723C1	140-7174		
1809417C91	181-1060	1842137C1	SB1584E-1	446854C1	01431S		
1810086C1	01574S	1842138C1	SB1480E-2	446856C1	SB1654E-1N		
1810086C2	01574S	1842145C2	13003	448202C1	01508		
1810944C1	121-1011	1842146C1	160-1489	448219C2	140-7457		
1811191C1	01542	1842912C1	01946S	448229C1	140-7456		
1811191C2	01542	1842913C1	02131	448453C2	01507		
1811191C3	01542	1850019C1	140-3079	448454C1	01506S		
1811581C91	161-1033	1854006C1	13182	481812C1	01152		
1814280C1	01786	1854007C1	13183	487879C1	01507		
1814376C1	240-1026	1873916C2	190-1548	488428C1	01432		
1814424C1	01785	1889589C1	122-1460	489101C4	01649		
1815264C1	140-8188	217158R91	VL32	489102C2	01648		
1815374C1	122-1301	217158R92	VL32	50706DA	00193		
1816179C91	122-1333	234275R1	00600	50707DA	00205		
1816638C2	01754	234276R1	00601	50731DA	00204		
1818579C1	01900S	237248R1	140-1747	50732DA	00203		
1818580C1	01899	24544DA	160-1604	535229R1	140-6990		
1818778C1	240-1025	251260R1	00230	57797D	00313		
1818778C2	240-1025	251261R2	00485	57798D	00312		
1818778C3	240-1025	251261R3	00485	6088D	140-1543		
1820264C1	140-8476	251262R1	160-1503	612312C1	00921		
1820826C91	161-1049	277577R1	140-6913	612313C1	00923		
1821900C1	SB1823E-1	278301R1	00593	6169D	140-1544		
1821900C3	SB1823E-1	278302R1	00592	61868R11	121-1009		
1821901C1	SB1823E-1	278370R1	140-1881	62264VA	160-1285		
1821902C1	SB1823E-1+015	3055022R2	140-7548	62265VA	160-1286		
1821903C1	SB1811E-2N	3055055R2	10766	6338D	140-1546		
1821903C3	SB1811E-2N	3055056R2	10767S	6608DR	140-1578		
1821905C1	SB1811E-2N+015	3055057R91	121-1126	670301C1	SB1727E-2N		
1821905C3	SB1811E-2N+015	3055060R1	160-1492	670308C1	00924		
1821905C5	SB1811E-2N+015	3055344R1	240-1032	671559C1	SB2001E-1		
1822245C1	122-1300	3136915R2	10767S	671561C1	SB2001E-1+013		
1822862C1	140-8476	313774R1	00922	671563C1	SB1628E-1N		
1823452C1	01786	315744R1	160-1300	671565C1	SB1628E-1N+013		
1823453C1	01785	317365C11	160-1206	671599C1	SB1536E-2N		
1823875C1	01945	323774R1	00922	671601C1	SB1536E-2N+015		
1823875C2	01945	323800R1	00921	671602C1	SB1782E-1		
1823875C3	01945	326503R1	240-1031	671604C1	SB1782E-1+015		
1823925C1	122-1320	326505R3	140-1957	675043C1	SB1999E-1		
1824642C1	01943	328300R1	00592	675043C1	SB2001E-1		
1824642C2	01943	341350R1	00923	675046C2	01423		
1824644C1	121-1091	343433R1	00924	675046C4	01423		
1824646C1	140-3006	343433R2	00924	675439C1	140-7431		
1824647C1	140-8188	349025R1	SB1657E-1	675441C1	SB1782E-1		
1824680C1	161-1046	349381R1	00921	675442C1	240-1024		
1824683	122-1426	352177C1	01152	675450C1	SB1628E-1N		
1824683C1	122-1426	352973R2	140-1636	675450C3	SB1626E-1N		
1824838C1	01900S	352973R3	140-7408	675573C2	01519		
1824840C1	01946S	356583R1	140-1804	675573C3	01519		
1824840C2	01946S	357547R1	00485	675574C3	01520		
1824842C1	01944S	362435R1	00428	675576C1	SB1536E-2N		
1825540C1	160-1417	362436R1	00427S	676687C1	01520		
1826471C1	02131	366302R1	00504	676687C2	01520		
1826471C2	02131	366302R2	00504	676687C4	01520		
1827121C2	SB2001E-2	366303R1	00503	676865C2	01422S		
1828289C1	121-1105A	366303R2	00503	676865C3	01422S		
1828320C1	240-1034	366303R4	00503	676865C4	01422S		
1830711C1	SB1811E-3	367191R1	01075S	677349C1	160-1416		
1833382C1	240-1027	368450R1	160-1494	681234	122-1177		
1833432C1	122-1460	372699R1	01075S	681234C1	122-1177		
		372699R2	01075S	682064C1	160-1190		
		372699R3	01075S	684729C1	170-1012		
		379089C1	SB2000-3N	76954R1	160-1287		

NEW HOLLAND	
8702143	01695S
87800340	01695S
SBA110136300	SB1558E-1PM
SBA120116160	VL574
SBA120166350	13326
SBA120166380	13326
SBA120176360	13327
SBA120176380	13327
SBA120406050	122-1465
SBA120406070	122-1464
SBA198216700	160-1638
SBAU10136460	SB1400E-1PM

NISSAN/INFINITI	
1109801M00	SB1562-66
1109807W10	SB1812-54
1109808U10	SB1500-77
1109810W10	SB1812-56
1109840F60	SB1500-53
1109853F60	SB1500-74
1109853F61	SB1500-74
1109857Y60	SB1250-54
1109877A60	SB1250-50
1109897E60	SB1500-77
11098F6510	SB1500-74
11098H7503	SB1562-66
11098K0400	SB1812-50
11098K0510	SB1625-50
11098N4210	SB1750-52
11098N6810	SB1812-50
11098U8710	SB1812-51
11098U8711	SB1812-51
11098V5210	SB1812-55
11098V5211	SB1812-55
1109901M01	SB1312-57
1109901M02	SB1312-57
1109910W10	SB1625-60
1109915M01	SB1312-62
1109916A10	SB1375-55
1109921011	SB1500-53
1109940F60	SB1687-56
1109945V10	SB1312-63
1109945V11	SB1312-63
1109953F60	SB1312-52
1109953Y60	SB1062-50
1109953Y61	SB1062-50
1109960U60	SB1375-60
1109984A60	SB1375-51
1109988A60	SB1375-51
1109997E60	SB1312-52
11099A8610	SB1500-53
11099D4210	SB1250-56
11099H6210	SB1312-52
11099N6800	SB1500-54
11099N6810	SB1500-54
11099U0610	SB1500-54
11099V0700	SB1437-61
11099V0710	SB1437-61
11099W0410	SB1625-53
1201030W01	140-7828
1201083W01	140-7828
1320101W00	10748

Interchange Listing

NISSAN/INFINITI (Cont'd)					
1320240P00	10285S	13203JA00C	160-1591	13212C6001	140-3088
1320242	10282	13203T7200	160-1482	13212D0110	140-7826
1320243G01	13059	13203VB005	160-1565	13212D0111	140-7826
1320250K00	02244	13203W0400	160-1053	13212DO111	140-7826
1320250K02	02244	13203ZX00C	160-1591	13212F6560	140-8543
1320253F00	10227S	132040B000	160-1052	13212FY500	140-7826
1320253F01	10227S	1320423000	160-1013	13212H2311	140-7545
132025M000	10536	1320440F00	122-1159	13212H8510	140-7545
1320264Y00	10229	1320440F01	160-1271	13212V5010	140-8388
1320269A00	10256	1320440F11	160-1273	13212V5011	140-7873
1320275001	13134S	1320442L00	160-1052	13212V5011	140-8388
132027B000	10282S	13204VB005	160-1564	13212W0500	140-7828
132027S000	13238	13204W7000	160-1052	13212W0510	140-7828
132027S01A	13238	1320701M01	122-1141	1321301M11	140-8192
132028J10A	13238	132070B000	122-1139	1321301W00	140-7498
132028J110	13238	132070B010	122-1263	1321303J10	140-3092
132028J111	13238	1320721002	122-1119	1321321011	140-7499
132029E000	10793S	132072B500	122-1262	1321330001	140-7498
132029N00A	13221	132073Z000	122-1150	1321330002	140-7498
13202C8000	13232S	1320740F00	122-1159	1321331U60	140-8217
13202C8700	10289S	1320742L00	122-1119	1321340F60	140-8212
13202D0100	10271	1320753F00	122-1139	1321344F60	140-8217
13202D1200	10271	1320753G00	122-1139	1321353F60	140-8204
13202ED00C	13234	1320753Y00	122-1162	1321353Y60	140-8213
13202EN20B	13214	1320755Y00	122-1162	13213C6000	140-3089
13202EN20C	13399	1320758000	122-1431	13213C6001	140-3089
13202EN20D	13399	1320766700	122-1377	13213D0110	140-7827
13202EN20E	13214	1320766U10	122-1159	13213D0111	140-8233
13202F6511	10285S	1320776203	122-1377	13213D4260	140-8191
13202FU400	13085	1320777A00	122-1158	13213F6560	140-8544
13202H1000	10034S	1320781W00	122-1119	13213H1000	140-7542
13202H6200	10033S	1320781W00	122-1263	13213H2311	140-7542
13202JA00A	13080	1320784A00	122-1150	13213U0110	140-7499
13202JA10A	13221	13207AA050	122-1180	13213V1700	140-8209
13202JA15A	13080	13207B1500	122-1387	13213V5010	140-8389
13202JG30A	13080	13207C6000	122-1387	13213V5513	140-7827
13202JK21A	13221	13207CJ40A	122-1433	13213W0410	140-7828
13202JK21B	13221	13207D0100	122-1139	13213W0500	140-7828
13202L2000	10276S	13207D0111	122-1139	13213W0510	140-7828
13202N0400	10036S	13207D4200	122-1150	13214L2000	SB1625-59
13202N0401	10036S	13207D4201	122-1150	13215L2000	SB1500-70
13202N0410	10036S	13207ED000	122-1433	13215L2010	SB1500-70
13202N0411	10036S	13207ET000	122-1162	13215Y5200	SB1437-60
13202N8500	10269	13207U67U10	122-1159	13231H6200	122-1082
13202P5100	10753	1321001M01	121-1059	13231V5004	VL121
13202P7900	10278S	1321016A00	121-1067	13231V5005	VL121
13202P7901	10278S	1321040F00	121-1062	13231V5014	VL121
13202T9000	13134S	132104F100	121-1064	1325740F06	180-1240
13202V5210	10282	1321053Y00	121-1064	1325740F07	180-1265
13202V6510	10282	13210D4200	121-1063	1325740F16	180-1266
13202VC000	13066	13210U0100	121-1047	1325740F17	180-1267
13202VJ200	10793S	13210ZX00G	121-1064	13257V5001	180-1264
13202Y5200	10289S	1321101W10	140-7495	F3XY6510B	140-8389
13202Z7001	10289S	1321130001	140-7495		
132030B000	160-1216	13211AA030	122-1187		
1320321002	160-1516	13211AA050	122-1181		
132033RC0A	160-1658	13211ET00A	160-1590		
132033RC0C	160-1659	13211ET00C	160-1600	106608A	140-1947
132033Z005	160-1590	13211H1000	140-7545	106609A	140-1953
132033Z015	160-1591	13211JG30A	160-1590	106612A	140-1954
1320340F01	160-1272	13211JG30C	160-1591	106620A	140-1927
1320340F11	160-1274	13211V1700	140-8209	106623A	140-1923
1320342L03	160-1216	13211Z5001	140-3086	141021	140-1618
1320343G10	160-1518	1321201M01	140-7825	159187A	00882A
1320348600	160-1515	1321201M11	140-7825	159188A	00883
1320350K00	160-1136	1321203J10	140-3091	164028A	140-1965
1320353Y00	160-1327	1321215M01	140-7825	222209	140-1952
1320358S00	160-1326	1321215M11	140-7825	224109	140-1924
1320376200	160-1482	1321221011	140-7499	736296M91	140-1977
13203C8000	160-1517	1321240F60	140-8211	736297M91	140-1976
13203ED000	160-1603	1321253J60	140-8216	840210M91	140-1620
13203F2000	160-1019	1321253Y60	140-8218	BR195B	140-1470
13203FY500	160-1505	1321254T01	140-3093		
13203FY50A	160-1505	1321258S60	140-8190		
13203H1000	160-1014	1321260U60	140-8211		
13203JA00B	160-1590	13212C6000	140-3088		

OLIVER TRACTOR

106608A	140-1947
106609A	140-1953
106612A	140-1954
106620A	140-1927
106623A	140-1923
141021	140-1618
159187A	00882A
159188A	00883
164028A	140-1965
222209	140-1952
224109	140-1924
736296M91	140-1977
736297M91	140-1976
840210M91	140-1620
BR195B	140-1470

OPEL

641022	10784
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Interchange Listing

PEP							
5005B	140-7908	C1745	140-1745	C3012	140-3012	C5016BG	140-9850
B1831	140-7999	C1747	140-1747	C3014	140-3014	C5016G	140-9964
B1846	140-8256	C1804	140-1804	C3017	140-3035	C5017	140-7298
B3053	340-1046BR	C1809	140-1809	C3018	140-3036	C5019FG	140-9460
B349F	140-8558	C1810	140-1810	C3019	140-3019	C5019G	140-9460
B350F	140-8139	C1823	140-1823	C3021	140-3021	C5020	140-6869
B350VETT	140-8180	C1825	140-1973	C3022	140-3022	C5022	140-6116
B365	140-8115	C1826	140-1972	C3023	140-3023	C5027	140-7715
B366	140-8114	C1826	140-9972	C3024	140-3024	C503	140-8018
B5005A	140-5607	C1826G+3	140-9972+3	C3025	140-3025	C504	140-7527
B5005BG	140-9908	C1831	140-7999	C3028	140-3028	C5040	140-7679
B5006A	140-5606	C1832	140-1832	C3031	140-3031	C5045	140-1527
B5006AG	140-9606	C1833	140-1833	C3032	140-3032	C506	140-8193
B5006BG	140-9907	C1839	140-1839	C3033	140-3033	C510	140-8207
B5009PER	140-6113	C1851	140-1851	C3034	140-3034	C510A	140-8207
B5010	140-6119	C1852	140-1852	C304	140-8143	C510A+2	140-8207+2
B5012G	140-9612	C1853	140-1853	C3046	140-3046	C511	140-8208
B5016A	140-5610	C1854	140-1854	C3047	140-3047	C513	140-8195
B5016B	140-6850	C1858	140-1858	C3048	140-3048	C514	140-8186
B5016BG	140-9850	C1859	140-1859	C3049	140-3049	C515	140-8211
B5018	140-1907	C1860	140-1860	C3053	140-3053	C520	140-8212
B5019	140-7460	C1865	140-1865	C3053+2	140-3053+2	C524	140-8187
B5019G	140-9460	C1872	140-1872	C3055	140-3055	C526	140-8147
B502	140-7528	C1881	140-1881	C3061	140-3061	C528	140-7451N
B5021	140-6109	C1896	140-1896	C3067	140-3067	C528+2	140-7451N+2
B5021G	140-9109	C1897	140-1897	C3070	140-3070	C528+8	140-7662
B5023	140-6114	C1898	140-1898	C3079	140-3079	C531	140-8209
B5025	140-6106	C1899	140-1899	C308	140-7713	C533	140-7429N
B5026	140-6872	C1923	140-1923	C312	140-8021	C533+2	140-7429N+2
B5026G	140-9872	C1924	140-1924	C315	140-7822	C533+8	140-7661
B5027G	140-9715	C1927	140-1927	C315+2	140-7822+2	C535	140-8155
B5028	140-7663	C1937	140-1937	C316	140-7714	C536	140-8544
B5032	140-7546	C1941	140-1941	C316+2	140-7714+2	C537	140-8543
B5033	140-7682	C1942	140-1952	C322	140-9557	C538	140-8158
B5033G	140-8356	C1943	140-1943	C323	140-8200	C539	140-8157
B5036	140-7669	C1946	140-1946	C333	140-7828	C540	140-8194
B5043	140-7260	C1946+2	140-1946+2	C334	140-8388	C540+2	140-8194+2
B5051A	140-7552	C1946+5	140-1946+5	C334+8	140-7873	C544	140-8142
B5052A	140-7279	C1947	140-1947	C335	140-8389	C546	140-8324
B5062	140-8545	C1953	140-1953	C335+8	140-8017	C548	140-8291
B582	140-8013	C1954	140-1954	C338	140-7826	C556	140-8016
B593	140-8219	C1956	140-1956	C339	140-7827	C557	140-8205
B596	140-8292	C1957	140-1957	C350F	140-8139	C558	140-8189
B597	140-8293	C1962	140-1962	C363	140-7589	C559	140-7656
B6107	140-6107	C1966	140-1966	C365	140-8115	C560	140-8038
B624	140-8577	C1969	140-1969	C366	140-8114	C5606	140-5606
B681	140-8556	C1970	140-1970	C368	140-8579	C5607	140-5607
B682	140-8547	C1976	140-1976	C369	140-8156	C563	140-8191
B683	140-8560	C1977	140-1977	C371	140-8039	C568	140-8156
B8112	140-8112	C2009	140-3039	C371+2	140-8039+2	C571	140-8144
C1003	140-6254	C2010	140-3038	C372	140-7825	C587	140-8124
C115	140-8194	C212	140-7499	C373	140-8192	C588	140-8580
C1342	140-1342	C214	140-7495	C409	140-3020	C589	140-8581
C1421	140-1421	C215	140-7498	C420	140-3026	C591	140-8201
C1476	140-1476	C218	140-7545	C420+2	140-3026+2	C593+2	140-8219+2
C1515	140-1515	C219	140-7542	C439	140-3001	C597	140-8293
C1544	140-1544	C222F	140-7359	C491	140-3029	C603	140-8172
C1545N	140-1545N	C242	140-7532	C5001	140-1908	C603+2	140-8172+2
C1546	140-1546	C243	140-7529	C5001G	140-6587	C604	140-8579
C1547N	140-1547N	C271	140-7395	C5005	140-7946	C605	140-8578
C1577	140-1577	C280	140-7576	C5005G	140-9607	C607	140-7830
C1600	140-1600	C281	140-7577	C5005G	140-9946	C608	140-8190
C1614	140-1614	C281+2	140-7577+2	C5006	140-7459	C6106	140-6106
C1618	140-1618	C2811	140-7577	C5006B	140-7907	C6107	140-6107
C1619	140-1619	C286	140-7659	C5006BG	140-9907	C6108	140-6108
C1636	140-1636	C290	140-7574	C5006G	140-9459	C611	140-8274
C1673	140-1673	C2901	140-7574	C5007	140-5604	C6110	140-6110
C1678	140-1678	C291	140-7575	C5007G	140-9604	C6111	140-6111
C1680	140-1680	C291+2	140-7575+2	C5009	140-7298	C6119	140-6119
C1689	140-1689	C291+6	140-7575+6	C5009G	140-9298	C6169	140-8420
C1703	140-1703	C2911	140-7575	C5011	140-7554	C624+2	140-8577
C1717	140-1717	C292	140-7523	C5011G	140-9554	C6254	140-6254
C1726	140-1726	C292+2	140-7523+2	C5012	140-5612	C6254+10	140-6254+10
C1732	140-1732	C297	140-7710	C5012BG	140-9909	C6254+3	140-6254+3
		C3007	140-3007	C5012G	140-9612	C6254+5	140-6254+5
		C3008	140-3008	C5016	140-7964	C627	140-8535

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PEP (Cont'd)							
C628	140-8536	C7712	140-7712	C8592	140-8592	P2279	00548
C632	140-8218	C7736	140-7736	C8593	140-8593	P2298XS	00531S
C637	140-8204	C7813	140-7813	C8594	140-8594	P2310	00567
C643	140-8666	C7822	140-7822	C8658	140-8658	P2348	00637
C644	140-8668	C7823	140-7823	C8659	140-8659	P2383	01242
C645	140-8173	C7847	140-7847	C8663	140-8663	P2456	00742
C647	140-8561	C7892	140-7892	C8670	140-8670	P2469B	00919
C6479	140-6479	C7903	140-7903	C8671	140-8671	P2470	00988
C649	140-8554	C7908	140-7908	C8715	140-8715	P2485	01332
C651	140-8571	C7990	140-7990	C880	140-1880	P2486	00949
C666	140-3046	C7994G	140-7994	C9005	140-7507	P2488XS	01057S
C6730	140-6730	C8004	140-8004	C9006	140-7271	P2494	00970
C680	140-1946	C8008	140-8008	C9009	140-7276	P2495	00969
C681	140-8556	C8010	140-8010	C9106	140-9106	P2498	00974
C681+2	140-8556+2	C8011	140-8011	C9107	140-9107	P2499	01457
C682	140-8547	C8011P	140-8011	C9108	140-9108	P2505	01329
C683	140-8560	C8016	140-8016	C9108H	140-9108H	P2506	00938
C6850	140-6850	C8023	140-8023	C9110	140-9110	P2529	01242
C6867	140-6867	C8038	140-8038	C9111	140-9111	P2530	01266
C688+1	140-3011	C8038+2	140-8038+2	C9113	140-9113	P2533	00963
C689+1	140-3010	C8038P+2	140-8038+2	C9114	140-9114	P2536	01120
C6896H	140-6896H	C8040	140-8040	C9115	140-9115	P2550	01106
C6897H	140-6897H	C8112	140-8112	C9116	140-9116	P2552	01195
C6905	140-6905	C8112+2	140-8112+2	C9119	140-9119	P2563	01000
C6913	140-6913	C8113	140-8113	C9197	140-9197	P2564	01001
C695	140-3009	C8122	140-8122	C9198	140-9198	P2605	01260
C695+2	140-3009+2	C8128	140-8128	C9204	140-9204	P2618	01105
C696	140-8662	C8133	140-8133	C9259	140-9259	P2661	01047
C697	140-8659	C8134	140-8134	C9458	140-9458	P2662	01048
C6990	140-6990	C8160	140-8160	C9458H	140-9458H	P2663	01083
C7174	140-7174	C8177	140-8177	C9460H	140-9460H	P2664	01084
C7194	140-7194	C8178	140-8178	C9523H	140-9523H	P2665	01156
C7194N	140-7194	C8188	140-8188	C9546	140-9546	P2666	01133S
C7197	140-7197	C8203	140-8203	C9606	140-9606	P2667	01152
C7198	140-7198	C8210	140-8210	C9606U	140-9606U	P2668	01188
C7216	140-7216	C8217	140-8217	C9607	140-9607	P2669	01082
C7216+2	140-7216+2	C8220	140-8220	C9607H	140-9607H	P2670	01693S
C7216N	140-7216	C8224	140-8224	C9610	140-9610	P2671	01148
C7242	140-7242	C8255	140-8255	C9690	140-9690	P2672	01102
C7248	140-7248	C8256	140-8256	C9715	140-9715	P2673	01103
C7255	140-7255	C8273	140-8273	C9716	140-9716	P2690	00996S
C7255+2	140-7255+2	C8274	140-8274	C9846	140-9846	P2691X	00997
C7259	140-7259	C8274+2	140-8274+2	C9848	140-9848	P2693	01189
C7260	140-7260	C8274+3	140-8274+3	C9867	140-9867	P2695	01135
C7272	140-7272	C8274A	140-8274	C9869	140-9869	P2696	01137
C7278	140-7278	C8277	140-8277	C9908	140-9908	P2710	01087
C7279	140-7279	C829	140-1829	C9964H	140-9964H	P2809	01192
C7336	140-7336	C8319	140-8319	C9964H+2	140-9964H+2	P2815	01169
C7338	140-7338	C8357	140-8357	C9972H	140-9972H	P2819	01180
C7371	140-7371	C8397	140-8397	C9973	140-9973	P2827	01199
C7373	140-7373	C8407	140-8407	C9977	140-9977	P2828	01200
C7398	140-7398	C8408	140-8408	C9977H	140-9977H	P2832	01237
C7420	140-7420	C8409	140-8409	C9977U	140-9977U	P2833	01238
C7421	140-7421	C8476	140-8476	J0313006	01300	P2845	01186
C7431	140-7431	C8494	140-8494	J0316001	10076	P2857	01161
C7444	140-7444	C8545	140-8545	J0316002	10083	P2867	01107
C7450	140-7450	C8548	140-8548	J0316003	10065	P2868	01245
C7527	140-7527	C8552	140-8552	J0316004	10064	P2869	01728
C7546	140-7546	C8555	140-8555	J0320004	10031	P2870	01324
C7548	140-7548	C8558	140-8558	J0320008	10033S	P2871	01263
C7552	140-7552	C8559	140-8559	J0320011	10056	P2894	01188
C7563	140-7563	C8564	140-8564	J0361014	10048	P2896	01294S
C7574+2	140-7574+2	C8565	140-8565	J0361021	10308	P2899	01285
C7592	140-7592	C8567	140-8567	J0361022	10037	P2900	01271
C7604	140-7604	C8569	140-8569	J0390001	10061	P2901	01723
C7610	140-7610	C8572	140-8572	J0390003	10087	P2907	01326
C7612	140-7592	C8573	140-8573	J0390004	10086	P2909	01325
C7625	140-7625	C8574	140-8574	P2054	00375	P2910	01260
C7663	140-7663	C8575	140-8575	P2056	00373	P2911	01257
C7663G	140-7663	C8582	140-8582	P2090	00400	P2912	01258
C7669	140-7669	C8583	140-8583	P2091	00399	P2923	01292
C7681	140-7681	C8584	140-8584	P2185	00518	P2924	01293
C7682	140-7682	C8585	140-8585	P2214	01036S	P2925	01381
C7689	140-7689	C8587	140-8587	P2243	00520	P2928	01300
		C8590	140-8590	P2267	01500	P2938	01320
		C8591	140-8591	P2275	00308	P2940	00975

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PEP (Cont'd)							
P2942	01744	PS3162	01483S	31745122	160-1497	00546	140-1546
P2943	01598	SC5016G	140-9964H	3174A016	160-1569	00547N	140-1547N
P2946	01322	T4904	10370S	3174A031	160-1645	00568	140-1568
P2947	01323	T4909	10367	3174P408	160-1502	00577	140-1577
P2956	10015	T9010	122-1089	3174P409	160-1498	00578	140-1578
P2984	01327	PERKINS		3174P412	160-1499	00579	140-1579
P2985	01328	110136300	SB1558E-1PM	33125121	SB2020E-1	00592	140-1592
P2993	01354	120116160	VL574	33130	140-8013	00593	140-1593
P2994	01361	120166350	13326	3313A012	140-3059	00600	140-1600
P2995	01362	120166380	13326	3313E001	140-3099	00614	140-1614
P3005	01358	120176360	13327	3313E735	140-3099	00618	140-1618
P3005S	01504	120176380	13327	3314A031	SB1518E-1	00619	140-1619
P3006S	01505	120406050	122-1465	3314A041	SB1782E-2	00620	140-1620
P3007	01357	120406070	122-1464	33152139	SB1681E-3	00636	140-1636
P3011	01327	198216700	160-1638	33152154	SB1690E-1	00644	140-1644
P3019	01378	2236556	140-1976	3316A032	140-3100	00673	140-1673
P3021X	01462S	2236557	140-1977	33173108	121-1018	00678	140-1678
P3022X	01432	230001	121-1051	3318A702	140-3105	00680	140-1680
P3024	01507	2418M505	122-1397	3318A705	140-3060	00680.002	140-1680+2
P3027	10061	2418M506	122-1395	33261723	140-1956	00680.005	140-1680+5
P3037	01367	2418M507	122-1395	33261727	140-3100	00689	140-1689
P3046	01389	2418M508	122-1475	33261732	140-1976	00690	140-1690
P3047	01388	2418M517	122-1435	33261752	140-1977	00697	140-1697
P3053X	01423	2418M519	122-1434	33432532	140-7450	00703	140-1703
P3054	21500	2510378	140-1956	3343F002	140-3063	00704	140-1704
P3062	01814	2714A002	121-1133	3343F041	140-3063	00711	140-1711
P3063	01813	3124H002	13135	3343J002	140-3064	00717	140-1717
P3067	01381	3142A051	01784	3343J021	140-3064	00723	140-1723
P3070	01385SN	3142A052	00882A	33817117	122-1398	00726	140-1726
P3071	01399	3142A101	13142	33817403	122-1412	00732	140-1732
P3075	01382	3142A151	13138	58261	00874	00733	140-1733
P3079	01419	3142A171	13364	58262	00873	00740	140-1740
P3081	01383SN	3142D031	05002S	58288	00874	00745	140-1745
P3082	01380	3142D041	05001	58289	00873	00747	140-1747
P3085X	01204	3142D051	13219	70910002	00873	00758	140-1758
P3091	01393	3142D061	05004	70910003	00874	00803	140-1803
P3093	01394	3142H011	13141	70910009	01783	00804	140-1804
P3099X	00603	3142H041	05003	70910010	00882A	00809	140-1809
P3103	01395	3142H051	13143	70910013	01784	00810	140-1810
P3104	01192	3142H071	13137	70910016	00883	00813	140-1813
P3137	01452	3142H101	13363	723812M1	00873	00814	140-1814
P3138	01451	3142L051	01887	7324451M1	140-1956	00816	140-8224
P3161	01192	3142L071	01887	736296M91	140-1977	00817	140-1817
P3176C	01393	3142L072	05000	736297M91	140-1976	00821	140-1821
P3189	01002	3142L081	13136	780006	160-1543	00823	140-1823
P3205	01450	3142W003	121-1093	780007	160-1542	00829	140-1829
P3337	10142	3142W004	121-1118	780143	160-1540	00830	140-1830
P3386	01538	31431011	13112	780144	160-1541	00832	140-1832
P3394	01328	31431103	00883	795713R1	140-1976	00832.002	140-1832+2
P3399	01537	31431104	00882A	796122R1	140-1977	00833	140-1833
P4002	01448	31431109	00882A	910060	13099	00835	140-1717
P4003	01449	31431154	02167	910061	13100	00839	140-1839
P4006	01528	31431261	00874	910064	13099	00840	140-1840
P4010	01470	31431271	00873	P33817117	122-1270	00842	140-7376
P4011	01469	31431311	01783	T417479	160-1645	00843	140-7376
P4012	02057	31431315	01783	U10136460	SB1400E-1PM	00851	140-1851
P4013	02058	31431591	00873	U20406140	122-1465	00852	140-1852
PC2297	00530SN	31431641	00883	PIONEER			
PS2090	01206S	31431671	02166	00337	140-1337	00853	140-1853
PS2302	00559S	31431681	13103	00338	140-1338	00854	140-1854
PS2303	00560	31431701	01798	00342	140-1342	00857	140-1857
PS2365N	01500	31431731	13102S	00411	140-1411	00858	140-1858
PS2383	01242	31431741	13101	00421	140-1421	00859	140-1859
PS2472	00602S	31431871	01783	00453	140-1453	00860	140-1860
PS2550	01261S	31431881	00882A	00458	140-1458	00865	140-1865
PS2865	01037	31431891	00882A	00470	140-1470	00872	140-1872
PS2866	01017S	31431931	13111	00476	140-1476	00873	140-1873
PS2878	01261S	31431961	01784	00503	140-1503	00874	140-1874
PS2896	01261S	31431981	13103	00504	140-1504	00875	140-1875
PS3006	01366	31431991	13112	00515	140-1515	00877	140-1877
PS3015	01431S	31434163	VL549	00527	140-1527	00878	140-1878
PS3023	01506S	31744131	160-1301	00543	140-1543	00880	140-1880
PS3052	01422S	31744133	160-1496	00544	140-1544	00881	140-1881
PS3089	01203	31745121	160-1291	00545N	140-1545N	00881.002	140-1881+2
						00888	140-1888
						00896	140-1896
						00897	140-1897
						00898	140-1898

Interchange Listing

PIONEER (Cont'd)					
		02262	140-7714	06053	140-6053
		02263	140-7713	06105	140-6105
		02264	140-9715	06106	140-6106
00898.002	140-1898+2	02265	140-9716	06107	140-6107
00899	140-1899	02273	140-7712	06108	140-6108
00906N	140-1906N	03000	140-3000	06108U	140-6108U
00907	140-1907	03001	140-3001	06109	140-6109
00908	140-1908	03006	140-3006	06110	140-6110
00909	140-1909	03007	140-3007	06111	140-6111
00914	140-1515	03007.002	140-3007+2	06113	140-6113
00914	140-1914	03008	140-3008	06114	140-6114
00916	140-1619	03008.002	140-3008+2	06115	140-6115
00918	140-1620	03009	140-3009	06116	140-6116
00919	140-1919	03010	140-3010	06119	140-6119
00923	140-1923	03011	140-3011	06119.002	140-6119+2
00924	140-1924	03012	140-3012	06201	140-6201
00927	140-1927	03014	140-3014	06202	140-6202
00932	140-1932	03015	140-3015	06254	140-6254
00937	140-1937	03016	140-3016	06254.002	140-6254+2
00941	140-1941	03017	140-3035	06254.003	140-6254+3
00942	140-7994	03018	140-3036	06254.005	140-6254+5
00943	140-1943	04380	140-7359	06254.010	140-6254+10
00944	140-1944	04404	140-7395	06452	140-6452
00946	140-1946	04406	140-7713	06469	140-6469
00946.002	140-1946+2	04408	140-7714	06470	140-6470
00946.003	140-1946+3	04414	140-7577	06479	140-6479
00946.005	140-1946+5	04416	140-7574	06523	140-6523
00946.010	140-1946+10	04418	140-7575	06529	140-6529
00947	140-1947	04426	140-7545	06546	140-6546
00952	140-1952	04428	140-7499	06587	140-6587
00953	140-1953	04448	140-7205	06730	140-6730
00954	140-1954	04458	140-9557	06730.002	140-6730+2
00956	140-1956	04468	140-7659	06850	140-6850
00957	140-1957	04524	140-7523	06867	140-6867
00962	140-1962	04551	140-7710	06869	140-6869
00965	140-1965	04552	140-7828	06872	140-6872
00966	140-1966	04941	140-4941	06873	140-6873
00967	140-8004	04944	140-4944	06881	140-6881
00968	140-1968	05001	140-1908	06896H	140-6896H
00969	140-1969	05005	140-5607	06897H	140-6897H
00970	140-1970	05006	140-5606	06905	140-6905
00972	140-1972	05010	140-6119	06913	140-6913
00973	140-1973	05011	140-7554	06929	140-6929
00974	140-1974	05012	140-5612	06977	140-6977
00976	140-1976	05014	140-9197	06990	140-6990
00977	140-1977	05016	140-9964	07005	140-9607
01021	140-1527	05017	140-9113	07005 SR	140-8407
01023	140-1680	05018	140-1907	07006	140-9606
01025	140-1338	05019	140-9460	07007	140-9604
01027	140-1337	05020	140-6869	07008	140-9609
01265	140-1941	05021	140-9109	07009	140-9298
01310	140-1809	05022	140-6116	07010	140-9119
01342	140-1342	05023	140-9115	07011	140-9554
01547	140-1547N	05024	140-9460	07012	140-9612
01579	140-1881	05026	140-6872	07016	140-9110
01668	140-1747	05027	140-6867	07017	140-9108
01704	140-1704	05028	140-9869	07019	140-9105
01725	140-1966	05031	140-9459	07020	140-9869
01726	140-1726	05033	140-7458	07021	140-9114
01732	140-1732	05040	140-9977	07022	140-9116
01823	140-1823	05041	140-9964	07023	140-9115
01825	140-9973	05077	140-9198	07024	140-9259
01825P	140-1973	05103	140-6873	07025	140-9106
01826	140-9972	05104	140-9946	07027	140-9867
01826P	140-1972	05105	140-7562	07033	140-9458
01828	140-9208	05379	140-5379	07040	140-9977
01832	140-1832	05604	140-5604	07051	140-9206
01833	140-1946	05604.002	140-5604+2	07060	140-9260
01839	140-1839	05606	140-5606	07070	140-9111
01840	140-1840	05606U	140-5606U	07073	140-7073
02200	140-1962	05607	140-5607	07073H	140-7073H
02203	140-6254	05607.002	140-5607+2	07074	140-7074H
02223	140-8420	05610	140-5610	07074H	140-7074H
02236	140-7994	05611	140-5611	07083	140-7083
02253	140-7661	05612	140-5612	07102	140-9560
02254	140-7662	05745	140-5745	07103	140-9873
02255	140-9705				
				07104	140-9523
				07106	140-9584
				07174	140-7174
				07194	140-7194
				07194.002	140-7194+2
				07194.005	140-7194+5
				07197	140-7197
				07198	140-7198
				07205	140-7205
				07208	140-7208
				07216	140-7216
				07216.002	140-7216+2
				07216.005	140-7216+5
				07242	140-7242
				07242.005	140-7242+5
				07248	140-7248
				07255	140-7255
				07255.002	140-7255+2
				07259	140-7259
				07260	140-7260
				07264	140-7264
				07271	140-7271
				07271U	140-7271U
				07272	140-7272
				07272.003	140-7272+3
				07276	140-7276
				07277	140-7277
				07278	140-7278
				07279	140-7279
				07291	140-7291
				07298	140-7298
				07336	140-7336
				07337	140-7337
				07338	140-7338
				07338.002	140-7338+2
				07357	140-7357
				07359	140-7359
				07371	140-7371
				07372	140-7372
				07373	140-7373
				07376	140-7376
				07395	140-7395
				07398	140-7398
				07408	140-7408
				07420	140-7420
				07421	140-7421
				07425	140-7610
				07429N	140-7429N
				07429N.002	140-7429N+2
				07431	140-7431
				07444	140-7444
				07447	140-7447
				07448	140-7448
				07450	140-7450
				07451N	140-7451N
				07451N.002	140-7451N+2
				07456	140-7456
				07457	140-7457
				07458	140-7458
				07459	140-7459
				07460	140-7460
				07476	140-7476
				07495	140-7495
				07498	140-7498
				07499	140-7499
				07507	140-7507
				07523	140-7523
				07523.002	140-7523+2
				07527	140-7527
				07528	140-7528
				07529	140-7529
				07532	140-7532
				07542	140-7542
				07545	140-7545
				07546	140-7546
				07548	140-7548

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PIONEER (Cont'd)							
07550	140-7550	08023	140-8023	0822	140-7174	08585	140-8585
07551	140-7551	08024	140-8024	08220	140-8220	08586	140-8586
07552	140-7552	08036	140-8036	08223	140-8223	08587	140-8587
07554	140-7554	08038	140-8038	08224	140-8224	08590	140-8590
07562	140-7562	08038.002	140-8038+2	08233	140-8233	08591	140-8591
07563	140-7563	08039	140-8039	08233.002	140-8233+2	08592	140-8592
07564	140-7564	08039.002	140-8039+2	08247	140-8247	08592.002	140-8592+2
07574	140-7574	08040	140-8040	08248	140-8248	08593	140-8593
07574.002	140-7574+2	08105	140-8105	08255	140-8255	08593.002	140-8593+2
07575	140-7575	08112	140-8112	08256	140-8256	08594	140-8594
07575.002	140-7575+2	08112.002	140-8112+2	08273	140-8273	08658	140-8658
07575.006	140-7575+6	08113	140-8113	08274	140-8274	08659	140-8659
07576	140-7576	08114	140-8114	08274.002	140-8274+2	08662	140-8662
07577	140-7577	08115	140-8115	08274.003	140-8274+3	08663	140-8663
07577.002	140-7577+2	08118	140-8118	08277	140-8277	08666	140-8666
07581	140-7714	08122	140-8122	08291	140-8291	08667	140-8667
07582	140-7713	08124	140-8124	08292	140-8292	08668	140-8668
07588	140-7588	08128	140-8128	08293	140-8293	08669	140-8669
07589	140-7589	08133	140-8133	08319	140-8319	08670	140-8670
07592	140-7592	08134	140-8134	08324	140-8324	08671	140-8671
07604	140-7604	08134.010	140-8134+10	08347	140-8347	08673	140-8673
07610	140-7610	08139	140-8139	08347.002	140-8347+2	08674	140-8674
07625	140-7625	08142	140-8142	08348	140-8348	08679	140-8679
07656	140-7656	08143	140-8143	08348.002	140-8348+2	09105	140-9105
07659	140-7659	08144	140-8144	08356	140-8356	09105U	140-9105U
07661	140-7661	08147	140-8147	08357	140-8357	09106	140-9106
07662	140-7662	08155	140-8155	08383	140-8383	09107	140-9107
07663	140-7663	08156	140-8156	08388	140-8388	09108	140-9108
07669	140-7669	08157	140-8157	08389	140-8389	09108H	140-9108H
07679	140-7679	08158	140-8158	08397	140-8397	09108U	140-9108U
07681	140-7681	08160	140-8160	08407	140-8407	09109	140-9109
07682	140-7682	08161	140-8161	08408	140-8408	09110	140-9110
07689	140-7689	08168	140-8168	08409	140-8409	09111	140-9111
07710	140-7710	08169	140-8169	08418	140-8418	09111U	140-9111U
07712	140-7712	08170	140-8170	08419	140-8419	09112	140-9112
07712.002	140-7712+2	08171	140-8171	08420	140-8420	09113	140-9113
07713	140-7713	08172	140-8172	08476	140-8476	09114	140-9114
07714	140-7714	08172.002	140-8172+2	08485	140-8485	09115	140-9115
07714.002	140-7714+2	08173	140-8173	08486	140-8486	09116	140-9116
07715	140-7715	08177	140-8177	08494	140-8494	09119	140-9119
07736	140-7736	08178	140-8178	08531	140-8531	09197	140-9197
07813	140-7813	08180	140-8180	08535	140-8535	09198	140-9198
07822	140-7822	08180.002	140-8180+2	08536	140-8536	09204	140-9204
07822.002	140-7822+2	08186	140-8186	08543	140-8543	09205	140-9205
07825	140-7825	08187	140-8187	08544	140-8544	09206	140-9206
07826	140-7826	08188	140-8188	08545	140-8545	09208	140-9208
07827	140-7827	08189	140-8189	08547	140-8547	09259	140-9259
07828	140-7828	08190	140-8190	08548	140-8548	09260	140-9260
07830	140-7830	08191	140-8191	08552	140-8552	09298	140-9298
07847	140-7847	08192	140-8192	08554	140-8554	09458	140-9458
07860	140-7860	08193	140-8193	08555	140-8555	09458H	140-9458H
07873	140-7873	08193.002	140-8193+2	08555.002	140-8555+2	09459	140-9459
07876	140-7876	08194	140-8194	08556	140-8556	09460	140-9460
07892	140-7892	08194.002	140-8194+2	08556.002	140-8556+2	09460H	140-9460H
07903	140-7903	08195	140-8195	08558	140-8558	09460H.002	140-9460H+2
07907	140-7907	08200	140-8200	08559	140-8559	09523	140-9523
07908	140-7908	08201	140-8201	08560	140-8560	09523H	140-9523H
07946	140-7946	08202	140-8202	08561	140-8561	09546	140-9546
07964	140-7964	08203	140-8203	08562	140-8562	09554	140-9554
07990	140-7990	08204	140-8204	08564	140-8564	09557	140-9557
07994	140-7994	08205	140-8205	08565	140-8565	09560	140-9560
07994.002	140-7994+2	08207	140-8207	08567	140-8567	09584	140-9584
07999	140-7999	08207.002	140-8207+2	08569	140-8569	09604	140-9604
08004	140-8004	08208	140-8208	08571	140-8571	09606	140-9606
08007	140-8007	08209	140-8209	08572	140-8572	09606U	140-9606U
08008	140-8008	08210	140-8210	08573	140-8573	09607	140-9607
08009	140-8010	08210.002	140-8210+2	08574	140-8574	09607H	140-9607H
08010	140-8010	08211	140-8211	08575	140-8575	09607U	140-9607U
08011	140-8011	08211.002	140-8211+2	08577	140-8577	09609	140-9609
08013	140-8013	08212	140-8212	08578	140-8578	09610	140-9610
08016	140-8016	08213	140-8213	08579	140-8579	09611	140-9611
08017	140-8017	08216	140-8216	08580	140-8580	09612	140-9612
08018	140-8018	08217	140-8217	08581	140-8581	09690	140-9690
08021	140-8021	08218	140-8218	08582	140-8582	09705	140-9705
		08219	140-8219	08583	140-8583	09705U	140-9705U
		08219.002	140-8219+2	08584	140-8584	09715	140-9715

Interchange Listing

PIONEER (Cont'd)					
09716	140-9716	OS2120	122-1333	PF224	121-1020
09846	140-9846	OS2121	122-1345	PF225	121-1051
09846U	140-9846U	OS231PA	122-1040	PF237	121-1052
09848	140-9848	OS240B	122-1043	PF462	149-1001
09850	140-9850	OS250	122-1233	PF555	121-1003
09867	140-9867	OS252	122-1075	PF555A	121-1003
09867U	140-9867U	OS253	122-1063	PF555AHD	121-1003
09869	140-9869	OS450	122-1037	PF555HD	121-1003
09872	140-9872	OS450PA	122-1037	PF613	121-1007
09873	140-9873	OS522PA	122-1032	PF613A	121-1007
09907	140-9907	OS530PA	122-1041	PF613AHD	121-1007
09908	140-9908	OS535	122-1052	PF613HD	121-1007
09909	140-9909	OS642PA	122-1041	PF614	121-1011
09946	140-9946	OS713	122-1003	PF614HD	121-1011
09964	140-9964	OS766PA	122-1034	PF619	121-1024
09964H	140-9964H	OS780PA	122-1051	PF620	121-1019
09964H.002	140-9964H+2	OS805	122-1200	PG217	121-1021
09972	140-9972	OS806	122-1199	PG309	121-1017
09972.003	140-9972+3	OS810	122-1074	PG310	121-1002
09972H	140-9972H	OS812	122-1067	PG510	121-1072
09972U	140-9972U	OS821	122-1077	PM810	121-1045
09973	140-9973	OS823VT	122-1203	PM811	121-1009
09973U	140-9973U	OS824VT	122-1073	PR045	192-1377
09977	140-9977	OS827VT	122-1198	PR045A	192-1378
09977H	140-9977H	OS830VT	122-1069	PR103B	190-1433
09977U	140-9977U	OS830VT	122-1069	PR105	192-1229
451140	231-1000	OS840VT	122-1206	PR152	190-1237
51047	140-1968	OS844VT	122-1330	PR155	190-1342
51668	140-6990	OS893	122-1007	PR201	190-1370
51836	140-7876	OS903PA	122-1036	PR230	192-1504
810010	360-1010	OS905PA	122-1033	PR230A	192-1503
810011	360-1011	OS907	122-1005	PR274	190-1425
810107	360-1012	OS910PA	122-1045	PR279	192-1321
810108	360-1013	OS911PA	122-1035	PR280	192-1399
810202	360-1014	OS915PA	122-1038	PR281	192-1409
810206	360-1015	OS916PA	122-1038	PR281B	192-1409U60
810207	360-1016	OS921PA	122-1031	PR282	192-1462
810208	360-1017	OS925	122-1047	PR301	190-1429
817100	361-1015	OS925PA	122-1047	PR302	190-1421
817104	361-1010	OS928PA	122-1046	PR305	190-1385
817105	361-1011	OS930	122-1059	PR306	192-1322
817108	361-1013	OS935	122-1052	PR307	190-1411
817110	361-1014	OS936	122-1053	PR308	190-1396
851200	220-1018	OS937	122-1006	PR309	190-1395
MRK396	181-1057	OS938	122-1075	PR309B	190-1478
OS1038	122-1017	OS950PA	122-1039	PR310	190-1417
OS1045	122-1268	OS951PA	122-1048	PR311	190-1351
OS1050	122-1011	OS961	122-1082	PR311A	190-1351+60
OS1053	122-1189	OS962	122-1263	PR311B	190-1351U60
OS1054	122-1014	OS964	122-1086	PR312	190-1426
OS1055	122-1225	OS967	122-1130	PR313	190-1327
OS1062	122-1009	OS971	122-1125	PR313B	190-1327U54
OS1064	122-1192	OS978	122-1089	PR314	190-1349
OS1065	122-1267	OS981	122-1127	PR315	190-1328
OS1068	122-1015	OS981PA	122-1127	PR317	192-1330
OS2100	122-1205	OS982	122-1088	PR318	192-1335
OS2101	122-1215	OS985	122-1139	PR321	190-1408
OS2102	122-1216	OS994PA	122-1150	PR323	190-1403
OS2104	122-1226	OS995PA	122-1152	PR324	190-1450
OS2105	122-1449	OS996PA	122-1114	PR325A	190-1422
OS2106	122-1250	PC125	220-1074	PR326	192-1381
OS2107	122-1252	PC126	220-1074	PR327	190-1384
OS2108	122-1260	PC716	121-1039	PR333	190-1440
OS2109	122-1269	PC743	121-1001	PR335	190-1433
OS2110	122-1276	PC746	121-1000	PR335A	192-1442
OS2111	122-1288	PC746HD	121-1000	PR337	190-1435
OS2112	122-1314	PC766	121-1014	PR339	190-1443
OS2113	122-1315	PC766HD	121-1014	PR342	192-1444
OS2114	122-1316	PF159	121-1012	PR343	190-1438
OS2115	122-1324	PF165	121-1065	PR344	192-1446
OS2116	122-1326	PF206	121-1084	PR345	190-1449
OS2117	122-1327	PF208	121-1028	PR347	192-1453
OS2118	122-1329	PF213	121-1026	PR34B	192-1331
OS2119	122-1332	PF217	121-1018	PR353	190-1454
		PF221	121-1049	PR356	190-1522
		PF222	121-1069	PR358	190-1489
				PR35AB	190-1269
				PR363	190-1467
				PR365	190-1489
				PR366	190-1473
				PR367	190-1500
				PR371	190-1502
				PR372	192-1480
				PR373	192-1485
				PR374	192-1484
				PR375	192-1481
				PR376	192-1482
				PR378	190-1455
				PR379	192-1339
				PR380	192-1338
				PR384	192-1491
				PR399	190-1529
				PR434	190-1511
				PR435	190-1509
				PR437	192-1442
				PR438	190-1532
				PR44	192-1337
				PR447	190-1531
				PR44A	192-1336
				PR454	192-1506
				PR456	190-1427
				PR460	192-1505
				PR465	190-1524
				PR498	192-1511
				PR499	192-1512
				PR80	190-1222
				PR81	190-1280
				PX803	121-1006
				PX811	121-1023
				PX813	121-1034
				PX816	121-1030
				PX819	121-1047
				PX822	121-1010
				PX860	121-1046
				PX860100	121-1046
				R1026	180-1264
				R1805	180-1007
				R1807	180-1008
				R1830	180-1326
				R1850	180-1028
				R1868	180-1283
				R346	180-1228
				R358	180-1239
				R374	180-1229
				R410	180-1040
				R411	180-1041
				R501	180-1037
				R610	180-1029
				R650	180-1304
				R660	180-1238
				R685	180-1237
				R690	180-1059
				R700	180-1004
				R711L	180-1055
				R711R	180-1056
				R712L	180-1077
				R712R	180-1078
				R713L	180-1079
				R713R	180-1080
				R740	180-1236
				R819	180-1012
				R888	180-1233
				R889	180-1234
				R903	180-1317
				RK1868B	181-1061
				RK1868X	181-1061
				RK346	181-1049
				RK346B	181-1011
				RK346X	181-1011
				RK374	181-1014
				RK374X	181-1014
				RK375X	181-1012

Interchange Listing

PIONEER (Cont'd)							
RK377B	181-1044	RV1088X	160-1227	RV1430	160-1250	RV715	160-1127
RK383X	181-1025	RV1096	160-1025	RV1446	160-1238	RV718X	160-1206
RK395	181-1020	RV1106	160-1028	RV1448	160-1239	RV726	160-1290
RK395X	181-1020	RV1107	160-1029	RV1450	160-1236	RV735	160-1128
RK396X	181-1057	RV1125	160-1031	RV1455	160-1241	RV745X	160-1129
RK400X	181-1021	RV1126	160-1033	RV1457	160-1318	RV757	160-1205
RK405B	181-1028	RV1135	160-1038	RV1529	160-1272	RV762	160-1608
RK407X	181-1032	RV1149	160-1041	RV1530	160-1273	RV763	160-1225
RK409X	181-1017	RV1158	160-1226	RV1530	160-1274	RV765	160-1130
RK419X	181-1016	RV1165	160-1219	RV1537	160-1271	RV769	160-1186
RK430X	181-1020	RV1166	160-1204	RV1539	160-1252	RV778	160-1131
RK550	181-1059	RV1167	160-1173	RV1550	160-1339	RV786X	160-1132
RK5506	181-1059	RV1171	160-1176	RV1558	160-1112	RV793	160-1301
RK550X	181-1059	RV1173	160-1184	RV1615	160-1408	RV794	160-1291
RK660X	181-1041	RV1175	160-1044	RV1680	160-1266	RV798	160-1006
RK674	181-1034	RV1178	160-1190	RV1684	160-1264	RV804	160-1133
RK685	181-1040	RV1180	160-1429	RV1710	160-1383	RV807	160-1134
RK819X	181-1018	RV1189	160-1187	RV1943X	160-1407	RV812	160-1135
RK881B	181-1060	RV1193	160-1047	RV220B	160-1286	RV813	160-1136
RK888X	181-1034	RV1195X	160-1049	RV2210	160-1427	RV814	160-1137
RK889	181-1035	RV1198	160-1052	RV2212	160-1267	RV815X	160-1138
RK889B	181-1035	RV1199	160-1053	RV2215	160-1352	RV816X	160-1139
RK889X	181-1035	RV1200	160-1482	RV221B	160-1285	RV817	160-1179
RM1741	184-1035	RV1201	160-1054	RV2220	160-1342	RV863	160-1140
RM1764	183-1022	RV1202	160-1055	RV2221	160-1343	RV864X	160-1141
RM341	184-1038	RV1216	160-1171	RV2222	160-1441	RV867	160-1142
RM342	183-1017	RV1217	160-1170	RV2223	160-1626	RV869	160-1143
RM344	183-1024	RV1218	160-1064	RV2225	160-1483	RV880X	160-1144
RM345	183-1032	RV1220X	160-1233	RV2230	160-1426	RV881X	160-1145
RM359	183-1026	RV1239	160-1228	RV2232	160-1378	RV884X	160-1147
RM371	184-1040	RV1240	160-1198	RV2300	160-1425	RV886	160-1148
RM379	184-1038	RV1241	160-1181	RV2302	160-1504	RV887X	160-1206
RM382	184-1020	RV1242	160-1210	RV2406	160-1402	RV891X	160-1149
RM397	183-1027	RV1244	160-1202	RV2412	160-1403	RV893	160-1221
RM403	184-1023	RV1245	160-1203	RV2450	160-1385	RV901X	160-1150
RM406	183-1014	RV1246	160-1069	RV2451	160-1444	RV902	160-1151
RM4061	183-1028	RV1250	160-1071	RV2458	160-1458	RV906	160-1152
RM412	187-1014	RV1258	160-1072	RV2460	160-1382	RV907X	160-1154
RM416	184-1025	RV1265	160-1363	RV2461	160-1361	RV909X	160-1175
RM417	183-1015	RV1266X	160-1075	RV2462	160-1360	RV913X	160-1132
RM418	184-1032	RV1268	160-1076	RV2470	160-1396	RV922	160-1156
RM654	184-1021	RV1278	160-1378	RV2471	160-1397	RV923	160-1157
RM657	184-1022	RV1280	160-1229	RV2475	160-1430	RV935X	160-1159
RM657A	184-1022	RV1282	160-1199	RV2476	160-1437	RV936	160-1041
RM659	184-1039	RV1285	160-1490	RV2484	160-1366	RV939	160-1185
RM673	184-1034	RV1289	160-1079	RV2487	160-1411	RV943X	160-1144HP
RM688	183-1030	RV1290	160-1172	RV2498	160-1443	RV944	160-1196
RM689	183-1020	RV1291	160-1217	RV2522	160-1431	RV945	160-1197
RS1631	186-1035	RV1292	160-1218	RV268	160-1288	RV948	160-1192
RS668C	186-1090	RV1293	160-1213	RV2811	160-1485	RV950	160-1178
RS716	186-1100	RV1294	160-1207	RV356	160-1604	RV961X	160-1160
RV1001	160-1000	RV1296	160-1304	RV400	160-1223	RV991	160-1161
RV1002X	160-1001	RV1298	160-1303	RV414	160-1220	RV994	160-1162
RV1009A	160-1003	RV1299	160-1080	RV433	160-1114	RV999	160-1164
RV1011	160-1004	RV1301X	160-1083	RV454	160-1188	S1025	181-1049
RV1012	160-1191	RV1303	160-1085	RV467	160-1296	S1027	181-1048
RV1014	160-1177	RV1304	160-1086	RV480	160-1223	S112B	220-1014
RV1015	160-1005	RV1310	160-1247	RV495	160-1401	S116	220-1008
RV1016	160-1006	RV1313	160-1307	RV497	160-1433	S135	220-1000
RV1016X	160-1147	RV1317	160-1047	RV502	160-1503	S153	220-1009
RV1034	160-1008	RV1330X	160-1089	RV529	160-1115	S173	220-1019
RV1038X	160-1009	RV1332	160-1305	RV543	160-1287	S177	220-1016
RV1041X	160-1011	RV1333	160-1186	RV554	160-1289	S181	220-1021
RV1044	160-1012	RV1367	160-1095	RV558	160-1116	S280	220-1023
RV1047	160-1013	RV1368	160-1096	RV575	160-1117	SS555HD	121-1003
RV1048	160-1014	RV1370	160-1097	RV576	160-1118	SS613HD	121-1007
RV1050	160-1016	RV1374	160-1099	RV577	160-1119	SS746HD	121-1000
RV1061	160-1018	RV1378	160-1409	RV611	160-1120	SS766HD	121-1014
RV1062	160-1424	RV1388	160-1103	RV619	160-1121	T580	231-1001
RV1063	160-1423	RV1398	160-1262	RV646	160-1300	T581	231-1002
RV1066	160-1019	RV1399	160-1261	RV662	160-1494	VE1077	00400
RV1070	160-1020	RV1403	160-1216	RV672	160-1122	VE1077+15	00400+15
RV1082	160-1023	RV1405	160-1106	RV677X	160-1124	VE1077+3	00400+3
RV1086	160-1024	RV1408	160-1252	RV685X	160-1125	VE1349	01265
		RV1409	160-1253	RV695	160-1295	VE1355	01242
		RV1420	160-1201	RV696	160-1126	VE1383	00559S

Interchange Listing

PIONEER (Cont'd)							
VE1519	01242	VE2531	10271	VI2060	01557	EV121A	10548
VE1567	00742	VE2553	10256	VI2098	10137	EV122	10813
VE1585	01266	VE4322	10308	VI2114	01536	EV124	10724
VE1585+15	01266+15	VE631	10037	VI2124	01505	EV125	10625
VE1587	01358	VE633	10036S	VI2124+15	01505+15	EV126	10501
VE1587+15	01358+15	VE635	10033S	VI2140	02057	EV130	10535A
VE1589	01329	VE781	00121	VI2144	01555	EV136	10809
VE1589+15	01329+15	VI1078	00399	VI2146	01553	EV138	10501
VE1611	00976	VI1078+15	00399+15	VI2192	01538	EV140	01921
VE1635	01332	VI1350	00567	VI2202	10268	EV143	01713
VE1649	00919	VI1350+15	00567+15	VI2216	10141	EV145	01448
VE1651	01106	VI1382	00560	VI2274	01711	EV146	01552
VE1655	00996S	VI1418	00637	VI2436	10236	EV148	01554
VE1669	01000	VI1418+15	00637+15	VI2464	10322	EV149	01742
VE1669+15	01000+15	VI1436	01057S	VI2488	10281	EV150	01731
VE1717	01156	VI1476	00696	VI2518	10255	EV151	02009
VE1717+15	01156+15	VI1476+15	01195+15	VI4026	10076	EV158	01992
VE1719	01312S	VI1476+3	01195+3	VI624	10307	EV161	13348
VE1761	01237	VI1476A	01195	VI632	10048	EV162	13200
VE1761+15	01237+15	VI1584	01268	VI634	10015	EV164	02035
VE1765	01169	VI1586	00963	VI636	10031	EV167	13191
VE1765+15	01169+15	VI1588	00938	VI782	00122	EV168	13256
VE1769	01133S	VI1588+15	00938+15	VT2011	VL89	EV174	13287
VE1771	01135	VI1628	00947	VT2012	VL83	EV176	13191
VE1771+15	01135+15	VI1634	01120	VT2056	VL109	EV187	13191
VE1771+3	01135+3	VI1634+15	01120+15	VT2083	VL9	EV206	10193
VE1779	01294S	VI1636	00949	VT2089	VL88	EV209	10196
VE1805	01325	VI1644	01002	VT2095	VL94	EV216	13173
VE1807	01257	VI1650	00988	VT2102	VL86	EV217	10435
VE1813	01322	VI1652	01107	VT2104	VL114	EV218	13173
VE1815	01320	VI1652+15	01107+15	VT2105	VL87	EV219	10198A
VE1817	01324	VI1656	00997	VT2148A	VL115	EV223	10544
VE1819	01271	VI1670	01001	VT6007	VL141	EV225	10207
VE1819+15	01271+15	VI1732	01137	VT764	VL149	EV230	10413
VE1821	01597	VI1732+15	01137+15	VT812	VL8	EV242	13359
VE1831	01327	VI1756	01152	VT817	VL37	EV245	10542
VE1833	01300	VI1760	01238	VT846	VL5	EV253	10546
VE1835	01354	VI1760+15	01238+15	VT892	VL21	EV263	10779
VE1837	01361	VI1764	01170	VT900	VL35	EV280	10123
VE1849	01326	VI1764+15	01170+15	VT937	VL31	EV282	10437
VE1853	01441	VI1776	01186	VT940	VL146	EV287	10779
VE1863	10060S	VI1778	01273	VT941	VL135	EV290	10191
VE1875	01367	VI1800	01161	VT945	VL32	EV292	10414
VE1875+15	01367+15	VI1804	01260	VT951	VL49	EV295	10525
VE1877	01387	VI1806	01258	VT969	VL73	EV300	10220S
VE1889	01394	VI1812	01323	VT976	VL64	EV302A	10086
VE1891	01135	VI1814	01598			EV303	10104
VE1897	01448	VI1816	01285			EV305	10221S
VE1901	01451	VI1820	01272			EV309	02250S
VE1905	01469	VI1820+15	01272+15	ERA149	180-1320	EV310	10523
VE1911	01814	VI1822	01362	ERA607	180-1266	EV3104	01807
VE1923	01192	VI1830	01328	ERA607A	180-1267	EV311	10521
VE1923+15	01192+15	VI1830+15	01328+15	ERAS900	186-1035	EV3111	01261S
VE1923+3	01192+3	VI1830+3	01328+3	EV101	10146S	EV3112	01702
VE1991	01135	VI1836	01357	EV104	10497	EV3114	01480
VE2049	01389	VI1852	01442	EV105	10142	EV3116	01710
VE2099	10138	VI1862	10061	EV107	10128A	EV3117	01811
VE2141	01480	VI1874	01380	EV108	10144	EV312	01950
VE2141+15	01480+15	VI1874+15	01380+15	EV1100	01919	EV3125	01192
VE2143	02058	VI1876	01388	EV1105	02036	EV3125	01206S
VE2147	01554	VI1880	01382	EV1119	01556	EV3125A	01809
VE2149	01552	VI1888	01395	EV1122	01917	EV3125B	01294S
VE2159	01568	VI1896	01449	EV1130	01715	EV313	13332SN
VE2165	10146S	VI1900	01452	EV1135	01670	EV3130	02058
VE2189	10069	VI1904	01470	EV1136	01905	EV3132	01727
VE2193	01537	VI1910	01813	EV1137	01994	EV3138	01999
VE2197	10106	VI1922	01393	EV1153	01399	EV3139	13082
VE2199	10330A	VI1922+15	01393+15	EV1153B	01417	EV314	02010S
VE2203	10269	VI1924	01193	EV1153E	01419	EV3140	13046
VE2283	01535	VI1924+3	01193+3	EV1160	02220	EV3143	01735
VE2317	01710	VI1984	01432	EV1162	13207	EV3149	01116
VE2475	10237	VI1992	00924	EV1165	02015	EV3152	01706
VE2517	10282	VI2038	01569	EV1180	01782	EV3158	02054
VE2521	10323	VI2044	10145	EV119	10499	EV3160	02045
		VI2052	10107	EV120	10817	EV3164	13243
		VI2054	10070	EV121	10549	EV3165	01935

ROCK PRODUCTS

ERA149	180-1320
ERA607	180-1266
ERA607A	180-1267
ERAS900	186-1035
EV101	10146S
EV104	10497
EV105	10142
EV107	10128A
EV108	10144
EV1100	01919
EV1105	02036
EV1119	01556
EV1122	01917
EV1130	01715
EV1135	01670
EV1136	01905
EV1137	01994
EV1153	01399
EV1153B	01417
EV1153E	01419
EV1160	02220
EV1162	13207
EV1165	02015
EV1180	01782
EV119	10499
EV120	10817
EV121	10549

Interchange Listing

ROCK PRODUCTS (Cont'd)							
EV3181	02126S	EV605	10256	HBK3101	220-1018	HS145	230-2003
EV319	02040S	EV607	10274S	HBK3107	220-1019	HS149	230-2002
EV3195	01780S	EV608A	10036S	HBK311	220-1116	HS150	230-2083
EV320	02173	EV608C	10278S	HBK3112	220-1080	HS151	230-2095
EV325	02248S	EV616	10282	HBK3116	220-1024	HS153	230-2080
EV328	01737	EV616A	10282S	HBK3125	220-1104	HS155	230-2149
EV329	01903	EV624	10227S	HBK3131	220-1085	HS162	230-2158
EV332	01937	EV624A	10793S	HBK314	220-1100	HS205	230-2038
EV337	01591	EV625	02182S	HBK3143	220-1093	HS206	230-2039
EV350	10503	EV627	13234	HBK3146	220-1031	HS217	230-2123
EV353	10740	EV630	10285S	HBK3147	220-1122	HS219	230-2122
EV402	10060S	EV632	10538	HBK315	220-1092	HS290	230-2037
EV407	02195	EV635	13214	HBK3169	220-1103	HS300	230-2045
EV408	10237	EV638	13078	HBK3180	220-1024	HS305	230-2041
EV409	10163	EV641	10536	HBK3181	220-1084	HS310	230-2116
EV4104	01537	EV644	13238	HBK319	220-1124	HS3101	230-2028
EV4107	01504	EV656	13221	HBK3195	220-1010	HS311	230-2117
EV4109	02246	EV657	13080	HBK322	220-1025	HS3114	230-2025
EV411	01729	EV662	13221	HBK324	220-1025	HS3117	230-2132
EV4113	01135	EV670	10229	HBK328	220-1025	HS3132	230-2022
EV4113A	01135S	EV672	10229	HBK330	220-1088	HS314	230-2135
EV4116	01469	EV673	10795	HBK332	220-1081	HS3146	230-2025
EV412	01788	EV708	10300	HBK337	220-1015	HS3148	230-2128
EV4120	01791	EV710	10807	HBK411	220-1094	HS3149	230-2020
EV4125	01545	EV710A	13140S	HBK4113	220-1033	HS3159	230-2129
EV413	01746	EV718	13203S	HBK4120	220-1076	HS319	230-2159
EV4131	01708	EV720	13203S	HBK413	220-1121	HS325	230-2146
EV4137	01535	EV800	10805S	HBK4135	220-1023	HS328	230-2021
EV4139	02047	EV800A	10803S	HBK4137	220-1005	HS329	230-2115
EV4147	01698	EV806	10356S	HBK4138	220-1096	HS330	230-2115
EV4149	01925	EV815	10557S	HBK4184	220-1071	HS332	230-2073
EV415	10153	EV900	10330A	HBK420	230-2009	HS335	230-2161
EV4162	02193	EV902	10037	HBK4200	220-1109	HS350	230-2094
EV4182	01877	EV903	10311	HBK421	220-1016	HS405	230-2086
EV4185	02265	EV916	02178S	HBK425	220-1028	HS4107	230-2017
EV4186	01547	EV918	10106	HBK428	220-1106	HS4116	230-2016
EV4198	13226	EV920	10315	HBK447	220-1006	HS4123	230-2124
EV420	01936	EV922	10799	HBK526	220-1026	HS412L	230-2130L
EV4200	01786	EV925	10177	HBK638	220-1117	HS412R	230-2130R
EV4205	01242	EV928	13366	HBK708	220-1047	HS413	230-2082
EV421	10386	EV935	10138	HBK809	220-1108	HS4150L	230-2052L
EV422	10388	EV937	10323	HBK900	220-1113	HS4150R	230-2052R
EV425	10563	EV939	10474	HBK903A	220-1059	HS422L	230-2114L
EV427	10815	EV940	10420	HBK907	220-1060	HS422R	230-2114R
EV428	01914	EV942	10338S	HBK909	220-1048	HS425	230-2089
EV429	13039	EV943	10736	HBK920	220-1035	HS427	230-2154
EV432	02007	EV944	10519	HBK935	220-1050	HS428L	230-2137L
EV443	10159	EV945	10507	HBK940	220-1060	HS428R	230-2137R
EV444	10159	EV946	10781	HBK943	220-1119	HS435	230-2144
EV447	01597	EV949	02240	HBK950	220-1052	HS439	230-2131
EV448	01744	EV950	10340A	HBK957	220-1043	HS444	230-2048
EV449	02007	EV954	13209	HS101	230-2005	HS450	230-2053
EV450	10244	EV957	10474	HS105	230-2001	HS451	230-2050
EV455	10551	EV958	10306S	HS108	230-2004	HS490	230-2011
EV475	10248	EV960	10553S	HS1100	230-2125	HS500	230-2031
EV480	13226	EV965	10306S	HS1105	230-2133	HS525	230-2032
EV482	13226	EV968	13087	HS1107L	230-2118L	HS526	230-2030
EV489	02197	EV969	13089S	HS1107R	230-2118R	HS602	230-2060
EV490	10235	EV971	13274S	HS112	230-2120	HS605	230-2058
EV500	10302	EV972	13274S	HS1123	230-2121	HS607	230-2059
EV520	10787S	HBK1100	220-1098	HS1128	230-2121	HS614	230-2157
EV522	13277	HBK1105	220-1097	HS113	230-2120	HS616	230-2015
EV525	10173S	HBK1123	220-1091	HS1135L	230-2008L	HS618	230-2015
EV526	10170	HBK1135	220-1017	HS1135R	230-2008R	HS638	230-2139
EV528	10787S	HBK1136	220-1095	HS1139	230-2110	HS640	230-2056
EV529	02040S	HBK1145	220-1030	HS114	230-2085	HS652	230-2067
EV530	10517	HBK1160	220-1105	HS1145L	230-2072L	HS653	230-2153
EV532	13198	HBK119	220-1046	HS1145R	230-2072R	HS654	230-2068
EV534	13216	HBK123	220-1114	HS119	230-2081	HS710	230-2156
EV535	13205	HBK125	220-1021	HS120	230-2136	HS715	230-2156
EV536	13205	HBK140	220-1077	HS123	230-2149	HS900	230-2066
EV602	10269	HBK143	220-1086	HS125	230-2006	HS903	230-2069
EV603	10271	HBK149	220-1074	HS126	230-2007	HS905	230-2018
		HBK150	220-1072	HS135	230-2105	HS907	230-2063
		HBK151	220-1083	HS140L	230-2126L	HS917	230-2143
		HBK310	220-1118	HS140R	230-2126R	HS920	230-2033

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HS933	230-2100	IV282	10436	IV4198	13225	IV916	02177
HS935	230-2107	IV282A	10436	IV420	02044	IV918	10107
HS939	230-2142	IV287	10778	IV4200	01785	IV920	10314
HS940	230-2065	IV290	10190	IV4205	00637	IV922	10798
HS942	230-2042	IV295	10524	IV421	10385	IV925	10176
HS943	230-2147	IV300	10218	IV422	10387	IV928	13365
HS945	230-2097	IV302A	10087	IV425	10562	IV935	10137
HS948	230-2147	IV303	10105	IV427	10814	IV937	10322
HS950L	230-2026L	IV305	10219	IV428	01913	IV939	10321
HS950R	230-2026R	IV309	02249	IV429	13038	IV940	10421
HS965L	230-2127L	IV310	10522	IV431	01745	IV942	10337
HS965R	230-2127R	IV310A	01931	IV432	02006	IV943	10735
IRA149	180-1321	IV3104A	01806	IV443	10157	IV944	10518
IRA607	180-1240	IV311	10520	IV444	10157	IV945	10506
IRA607A	180-1265	IV3111	01107	IV447	01598	IV946	10780
IV101	10145	IV3112	01703	IV448	01743	IV949	02241
IV104	10495	IV3114	01481	IV449	02006	IV950	10339SA
IV104A	10496	IV3116	01711	IV450	10243	IV954	13208
IV105	10141	IV3117	01929	IV455	10550	IV957	10473
IV107	10126A	IV3117A	01810	IV475	10247	IV958	10305
IV108	10143	IV312	01949	IV480	13225	IV960	10552
IV1100	01918	IV3125	01195	IV482	13225	IV968	13086
IV1119	01557	IV3125A	01393	IV489	02196	IV969	13088
IV1122	01916	IV3125B	01193	IV490	10234	IV971	13273
IV1130	01714	IV313	13331	IV500	10103	LIF101	VL141
IV1135	01671	IV3130	02057	IV520	10786	LIF107	VL135
IV1136	01904	IV3132	01726	IV522	13276	LIF1107	VL106
IV1137	01993	IV3138	01998	IV525	10172	LIF1122	VL89
IV1153	00938	IV3139	13211	IV526	10169	LIF1165	VL554
IV1160	02103	IV3139A	13081	IV528	10786	LIF1166	VL554
IV1165	02014	IV314	01997	IV529	10784	LIF122	VL149
IV1180	01781	IV3140	13179	IV530	10516	LIF129	VL149
IV119	10498	IV3143	01858	IV532	13197	LIF140	VL171
IV120	10816	IV3149	10213	IV535	13210	LIF145	VL87
IV121	10547	IV3149A	10117	IV536	13204	LIF150	VL173
IV122	10812	IV3152	01739	IV602	10268	LIF3022	VL73
IV124	10723	IV3152A	01707	IV605	10255	LIF310	VL123
IV125	10624	IV3158	02053	IV606	10270	LIF3101	VL37
IV126	10500	IV3160	02000	IV607	10273	LIF3104	VL115
IV129	13047	IV3165	01934	IV608	10056	LIF311	VL124
IV130	10534A	IV3181	02101	IV608A	10015	LIF3114	VL94
IV136	10808	IV319	10784	IV608C	10277	LIF312	VL175
IV138	10500	IV3195	01484	IV614	10224	LIF3120	VL571
IV140	01920	IV320	02172	IV616	10281	LIF3132	VL116
IV143	01901	IV325	02247	IV624	10226	LIF3149	VL109
IV143A	01712	IV328	01736	IV624A	10792	LIF3181	VL163
IV145	01449	IV329	01902	IV625	02181	LIF3195	VL114
IV146	01553	IV332	01941	IV627	13233	LIF328	VL138
IV148	01555	IV337	01592	IV628	10263	LIF408	VL146
IV149	01741	IV350	10502	IV630	10284	LIF411	VL107
IV150	01730	IV353	10739	IV632	10537	LIF4120	VL100
IV151	02008	IV402	10061	IV633	10015	LIF4137	VL35
IV158	01991	IV407	02194	IV635	13213	LIF4173	VL178
IV161	13347	IV408	10236	IV638	13077	LIF4179	VL178
IV162	13199	IV409	10162	IV640	10224	LIF420	VL113
IV164	02034	IV4104	01538	IV641	10224	LIF421	VL9
IV167	13190	IV4107	01505	IV644	13237	LIF422	VL150
IV174	13286	IV4109	02245	IV656	13220	LIF428	VL176
IV176	13190	IV411	01728	IV657	13079	LIF447	VL83
IV201	10078	IV4113	01328	IV662	13220	LIF510	VL120
IV206	10192	IV4116	01470	IV670	10228	LIF616	VL121
IV209	10195	IV412	01787	IV673	10794	LIF800E	VL524
IV212	10122	IV4120	01789	IV708	10299	LIF800I	VL523
IV212A	10742	IV4120A	01790	IV710	10806	LIF920	VL119
IV217	10434	IV4125	01546	IV710A	13139S	LIF936	VL119
IV219	10197A	IV4131	01709	IV718	13201	LIF937	VL519
IV223	10543	IV4137	01536	IV720	13201	RA125	180-1207
IV225	10206	IV4139	02046	IV800	10804S	RA140	180-1322
IV242	13358	IV4147	01699	IV806	10158S	RA145	180-1004
IV245	10432	IV4149	01924	IV808	10773	RA150	180-1324
IV245A	10541	IV415	10118	IV815	10556	RA422	180-1008
IV263	10778	IV4162	02192	IV821	10556	RA616	180-1264
IV263A	13336	IV4182	01701	IV900	10328A	RA900	180-1326
		IV4185	02118	IV902	10048	VG1100	140-3026
		IV4186	01548	IV903	10310	VG1135	140-8219
		IV4186A	01723	IV903S	10309	VG1137	140-3023

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VG140	140-3019	VGE119	140-8571	VGI328	140-8536	VN519	10070	
VG1447	140-9206	VGE121	140-8573	VGI332	140-8670	VN525	10314	
VG149	140-8555	VGE125	140-7577	VGI4107	140-9867	VN526	10176	
VG150	140-8556	VGE130	140-8571	VGI4120	140-8575	VN528	10310	
VG3112	140-8593	VGE131	140-8571	VGI451	140-8187	VN529	10337	
VG3116	140-9606	VGE135	140-8571	VGI470	140-8205	VN530	10339SA	
VG3117	140-8112	VGE136	140-8573	VGI475	140-8561	VN601	10087	
VG3132	140-8124	VGE140	140-3019	VGI490	140-8173	VN604	10105	
VG314	140-3029	VGE143	140-8547	VGI607	140-8211	VN606	10216	
VG3143	140-9690	VGE145	140-7451N	VGI616	140-8388	VN607	10218	
VG3149	140-8039	VGE200	140-7659	VGI630	140-8543	VN609	10219	
VG3165	140-3053	VGE204	140-7710	VGI632	140-8190	VN610	10219	
VG3179	140-5606	VGE211	140-8155	VGI640	140-8213	VN611	01481	
VG330	140-3009	VGE212	140-8155	VGI670	140-8216	VN704	10367	
VG337	140-8040	VGE216	140-3137	VGI710	140-8564	VN7061	10158S	
VG350	140-8255	VGE217	140-8577	VGI922	140-8585	VN708	10348	
VG400	140-8205	VGE223	140-8583	VGI937	140-8201	VN775	10406	
VG401	140-8200	VGE225	140-8581	VGI942	140-8208	VN800	10076	
VG407	140-8218	VGE290	140-8157	VGI944	140-8038	VN802	10127	
VG408	140-8172	VGE300	140-7714	VGI968	140-3134	VN803	10065	
VG409	140-8142	VGE305	140-7714	VSS338	122-1458	VN805	10141	
VG4109	140-3028	VGE3111	140-8256			VN807	10145	
VG411	140-8560	VGE3152	140-8668	SAAB			VN808	10143
VG4111	140-8559	VGE3181	140-3024	10214664	180-1337	VN809	10624	
VG4116	140-8545	VGE319	140-3011	12563063	02000	VN811	10126A	
VG413	140-8662	VGE328	140-8535	12563064	01935	VN950	01452	
VG4137	140-9204	VGE332	140-8671	12565836	122-1418	VN980	01449	
VG4139	140-3048	VGE353	140-8255	12575197	121-1127	VN981	01553	
VG416	140-9557	VGE4107	140-9607	12592506	160-1579	VN9821	01555	
VG4185	140-3047	VGE4120	140-8574	12616671	160-1588	VX101	10033S	
VG4186	140-9459	VGE447	140-9846	12786696	13331	VX106	10036S	
VG420	140-3012	VGE451	140-8186	12791961	13332SN	VX107	10256	
VG4200	140-8476	VGE607	140-8212	17122490	VL559	VX108	10269	
VG421	140-7198	VGE616	140-8389	90354648	121-1098	VX111	10271	
VG425	140-8561	VGE619	140-8544	90410816	02040S	VX114	10278S	
VG428	140-8663	VGE624	140-8204	90412277	10784	VX115	10282	
VG432	140-3070	VGE630	140-8544	90412277	10784	VX118	10276S	
VG433	140-8587	VGE640	140-8218	90537032	160-1508	VX120	10274S	
VG448	140-8274	VGE670	140-8217	90537241	122-1355	VX2051	10413	
VG500	140-8016	VGE710	140-8565	90537248	140-3029	VX209	10193	
VG510	140-8144	VGE918	140-8021	9194698	VL175	VX211	10191	
VG520	140-3127	VGE937	140-8202			VX212	10196	
VG530	140-8324	VGE944	140-8147	SAFETY			VX214	10123
VG534	140-3128	VGE957	140-8273	J0320004	10064	VX302	10060S	
VG538	140-3127	VGE960	140-8585	VN101	10031	VX303	10237	
VG600	140-7825	VGE968	140-3135	VN106	10015	VX307	10163	
VG602	140-7828	VGI107	140-8193	VN107	10255	VX312	10244	
VG603	140-8233	VGI1119	140-7847	VN109	10268	VX375	10153	
VG629	140-8190	VGI114	140-7576	VN113	10056	VX406	10300	
VG633	140-7499	VGI1160	140-3031	VN114	10277	VX450	10302	
VG706	140-8203	VGI1165	140-3021	VN115	10281	VX452	10173S	
VG723	140-8143	VGI1180	140-8658	VN116	10270	VX453	10102S	
VG806	140-7359	VGI119	140-8554	VN118	10275	VX454	10170	
VG808	140-8558	VGI121	140-8572	VN120	10273	VX501	10308	
VG815	140-8139	VGI125	140-7576	VN121	10263	VX502	10106	
VG900	140-7523	VGI130	140-8554	VN202	10078	VX509	10323	
VG903	140-8195	VGI136	140-8572	VN210	10192	VX510	10037	
VG907	140-8038	VGI140	140-3019	VN211	10190	VX513	10330A	
VG920	140-8147	VGI143	140-8548	VN212	10122	VX519	10069	
VG941	140-8018	VGI145	140-7429N	VN214	10195	VX525	10315	
VG943	140-8584	VGI149	140-8555	VN302	10061	VX526	10177	
VG950	140-8207	VGI206	140-7830	VN303	10236	VX528	10311	
VG954	140-3130	VGI211	140-8156	VN307	10162	VX529	10338S	
VG967	140-8586	VGI212	140-8156	VN312	10243	VX530	10340A	
VG970	140-8273	VGI216	140-3136	VN375	10118	VX601	10086	
VG972	122-1282	VGI217	140-8397	VN406	10299	VX604	10104	
VGE100	140-7589	VGI223	140-8582	VN450	10103	VX606	10217	
VGE107	140-8194	VGI225	140-8580	VN452	10172	VX607	10220S	
VGE1119	140-8494	VGI290	140-8158	VN453	10103	VX609	10221S	
VGE114	140-7577	VGI300	140-7713	VN454	10169	VX610	10221S	
VGE1160	140-3032	VGI305	140-7713	VN501	10307	VX611	01480	
VGE1165	140-3022	VGI3111	140-9973	VN502	10107	VX704	10370S	
VGE1180	140-8659	VGI3152	140-8666	VN509	10322	VX706	10356S	
		VGI3181	140-3025	VN510	10048	VX708	10349S	
		VGI319	140-3010	VN513	10328A	VX775	10407S	
		VGI321	140-8189			VX800	10083	

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SAFETY (Cont'd)							
VX801	10129	SS1023B	SB2008E-2	1302512	122-1089	1319516	122-1043
VX805	10142	SS1024A	SB2047E-1N	1302558	122-1089	1319516	122-1233
VX807	10146S	SS1024B	SB2047E-1	1303212	122-1082	1319616	122-1234
VX808	10144	SS1025A	SB2087E-2N	130328	122-1082	15105	122-1003
VX809	10625	SS1025B	SB2087E-2	1303312	122-1263	15320	122-1005
VX811	10128A	SS1026A	SB2126E-1N	130338	122-1263	15483	122-1006
VX950	01451	SS1026B	SB2126E-1	130418	122-1088	15704	122-1047
VX980	01448	SS1027A	SB2165E-1N	1304212	122-1079	15834	122-1007
VX981	01552	SS1027B	SB2165E-1	1304216	122-1079	1610	122-1009
VX9821	01554	SS1028B	SB2205E-2	130428	122-1079	1611	122-1268
		SS1029B	SB2244E-1	1304316	122-1003	1612	122-1011
		SS1030B	SB2284E-2	1304412	122-1036	1711	122-1267
		SS1031B	SB2323E-2	1304416	122-1036	1811	122-1014
		SS1033A	SB2402E-1N	1304712	122-1048	1812	122-1015
		SS1033B	SB2402E-1	1304716	122-1048	1912	122-1017
		SS1034A	SB2441E-1N	130478	122-1048	2214	122-1225
		SS1034B	SB2441E-1	1304812	122-1067	25076	122-1031
		SS1036B	SB2520E-1	130484	122-1067	25101	122-1032
		SS1038B	SB2677E-1	130488	122-1067	25108	122-1033
				1304916	122-1198	25113	122-1034
				130498	122-1198	25115	122-1035
				1305012	122-1069	25118	122-1036
				1305116	122-1203	25120	122-1037
				1305316	122-1045	25124	122-1038
				1308112	122-1147	25144	122-1039
				1308116	122-1147	25205	122-1040
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				131298	122-1011	45819	122-1236
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				131338	122-1075	45877	122-1077
				1313524	122-1075	45923	122-1079
				1315312	122-1017	55603	122-1082
				1315716	122-1031	55604	122-1263
				1315716	122-1038	55607	122-1132
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				131918	122-1089	719461	240-1024
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137150T010	13366						
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SS1023A	SB2008E-2N						
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1300816	122-1047						
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1302016	122-1034						
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1302412	122-1086						
130248	122-1086						
1302510	122-1089						

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SILVER SEAL (Cont'd)	13201AA081 10299	1291178K00 13215	A0992 VL63
719833 240-1018R	13201AA082 10299	1291179K00 13204	A2000 VL48
719834 240-1017	13201AA340 13139S	1291182000 10103	A2011 VL89
719835 240-1017R	13201AA361 10806	1291182010 10103	A2083 VL9
9010 122-1189	13201AA362 10806	1291182Z00 13077	A2084 VL31
CB016 220-1008	13201AA371 13201	1291182Z10 13237	A2089 VL88
CB140 220-1006	13201AA391 13201	1291185Z00 10784	A2095 VL94
CB173 220-1019	13201AA400 13201	1291186FAO 10786	A2104 VL114
CB183 220-1005	13201AA493 13257	1291559J00 13277	A2105 VL87
CB201 220-1017	13201AA522 13259	1291560A00 10173S	A2148 VL115
CB215 220-1030	13201AA550 13261	1291560A50 10173S	A2205 VL100
CB302 220-1033	13202AA110 10300	1291560B20 10170	A2217 VL113
CB350 220-1018	13202AA112 10300	1291560B70 10170	A2236 VL116
DV32 231-1000	13202AA170 10300	1291565J01 13198	A2240 VL173
HT1 231-1001	13202AA171 10300	1291571C00 10517	A2244 VL150
HT1L 231-1002	13202AA350 13140S	1291571C50 10517	A2252 VL123
N32690 122-1217	13202AA371 10807	1291578J00 13205	A2255 VL124
VK281 121-1084	13202AA401 13203S	1291578J10 13205	A2269 VL106
VK619 121-1024	13202AA411 13203S	1291578K00 13216	A2270 VL138
VK766HD 121-1014	13202AA502 13258	1291582000 10302	A2271 VL107
	13202AA530 13260	1291582001 10302	A2279 VL163
	13202AA590 13262	1291582050 10302	A2298 VL573
	13202AA660 13203S	1291582Z00 13078	A2304 VL178
STANADYNE	13207AA110 122-1429	1291582Z10 13238	A2305 VL180
12301 VL73	13207AA120 122-1180	1291582Z30 13078	A2308 VL562
12303 VL9	13207KA020 122-1428	1291585FAI 10787S	A2319 VL175
12304 VL49	13210AA020 121-1129	1291585Z00 02040S	A2332 VL560
12306 VL8	13210KA031 121-1130	1291586F50 10787S	ALAMA12 VL146
12307 VL35	13211AA030 122-1187	1291782Z00 122-1150	ALAMI4H VL141
12308 VL32	13211AA100 122-1430	1292062G00 160-1594	B2056 VL109
12309 VL5	13211AA110 122-1181	1292160A00 160-1318	B2319 VL175
12328 VL64	13211KA001 122-1187	1292178J00 160-1588	EV037 10555S
12329 VL89	13212AA040 140-8203	1292182Z00 160-1590	EV069 10370S
12335 VL109	13212AA090 140-8564	1292182Z10 160-1591	EV069D7 10732S
12338 VL83	13212AA100 140-8565	1292182Z11 160-1591	EVAC1 10123
12339 VL88	13212AA130 140-3118	1292182Z40 160-1590	EVAC2 10437
12340 VL86	13213AA100 140-8565	1292182Z50 160-1591	EVAC3 10435
12341 VL87	13213AA120 140-3119	1292185Z00 160-1578	EVAC5 10546
12342 VL94	13217AA260 160-1621	1293224400 121-1060	EVAC7S 13173
12343 VL37	13217AA261 160-1621	1293278J00 121-1127	EVAC9 10779
12345 VL66RH	13217AA390 160-1622	1293282000 121-1061	EVC24L 01552
12346 VL67RH	13230AA110 VL146	1293282Z00 121-1064	EVC26 01731
12348 VL114	880904110 140-8143	1293285FA0 121-1099	EVC26L 02009
12350 VL73		1293285Z00 121-1098	EVC27 01742
12355 VL115	SUPERIOR	1293378J00 122-1418	EVC27L 01992
12356 VL113	A010785 140-6479	1293985Z00 122-1329	EVC3 10086
12357 VL106	A022935 140-6929	928907005 122-1142	EVD10 10271
12366 VL117RH		928907007 122-1142	EVD14 10036S
12369 VL116	SUZUKI		EVD15 10269
12373 VL100	0928905012 122-1155	THERMO KING	EVD24L 10256
12376 VL141	0928906003 122-1246	112719 10215S	EVD26 10282
12377 VL146	1111554G00001 140-3128	112727 10214	EVD26Q 10282S
12380 VL107	1111560B11001 140-8324	12013011860 140-3190	EVD26Z 10285S
12402 VL63	1111562D00001 140-8144	12140011340 122-1484	EVD28 10274S
12405 VL21	1111582000001 140-8016	12446011340 122-1483	EVD30 10229
12410 VL31	1111582000001 140-8144	12900411130 13414	EVD31 10227S
12420 VL48	1111585FA1001 140-3127	12910011100 13415	EVD34 10538
12482 VL81	1111585FAO001 140-3127	12910011130 13416	EVD36 10793S
1249 170-1012	1111585Z00 140-3010	12915011810 140-3191	EVD37 10536
	1111586500001 140-8016	12979511120 160-1665	EVD39 10536
STERLING	1111685Z00 140-3011	1371531091 13089S	EVD40 10795
12212290061 10195	1284078J00 180-1323	27310080001 121-1138	EVD42 13078
12212290062 10123	1286078J00 VL175		EVD44 13214
	1289186511 VL120	TOPLINE	EVDW3 02250S
	1289186512 VL120	A0812 VL8	EVFD2 10153
	1289186521 VL120	A0817 VL37	EVFD3 10153
	1291159J00 13276	A0817R VL66RH	EVFD5 10388
	1291160A10 10172	A0846 VL5	EVGAC3 140-8577
	1291160B20 10169	A0892 VL21	EVGC11 140-7589
	1291165J00 13197	A0900 VL35	EVGC15 140-7577
	1291165J01 13197	A0900R VL67RH	EVGC23 140-7575
	1291171C00 10516	A0951 VL49	EVGC24 140-7451N
	1291178J00 13210	A0969 VL73	EVGC4 140-7714
	1291178J10 13210	A0969R VL117RH	EVGD26 140-8017
			EVGD26Z 140-8544
			EVGD28 140-8212
SUBARU			
13201AA080 10299			

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TOPLINE (Cont'd)							
EVG29	140-8213	EVM127	10501	HBTO38	220-1043	IVH18	10122
EVG30	140-8217	EVM12L	10497	HT2012	VL83	IVH18L	10742
EVG31	140-8204	EVM135	13348	HT2102	VL86	IVH19	10195
EVGH10	140-7710	EVM137T	13397	HT945	VL32	IVH20	10197A
EVGH12	140-7659	EVM13L	10142	HT976	VL64	IVH21	10190
EVGH16	140-8155	EVM15	10144	IV037	10733	IVH25	10524
EVGH21	140-8157	EVM16	10128A	IV069	10367	IVH26	10432
EVGH22	140-8157	EVM19	10625	IV069D7	10731	IVH28	10543
EVGH28	140-8583	EVSU11L	13140S	IVA6L	10370S	IVH29	10206
EVGH29	140-8581	EVSU11S	10807	IVAC2	10436	IVH34	10541
EVGH44	140-3137	EVSU12	13258	IVAC3	10434	IVH50	13358
EVGHY2	140-8573	EVSU12T	13260	IVAC5	10197A	IVH8	10078
EVGHY7	140-8573	EVSU12TL	13262	IVAC7	13172	IVHY11	13255
EVGIS10	140-8291	EVSU9	10300	IVAC9	10778	IVHY14	13286
EVGIS16	140-3011	EVSZ11	13277	IVAC9M	13336	IVHY2	10547
EVGIS8	140-8255	EVSZ12	13205	IVC23L	10145	IVHY3	10723
EVGM1	02248S	EVSZ15	13216	IVC24L	10255	IVHY4	10812
EVGM5	13368S	EVSZ16	13205	IVC26	01730	IVHY4L	13047
EVGM120	140-7577	EVSZ2	10302	IVC26L	02008	IVHY5	10816
EVGM122	140-8571	EVSZ2L	10170	IVC27	01741	IVHY7	10808
EVGM16	140-8194	EVSZ4	10173S	IVC27L	01991	IVIG3	10105
EVGM19	140-7577	EVSZ5	10517	IVC4	10087	IVIS12	10502
EVGSU13	140-8565	EVSZ8	10787S	IVD10H	10270	IVIS13	10739
EVGTO18	140-8021	EVTO18	10106	IVD14	10015	IVIS16	10784
EVGTO24	140-8202	EVTO18F	10177	IVD15	10268	IVIS3	10105
EVGTO34	140-8585	EVTO20	10338S	IVD24L	10255	IVIS6	10218
EVGTO38	140-8273	EVTO24	10323	IVD26	10281	IVIS7	10219
EVGTO55	140-3135	EVTO25	10420	IVD26Q	10281	IVK5	10814
EVH14L	10413	EVTO26	10311	IVD26Z	10284	IVK6	02196
EVH15	10193	EVTO27	10474	IVD27L	10263	IVK7	02194
EVH18L	10196	EVTO28	10315	IVD28	10273	IVK8	13038
EVH19	10196	EVTO29	10507	IVD29	10224	IVMA12	10162
EVH20	10198A	EVTO31	10340A	IVD30	10228	IVMA13	10234
EVH21	10191	EVTO32	10138	IVD31	10226	IVMA15	10550
EVH23	10414	EVTO33	10306S	IVD34	10537	IVMA16	10243
EVH25	10525	EVTO34	10553S	IVD36	10792	IVMA17	10562
EVH26	10542	EVTO35	10306S	IVD40	10794	IVMA18	10247
EVH28	10544	EVTO36	10519	IVD42	13077	IVMA25T	13305
EVH29	10207	EVTO39	10736	IVD44	13213	IVMA26	01728
EVH34	10542	EVTO39L	10781	IVDW3	02249	IVMA27	01787
EVH50	13359	EVTO41	02240	IVFD2	10118	IVMA7	10061
EVHY11	13256	EVTO42	02178S	IVFD3	10118	IVMA8	10236
EVHY14	13287	EVTO43	13274S	IVFD5	10387	IVMA9M	10157
EVHY2	10548	EVTO44	10799	IVGAC3	140-8397	IVMA9T	10157
EVHY2L	10549	EVTO48	13209	IVGC14	140-7576	IVMI22	10498
EVHY3	10724	EVTO49	13087	IVGC21	140-7576	IVMI24	10534A
EVHY4	10813	EVTO55	13366	IVGC24	140-7429N	IVMI27	10500
EVHY5	10817	EVTO8	10037	IVGC3	140-7713	IVMI2A	10495
EVHY7	10809	EVTO80	10330A	IVGD26	140-7873	IVMI2A	10496
EVIS12	10503	EVV04	10407S	IVGD26Z	140-8543	IVMI2B	10495
EVIS13	10740	EVV016	13303	IVGD28	140-8211	IVMI2B	10496
EVIS16	02040S	EVVW11	10557S	IVGD29	140-8218	IVMI35	13347
EVIS3	10104	EVVW12	10805S	IVGD30	140-8216	IVMI3L	10141
EVIS6	10220S	EVVW14	10356S	IVGD31	140-8211	IVMI5	10143
EVIS7	10221S	EVVW15	10803S	IVGH16	140-8156	IVMI6	10126A
EVIS8	10221S	EVVW17	13316SN	IVGH21	140-8158	IVMI9	10126A
EVK5	10815	EVVW21	13318	IVGH28	140-8582	IVSU11L	13139S
EVK6	02197	EVVW22	13313S	IVGH29	140-8580	IVSU11S	10806
EVK7	02195	HBC25	220-1075	IVGH3	140-7830	IVSU12	13257
EVK8	13039	HBC26	220-1072	IVGHY2	140-8572	IVSU12T	13259
EVM19	10625	HBC27	220-1074	IVGHY7	140-8572	IVSU12TL	13261
EVMA12	10163	HBC28	220-1083	IVGIS16	140-3010	IVSU9	10299
EVMA13	10235	HBC31	220-1077	IVGIS8	140-8189	IVSZ11	13276
EVMA15	10551	HBFD5	220-1016	IVGM1	02247	IVSZ12	13210
EVMA16	10244	HBMA17	220-1028	IVGM5	13367	IVSZ15	13215
EVMA17	10563	HBMA27	220-1094	IVGMA13L	140-8187	IVSZ16	13204
EVMA18	10248	HBM122	220-1046	IVGMI20	140-7576	IVSZ2	10103
EVMA25T	13306	HBM19	220-1021	IVGMI22	140-8554	IVSZ21	10169
EVMA27	01788	HBSU9	220-1047	IVGMI6	140-8193	IVSZ2L	10169
EVMA7	10060S	HBSZ1L	220-1026	IVGMI6	140-8554	IVSZ4	10172
EVMA8	10237	HBTO14L	220-1060	IVGMI9	140-7576	IVSZ5	10516
EVMA9T	10159	HBTO25	220-1060	IVGSU13	140-8564	IVSZ8	10786
EVM122	10499	HBTO28	220-1035	IVGTO24	140-8201	IVTO18	10107
EVM124	10535A	HBTO31	220-1052	IVGTO34	140-8584	IVTO18F	10176
		HBTO32	220-1050	IVGTO55	140-3134	IVTO20	10337
		HBTO33	220-1048	IVH15	10192	IVTO24	10322

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TOPLINE (Cont'd)	VGMA17	140-8561	TOYOTA	1113560010	SB1625-58
	VGMA19	140-8587		1113562020	SB1187-53
	VGMA27	140-8560	1112210040	1113563010	SB1437-66
IVTO25	VGMA6	140-9557	1112215030	1113565010	SB1562-72
IVTO26	VGMA7	140-8200	1112216010	1113565011	SB1562-72
IVTO26S	VGMA8	140-8172	1112216020	1113571010	SB1500-58
IVTO27	VGSU6	140-8143	1112216020	1113574020	SB1187-51
IVTO28	VGSU9	140-8203	1112220020	1113574030	SB1187-51
IVTO29	VGSZ12	140-3112	1112223010	1113576020	SB1312-67
IVTO31	VGSZ15	140-3128	1112223011	1113576040	SB1312-67
IVTO32	VGSZ16	140-3112	1112224020	1113711020	SB1062-50
IVTO33	VGSZ2	140-8016	1112231020	1371103020	10421
IVTO34	VGSZ2L	140-8324	1112231050	137110D010	10780
IVTO36	VGSZ3	140-8144	1112235020	137110F010	13273
IVTO38	VGSZ5	140-8324	1112238020	137110H010	10798
IVTO39	VGSZ8	140-3127	1112238021	137110P010	13086
IVTO39L	VGTO18L	140-8038	1112242010	137110P030	13086
IVTO4	VGTO19	140-8018	1112243010	137110T010	13365
IVTO41	VGTO20	140-8208	1112244011	1371110020	10310
IVTO42	VGTO26	140-8195	1112246010	1371111010	10137
IVTO43	VGTO28	140-8147	1112246010	1371111012	10137
IVTO44	VGTO29	140-8147	1112260020	1371115010	10107
IVTO48	VGTO31	140-8207	1112261011	1371115050	10314
IVTO49	VGTO39	140-8584	1112265020	1371115090	10506
IVTO55	VGTO48	140-3130	1112266020	1371116010	10176
IVTO8	VGTO8	140-7523	1112271020	1371120020	10552
IVTO80	VGWV11	140-8139	1112274030	1371121010	02241
IVVO16	VGWV12	140-3159BR	1112275020	1371122030	10735
IVVO4	VSS027	122-1250	1112331050	1371123011	13060
IVVW11	VSS056	122-1089	1112615011	1371123020	10758
IVVW12	VSSC11	122-1114	1112615020	1371123021	10760
IVVW14	VSSC17	122-1086	1112616020	1371124011	10307
IVVW16	VSSC17	122-1088	1112620020	1371131012	10770
IVVW17	VSSC17	122-1127	1112631030	1371131030	10772
IVVW21	VSSC17	122-1163	1112646010	1371131070	13088
IVVW22	VSSC24	122-1052	1112650040	1371131071	13088
LIFC28	VSSC24	122-1053	1112650050	1371131100	13086
LIFC31	VSSC24	122-1079	1112660021	1371131101	13086
LIFD26	VSSC24	122-1119	1112661011	1371135010	10328A
LIFGM1	VSSC26	122-1251	1112671020	1371135030	10328A
LIFGM5	VSSD10	122-1139	1112731030	1371135031	10328A
LIFHY3	VSSD10	122-1150	1113111010	1371135040	10328A
LIFHY4	VSSD10	122-1262	1113111020	1371135050	10328A
LIFMA13	VSSD24	122-1141	1113115010	1371135051	10328A
LIFM16	VSSD25E	122-1158	1113115020	1371138010	10048
LIFSZ8	VSSD27	122-1063	1113115040	1371142020	10337
LIFT018	VSSD27	122-1150	1113116010	1371144012	10754
LIFT024	VSSD29	122-1162	1113116040	1371144013	10756
LIFVW12E	VSSD3	122-1119	1113124010	1371146021	10518
LIFVW12L	VSSD3	122-1159	1113135010	1371146022	10518
LIFVW17	VSSGM5	122-1468	1113135011	1371148010	13068
RAC25	VSSH19	122-1136	1113138010	1371150060	13273
RAC27E	VSSH19	122-1152	1113146020	1371160021	10070
RAC27I	VSSH21	122-1201	1113150020	1371160210	10070
RAD26	VSSH21	122-1202	1113161010	1371161010	10070
RAD28EF	VSSH21	122-1202	1113162010	1371162030	10305
RAD28ER	VSSH21	122-1202	1113162020	1371165010	10339SA
RAD28IF	VSHY14	122-1444	1113162030	1371168010	10762
RAD28IR	VSSIS3	122-1130	1113163010	1371171010	10322
RAMI9R	VSSMA13	122-1147	1113165010	1371174080	10421
RASET08	VSSMA13	122-1246	1113174010	1371175050	10321
RATO8	VSSMA13	122-1285	1113174020	1371175060	10321
VG056	VSSMA7	122-1132	1113175030	1371175110	13208
VGC26	VSSMA7	122-1132	1113176020	1371176008	13068
VGC27	VSSMA9	122-1149	1113511010	1371176015	13060
VGD10	VSSS22	122-1142	1113511020	1371176020	10473
VGD23	VSSS22L	122-1155	1113513010	1371176040	10473
VGD24	VSSTO15	122-1147	1113515010	1371178102	10768
VGD27	VSSTO15	122-1165	1113515020	1371188600	02177
VGD3	VSSTO15	122-1252	1113515021	1371196101	10768
VGH43	VSSTO15	122-1253	1113515030	1371211020	10309
VGHY11	VSSTO15	122-1366	1113516010	1371503020	10420
VGHY14	VSSTO34	122-1266	1113535010	137150D010	10781
VGIS10	VSSTO34	122-1266	1113542010	137150F020	13274S
VGIS12	VSSVO17T	122-1452	1113545010	137150H010	10799
VGMA12			1113546020	137150H030	10799
VGMA13			1113546050	137150P010	13087
			1113550020		

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TOYOTA (Cont'd)	8050176135	160-1521	AS1872	00598S	IS250	SB1562-1
	805017614471	160-1307	AS2090	01206S	IS250H	SB1562-1N
137150P030	13087	122-1147	AS2270	00574S	IS259	SB1250-1
137150S020	13087	122-1266	AS2302	00559S	IS264N	SB1628E-2
137150T010	13366	122-1282	AS2304	00427S	IS270H	SB1875-7
1371510030	10311	122-1282	AS2365N	01075S	IS272H	SB1348E-1N
1371511030	10138	122-1282	AS2417	00753S	IS274H	SB1750-3N
1371515010	10106	122-1282	AS2472	00602S	IS294H	SB2000-3N
1371515030	10315	160-1385	AS2491	00751S	IS301H	SB1744E-1N
1371515070	10507	160-1444	AS2535	01177S	IS303H	SB1678E-1
1371516010	10177	220-1060	AS2550	01261S	IS306H	SB1624E-1N
1371520020	10553S	160-1252	AS2666	01133S	IS308	SB1161E-1
1371521010	02240	160-1253	AS2685	00746S	IS311	SB1750-5
1371522030	10736	160-1055	AS2690	00996S	IS312HN	SB1687-2N
1371523011	13070	160-1521	AS2820	01177S	IS325	SB1937-1
1371523020	10759	160-1523	AS2841	00982S	IS326	SB2000-1
1371523021	10761	160-1106	AS2866	01017S	IS329H	SB2088E-1
1371524012	10308	160-1519	AS2878	01312S	IS330H	SB2444E-1
1371524013	10308	160-1025	AS2896	01294S	IS332H	SB2003E-1
1371524030	10308	160-1307	AS2941	00702	IS332H3	SB2006E-1
1371528040	10799	160-1038	AS2958	10033S	IS333H	SB1630E-1N
1371531012	10771	160-1339	AS2959	10036S	IS336	SB1262E-1
1371531030	10773	160-1319	AS2973	10037	IS363	SB1750-2
1371531090	13089S	220-1052	AS2990	01305S	IS366H	SB1803E-1
1371531120	13087	220-1048	AS2991	01145S	IS368	SB2020E-1
1371531140	13087	122-1037	AS3000	01350S	IS371H	SB2220E-1
1371531150	13087	122-1127	AS3009	01217S	IS377	SB1815E-1
1371535010	10330A	122-1125	AS3015	01431S	IS379H	SB1691E-2
1371535020	10330A	122-1125	AS3019	01497S	IS380H	SB1691E-1
1371538010	10037	122-1125	AS3020	01468S	IS384H	SB1687E-1N
1371538011	10037	122-1147	AS3023	01506S	IS385H	SB1442E-2
1371538020	10037	122-1389	AS3041	01376S	IS386	SB1505E-1
1371538023	10037	122-1125	AS3052	01422S	IS387H	SB1812E-1
1371538050	10037	122-1127	AS3078	01368S	IS388H	SB2003E-3N
1371542010	10338S	122-1127	AS3089	01205S	IS393H	SB1654E-1N
1371544010	10755	122-1147	AS3095	01525S	IS394H	SB1912E-1
1371544012	10755	122-1130	AS3097	01523S	IS397H	SB1750-1N
1371544013	10757	122-1127	AS3112	01420S	IS400H	SB1442E-1
1371546020	10519	122-1147	AS3131	10269	IS402H	SB2004E-2
1371548010	13069	122-1147	AS3144	10064	IS404H	SB1628E-1N
1371550060	13274S	122-1127	AS3160	10060S	IS405	SB2001E-1
1371550070	13274S	122-1147	AS3162	01483S	IS406	SB1500-50
1371560032	10069	122-1147	AS3227	10271	IS407	SB2150E-1
1371561010	10069	122-1147	AS3229	10278S	IS408	SB1750-51
1371561030	10069	122-1147	AS3262	10370S	IS409	SB2129E-1
1371561040	10342S	122-1147	AS3299	01482S	IS411	SB1690E-1
1371562030	10306S	122-1246	AS3361	01578S	IS413H	SB1625-3N
1371562050	10306S	122-1147	AS3363	01235S	IS414H	SB1670E-1
1371565010	10340A	122-1147	AS3364	01646S	IS415H	SB1486E-1
1371568010	10763	122-1246	AS3396	01294S	IS416	SB1814E-1
1371571010	10323	122-1163	AS3412	10116	IS417	SB1609E-1
1371574080	10420	122-1127	AS3416	10215S	IS419H	SB1781E-1N
1371575040	10474	122-1165	AS3437	01261S	IS420H	SB1671E-1N
1371575050	10474	122-1130	AS3466	10349S	IS423H	SB2049E-1
1371575100	13209	122-1282	AS3493	10413	IS425H	SB1669E-1
1371575140	13209	122-1285	AS3496	10356S	IS426	SB1973E-1
1371576007	10755	122-1130	AS3534	10276S	IS427H	SB1775E-1
1371576009	13069	122-1282	AS3540	10256	IS428	SB1812-3
1371576020	10474	122-1282	AS3627	10220S	IS429	SB2125-2
1371576030	10474	122-1347	AS3807	10102S	IS430	SB1812-4
1371578102	10769	122-1347	AS3870	10285S	IS431	SB1687-3
1371588601	02178S	121-1023	IS100	SB1437-3	IS432	SB1625-3
1371596101	10769	121-1028	IS102	SB1500-1	IS433	SB1812-5
1375071010	VL519	121-1058	IS104	SB1625-1	IS438	SB1875-2
1375071020	VL519	121-1100	IS107	SB1750-4	IS439	SB1687-1
1375111010	VL119	121-1100	IS150	SB1375-4	IS440	SB1375-1
1375116010	VL119	122-1266	IS166	SB1625-4	IS441	SB1437-2
1375140010	VL81	122-1282	IS167	SB1687-7	IS442	SB1875-1
1375144011	VL81	10107	IS207	SB1516E-1	IS443	SB1750-65
1375144040	VL81	10106	IS210	SB1625-1+005	IS445	SB1562-2
1375144090	VL81	140-8147	IS232H	SB1847E-1	IS446	SB1625-56
1378144011	VL81		IS242	SB1640E-1	IS447	SB1875-51
1378161010	190-1513		IS245	SB1375-5	IS448	SB1562-54
1380135010	180-1326		IS248	SB1562-8	IS449	SB1750-60
1381138010	180-1326		IS249	SB1750-8	IS452	SB1812-2
1391238011	186-1035		IS249H	SB1750-8N	IS453	SB2125-1
	TRW					
	386T	140-8555				
	AS1790N	00326S				

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TRW (Cont'd)							
IS454	SB2062-1	IS571	SB1722E-1	S2678	01307	S3286	10282
IS455	SB2250-1	IS572	SB1853E-1	S2683	01233	S3292	10407S
IS458	SB1441E-1	IS576	SB1875-54	S2693	01189	S3305	01542
IS459	SB1250-52	KO520	SB1750-52	S2695	01135	S3321	01504
IS462	SB1375-52	R0073288	161-1056	S2704	00793	S3324	10104
IS464	SB1375-54	S1013	00154	S2809	01192	S3328	10177
IS465	SB1437-1	S1601	00170	S2809+3	01192+3	S3332	10123
IS466	SB1437-4	S1602	00196	S2813	01179	S3337	10142
IS467	SB1437-50	S1669	00203	S2815	01169	S3341	10146S
IS469	SB1437-53	S1673	00205	S2815+15	01169+15	S3358	01483S
IS470	SB1437-56	S1821	00212	S2817	01171	S3367	01814
IS471	SB1437-59	S1824	00210	S2825	01041	S3369	01552
IS472	SB1437-62	S1844	00234	S2827	01199	S3372	10217
IS473	SB1500-53	S1845	00485	S2832	01237	S3373	10220S
IS474	SB1500-57	S1855	00257	S2832+15	01237+15	S3374	10129
IS480	SB1562-5	S1872	00249	S2834	01160	S3390	01597
IS481	SB1562-51	S1888	00220	S2846	01212	S3391	01527
IS484	SB1562-57	S1892	00489	S2847	01210	S3393	01265
IS486	SB1625-11	S1950	00303	S2862	01215	S3394	01135
IS488	SB1625-52	S1958	00312	S2868	01245	S3398	01550
IS489	SB1625-58	S1966	00319	S2870	01324	S3399	01537
IS491	SB1687-54	S1970	00327	S2877	01247	S3400	01469
IS492	SB1750-12	S1981	00486	S2898	01300	S3402	01554
IS496	SB1750-59	S1990	00159	S2900	01271	S3408	10311
IS499	SB1812-52	S2019	00348	S2907	01326	S3410	01568
IS500	SB1812-53	S2035	00310	S2909	01325	S3413	02058
IS502	SB1875-6	S2054	00375	S2911	01257	S3414	01192
IS503	SB1937-12	S2090	00400	S2923	01292	S3419	01674
IS504	SB1937-51	S2185	00518	S2925	01309	S3430	01419
IS506	SB2125-3	S2234	00270	S2928	01300	S3431	01675
IS507	SB1812E-3	S2243	00520	S2936	01310	S3432	01710
IS508	SB1880E-2	S2251	00185	S2938	01320	S3438	10128A
IS509	SB1312-50	S2267	01500	S2942	01597	S3440	01511
IS510	SB1500-3	S2306	00564	S2946	01322	S3442	01478
IS511	SB1500-58	S2309	01265	S2952	01321	S3444	10315
IS512	SB1437-63	S2323	00400	S2984	01327	S3448	01389
IS513	SB1562-69	S2363	00503	S2993	01354	S3449	01591
IS514	SB1125-51	S2366	00592	S2994	01361	S3466	10349S
IS516	SB1312-59	S2373	00758	S3005	01358	S3477	01547
IS517	SB1500-71	S2374	00759	S3005+15	01358+15	S3478	01670
IS518	SB1500-63	S2383	01242	S3011	01135	S3480	01545
IS519	SB1687-51	S2383+15	01242+15	S3019	01378	S3481	01397
IS520	SB1750-61	S2436	00690	S3037	01367	S3482	01469
IS521	SB1500-62	S2448	02084	S3037+15	01367+15	S3484	01535
IS522	SB1375-51	S2456	00742	S3040	10086	S3488	10386
IS523	SB1812-50	S2465	00921	S3046	01389	S3490	01135
IS524	SB1812-51	S2467	00882A	S3051	01519	S3492	01135
IS527	SB1812-55	S2469	00919	S3054	01500	S3494	10625
IS529	SB1437-61	S2485	01332	S3062	01814	S3588	10323
IS531	SB1812-54	S2485+15	01332+15	S3071	01399	S3627	10220S
IS532	SB1625-53	S2494	00970	S3077	01381	S3801	01556
IS533	SB1500-54	S2498	00974	S3079	01419	S3809	10106
IS535	SB1375-55	S2500	00976	S3080	01417	S3811	01597
IS536	SB1312-57	S2505	01329	S3080+15	01417+15	S3831	01727
IS537	SB1562-66	S2505+15	01329+15	S3093	01394	S3833	10338S
IS538	SB1312-57	S2507	00549	S3100	01648	S3860	10244
IS539	SB1562-66	S2514	00658	S3102	00608	S3866	10221S
IS541	SB1312-62	S2529	01242	S3104	01192	S3871	10163
IS542	SB1312-52	S2530	01266	S3130	10308	S4227	10033S
IS546	SB1937-52	S2530+15	01266+15	S3132	01455	S4228	10269
IS547	SB1562-67	S2546	01072	S3138	01451	S4266	01320
IS549	SB1500-71	S2550	01106	S3141	10083	S800	00100
IS550	SB1312-59	S2563	01000	S3156	00168	S803	00121
IS552	SB1812-54	S2596	00989	S3161	01192	SC2297	00530SN
IS553	SB1625-53	S2619	00923	S3188	01480	SC3060	00917SN
IS554	SB1312-53	S2635	01093	S3212	01597	SC3070	01385SN
IS556	SB1875-50	S2638	01097	S3215	01203	SC3081	01383SN
IS558	SB1437-60	S2649	01288	S3217	01441	SC3090	01241SN
IS559	SB1500-70	S2656	00873	S3226	01448	SX2865	01037
IS560	SB1625-59	S2661	01047	S3246	10106	SX2874	01375
IS567	SB1062-50	S2663	01083	S3247	10330A	SX3006	01366
IS568	SB1250-54	S2665	01156	S3250	10237	SX3042	01377
IS569	SB1375-51	S2668	01188	S3262	10370S	SX3107	01018
IS570	SB1187-52	S2670	01147	S3265	10069	SX3173	01446
		S2672	01102	S3271	10193	SX3481	01397
		S2676	01055	S3281	10276S	SX3800	10413

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TRW (Cont'd)	V2677	00867	V3114	10268	V3539XS	10255	
V1014	00155	V2682X	01306	V3115X	10307	V3587	10322
V1603	00810	V2684X	01234	V3133X	01456	V3596	10078
V1628	00169	V2691X	00997	V3137X	01452	V3626	10218
V1670	00204	V2692	01131	V3139XS	01415S	V3802	01557
V1674	00193	V2694X	01194	V3140X	10076	V3808	10103
V1690X	00349	V2696	01137	V3145X	10065	V3810	10107
V1698X	00298	V2696+15	01137+15	V3158X	10078	V3812	01598
V1846	00230	V2698X	00912	V3163X	01365	V3832	01726
V1886X	00600	V2810	01193	V3189X	01002	V3834	10337
V1941	00302	V2810+15	01193+15	V3205	01450	V3858	10145
V1959	00313	V2816X	01170	V3216X	01204	V3859	10243
V1967X	00318	V2816X+15	01170+15	V3218	01442	V3864	10309
V1982	00343	V2818X	01172	V3221	01449	V3867	10219
V1991	00160	V2819X	01273	V3238X	10277	V3868	10284
V2036	00311	V2826X	01042	V3243X	10328A	V3873	10176
V2056X	00373	V2828	01200	V3245X	10107	V3959	00155
V2091	00399	V2833	01238	V3249X	10236	V3960	00169
V2092X	00601	V2833+15	01238+15	V3253	01481	V3965	00302
V2214XS	01036S	V2842X	00983	V3254X	01484	V3967	00160
V2227	00494	V2845X	01186	V3258X	10270	V3972	00567
V2253X	00585	V2857	01161	V3263	10367	V3976	00504
V2275	00308	V2863	01216	V3267	10070	V3977	00593
V2279N	00548	V2867	01107	V3272	10192	V3978X	00376
V2298XS	00531S	V2869	01296	V3276	10255	V3980	00691
V2303X	00560	V2871	01263	V3282	10275	V3984	00969
V2305	00428	V2875XS	01336S	V3285	10281	V3985	01457
V2310	00567	V2899	01285	V3293	10406	V3986	00659
V2311	00514	V2901X	01272	V3304X	01543	V3987	01268
V2342	00627	V2910	01260	V3320	01505	V3988	00963
V2348	00637	V2912X	01258	V3327	10176	V3989	01120
V2348+15	00637+15	V2924	01293	V3331	10195	V3991	01001
V2351N	00696	V2937	01311	V3338	10141	V4230	00560
V2364	00504	V2943	01598	V3342	10145	V4252	01598
V2367	00593	V2947	01323	V3362	01087	V4267X	01432
V2372X	00376	V2956X	10015	V3365	01195	V804	00122
V2418X	00755	V2957X	10031	V3366	01450	VL208	VL109
V2437	00691	V2978	10048	V3370	01553	VL21	VL21
V2449	00678	V2985	01328	V3371	10216	VL212	VL87
V2466	00922	V2985+15	01328+15	V3375	10127	VL213	VL88
V2468	00883	V2985+3	01328+3	V3376	10127	VL214	VL86
V2470	00988	V2992XS	01146S	V3382	01452	VL217	VL94
V2471	00550	V2995	01362	V3383	01546	VL223	VL121
V2483	00947	V3001XS	01351S	V3384	01470	VL227	VL114
V2486	00949	V3003X	10056	V3385	01470	VL230	VL115
V2488X	00918	V3007	01357	V3386	01328	VL231	VL141
V2488XS	01057S	V3010X	01348	V3387	01538	VL240	VL106
V2495	00969	V3012X	01402	V3388	01528	VL241	VL119
V2499	01457	V3013X	01403	V3389	01598	VL248	VL114
V2501	00975	V3014	01379	V3395	02057	VL250	VL116
V2506	00938	V3021XS	01462S	V3397	01195	VL252	VL113
V2506+15	00938+15	V3022X	01432	V3401	10218	VL253	VL100
V2515	00659	V3024	01507	V3403	01555	VL35	VL35
V2531	01268	V3027X	10061	V3406	10310	VL37	VL37
V2533	00963	V3030X	01404	V3411	01569	VL43	VL63
V2536	01120	V3034	10087	V3415	10214	VL48	VL48
V2547	00958	V3047	01388	V3418	01673	VL49	VL49
V2552	01195	V3053X	01423	V3433	01711	VL5	VL5
V2552+15	01195+15	V3057X	01520	V3434	01551	VL58	VL89
V2552+3	01195+3	V3063	01813	V3439	10126A	VL67RH	VL67RH
V2562X	01164	V3067X	01382	V3441	01512	VL73	VL73
V2564	01001	V3075XS	01384S	V3443	01479	VL8	VL8
V2564+15	01001+15	V3075XS+15	01384S+15	V3447	10314	VL81	VL81
V2597	01073	V3076X	01598	V3450	01592	VL83	VL83
V2618	01105	V3082X	01380	V3467	10348	VL9	VL9
V2620X	00924	V3082X+15	01380+15	V3475	01598	VS1005	160-1478
V2639	01098	V3085XS	01314S	V3476	01505	VS1058	160-1016
V2650	01289	V3091	01393	V3479	01671	VS1481	160-1494
V2657	00874	V3091+15	01393+15	V3483	01470	VS375	160-1604
V2662	01048	V3094X	00609	V3485	01536	VS721N	160-1151
V2664	01084	V3096X	01526	V3486	01598	VS850	160-1478
V2667X	01152	V3098X	01524	V3487	01538	VS882	160-1132
V2669	01082	V3099X	00603	V3489	10385		
V2671X	01148	V3101	01649	V3491	01328	TUCKER	
V2673X	01103	V3103	01395	V3495	10624	E1772	SB2000-3N
		V3105XS	01386S	V3499	10105		

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TUCKER (Cont'd)							
E7007	SB1899E-1	T1678	SB1900E-1	T190	SB1312-3	T223	SB1375-1
N1949	SB2088E-1	T1685	SB1437-67	T1901	SB1875-11	T224	SB1375-5
N1965	SB2006E-1N	T1696	SB1957ST	T1902	SB2062-6	T225	SB1375-2
N7000	SB1262E-1	T1703	SB1937-8	T1903	SB1937-3	T226	SB1437-10
N7002	SB1442E-1	T1708	SB1687-40	T1903+062	SB2000-11	T227	SB1437-4
N7005	SB1161E-1	T1712	SB2000-0	T1905	SB2000-10	T228	SB1437-8
T1000	SB1687-33	T1714	SB2062-9	T1908	SB1875-4	T229	SB1437-6
T101	SB1125-7	T1715	SB2125-6	T1910	SB1937-5	T229+1/16	SB1500-9
T1027	SB1562-74	T1716	SB2250-16	T1920	SB2000-12	T230	SB1500-5
T1028	SB1671E-1N	T1718	SB1880E-2	T1921	SB2000-13	T2308	SB1125-10
T105	SB1250-4	T1722	SB2006E-2	T1922	SB2000-6	T231	SB1500-8
T109	SB1187-4	T1723	SB2000-50	T1923	SB2000-3	T232	SB1562-15
T110	SB1000-1	T1735	SB2187-7	T1923B	SB2000-3C	T2336	SB1125-2
T113	SB1125-5	T1736	SB2250-5	T1924	SB2000-14	T2337	SB1000-2
T115	SB1125-1	T1738	SB2250-7	T1929	SB1625-29	T2338	SB1062-5
T116	SB1375-10	T1740	SB2250-17	T193	SB1562-0	T2340	SB1187-2
T120	SB1125-4	T1744	SB2312-6	T1930	SB2062-11	T2342	SB1187-5
T121	SB1125-6	T1749	SB2250-8	T1932	SB2062-21	T2348	SB1187-53
T123	SB1125-51	T1751	SB2250-18	T1933	SB2000-25	T2351	SB1250-52
T129	SB1062-2	T1753	SB2250-9	T1934	SB1690E-1	T239	SB1437-3
T1304	SB2444E-1	T1755	SB2250-2	T1935	SB1937-15	T240	SB1437-5
T133	SB1062-3	T1755+062	SB2312-1	T194	SB1437-56	T243	SB1500-2
T1339	SB2562-1	T1756	SB2250-13	T1940	SB2000-16	T244	SB1500-6
T135	SB1125-8	T1759	SB2250-1	T1941	SB2000-2	T245	SB1312-4
T136	SB1062-50	T1760	SB2250-15	T1942	SB2000-15	T246	SB1562-13
T137	SB1187-52	T1761	SB2250-12	T1945	SB2062-4	T247	SB1562-11
T142	SB1250-56	T1762	SB2312-2	T1946	SB2062-8	T249	SB1441E-1
T1512	SB1625-20	T1767	SB2250-20	T195	SB1312-9	T2516	SB1500-57
T1519	SB1687-17	T1770	SB2125-30	T1958	SB2000-7	T2517	SB1437-53
T1524	SB1625-56	T1783	SB2312-16	T1963	SB2062-25	T2525	SB1437-66
T1525	SB1750-13	T1784	SB2125-32	T1965	SB2006E-1	T256	SB1500-11
T1530	SB1625-14	T1785	SB1500-12	T1967	SB1875-20	T2565	SB1750-24
T1536	SB1875-35	T1790	SB2125-3	T1968	SB1875-19	T264	SB1437-1
T1540	SB2250-36	T1795	SB2323E-2	T197	SB1312-5	T270	SB1500-13
T1570	SB2020E-1	T1801	SB1687-12	T1971	SB1937-20	T2703	SB2312-8
T1582	SB1781E-1N	T1803	SB1750-9	T1973	SB1750-12	T271	SB1500-1
T1599	SB1812-36	T1805	SB1750-0	T1976	SB1875-32	T2712	SB2312-11
T1601	SB1812-17	T1810	SB1812-18	T1977	SB1625-17	T2714	SB2131E-1
T1602	SB1812-7	T1811	SB1875-14	T1978	SB1669E-1	T2717	SB2220E-1
T1604	SB1875-12	T1815	SB1875-0	T1979	SB1912E-1	T272	SB1500-3
T1609	SB1812-2	T1818	SB1812-0	T1980	SB2150E-1	T2720	SB2125-4
T1610	SB1812-5	T1820	SB1875-16	T1991	SB1750-68	T2722	SB2187-27
T1612	SB1875-13	T1821	SB1630E-1	T1992	SB2000-4	T2741	SB1654E-1N
T1613	SB1875-9	T1822	SB1687-8	T1993	SB1818E-1	T2744	SB2049E-1
T1615	SB1937-9	T1824	SB1750-5	T1994	SB1693E-1N	T2746	SB2000-29
T1616	SB1812-4	T1826	SB1812-13	T1995	SB1375-18	T276	SB1562-16
T1617	SB1812-1	T1827	SB1812-14	T201	SB1187-1	T278	SB1562-7
T1619	SB1847E-1	T1829	SB1812-15	T202	SB1187-7	T279	SB1437-14
T1620	SB1875-2	T1830	SB1812-16	T2020	SB2435E-1	T2802	SB1875-21
T1621	SB1937-4	T1835	SB1687-13	T2021	SB2590E-1	T2803	SB2000-9
T1623	SB1687-15	T1836	SB1875-5	T2026	SB1812-52	T2804	SB2000-24
T1624	SB1875-7	T1840	SB1624E-1N	T2028	SB1750-38	T2806	SB2062-13
T1625	SB1812-12	T1842	SB1687-4	T2030	SB1817E-3	T2812	SB1937-7
T1626	SB1875-6	T1845	SB1818E-2	T2031	SB1812-55	T2814	SB2000-27
T1626+062	SB1937-6	T1846	SB1693E-2	T2033	SB1875-54	T2815	SB2062-15
T1627	SB1875-1	T1849	SB1937-10	T2034	SB1812-21N	T2816	SB2125-12
T1628	SB1687-16	T1850	SB1937-0	T2037	SB1875-53	T2817	SB2125-16
T1630	SB1937-2	T1851	SB1744E-1N	T204	SB1250-2	T2819	SB2125-15
T1632	SB1750-11	T1851B	SB1744E-1N	T2048	SB1687-56	T2836	SB1625-39
T1633	SB1937-1	T1853	SB1625-8	T2049	SB1750-65	T2837	SB1812-56
T1635	SB1812-3	T1854	SB1812-11	T205	SB1250-1	T2840	SB1812-20
T1635+062	SB1875-8	T1864	SB1678E-1	T2055	SB1812E-4	T2849	SB1937-51
T1643	SB1812-10	T1865	SB1687-14	T206	SB1250-3	T2850	SB1875-18
T1644	SB1750-60	T1866	SB1812-19	T2060	SB1937-12	T2851	SB2125-33
T1645	SB1815E-1	T1870	SB1442E-2	T2062	SB2062-5	T2852	SB2062-29
T1647	SB1875-17	T1871	SB1505E-1	T207	SB1375-8	T289	SB1562-3
T1649	SB1937-19	T1872	SB1875-51	T2075	SB1437-68	T300	SB2000-36
T1652	SB1875-1	T1873	SB1687-10	T208	SB1312-2	T301	SB2000-1
T1654	SB1691E-1	T1874	SB1750-17	T2088	SB1937-52	T302	SB2000-17
T1657	SB1437-25	T1876	SB1312-7	T213	SB1312-6	T303	SB2000-20
T1662	SB1775E-1	T1881	SB1812E-1	T214	SB1312-1	T304	SB2062-2
T1664	SB1973E-1	T1887	SB1628E-1N	T217	SB1375-3	T305	SB2125-11
T1670	SB1875-50	T1893	SB2001E-1	T218	SB1437-9	T308	SB2125-10
T1674	SB1937-17	T1895	SB1812-34	T219	SB1375-6	T309	SB2125-8
		T1897	SB1812E-3	T220	SB1348E-1N	T311	SB2125-0
		T1898	SB1687E-1N	T222	SB1375-4	T313	SB2187-3

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VICTOR/DANA (Cont'd)	078109623B 160-1472	116513A SB2250-18	97109D 140-6202
GS33427 220-1108	078109633A 160-1029	117157 SB2062-3	B5685A SB1625-1
GS33429 220-1105	113109651A 121-1024	117159 SB1437-6	B5746 SB2000-13
GS33449 220-1123	605139410 VL116	117738 SB2062-8	B5761 SB2125-11
GS33473 220-1124	961083E+11 140-3077	117891A SB1250-2	B6181 SB2250-9
GS33489 220-1111	FB0450 VL116	118654 SB1625-1	B6229 SB1875-13
GS33509 220-1117		118664C SB1625-1	B6425 SB2250-9
GS33668 220-1114		118665 SB1375-1	B9542 SB1500-13
		118679 SB1250-1	
		118680 SB1500-1	
VOLKSWAGEN	VOLVO	118941 SB1687-2	WISCONSIN
017089102 VL116	12664165 SB1875-57	11915 SB1187-5	AA91 140-1909
017105951 VL116	12664199 SB1562-78	119453 SB1750-2	AD41E 140-1907
021109601E 10556	12703914 140-8552	119917 SB2000-14	AD42 140-1908
021109601H 10556	13066303 122-1082	119984 SB2000-14	AD43 140-1909
021109601L 10556	15451354 140-3076	11999 SB2000-1	AD44B 140-6053
021109611D 10557S	1546437 140-3157	120507 SB1562-7	AD47 140-1907
021109611E 10557S	1677875 121-1141	123036L 00555	AE75B 00249
021109611G 10557S	20412798 SB1696E-2C	123136G 00554	AE75C 00249
021109651 121-1128	20441486 13301S	125009J 140-7476	AE75D 00598S
022109423D VL569	20441945 13301S	145009 140-1593	MG12154 140-1723
022109601G 13312	20463800 13300S	145109T 140-1592	
022109601H 13310	20482579 SB1696E-1C	145336 00819S	WITTE
022109611N 13313S	20510747 121-1024	145336A 00819S	AW89 140-6529
022109611P 13311S	20530103 SB1697E-2	145436A 00734	
025109601C 10348	20536487 240-1046R	151241 SB1812-4	WOLVERINE
025109612A 10349S	20564020 13376S	151255 SB1875-6	HL1812 VL8
026109601F 10158S	20732758 SB1579E-1C	152328 SB1437-5	HL1817 VL37
026109675 122-1089	20737849 SB1658E-1C	152511 SB2312-9	HL1846 VL5
027103419 140-8139	20737856 13375S	152963 SB1062-3	HL1900 VL35
027109675 122-1250	20740798 13377S	164763B SB1437-8	HL1945 VL32
028109601D 10731	20740804 SB1776E-1C	164904A 140-1965	HL1945 VL32
028109611G 10732S	20768519 13378S	16775 SB1562-17	HL1951 VL49
034109309 VL116	20817645 140-3157	180009D 140-1954	HL1976 VL64
034109309AD VL116	20864662 122-1469	180336 00912	HL2011 VL89
034109309N VL116	20904074 140-3157	180336A 00912	HL2012 VL83
034109611B 10356S	20905400 140-3157	181109K 140-1953	HL2056 VL109
036109651A 121-1098	20919484 140-3157	180336C 00912	HL2083 VL9
036109675A 122-1363	21016539 13378S	180336A 00912	HL2089 VL88
037103419B 140-8558	21098621 240-1046	181109K 140-1953	HL2095 VL94
037109601 10554S	21310068 160-1620	190336A 00793	HL2102 VL86
037109604 10554S	21401136 240-1053	190336C 00793	HL2104 VL114
037109611B 10555S	21430918 13376S	190336D 00793	HL2105 VL87
038109601E 13337	21484834 SB1696E-2C	1K197B 00793	HL2109 VL113
038109601F 13174	21501189 122-1451	204009F 140-7892	HL2110 VL100
038109611G 13338S	21990221 122-1469	204109C 140-7892	HL2111 VL115
039439570 VL116	31316151 122-1452	204109P 140-7892	HL2122 VL106
048109601A 10158S	3165303 140-3157	204109T 140-7892	HL2124 VL141
048109611A 10356S	3165747 240-1046R	204209 140-8011	HL2126 VL116
048109611B 10734S	3169366 SB1696E-2C	204209A 140-3133	HL2128 VL150
053109611 10356S	3169490 13300S	204209D 140-3133	HL2129 VL146
056103419A 140-7359	3183210 160-1620	204209E 140-3132	HL969 VL73
056109651 121-1020	3183283 140-3157	204209F 140-3133	PR1221 190-1221
058109309E VL524	3183368 240-1046	204209N 140-8011	PR1222 190-1222
058109309F VL523	4223202 140-3075	222209 140-1952	PR1229H 192-1229
058109601C 10804S	4633954 10406	224609 140-1927	PR1229HB 192-1229U60
058109611E 10805S	463526 10407S	224609A 140-1927	PR1237 190-1237
058109611M 10803S	4651576 140-3073	224609C 140-7398	PR1268 192-1229
058109633 160-1471	477792 140-3074	41177 SB1250-3	PR1269 190-1269
068109601C 10367	477877 140-3074	41381A SB1812-18	PR1280 190-1280
068109601D 10367	8148574 13301S	41413 SB2062-9	PR1321H 192-1321
068109611C 10370S	85104134 240-1046	44958 SB1875-0	PR1322H 192-1322
068109611D 10370S	85124276 240-1046	64009 140-1421	PR1322HG 192-1322U40
06A103385A 220-1120	85137065 240-1053	65425A SB1875-14	PR1323 190-1433
06D109601M 13315S	859171 122-1451	65431 SB1562-17	PR1327 190-1327
06D109611H 13316SN	9443787 122-1452	68009S 140-1458	PR1327B 190-1327U54
06D109611L 13318	9454607 13302	73329 SB1875-14	PR1328 190-1328
06E109601E 13314	9454609 13304S	73597 SB2506E-1	PR1330H 192-1330
06E109601Q 13317	9454610 13303	73923 SB2062-9	PR1331H 192-1331
06K109675 122-1363	9454613 121-1098	73931A SB2062-9	PR1335H 192-1335
077109601Q 13319S		74592 SB1750-0	PR1336H 192-1336
077109611S 13320SN		74654 SB2187-7	PR1337H 192-1337
078109601B 10733		76408 SB2000-13	PR1338H 192-1338
078109623A 160-1028		76775 SB1562-34	PR1339H 192-1339
		78077 SB1062-5	PR1342 190-1342
		97009F 140-6201	
	WAUKESHA		
	103014A 00912		
	106099A 00793		
	106608A 140-1947		
	106609A 140-1953		

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PR1349	190-1349	PR1513	190-1513	VS102	160-1125
PR1351	190-1351	RA2601	180-1040	VS103	160-1131
PR1351A	190-1351+60	RA2602	180-1041	VS104	160-1137
PR1351B	190-1351U60	RA4001	180-1055	VS105	160-1134
PR1370	190-1370	RA4002	180-1056	VS107	160-1139
PR1376	192-1378	RA4301	180-1077	VS108	160-1143
PR1377H	192-1377	RA4302	180-1078	VS111	160-1136
PR1378H	192-1378	RA4501	180-1004	VS112	160-1000
PR1381	192-1381	RA5003K	181-1034	VS114	160-1141
PR1381H	192-1381	RA5004K	181-1035	VS115	160-1122
PR1384	190-1384	RA5105	180-1037	VS116	160-1139
PR1385	190-1385	RA5107K	181-1008	VS117	160-1161
PR1395	190-1395	RA5201K	181-1040	VS118	160-1001
PR1396	190-1396	RA5202K	181-1018	VS119	160-1009
PR1399H	192-1399	RA5203	180-1029	VS120	160-1006
PR1403	190-1403	RA5301K	181-1023	VS121	160-1018
PR1408	190-1408	RA5305K	181-1041	VS123	160-1031
PR1409H	192-1409	RA5305KX	181-1041	VS124	160-1019
PR1409HB	192-1409U60	RA5801	180-1059	VS125	160-1186
PR1411	190-1411	RA6301K	181-1012	VS128	160-1171
PR1416	190-1425	RA6401	180-1028	VS130	160-1148
PR1417	190-1417	RA6501K	181-1011	VS131	160-1173
PR1417A	190-1417+60	RA6701K	181-1014	VS132	160-1044
PR1417B	190-1417U60	RA7102K	181-1057	VS133	160-1024
PR1421	190-1421	RA7102KX	181-1057	VS135	160-1076
PR1422	190-1422	RA8301K	181-1020	VS159	160-1089
PR1425	190-1425	RA8301KX	181-1020	VS167	160-1005
PR1425HA	190-1425+60	RA8401K	181-1059	VS178	160-1033
PR1426	190-1426	RA8401KX	181-1059	VS179	160-1172
PR1426A	190-1426+60	RA8480K	181-1025	VS180	160-1202
PR1427	190-1427	RA8501K	181-1016	VS181	160-1203
PR1429	190-1429	RA8602K	181-1017	VS187	160-1014
PR1433	190-1433	RA9501K	181-1021	VS197	160-1106
PR1433HA	190-1433+60	RA9601K	181-1028	VS198	160-1038
PR1433HC	190-1433+35	RA9602K	181-1037	VT1937	VL31
PR1435	190-1435	V2044	01327	VT2000	VL48
PR1438	190-1438	V2090	00400	VT2070	VL81
PR1439H	192-1439	V2090+3	00400+3	WG1501	160-1144
PR1440	190-1440	V2091	00399	WG1817X	VL66RH
PR1441H	190-1433	V2309	01265	WG1900X	VL67RH
PR1442H	192-1442	V2310	00567	WG1969X	VL117RH
PR1443	190-1443	V2469	00919	WG2110X	VL100
PR1444H	192-1444	V2470	00988	WG2552	01195
PR1446H	192-1446	V2488	01057S		
PR1449	190-1449	V2505	01329	YALE	
PR1450	190-1450	V2529	01242	900284801	13061
PR1450A	190-1450+45	V2530	01266	900284807	13062S
PR1450C	190-1450+15	V2531	01268	900284853	160-1513
PR1453H	192-1453	V2532	01358		
PR1454	190-1454	V2536	01120	YANMAR	
PR1454F	190-1454+40	V2550	01106	11900011810	140-3189
PR1455	190-1455	V2551	01107	11971711190	121-1136
PR1462H	192-1462	V2552	00696	11971711340	122-1480
PR1467	190-1467	V2552+3	01195+3	11971711350	122-1481
PR1473	190-1473	V2563	01000	11971711800	140-3188
PR1473B	190-1473U57	V2564	01001	12013011860	140-3190
PR1478	190-1478	V2665	01156	12140011340	122-1484
PR1480H	192-1480	V2678	01307	12185011150	122-1482
PR1481H	192-1481	V2695	01135	12390011100	13409
PR1482H	192-1482	V2696	01156	12390011110	13410
PR1482HG	192-1482U40	V2809	01192	12390011120	160-1663
PR1484H	192-1484	V2810	01193	12390711100	13403
PR1485H	192-1485	V2815	01169	12390711110	13404
PR1489	190-1489	V2816	01170	12390711120	160-1660
PR1491H	192-1491	V2833	01238	12390711800	140-3185
PR1500	190-1500	V2985	01328	12390711810	140-3186
PR1502	190-1502	V3011	01135	12416011340	122-1478
PR1503H	192-1503	V3037	01367	12446011340	122-1483
PR1504H	192-1504	V3046	01387	12495011340	122-1479
PR1505H	192-1505	V3047	01388	12900411130	13414
PR1506H	192-1506	V3060	00917SN	12900511100	13413
PR1507	190-1507	V3082	01380	12910011100	13415
PR1508	190-1525	V3137	01452	12910011130	13416
PR1509	190-1509	V3138	01451	12915011810	140-3191
		V3305	01542		
		VS101	160-1121		

INCHES and MILLIMETERS CONVERSION CHART

FRACTION (inches)	DECIMAL (inches)	MM	FRACTION (inches)	DECIMAL (inches)	MM
1/64	.0156	.3969	33/64	.5156	13.0969
1/32	.0313	.7938	17/32	.5313	13.4938
3/64	.0469	1.1906	35/64	.5469	13.8906
1/16	.0625	1.5875	9/16	.5625	14.2875
5/64	.0781	1.9844	37/64	.5781	14.6844
3/32	.0938	2.3813	19/32	.5938	15.0813
7/64	.1094	2.7781	39/64	.6094	14.4781
1/8	.1250	3.1750	5/8	.6250	15.8750
9/64	.1406	3.5719	41/64	.6406	16.2719
5/32	.1563	3.9688	21/32	.6563	16.6688
11/64	.1719	4.3656	43/64	.6719	17.0656
3/16	.1875	4.7625	11/16	.6875	17.4625
13/64	.2031	5.1594	45/64	.7031	17.8594
7/32	.2188	5.5563	23/32	.7188	18.2563
15/64	.2344	5.9531	47/64	.7344	18.6531
1/4	.2500	6.3500	3/4	.7500	19.0500
17/64	.2656	6.7469	49/64	.7656	19.4469
9/32	.2813	7.1438	25/32	.7813	19.8438
19/64	.2969	7.5406	51/64	.7969	20.2406
5/16	.3125	7.9375	13/16	.8125	20.6375
21/64	.3218	8.3344	53/64	.8281	21.0344
11/32	.3438	8.7313	27/32	.8438	21.4313
23/64	.3594	9.1281	55/64	.8594	21.8281
3/8	.3750	9.5250	7/8	.8750	22.2250
25/64	.3906	9.9219	57/64	.8906	22.6219
13/32	.4063	10.3188	29/32	.9063	23.0188
27/64	.4219	10.7156	59/64	.9219	23.4156
7/16	.4375	11.1125	15/16	.9375	23.8125
29/64	.4531	11.5094	61/64	.9531	24.2094
15/32	.4688	11.9063	31/32	.9688	24.6063
31/64	.4844	12.3031	63/64	.9844	25.0031
1/2	.5000	12.7000	1	1.0000	25.4000

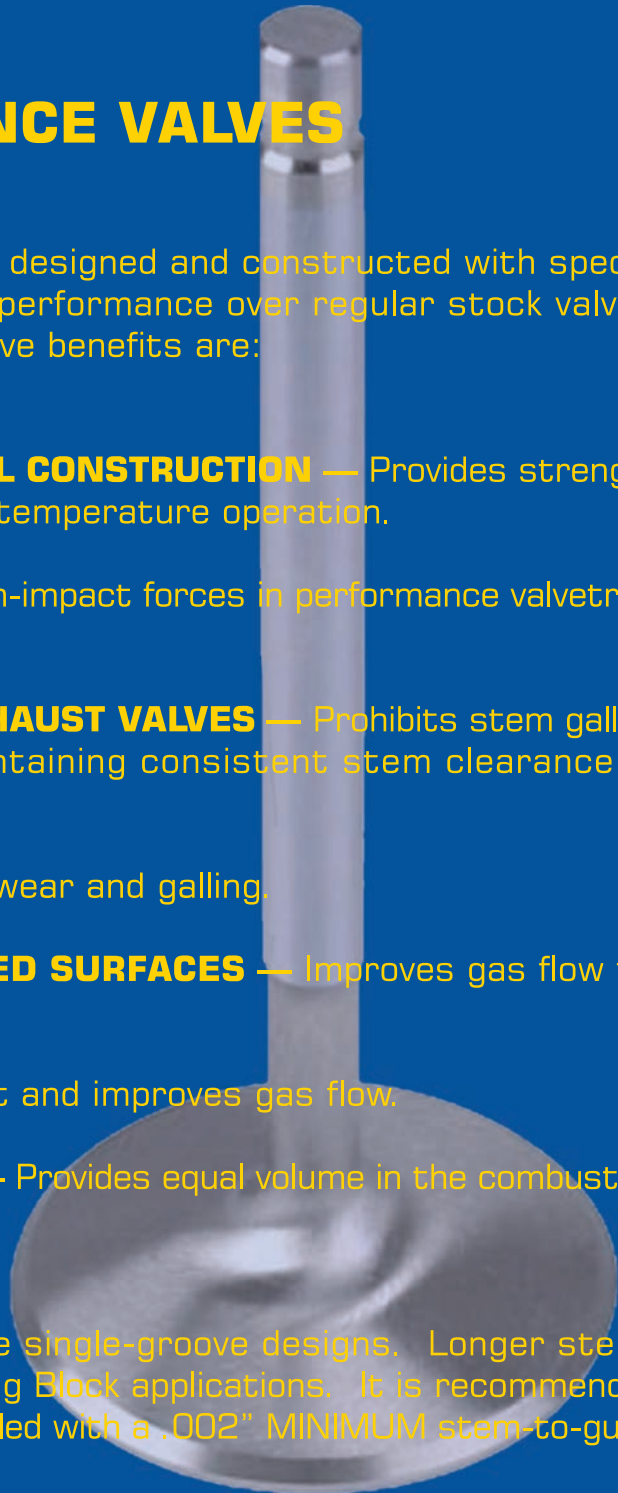
Conversion: Inches Multiplied by 25.4 = Millimeters; Millimeters Divided by 25.4 = Inches

DOMESTIC PERFORMANCE VALVES

SBI PERFORMANCE VALVES have been designed and constructed with special features that improve their operational performance over regular stock valves. These special features and their respective benefits are:

- ▶ **ONE-PIECE 21-4N STAINLESS STEEL CONSTRUCTION** — Provides strength and corrosion resistance during high-temperature operation.
- ▶ **HARDENED STEM TIP** — Resists high-impact forces in performance valvetrain setups.
- ▶ **OPTIONAL TAPERED STEM FOR EXHAUST VALVES** — Prohibits stem galling and reduces oil consumption by maintaining consistent stem clearance at operating temperatures.
- ▶ **CHROME-PLATED STEM** — Resists wear and galling.
- ▶ **SWIRL-POLISHED, FULLY MACHINED SURFACES** — Improves gas flow for optimum performance.
- ▶ **UNDERCUT STEM** — Reduces weight and improves gas flow.
- ▶ **CONSISTENT VALVE HEAD SHAPE** — Provides equal volume in the combustion chamber.

All **SBI PERFORMANCE VALVES** feature single-groove designs. Longer stems are available for popular Small Block and Big Block applications. It is recommended all **SBI PERFORMANCE VALVES** are installed with a .002" MINIMUM stem-to-guide clearance.



CHEVROLET® SMALL BLOCK / BIG BLOCK PERFORMANCE VALVES

SBI #	Engine	Type	Head Diameter	Stem Diameter	O/A Length	Installed Height	Tip Length
01769R	Small Block	E	1.500	0.3405 / 0.3415	4.905	Stock	0.289
02016R	Small Block	E	1.500	0.3415	4.925	Stock	0.250
01770R	Small Block	E	1.600	0.3405 / 0.3415	4.905	Stock	0.289
01771R	Small Block	E	1.600	0.3405 / 0.3415	5.005	.100 Long	0.289
01952R	Small Block	E	1.600	0.3415	4.925	Stock	0.250
01954R	Small Block	E	1.600	0.3415	5.025	.100 Long	0.250
02024R	Small Block	E	1.600	0.3415	5.125	.200 Long	0.250
01772R	Small Block	E	1.625	0.3405 / 0.3415	4.905	Stock	0.289
01762R	Small Block	I	1.940	0.3415	4.898	Stock	0.260
02026R	Small Block	I	1.940	0.3415	5.025	.100 Long	0.250
01763R	Small Block	I	2.020	0.3415	4.898	Stock	0.260
01764R	Small Block	I	2.020	0.3415	4.998	.100 Long	0.260
01765R	Small Block	I	2.055	0.3415	4.898	Stock	0.260
01766R	Small Block	I	2.055	0.3415	4.998	.100 Long	0.260
01767R	Small Block	I	2.080	0.3415	4.898	Stock	0.260
01768R	Small Block	I	2.080	0.3415	4.998	.100 Long	0.260
02029R	Small Block	I	2.080	0.3415	5.125	.200 Long	0.250
01935R-155	Small Block LS	E	1.550	0.3135	4.915	Stock	0.160
01935R-157	Small Block LS	E	1.570	0.3135	4.915	Stock	0.160
01935R-160	Small Block LS	E	1.600	0.3135	4.915	Stock	0.160
02000R-200	Small Block LS	I	2.000	0.3135	4.870	Stock	0.160
02000R-202	Small Block LS	I	2.020	0.3135	4.870	Stock	0.160
02000R-205	Small Block LS	I	2.050	0.3135	4.870	Stock	0.160
01776R	Big Block	E	1.725	0.3705 / 0.3715	5.347	Stock	0.220
02062R	Big Block	E	1.880	0.3405 / 0.3415	5.347	Stock	0.220
02061R	Big Block	E	1.880	0.3405 / 0.3415	5.447	.100 Long	0.220
01777R	Big Block	E	1.880	0.3705 / 0.3715	5.347	Stock	0.220
02043R	Big Block	E	1.880	0.3415	5.420	Race	0.250
01962R	Big Block	E	1.880	0.3415	5.520	Race .100 Long	0.250
01960R	Big Block	E	1.880	0.3715	5.420	Race	0.250
01961R	Big Block	E	1.880	0.3715	5.520	Race .100 Long	0.250
02059R	Big Block	E	1.940	0.3405 / 0.3415	5.447	.100 Long	0.220
02021R	Big Block	I	2.065	0.3715	5.220	Stock	0.220
02065R	Big Block	I	2.190	0.3415	5.330	.100 Long	0.220
01773R	Big Block	I	2.190	0.3720	5.230	Stock	0.220
01964R	Big Block	I	2.190	0.3715	5.320	.100 Long	0.220
02064R	Big Block	I	2.250	0.3415	5.330	.100 Long	0.220
01774R	Big Block	I	2.250	0.3720	5.230	Stock	0.220
02063R	Big Block	I	2.300	0.3415	5.330	.100 Long	0.220
01775R	Big Block	I	2.300	0.3720	5.230	Stock	0.220

DIESEL PERFORMANCE VALVES

S. B. International's diesel performance valves are a bimetallic design utilizing special processes which improve their overall durability and performance over stock valves.

Each valve is constructed using a premium-grade austenitic stainless steel head material on both the intake (EV8) and exhaust (EV16) with a mid-stem weld using a high-grade chromium steel stem material (HNV3).

Each valve is fully machined and nitrided all over, then polished. Each valve tip is hardened to a minimum of 50 HRc for added durability.

Application	Years	Part No.	Type	Head Dia.	Stem Dia.	O/A Lgth.	Inst'd. Hgt.	Tip Lgth.	Seat Angle
Dodge/Cummins 6BT 5.9L/12 Valve	1989-1998	01665R	I	1.772	0.3138	5.084	STOCK	0.180*	30.0°
Dodge/Cummins 6BT 5.9L/12 Valve	1989-1998	01664R	E	1.654	0.3138	5.076	STOCK	0.180*	45.0°
Dodge/Cummins ISB 5.9L/24 Valve	1998-2009	02014R	I	1.299	0.2756	4.907	STOCK	0.240*	30.0°
Dodge/Cummins ISB 5.9L/24 Valve	1998-2009	13006R	E	1.299	0.2756	4.893	STOCK	0.240*	45.0°
Ford Powerstroke 6.0L/32 Valve	2003-2010	02179R	I	1.339	0.2737	5.058	STOCK	0.317*	30.0°
Ford Powerstroke 6.0L/32 Valve	2003-2010	02180R	E	1.102	0.2737	5.058	STOCK	0.317*	37.5°
GM Duramax 6.6L/32 Valve	2001-2016	02175R	I	1.299	0.2739	4.975	STOCK	0.481*	45.0°
GM Duramax 6.6L/32 Valve	2001-2016	02176R	E	1.220	0.2730	4.963	STOCK	0.481*	45.0°

*Tip length dimensions are measured from the tip to top of keeper groove.

FEATURES

- ▶ Premium-grade austenitic stainless steel head material on both intake and exhaust.
- ▶ High-grade chromium steel stem material on both intake and exhaust.
- ▶ Fully machined.
- ▶ Special nitride process—Strengthens entire valve and adds additional friction wear resistance.
- ▶ Polished stem—Better friction wear resistance and improved seal between valve stem and stem seal.
- ▶ Polished top of head—Offers less carbon buildup.
- ▶ Mid-stem weld—Superior durability over wafer tip for these applications.
- ▶ Nitride on seat face offers added wear resistance, hardness, and durability.
- ▶ Nitrided all over with a smooth black satin finish.

DOMESTIC PERFORMANCE BRONZE VALVE GUIDES

S. B. International features bronze valve guides made from manganese bronze.

Our valve guides are precision-machined to the highest quality available. Every valve guide is designed to withstand the high operating temperatures of today's engines. They are ideal for intake and exhaust applications and are compatible with SBI stainless and special high strength-alloy valves.

SBI #	O.D.	I.D.	Length	Valve Stem Diameter	Type*
340-1019BR	0.4390	0.3110	2.500	0.439	1-PB
340-1030BR	0.4397	0.3120	1.875	0.439	1-PB
340-1038BR	0.5020	0.2744	2.234	0.512	40-PB
340-1039BR	0.5020	0.2744	2.600	0.512	40-PB
340-1040BR	0.5020	0.3091	2.234	0.500	40-PB
340-1041BR	0.5020	0.3091	2.600	0.500	40-PB
340-1042BR	0.5020	0.3413	2.234	0.530	40-PB
340-1043BR	0.5020	0.3413	2.600	0.530	40-PB
340-1044BR	0.5020	0.3430	2.500	0.500	40-PB
340-1045BR	0.5020	0.3430	3.065	0.500	40-PB
340-1046BR	0.5010	0.3150	2.120	0.500	1-PB
340-1033BR	0.5020	0.3421	2.750	0.500	1-PB
340-1032BR	0.5020	0.3421	3.063	0.500	1-PB
340-1029BR	0.5020	0.3430	2.500	0.500	1-PB
340-1021BR	0.5020	0.3431	2.375	0.500	1-PB
340-1022BR	0.5020	0.3431	2.625	0.500	1-PB
340-1026BR	0.5020	0.3431	2.875	0.500	1-PB
340-1034BR	0.5020	0.3432	2.125	0.500	1-PB
340-1020BR	0.5020	0.3440	2.250	0.500	1-PB
340-1035BR	0.5020	0.3705	3.065	0.500	1-PB
340-1024BR	0.5020	0.3721	2.375	0.500	1-PB
340-1025BR	0.5020	0.3724	2.750	0.500	1-PB
340-1028BR	0.5020	0.3734	2.375	0.500	1-PB
340-1027BR	0.5020	0.3734	2.625	0.500	1-PB
340-1031BR	0.5020	0.3741	2.500	0.500	1-PB
340-1037BR	0.6203	0.3735	2.555	0.530	40-PB
340-1036BR	0.6250	0.3735	2.415	0.530	40-PB

*Refer to valve guide numerical listing in standard SBI catalog for type illustration.

DOMESTIC PERFORMANCE VALVE STEM SEALS

ALL-TEFLON®

SBI #	Material	Valve stem dia.	Guide O.D.	Seal O.D.
322-1000	TEFLON	5/16	0.415	0.508
322-1001	TEFLON	5/16	0.500	0.600
322-1002	TEFLON	5/16	0.531	0.631
322-1003	TEFLON	11/32	0.500	0.600
322-1004	TEFLON	11/32	0.531	0.631
322-1006	TEFLON	3/8	0.500	0.600
322-1007	TEFLON	3/8	0.531	0.631



METAL CLAD with VITON®

SBI #	Material	Valve stem dia.	Guide O.D.	Seal O.D.
322-1008	VITON	5/16	0.500	0.625
322-1009	VITON	5/16	0.531	0.680
322-1010	VITON	11/32	0.500	0.625
322-1011	VITON	11/32	0.531	0.680
322-1012	VITON	3/8	0.500	0.625
322-1013	VITON	3/8	0.531	0.680
322-1024	VITON	3/8	0.562	0.660



ALL-METAL CLAD with VITON® (For use with triple springs without machining)

SBI #	Material	Valve stem dia.	Guide O.D.	Seal O.D.
322-1014	VITON	5/16	0.500	0.550
322-1015	VITON	5/16	0.531	0.580
322-1016	VITON	11/32	0.500	0.550
322-1017	VITON	11/32	0.531	0.580



ALL-METAL CLAD with TEFLON®

SBI #	Material	Valve stem dia.	Guide O.D.	Seal O.D.
322-1018	TEFLON	5/16	0.500	0.630
322-1019	TEFLON	5/16	0.531	0.630
322-1020	TEFLON	11/32	0.500	0.630
322-1021	TEFLON	11/32	0.531	0.630
322-1022	TEFLON	3/8	0.531	0.630
322-1023	TEFLON	3/8	0.562	0.660



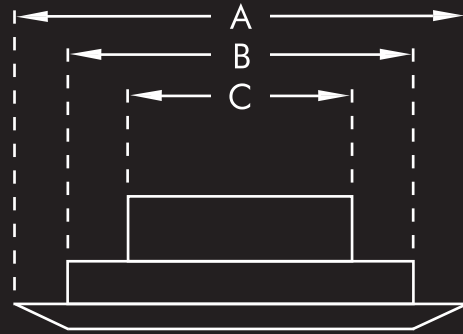
DOMESTIC PERFORMANCE VALVE SPRINGS

SBI Performance springs are manufactured from the highest quality-grade wire. The high quality wire allows our springs to endure high loads produced by racing cams. Springs are heat-treated and stress relieved to increase spring longevity and provide the stability needed for high loads and high RPM.

SBI #	Spring Type	O.D.	I.D.	Pressure Loads (lbs.)	Solid Hgt.	Make	Application	Use w/Retainer
360-1010	Single w/ Damper	1.260	0.876	118 @ 1.700 318 @ 1.210	1.160	GM	Hyd. Chevy S.B.	361-1015 - 1.700 Inst. Hgt.
360-1011	Single w/ Damper	1.504	1.090	90 @ 1.880 220 @ 1.460	1.340	GM	Hyd. Chevy B.B.	361-1011
360-1012	Single w/ Damper	1.260	0.876	110 @ 1.800 325 @ 1.200	1.160	GM	Mech. Chevy S.B.	361-1015 - 1.700 Inst. Hgt.; 361-1013 - 0.075 Taller Hgt.
360-1013	Single w/ Damper	1.260	0.876	130 @ 1.800 350 @ 1.200	1.160	GM	Mech. Chevy S.B.	361-1013
360-1014	Dual	1.514	0.795	140 @ 1.940 360 @ 1.300	1.200	GM/ FORD	Mech. Chevy V6 / V8; Ford S.B & B.B.	361-1012 - 11/32 + .040 Inst. Hgt.; 361-1010 - 11/32 + .100 Inst. Hgt.; 361-1011 - 3/8
360-1015	Dual	1.437	0.796	165 @ 1.800 315 @ 1.300	1.100	GM/ FORD	Mech. Roller Chevy S.B. V8 & Ford S.B.	361-1014 (NOTE: Use w/ 10 degree locks)
360-1016	Dual	1.460	0.840	120 @ 1.875 395 @ 1.175	1.080	GM	Hyd., / Mech. S.B.	361-1011
360-1017	Dual	1.470	0.820	110 @ 1.880 350 @ 1.330	1.250	GM	Hyd. Chevy B.B.	361-1011

DOMESTIC PERFORMANCE VALVES SPRING RETAINERS

SBI's valve spring retainers are manufactured from 4140 bar stock and heat-treated to HRC 38-42; in addition, they are coated with a black oxide finish for maximum corrosion protection.



SBI #	A	B	C	Valve stem diameter	Note
361-1010	1.375	1.075	0.792	11/32	0.040 taller installed height than 361-1015
361-1011	1.375	1.075	0.792	3/8	0.100 taller installed height
361-1013	1.125	0.855	0.640	11/32	0.075 taller installed height than 361-1015
361-1014	1.400	1.060	0.690	11/32	0.100 taller installed height than 361-1015 (Note: Use w/ 10 degree locks)
361-1015	1.226	0.849	0.649	11/32	1.700 installed height

DOMESTIC PERFORMANCE LIFTERS

SBI lifters are backed with more than 20 years of experience, reliability, quality, and innovation. Our performance lifters are manufactured to a tighter tolerance than OEM lifters, which reduces lift loss due to leak-down and allows full utilization of the cam event, equalling more power. Each lifter has a precise oil-metering system to eliminate excess oil to rocker arm at high RPMs.

All SBI performance lifters have a hardened steel snap ring design as added strength over standard wire clips.

SBI #	Type	Flat Snap Ring	Application	Stock Version
VL63	Mechanical	Yes	GM - SB & BB	
VL66RH	Hydraulic	Yes	GM - SB	VL37
VL67RH	Hydraulic	Yes	Ford - SB & BB	VL35
VL117RH	Hydraulic	Yes	GM - SB & BB	VL73

LS ROCKER ARMS

SBI's LS Rocker Arms are manufactured using a high grade cast steel . Our design eliminates the factory bearing and powdered metal trunion and utilizes a captive bearing design and also a high-grade steel trunion. This design allows for a full range of motion and less chance of bearing failure and eliminates the need for costly trunion conversion kits.

These rocker arms are stock 1.7 ratio, which can be used in stock and performance applications.



180-1336

Offset Intake For LS3, LS6 & L92



180-1337

Intake/Exhaust For LS1, LS2 & LS6
Exhaust Only LS3, LS6 & L92

SIMPLE - FAST - ECONOMICAL

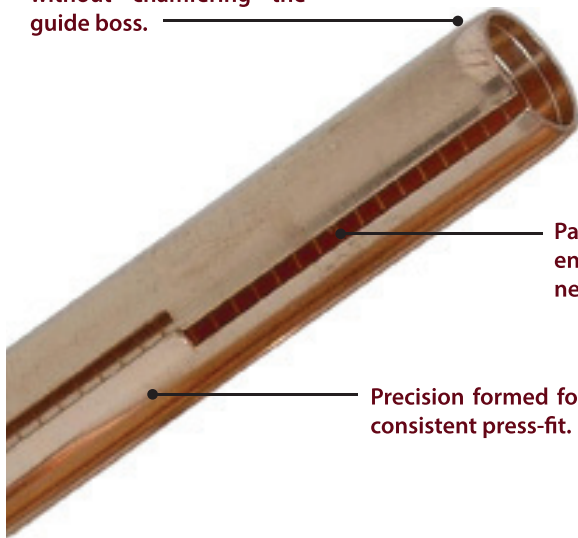
#1 REPAIR METHOD FOR ALUMINUM & CAST IRON CYLINDER HEADS

Our leadership in developing new, cost effective ways to repair worn valve guides led to the development of the BRONZE BULLET® INTERRUPTED SPIRAL® GUIDE-LINER® over forty years ago.

Guide-Liner® Benefits:

- Superior Lubricity - Reduces valve stem sticking and galling.
- Oil control - Interrupted Spiral® reduces the possibility of excessive oil consumption.
- Tighter guide-to-stem clearances for improved performance.
- Improved wear characteristics vs. cast iron (see chart).

Bullet nose feature allows for efficient installation without chamfering the guide boss.

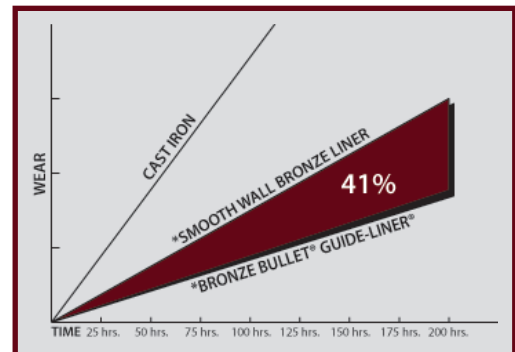


Patented spiral retains engine oil where it's needed.

Precision formed for a consistent press-fit.

Aluminum Cylinder Heads:

- No need to remove original guides.
- No galled or scored guide holes.
- No need for oversize guides.
- Guide-to-seat runout maintained.



Engine Rebuilder Friendly . . . Easy-To-Install

Install in seconds with the auto-installer. Bronze Bullet® Guide-Liners® eliminate the need to chamfer guide bosses, as well as the expense of having to replace valves or guides. The Interrupted Spiral® provides superior lubrication and oil control.

DON'T SETTLE FOR IMITATIONS!

USE THE ORIGINAL



BRONZE BULLET®

BRONZE BULLET® VALVE GUIDE-LINER® 5-STEP INSTALLATION PROCEDURE

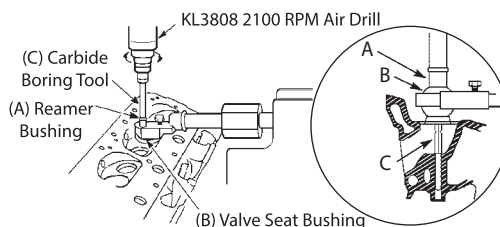
BULLET® INSTRUCTIONAL VIDEOSGUIDE-LINER® INSTALLATION

This professionally produced video gives you a detailed look at the proper procedure for installing the K-Line® Bronze Bullet® Valve Guide-Liner® using recommended installation tools and KL9900 Valve Guide Boring Fixture (page 8). DVD. 15 minutes in length. Step-by-step instructions include:

- 1) Boring the valve guide
- 2) Installing the Bronze Bullet®
- 3) I.D. finishing
- 4) Trimming excess
- 5) Flex-Honing

STEP 1 BORE

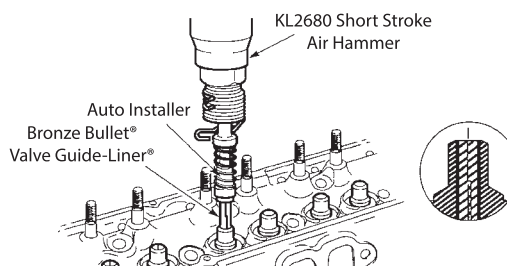
Use a K-Line® Carbide Boring Tool (page 9) with a high RPM (2,100) Air Drill KL3808 (page 10) to bore out the original guide. Must use a K-Line® Reamer Bushing (page 9) and K-Line® Valve Seat Bushings (page 6) for proper alignment results. For powdered metal guides, longer life and absolute precision, try a Guide Pro® Solid Carbide Black Beauty® Boring Reamer (page 10).



STEP 2 INSTALL

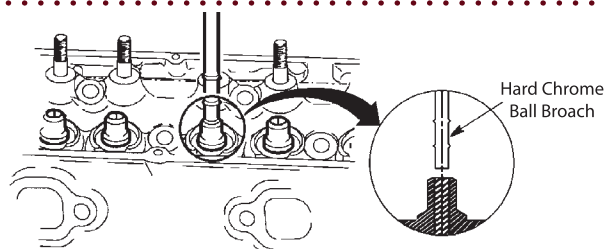
- Blow away chips.
- Insert Bronze Bullet® (pages 4-7) into holder assembly of the Bronze Bullet® Auto-Installer (page 11).
- Drive into place with a short stroke H.D. Air Hammer KL2680 (page 11).
- If the Guide-Liner® installs hard and is under a lot of stress; it is recommended that K-Line® Bronze Lube KL1225 (page 11) be applied providing that the Guide-Liner® doesn't move while ball broaching. If the Guide-Liner® installs easily, it is recommended that no Bronze lube be used. In most cases and in the beginning practice, no Bronze lube should be used.

NOTE: On powdered metal guides you may need to run a Flex-Hone® (page 14) prior to installation.



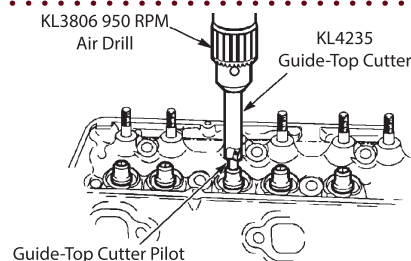
STEP 3 SIZE

- Use Bronze Lube (page 11) in guide and on tool prior to sizing.
- Insert K-Line® Ball Broach (page 12) in guide and drive by air with a Broach Holder KL5758 or KL5759 (page 12) and Air Hammer KL2680 (page 14).



STEP 4 TRIM

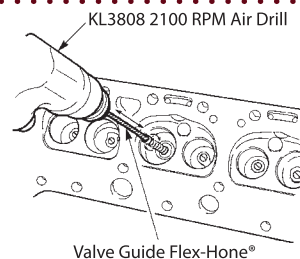
Insert appropriate size pilot into K-Line® Carbide Guide Top Cutter (page 13). Using a 2,100 RPM drill KL3808 (page 10), remove any excess Guide-Liner® material from each side of the valve guide.



STEP 5 FLEX-HONE (OPTIONAL)

Run the appropriate size Flex-Hone® (page 14) through the Guide-Liner® with a 2,100 RPM drill KL3808 (page 10). One pass down and one pass up will provide the desired finish.

NOTE: After flex honing, proper guide cleaning is required.



100 PACKS • 100 PACKS • 100 PACKS • 100 PACKS • 100 PACKS • 100 PACKS • 100 PACKS • 100 PACKS • 100 PACKS • 100 PACKS

BRONZE BULLET® INTERRUPTED SPIRAL® VALVE GUIDE-LINERS®

Choosing the Right Guide-Liner

Select the proper guide I.D. which corresponds to the clearances you desire. All Guide-Liners have been designed for maximum performance when finished to the stated minimum finished guide I.D. or larger.

Choosing the Right Sizing Tool

To obtain the recommended finished guide I.D., select a slightly larger ball broach (due to material flow-back that occurs during this sizing operation) typically, .001 to .0015 larger than the desired finished I.D.

FRACTIONAL SIZES

	Min. Fin. ID	Length	Part No.		Min. Fin. ID	Length	Part No.
5/16"	.310 (7.87)	3.13 (79.5)	KL1927STA		.313 (7.95)	3.13 (79.5)	KL1840STA
	.3425 (8.70) BORED HOLE MAXIMUM ID						
11/32"	.339 (8.61)	2.50 (63.5)	KL1961STA		.343 (8.71)	3.13 (79.5)	KL1841STA
	.341 (8.66)	2.50 (63.5)	KL1983STA		.344 (8.74)	2.50 (63.5)	KL1921STA
	.342 (8.69)	2.50 (63.5)	KL1932STA				
	.3735 (9.49) BORED HOLE MAXIMUM ID						
3/8"	.370 (9.40)	3.13 (79.5)	KL1902STA		.374 (9.50)	3.13 (79.5)	KL1842STA
	.373 (9.47)	3.13 (79.5)	KL1992STA		.375 (9.53)	2.50 (63.5)	KL1975STA
	.374 (9.50)	2.50 (63.5)	KL1974STA				
	.4055 (10.30) BORED HOLE MAXIMUM ID						

*Highlighted part # designates universal length.

MILLIMETER SIZES

	Min. Fin. ID	Length	Part No.		Min. Fin. ID	Length	Part No.
5mm	.197 (5.00)	1.63 (41.3)	KL1858STA				
	.2125 (5.40) BORED HOLE MAXIMUM ID						
5.5mm	.216 (5.49)	2.25 (57.2)	KL1857STA		.217 (5.51)	2.50 (63.5)	KL1900STA
	.2485 (6.31) BORED HOLE MAXIMUM ID						
6mm	.238 (6.05)	2.25 (57.2)	KL1906STA		.236 (6.00)	2.25 (57.2)	KL1856STA
	.2675 (6.79) BORED HOLE MAXIMUM ID						
6.6mm	.260 (6.60)	2.50 (63.5)	KL1849STA				
	.2915 (7.40) BORED HOLE MAXIMUM ID						
7mm	.273 (6.93)	2.50 (63.5)	KL1904STA		.277 (7.03)	2.50 (63.5)	KL1850STA
	.275 (6.98)	3.00 (76.2)	KL19100STA		.278 (7.06)	1.81 (46.0)	KL1903STA
	.276 (7.01)	2.75 (69.9)	KL19107STA		.279 (7.09)	2.50 (63.5)	KL1909STA
	.3095 (7.86) BORED HOLE MAXIMUM ID						
8mm	.312 (7.92)	2.50 (63.5)	KL1944STA		.316 (8.03)	2.50 (63.5)	KL1851STA
	.313 (7.95)	2.50 (63.5)	KL1933STA		.317 (8.05)	2.50 (63.5)	KL1940STA
	.313 (7.95)	3.00 (76.2)	KL1937STA		.317 (8.05)	3.13 (79.5)	KL19101STA
	.314 (7.98)	2.50 (63.5)	KL1997STA		.318 (8.08)	2.50 (63.5)	KL1942STA
	.315 (8.00)	2.50 (63.5)	KL1939STA		.318 (8.08)	2.75 (69.9)	KL1967STA
	.315 (8.00)	3.15 (80.0)	KL1968STA				
	.3475 (8.83) BORED HOLE MAXIMUM ID						

Min. Fin. ID Length Part No.
 .346 (8.79) 2.50 (63.5) KL19103STA

Min. Fin. ID Length Part No.
 .354 (8.99) 3.13 (79.5) KL1925STA

9mm

.3865 (9.82) BORED HOLE MAXIMUM ID

Min. Fin. ID Length Part No.
 .393 (9.98) 3.13 (79.5) KL1920STA



10mm

.4255 (10.81) BORED HOLE MAXIMUM ID

Min. Fin. ID Length Part No.
 .432 (10.97) 2.50 (63.5) KL1988STA

Min. Fin. ID Length Part No.
 .433 (11.00) 3.25 (82.6) KL1905STA

11mm

.4675 (11.87) BORED HOLE MAXIMUM ID

* Highlighted part # designates universal length.

BRONZE BULLET® SMOOTH WALL VALVE GUIDE-LINERS®

FRACTIONAL SIZES

Min. Fin. ID Length Part No.
 .312 (7.92) 3.13 (79.5) KL1840A

5/16"

.3425 (8.70) BORED HOLE MAXIMUM ID

Min. Fin. ID Length Part No.
 .343 (8.71) 3.13 (61.0) KL1841A

11/32"

.3735 (9.49) BORED HOLE MAXIMUM ID

Min. Fin. ID Length Part No.
 .374 (9.50) 3.13 (79.5) KL1842A

3/8"

.4055 (10.30) BORED HOLE MAXIMUM ID

MILLIMETER SIZES

Min. Fin. ID Length Part No.
 .277 (7.03) 2.50 (63.5) KL1850A

7mm

.3095 (7.86) BORED HOLE MAXIMUM ID

* Highlighted part # designates universal length.

0.36 OVERSIZE THIN-WALL

Min. Fin. ID Length Qty. Part No.
 .343 (8.71) 3.13 (79.5) 100 KL1860A

.375 (9.53) BORED HOLE MAXIMUM ID

Min. Fin. ID Length Qty. Part No.
 .374 (9.53) 3.13 (79.5) 100 KL1861A

.406 (10.31) BORED HOLE MAXIMUM ID

0.60 HEAVY DUTY THICK-WALL

Min. Fin. ID Length Qty. Part No.
 .343 (8.71) 3.25 (82.6) 100 KL1845A

.4055 (10.30) BORED HOLE MAXIMUM ID

11/32"

3/8"

BORED HOLE TOLERANCES

FRACTIONAL

5/16"	.341 (8.66) –	.3425 (8.700)
11/32"	.372 (9.45) –	.3735 (9.487)
3/8"	.404 (10.26) –	.4055 (10.30)

MILLIMETER

5mm	.212 (5.37) –	.2125 (5.395)
5.5mm	.247 (6.27) –	.2485 (6.312)
6mm	.266 (6.76) –	.2675 (6.795)
6.6mm	.290 (7.37) –	.2915 (7.404)
7mm	.308 (7.82) –	.3095 (7.861)
8mm	.346 (8.79) –	.3475 (8.827)
8.5mm	.367 (9.32) –	.3685 (9.360)
9mm	.385 (9.78) –	.3865 (9.817)
10mm	.424 (10.77) –	.4255 (10.81)
11mm	.466 (11.84) –	.4675 (11.87)

Other U.S. and Foreign Patents Pending.

K-Line®, Bronze Bullet®, Interrupted Spiral®, Guide-Liner®, and Bron-EL® are registered trademarks of K-Line® Industries, Inc.

U.S. Patent No.'s
 3828415; 3878756; 4103662; 4185368;
 4768479; 5249555; 5539980; 5493776.

European FR, DE, GB, IT, SE Patent No.'s
 279974; 5663643

Canadian Patent No.'s
 1092919; 1106159; 1327494; 20918123

Australian Patent No.'s
 586341; 659537; 668053; 668060.

New Zealand Patent No.'s
 220749; 272318; 247109

Mexico Patent No.'s
 MX Patented 182767

China Patent No.'s
 93104221.6

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BRONZE BULLET® GUIDE-LINER® KITS



RX STANDARD GUIDE-LINER® AIR INSTALLATION KITS

These tool kits are designed for the smaller to mid-sized shop, answering the need for a more economical tooling kit package. Each kit features a Carbide Boring Reamer with accessories, packaged in a plastic storage box with step-by-step instructions.

These kits are designed to be used with KL9907 or KL9910 Seat Bushing Kits.

Guide Size Kit No.	Step 1				Step 2				Step 3			Step 4
	Boring Reamer	Reamer Bushing	Guide Brush	Auto Installer					Ball Broaches	Trim Tool		
5/16" KL1600RX	KL1719C-9	KL9932	KL1036	KL9961	KL5844/.312	KL5845/.313	KL5846/.314				KL1787	
11/32" KL1601RX	KL1725C-9	KL9934	KL1036	KL9962	KL5857/.3435	KL5858/.3445	KL5859/.3455				KL1797	
3/8" KL1602RX	KL1735C-9	KL9936	KL1036	KL9963	KL5872/.374	KL5873/.375	KL5874/.376				KL1807	
5 mm KL1613RX	KL3556CC	KL9921	KL1036	KL9957	KL5901/.1973	KL5902/.1978	KL5903/.1983				KL4230 KL4247	
5.5mm KL1614RX	*KL3561CC	KL9922	KL1036	KL9958	KL5808/.217	KL5809/.2175	KL5810/.218	KL5811/.2185			KL3184	
6mm KL1612RX	KL3566C-9	KL9929	KL1036	KL9971	KL5815/.237	KL5816/.2375	KL5817/.238	KL5818/.2385			KL3185	
6.6mm KL1606RX	KL3571C-9	KL9930	KL1036	KL9972	KL5825/.260	KL5826/.261	KL5827/.262				KL3205	
7mm KL1607RX	KL3576C-9	KL9931	KL1036	KL9973	KL5835/.276	KL5836/.277	KL5837/.278	KL5838/.279			KL1897	
8mm KL1608RX	KL3581C-9	KL9933	KL1036	KL9968	KL5847/.315	KL5848/.316	KL5849/.317				KL1787	
9mm KL1609RX	KL3586C-9	KL9935	KL1036	KL9969	KL5864/.354	KL5865/.355	KL5866/.356				KL3235	

* Guide Pro® Solid Carbide Boring Reamer.

VALVE SEAT BUSHING KITS

These kits offers sizes to fit most valve seats. Bushings easily disconnect from fixture head for quick size changes. Kits come in a sturdy, padded plastic storage case.



KL9910 (9 Pc. Kit)

Part No.	
KL9911	..... 1"
KL9912	..... 1-3/16"
KL9913	..... 1-3/8"
KL9914	..... 1-1/2"
KL9915	..... 1-5/8"
KL9916	..... 1-3/4"
KL9917	..... 1-7/8"
KL9918	..... 2"
KL9919	..... 2-1/4"

KL9907 (7 Pc. Kit)

Part No.	
KL9911	..... 1"
KL9912	..... 1-3/16"
KL9913	..... 1-3/8"
KL9915	..... 1-5/8"
KL9916	..... 1-3/4"
KL9918	..... 2"
KL9919	..... 2-1/4"

KL9920 2-1/2" (sold separately)

These kits are designed to be used with the RX or NX Guide-Liner® Air Installation Kits

BRONZE BULLET® GUIDE-LINER® KITS



NX DELUXE GUIDE-LINER® AIR INSTALLATION KITS

Complete kit designed for use with KL9900, featuring the Black Beauty® Carbide Boring Reamer and deluxe tooling. Packaged in a plastic storage box, complete with step-by-step instructions.



These kits are designed to be used with KL9907 or KL9910 Seat Bushing Kits.

Step 1		Step 2		Step 3	Step 4	Step 5				Guide Size Kit No.
Boring Reamer	Reamer Bushing	Go-No-Go Gage	Guide Brush	Auto Installer	Ball Broaches	Guide-Top Cutter	Cutter Pilot	Flex Hone	Removal Tool	
KL1719CB-9	KL9932	KL2500	KL1036	KL9961	KL5844/.312 KL5845/.313 KL5846/.314	KL4235	KL4238	KL2427	KL5680	5/16" KL1600NX
KL1725CB-9	KL9934	KL2501	KL1036	KL9962	KL5857/.3435 KL5858/.3445 KL5859/.3455	KL4235	KL4239	KL2428	KL5681	11/32" KL1601NX
KL1735CB-9	KL9936	KL2502	KL1036	KL9963	KL5872/.374 KL5873/.375 KL5874/.376	KL4235	KL4240	KL2419	KL5682	3/8" KL1602NX
*KL3556CC	KL9921	KL2514	KL1036	KL9957	KL5901/.1973 KL5902/.1978 KL5903/.1983	KL4230	KL4247	KL2422	KL5677	5mm KL1613NX
*KL3561CC	KL9922	KL2498	KL1036	KL9958	KL5808/.217 KL5809/.2175 KL5810/.218 KL5811/.2185	KL4233	KL4246	KL2424	KL5678	5.5mm KL1614NX
KL3566CB-9	KL9929	KL2499	KL1036	KL9971	KL5815/.237 KL5816/.2375 KL5817/.238 KL5818/.2385	KL4233	KL4245	KL2423	KL5679	6mm KL1612NX
KL3571CB-9	KL9930	KL2504	KL1036	KL9972	KL5825/.260 KL5826/.261 KL5827/.262	KL4233	KL4242	KL2425	KL5684	6.6mm KL1606NX
KL3576CB-9	KL9931	KL2505	KL1036	KL9973	KL5835/.276 KL5836/.277 KL5837/.278 KL5838/.279	KL4233	KL4243	KL2426	KL5685	7mm KL1607NX
KL3581CB-9	KL9933	KL2506	KL1036	KL9968	KL5847/.315 KL5848/.316 KL5849/.317	KL4235	KL4238	KL2427	KL5686	8mm KL1608NX
KL3586CB-9	KL9935	KL2507	KL1036	KL9969	KL5864/.354 KL5865/.355 KL5866/.356	KL4235	KL4244	KL2428	KL5687	9mm KL1609NX
KL3591CB-9	KL9939	KL2508	KL1036	KL9970	KL5876/.394 KL5877/.395 KL5878/.396	KL4235	KL4248	KL2429	KL5688	10mm KL1610NX
KL1749CB-9	KL9937	KL2503	KL1036	KL9964	KL5880/.433 KL5881/.434 KL5882/.435	KL4235	KL4241	KL2430	KL5689	11mm KL1611NX

* Guide Pro® Solid Carbide Boring Reamer.

Steps 1, 4 & 5 use KL3808 Drill - 2100 RPM. Steps 2 & 3 use KL2680 Air Hammer - 4,500 blows/min.
Step 3 recommended purchase (KL5758, KL5759) Ball Broach Driver

STEP 1

BORE



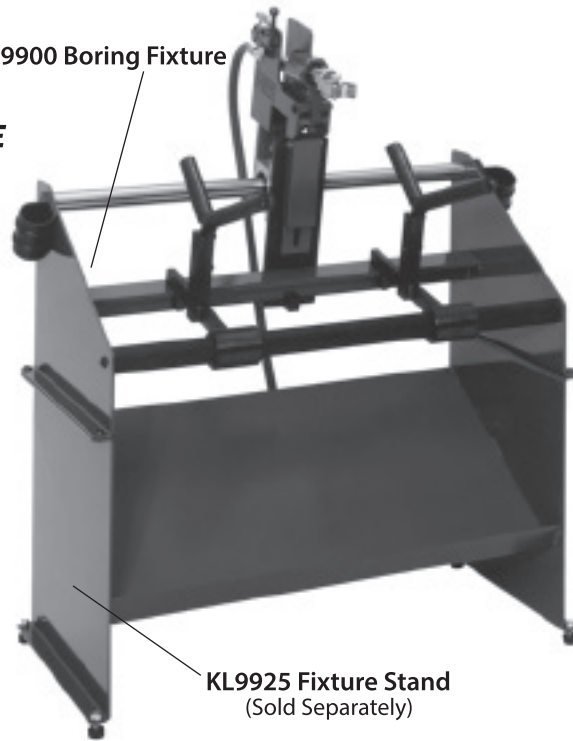
KL9900 VALVE GUIDE BORING FIXTURE

The K-Line® Valve Guide Boring Fixture has been uniquely designed to meet the needs of the quality minded engine rebuilder. This boring fixture provides perfect alignment with the valve seat for boring out worn valve guides prior to K-Line® Guide-Liner® Installation.

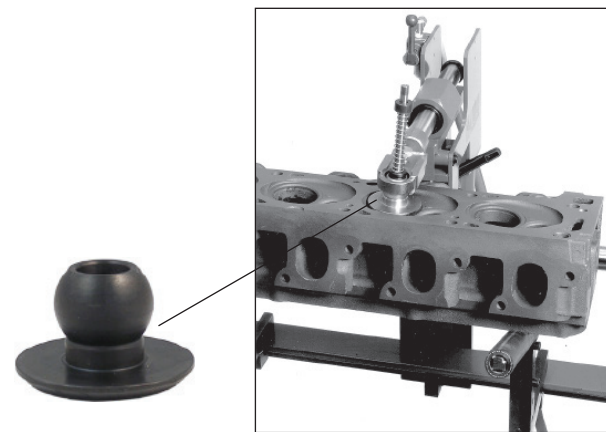
Used in conjunction with K-Line® boring tools, including the Black Beauty® Guide Pro® Solid Carbide Boring Reamers, you can expect unmatched consistency, speed and performance. Two-point alignment and positive clamping action ensures that guide-to-seat alignment is precise. Finished in a durable hammertone blue powder coating.

Made in U.S.A. U.S. Patent No. 5,281,057.
Canadian Patent No. 2,090,627.
Other U.S. & foreign patents pending.
Dimensions: 35"W x 24"D x 22"H
F.O.B. Holland, MI

KL9900 Boring Fixture



KL9925 Fixture Stand
(Sold Separately)



Features

- Accommodates all popular heads, cast iron and aluminum, including multi-valve dual overhead cam designs.
- Adjustable V-cradle head stands (height & width) are non-tip for safe operation.
- Twin bearings in boring fixture head for longer life.
- Boring fixture head and stands are slightly angled to reduce operator fatigue.
- Air control valve is centrally located for quick on/off clamping action.
- Quick disconnect for interchangeable valve seat bushings.
- Built-in air tool holsters for easy air tool accessibility.

A must for high-performance applications, heads with canted or opposing guides and production environments.

KL9925 FIXTURE STAND

Custom designed to fit the KL9900 Boring Fixture. Enhances the ergonomics of the KL9900. Angled backslash catches metal chips.

Dimensions: 35"W x 24"D x 22"H
F.O.B. Holland, MI

KL9900 REPLACEMENT PARTS

KL9900-29A Air Valve w/Lever

KL9900-25 Spring Plunger

STEP 1

BORE



BLACK BEAUTY® CARBIDE BORING TOOLS FOR CAST IRON GUIDES

The Ultimate Boring Tool for Precision and Extra Long Life

- Hardness - Rockwell C hardness of 93-95 allows faster operating speeds with extended tool life - even in hardened guides.
- Unique molecular structure resists galling or chip build up, resulting in reduced tool temperature.
- Lubricity - The lubricious surface aids in maintaining a lower temperature and efficient chip removal.
- Low temperature application process eliminates the possibility of tool warpage or annealing.
- Precision - Each reamer is carefully crafted to a .0002 tolerance or less. Hole sizing is true and consistent.

Replacement Boring Tools for NX Series Guide-Liner® Kits

Part No.	Size	Use With
KL1719CB-9	.312 - .030	5/16" Guide-Liners®
KL1725CB-9	.343 - .030	11/32" Guide-Liners®
KL1735CB-9	.375 - .030	3/8" Guide-Liners®
KL3566CB-9	.236 - .030	6.0mm Guide-Liners®
KL3571CB-9	.260 - .030	6.6mm Guide-Liners®
KL3576CB-9	.275 - .030	7mm Guide-Liners®
KL3581CB-9	.315 - .030	8mm Guide-Liners®
KL3586CB-9	.354 - .030	9mm Guide-Liners®
KL3591CB-9	.394 - .030	10mm Guide-Liners®
KL1749CB-9	.437 - .030	11mm Guide-Liners®

Black Beauty® is a registered trademark of K-Line® Industries, Inc. 9" Overall Length

STANDARD CARBIDE BORING TOOLS FOR CAST IRON GUIDES

Replacement Boring Tools for RX Series Guide-Liner® Kits



Part No.	Size	Use With
KL1719C-9	.312 - .030	5/16" Guide-Liners®
KL1725C-9	.343 - .030	11/32" Guide-Liners®
KL1735C-9	.375 - .030	3/8" Guide-Liners®
KL3566C-9	.236 - .030	6mm Guide-Liners®
KL3571C-9	.260 - .030	6.6mm Guide-Liners®
KL3576C-9	.275 - .030	7mm Guide-Liners®
KL3581C-9	.315 - .030	8mm Guide-Liners®
KL3586C-9	.354 - .030	9mm Guide-Liners®

9" Overall Length

BLACK BEAUTY® CARBIDE BORING TOOLS FOR BRONZE GUIDES

Specifically designed to bore Manganese Bronze, Aluminum Bronze and Silicon Aluminum Bronze prior to Guide-Liner® installation.

Part No.	Size
KL3519CSP	5/16" - 30
KL3525CSP	11/32" - 30
KL3535CSP	3/8" - 30
KL3561CSP	5.5mm - 30
KL3566CSP	6mm - 30
KL3571CSP	6.6mm - 30
KL3576CSP	7mm - 30
KL3581CSP	8mm - 30
KL3586CSP	9mm - 30

9" Overall Length

REAMER BUSHINGS

Replacement Reamer Bushings for NX/RX Series Guide-Liner® Kits



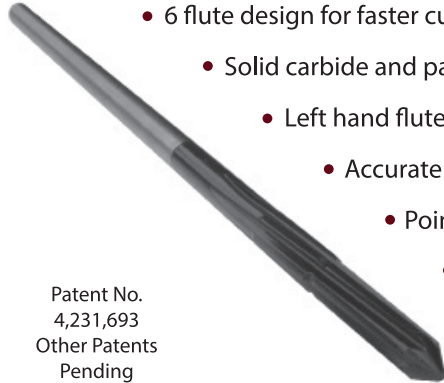
Part No.	Size
KL9932	5/16"
KL9934	11/32"
KL9936	3/8"

Part No.	Size
KL9921	5mm
KL9922	5.5mm
KL9929	6mm
KL9930	6.6mm

Part No.	Size
KL9931	7mm
KL9933	8mm
KL9935	9mm
KL9939	10mm
KL9937	11mm

STEP 1 BORE

GUIDE PRO® SOLID CARBIDE BLACK BEAUTY® BORING TOOLS



Patent No.
4,231,693
Other Patents
Pending

- 6 flute design for faster cutting action
- Solid carbide and patented Black Beauty® process provide increased longevity
- Left hand flutes send chips down out of the way for size consistency
- Accurately bores in most types of valve guide materials
- Pointed pilot for faster hole location
- Patented tool design provides a smoother finish

An exclusive line of Guide-Liner® boring tools designed to cut faster, straighter holes. Coupled with our patented Black Beauty® process and patented cutting geometric design, these solid carbide reamers provide a smoother finish. Life expectancy is considerably greater than standard brazed carbide boring tools.

Part No.	Size	Use With
KL3556CC	.197 - .030	5mm
KL3561CC	.216 - .030	5.5mm
KL3566CC	.236 - .030	6mm
KL3576CC	.275 - .030	7mm
KL3581CC	.315 - .030	8mm
KL3586CC	.354 - .030	9mm

Part No.	Size	Use With
KL1719CC	.312 - .030	5/16"
KL1725CC	.343 - .030	11/32"
KL1735CC	.375 - .030	3/8"

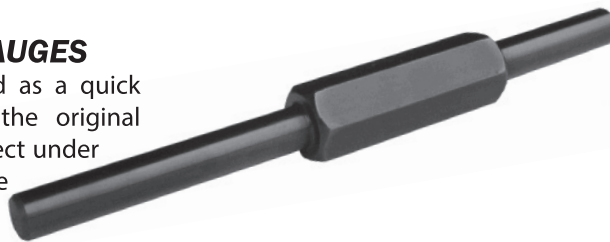
KL3808 EXTRA H.D. AIR DRILL

Weighing in at only 2lbs., this drill is a pleasure to work with over an extended period of time. Recommended for use with the K-Line® Boring Fixtures and carbide boring reamers because of its swift **2,100 RPM**, no load speed. With its quality construction, including a 1/2 H.P. motor and a 3/8" Jacobs chuck, this is one of the finest 3/8" air drills available.



Go-No-Go GAUGES

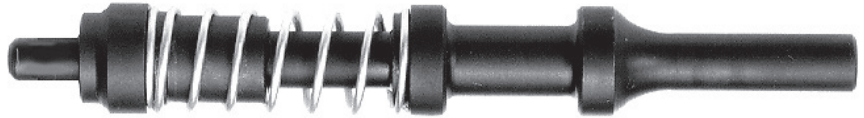
Designed to be used as a quick check after boring the original valve guide. Will detect under or over sizing of the valve guide before installation of the Guide-Liner®. Will also help the machinist know when the boring tool is approaching dull stage and needs to be sharpened or replaced.



Part No.	Size
KL2500	5/16"
KL2501	11/32"
KL2502	3/8"

Part No.	Size
KL2514	5mm
KL2498	5.5mm
KL2499	6mm
KL2504	6.6mm
KL2505	7mm
KL2506	8mm
KL2507	9mm
KL2508	10mm
KL2503	11mm

STEP 2 INSTALL



BRONZE BULLET® AUTO INSTALLER **#1 Rated Installation Tool**

This universal tool features a Guide-Liner® holder incorporated into the driver assembly, making installation quick and effortless. Attach the Auto-Installer to the KL2680 H.D. Air Hammer, insert the Bronze Bullet® liner into the holder assembly, position the driver pilot and Bronze Bullet® liner into the bored hole and drive the Bronze Bullet® liner into the hole until the driver shoulder reaches the guide boss. The Auto-Installer eliminates the need for a separate holder and driver and can cut installation time in half.

U.S. Patent No. 5,355,572

Part No.	Size
KL9961	5/16"
KL9962	11/32"
KL9963	3/8"
KL9968	8mm
KL9969	9mm
KL9970	10mm
KL9964	11mm

SMALL DIAMETER BRONZE BULLET® AUTO INSTALLER

This line of metric auto installers features a reduced diameter Guide-Liner® holder for improved access to the valve guide in modern aluminum cylinder heads with small diameter valve bowls or overhead cam towers.

U.S. Patent No. 5,355,572

Part No.	Size
KL9957	5mm
KL9958	5.5mm
KL9971	6mm
KL9972	6.6mm
KL9973	7mm



BRONZE LUBE

For Knurling and Reaming

This oil is specially formulated for guide knurling and finish reaming. Reamer and arbor life will be extended if the proper amount and type of oil is used. Bronze Lube should be used on bronze Guide-Liners®, but can also be used on cast iron guides.

KL1224 Pint
KL1225 Quart



STEP 3 SIZE



HARD CHROME PLATED BALL BROACHES

A simple, fast method for sizing the inside diameter of Bronze Guide-Liners®. Made of high quality tool steel, hard chrome plated, with a special ground double ball configuration that quickly sizes the inside diameter and eliminates reaming or honing. Use with KL5758 or KL5759 Broach Holder/Driver shown below with KL2680 Air Hammer (page 15). U.S. Patent No. 4,573,346. Canadian Patent No. 1,219,742.

	Part No.	Ball Size
5/16"	KL5842	.310 (7.87)
	KL5843	.311 (7.90)
	KL5844	.312 (7.92)
	KL5845	.313 (7.95)
	KL5846	.314 (7.98)
	11/32"	KL5855	.341 (8.66)
KL5856		.342 (8.69)
KL5857		.3435 (8.725)
KL5858		.3445 (8.750)
KL5889		.345 (8.76)
KL5859		.3455 (8.776)
3/8"	KL5860	.3465 (8.801)
	KL5871	.372 (9.45)
	KL5869	.373 (9.47)
	KL5872	.374 (9.50)
	KL5892	.3745 (9.512)
	KL5873	.375 (9.53)
	KL5893	.3755 (9.538)
	KL5874	.376 (9.55)
	KL5890	.377 (9.58)

	Part No.	Ball Size
5mm	KL5901	.1973 (5.011)
	KL5902	.1978 (5.024)
	KL5903	.1983 (5.037)
5.5mm	KL5808	.217 (5.51)
	KL5809	.2175 (5.525)
	KL5810	.218 (5.54)
	KL5811	.2185 (5.550)
6mm	KL5813	.235 (5.97)
	KL5814	.236 (6.00)
	KL5815	.237 (6.02)
	KL5816	.2375 (6.033)
	KL5817	.238 (6.05)
	KL5818	.2385 (6.058)
6.6mm	KL5819	.239 (6.07)
	KL5820	.2395 (6.083)
	KL5825	.260 (6.60)
	KL5826	.261 (6.63)
	KL5827	.262 (6.65)

	Part No.	Ball Size
7mm	KL5833	.274 (6.96)
	KL5834	.275 (6.99)
	KL5835	.276 (7.01)
	KL5836	.277 (7.04)
8mm	KL5837	.278 (7.06)
	KL5838	.279 (7.09)
	KL5839	.280 (7.11)
	KL5840	.281 (7.14)
	KL5847	.315 (8.00)
	KL5848	.316 (8.03)
9mm	KL5849	.317 (8.05)
	KL5850	.318 (8.08)
	KL5851	.319 (8.10)
	KL5852	.320 (8.13)
10mm	KL5864	.354 (8.99)
	KL5865	.355 (9.02)
	KL5866	.356 (9.04)
	KL5876	.394 (10.00)
11mm	KL5877	.395 (10.03)
	KL5878	.396 (10.06)
	KL5880	.433 (11.00)
	KL5881	.434 (11.02)
	KL5882	.435 (11.05)

IMPORTANT: to obtain the recommended finished guide I.D., a slightly larger ball broach will be required (due to material flow-back that occurs during this sizing operation) typically, .001" (.025mm) to .0015" (.038mm) larger than the desired finished I.D.

AIR HAMMER BALL BROACH HOLDER/DRIVER



Part No.	Description
KL5758	For Ball Broaches 5mm - 8mm
KL5759	For Ball Broaches 11/32" - 11mm
KL5759B	Replacement Bumper

STEP 4 TRIM

KL4235 GUIDE-TOP CUTTER



Designed to be used when cutting excess Guide-Liners®. It has replaceable carbide blades, which are fastened on with screws. Uses standard K-Line® guide-top cutter pilots.

KL4236 Replacement Carbide Blade (2 required)

KL4237 Replacement Holding Screw

Cutter Pilots

Part No.	Cutters
KL4238	5/16" - 8mm
KL4239	11/32"
KL4240	3/8"
KL4244	9mm
KL4248	10mm
KL4241	11mm

The tool shank is 5/8" in diameter x 4" long and the reversible carbide blade is .720 in diameter.

KL4230 5MM DELUXE GUIDE-TOP CUTTER

Reversible Carbide Blade

This deluxe cutter is ideal for cutting excess Guide-Liner® material from valve guide bosses in limited clearance areas found on small port cylinder heads. The tool shank is 3/8" in diameter x 3¾" long and the reversible carbide blade can cut up to a 7/16" diameter guide boss. For use with the KL4247 5mm Cutter Pilot.

KL4247 Cutter Pilot

KL4230A Replacement Carbide Blade

KL4233 SMALL DIAMETER DELUXE GUIDE-TOP CUTTER



Reversible Carbide Blade

This deluxe cutter is ideal for cutting excess Guide-Liner® material from valve guide bosses in limited clearance areas found on small port cylinder heads. Pilots are interchangeable with the larger KL4235A Deluxe Guide-Top Cutter.

Cutter Pilots

Part No.	Cutters
KL4246	5.5mm
KL4245	6mm
KL4242	6.6mm
KL4243	7mm

The tool shank is 3/8" in diameter x 3¾" long and the reversible carbide blade can cut up to a 7/16" diameter guide boss.

KL4234 Replacement Carbide Blade

GUIDE-LINER® TRIMMING TOOL

For manually trimming off excess Guide-Liner® material after installation.



Part No.	Size
KL1787	5/16"
KL1797	11/32"
KL1807	3/8"
KL3184	5.5mm
KL3185	6mm
KL3205	6.6mm
KL1897	7mm
KL1787	8mm
KL3235	9mm

STEP 5 (OPTIONAL) FLEX-HONE® VALVE GUIDE FLEX-HONES®

**Ideal for Precision, Final Fitting
of Valves to Guide-Liners®**

Use with power drill or guide and seat machine. Simply run the closest size FLEX-HONE® through the guide. Works with all guide materials: cast iron, bronze, Bron-EL® and silicon aluminum-bronze. Recommended for one pass final finish on Bronze Guide-Liners.

NOTE: After flex honing, proper guide cleaning is required.

Recommended for use with KL3808 2100 RPM Air Drill to activate approximately 20-23 Ra in Bronze Guide-Liners®.



Part No.	Size	Grit
KL2422	5mm	240
KL2424	5.5mm	240
KL2423	6mm	240
KL2425	6.6mm	240
KL2426	7mm	240
KL2427	5/16" (8mm)	240
KL2428	11/32" (9mm)	240
KL2419	3/8"	240
KL2429	10mm	240
KL2430	11mm	240

GUIDE-LINER® REMOVAL TOOL #1 Rated Removal Tool



Easily removes old Guide-Liners® without disrupting original guide bore. Pilot aligns tool as you drive it through the guide. KL5758 Air Hammer Ball Broach Holder/Driver (page 16) required with removal tool when using pneumatic hammer to remove the Guide-Liner®

Part No.	Guide-Liner® Size
KL5680	5/16"
KL5681	11/32"
KL5682	3/8"
KL5677	5mm
KL5678	5.5mm
KL5679	6mm
KL5684	6.6mm
KL5685	7mm
KL5686	8mm
KL5687	9mm
KL5688	10mm
KL5689	11mm

KL2680 H.D. AIR HAMMER

This high impact heavy-duty air hammer delivers short rapid strokes and uniform driving pressure, making it ideally suited for Guide-Liner® installation, broaching and removal. Built in regulator.

- .401 Opening
- Weighs on 3 lbs.
- 5¼" O.A.L.
- 4 C.F.M. Air Consumption
- 4,500 Blows Per Minute
- Short Stroke 1½"



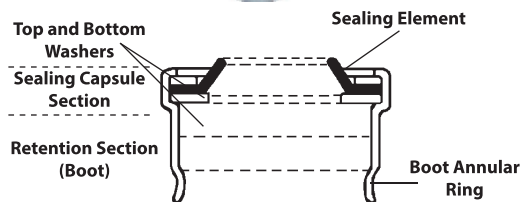
STEEL-GRIP® VALVE SEALS Positive Oil Control

For positive oil control, nothing does the job better than this seal. A special Teflon® sealing element assures positive oil control, but will not “dry up” valve stems. The special steel housing will not crack or vibrate loose. The outside diameter of the housing is extremely narrow so it will have ample clearance on double valve spring setups. This seal has solved many problems connected with oil loss through the valve stems. Can also be used on thin-wall replacement guides, both cast iron and the Bronze Guide-Liners®.



- Can be installed with your present valve guide machining tools for boot type seals.
- Specially formulated graphite impregnated Teflon® sealing element.
- Self-tightening seal design assures longer life.
- Steel housing will not vibrate loose, crack or disintegrate.

U.S. Patent No.'s 4,502,696; 4,822,061. Canadian Patent No. 890792



VALVE SEALS

Part No.	Stem x Guide
122-1224	1/4" x .385
322-1018	5/16" x .500
322-1019	5/16" x .530
322-1020	11/32" x .500
322-1021	11/32" x .530
322-1022	3/8" x .530
322-1023	3/8" x .562
•122-1223	5/16" x .420
••122-1399	5/16" x .420
•122-1221	11/32" x .562
••122-1400	3/8" x .625

•Designed for Detroit Diesel
 ••Designed for Harley-Davidson

SEAL DRIVERS

Part No.	For Seal No.
122-9003	322-1018, 322-1020, 322-1019, 322-1021, 322-1022, 122-1400
122-9005	122-1399
122-9004	322-1023, 122-1223, 122-1221

PROTECTOR SLEEVES

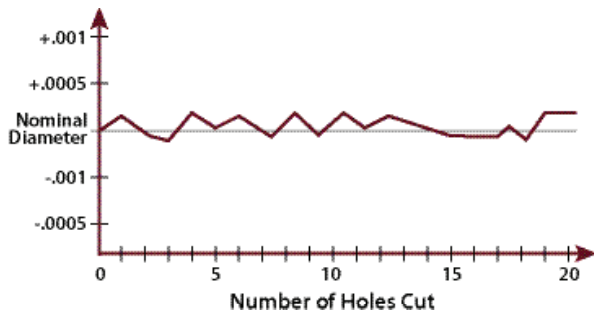
Part No.	For Seal No.
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122-9001	322-1020, 322-1021, 122-1221
122-9002	322-1022, 322-1023, 122-1400

BRONZE VALVE GUIDE FINISH REAMERS

- Whether you are reaming Manganese Bronze, Aluminum Bronze or Silicon Aluminum Bronze, you can count on cutting more holes per reamer.
- Specially fluted, heat-treated and ground to give you improved cutting geometry.
- A new pointed pilot allows for easier insertion into guide and better chip removal
- You can count on getting longer life and greater consistency from hole to hole.
- K-Line's Bronze Valve Guide Finish Reamers produce a smooth on-size I.D. while they resist galling.

Patent Numbers 4,231,693 and 5,921,728

*“K-Line Bronze Guide Reamers:
quick, accurate, long-lasting.”*



Part No.	Size
KL1185NB	.2165 (5.5mm)
KL1110NB	.236 (6mm)
KL1173NB	.260 (6.6mm)
KL1111NB	.2755 (7mm)
KL1116NB	.310 (7.87)
KL1117NB	.311 (7.90)
KL1118NB	.312 (5/16")
KL1176NB	.313 (7.95)
KL1177NB	.314 (7.98)
KL1112NB	.315 (8mm)
KL1174NB	.316 (8.03)
KL1175NB	.317 (8.05)
KL1119NB	.341 (8.66)
KL1120NB	.342 (8.69)
KL1121NB	.343 (8.71)
KL1122NB	.344 (11/32")
KL1123NB	.345 (8.76)
KL1113NB	.3543 (9mm)
KL1124NB	.371 (9.42)
KL1125NB	.372 (9.45)
KL1126NB	.373 (9.47)
KL1127NB	.374 (9.50)
KL1128NB	.375 (3/8")
KL1193NB	.377 (9.58)
KL1182NB	.378 (9.60)

All sizes listed are in stock for immediate delivery. **Special reamer sizes also available.** Specials must be within .003 smaller than standard listed reamer. Charge for these is determined from the cost of larger standard size. **Additional grinding charge is added for H.S. Steel and Bronze Reamers.**

H.S.S. FINISH REAMERS FOR CAST IRON VALVE GUIDES



High quality reamers crafted from the finest tools steel and tempered for long life. Reamers are piloted for self-centering action. Spiral flutes give a smooth, even cut. A new pointed pilot allows for easier insertion into guide and better chip removal. With proper care, they will accurately size thousands of guides.

All sizes listed are in stock for immediate delivery. **Special reamer sizes also available.** Specials must be within .003 smaller than standard listed reamer. Charge for these is determined from the cost of larger standard size. **Additional grinding charge is added for H.S. Steel and Bronze Reamers.**

Part No.	Size
KL1060	.197 (5.00)
KL1061	.214 (5.44)
KL1062	.215 (5.46)
KL1185	.2165 (5.50)
KL1063	.217 (5.51)
KL1064	.218 (5.54)
KL1199	.234 (5.94)
KL1216	.235 (5.97)
KL1110	.2362 (6.00)
KL1217	.237 (6.02)
KL1218	.238 (6.05)
KL1115	.250 (1/4")
KL1207	.258 (6.55)
KL1208	.259 (6.58)
KL1173	.260 (6.60)
KL1157	.274 (6.96)
KL1111	.2756 (7.00)
KL1214	.276 (7.01)
KL1148	.277 (7.03)
KL1187	.281 (9/32")
KL1116	.310 (7.87)
KL1117	.311 (7.90)
KL1118	.312 (5/16")
KL1176	.313 (7.95)

Part No.	Size
KL1177	.314 (7.97)
KL1112	.315 (8.00)
KL1174	.316 (8.03)
KL1175	.317 (8.05)
KL1178	.318 (8.08)
KL1188	.327 (8.31)
KL1210	.340 (8.64)
KL1119	.341 (8.66)
KL1120	.342 (8.69)
KL1121	.343 (8.71)
KL1180	.3435 (11/32")
KL1122	.344 (8.74)
KL1123	.345 (8.76)
KL1136	.346 (8.79)
KL1181	.347 (8.81)
KL1190	.353 (8.97)
KL1113	.3542 (9.00)

Part No.	Size
KL1191	.355 (9.02)
KL1192	.356 (9.04)
KL1215	.357 (9.06)
KL1138	.358 (9.09)
KL1125	.372 (9.45)
KL1126	.373 (9.47)
KL1127	.374 (9.50)
KL1128	.375 (3/8")
KL1139	.376 (9.55)
KL1193	.377 (9.58)
KL1182	.378 (9.60)
KL1209	.379 (9.63)
KL1194	.380 (9.65)
KL1213	.381 (9.68)
KL1196	.388 (9.86)
KL1197	.390 (25/64")
KL1205	.393 (9.98)
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MANUFACTURER TRADEMARKS

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