

# IMPORTANT PRE-TEST INFORMATION

### Safety Precautions

ATD)

- 1. Do not smoke when working on fuel systems.
- Never work on fuel systems where a flame or spark could be present. Keep a dry chemical fire extinguisher near you.
- 3. Wear safety glasses at all times.
- 4. Clean all connections, and keep dirt out of the system.
- To avoid fuel spray, wrap a shop towel around the pressure tap fittings when connecting and disconnecting adapters.
- 6. Provide for proper ventilation of gasoline and exhaust fumes.
- 7. If a leak or spill develops, turn off ignition, disable fuel pump and clean up any spills immediately.
- Operators must read and follow the operating instructions from a reliable shop manual for proper test procedures, access points, and pressure specifications.

### Pretest System Checks

1. Fuel System

Look for broken or loose fuel lines

Check for water or other contaminants in the fuel, and make sure fuel tank has sufficient fuel for testing.

Check condition of fuel tank venting systems, fuel tank filler cap, and fuel systems related fuses.

#### 2. Electrical System

Check conditions of all electrical systems and other computer fault indicators. If engine won\*t start, check for ignition spark using a test plug.

3. Battery & Charging System

Check battery condition, make sure battery is fully charged

Check for loose or corroded battery cables.

### 4. Miscellaneous

Check for loose or disconnected vacuum lines.

Check for water or oil leaks.

Check for any audible air leaks, unusual noises, fuel pump buzz, engine rattles or knocks.

Check valve timing and adjustment.

## BASIC FUEL PRESSURE DIAGNOSIS

Fuel injected engines require precise fuel pressure as well as adequate volume. Without the correct pressure and volume, performance and fuel economy can suffer. Always consult the correct repair manual for accurate specifications.

Fuel pressure problems generally fall into two categories: higher than normal and lower than normal operating pressures. When running tests, it may help to picture the fuel system as a circle. Fuel is pumped from the tank to the fuel regulator and injectors, and the unused fuel is them returned to the tank. The fuel regulator serves as a divider between the supply side and return side. A higher than normal pressure is generally caused by a malfunction in the return side, and a lower than normal pressure is generally caused by a problem in the supply side.

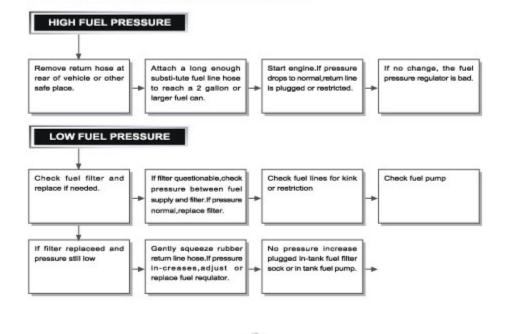
Higher than normal pressures can usually be attributed to faults such as:

- 1. Defective fuel pressure regulator
- 2. A damaged or restricted fuel line
- 3. Excessive tank pressure caused by a poor vent system

Lower than normal pressures can usually be attributed to faults such as:

- 1. Clogged fuel filter
- 2. A damaged or restricted fuel line
- 3. Defective fuel pump
- 4. Defective pressure regulator
- 5. Clogged fuel filter sock in tank
- 6. Low pressure in tank (vacuum) caused by improper venting

## Trooble Shooting Multi-port & TBI Systems



# PROCEDURE TO RELIEVE FUEL SYSTEM PRESSURE

High fuel pressure may be present in fuel lines and components. Unless a Schrader Valve test port is available, most manufacturers require that you relieve the fuel pressure before entering or leaving the system. Follow the instructions below to relieve fuel system.

#### 1. Remove gas cap with ignition off

 Unplug or disconnect at fuel pumps. On some vehicles may have two fuel pumps, in tank and outside, make sure both are disabled. Also on some vehicles, such as Audi, BMW, Ford, GM, Mazda, and Mercedes-Benz, another disabling method must be used. (see Fuel Pressure Release Chart Below).

- 3. Turn the ignition key on and start the engine.
- 4. Run the engine until it stalls.

5. Crank starter for 3-5 seconds to remove remaining fuel from the fuel lines. For cars with inertia switch pressure relief, engage starter 15 seconds to relive fuel pressure.

6. Turn ignition key off

### Fuel Pressure Release Unplug or disconnect at fuel pump(s)

Acura	Geo	Nissan/Datsun	Subaru
Alfa Romeo	Honda	Peugeot	Suzuki
AMC	Hyundai	Porsche*	Toyota
Chrysler	Isuzu	Renault	Triumph
Daihatsu	Jaguar	Saabr	Volkswagen*
Eagle	Jeep	Sterling	Volvo*
Flat	Mitsubishi		

\*some models have two fuel pumps, in tank and outside. Unplug both.

### Disable in other ways:

#### Audi

Coupe & Quattro : unplug fuel pump connector. All others : remove fuel pump relay.

#### BMW

Through 1990 : Disconnect negative terminal of fuel pump. 1991:Unplug fuel pump connector.

#### Ford

Cars, vans, and utility vehicles except Explorer: Disconnect inertia seltch.

Explorer: Unplug fuel pump connector. Some Ford products have two fuel pumps. It is important that both fuel pumps are disabled.

#### GM

All except below:unplug fuel pump connector. (a)1975-80 Cadillac: Disconnect one fuel pump in gas tank and second one on chassis, left front of tank. (b)1986-89 Corvette: Remove fuel pump fuse if one fuel pump.If two fuel pumps, remove the correct 10 amp. fuse in both the maun and auxiliary fuse blocks.

#### Mazda

MPV,MX-6,626,RX7,323,929, & Navajo: Unplug frei pump connector.

B2600,MX5, & Miata:Disconnect circuit opening relay connector.

#### Mercedes-Benz

Disconnect negative terminal of fuel pump connector.

# TYPICAL FUEL INJECTION PRESSURE TEST

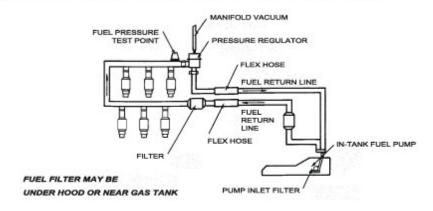
(For Bosch CIS & GM TBI,see additional instructions)

- With engine off, locate fuel pressure port and simply connect the proper adapter to the gauge assembly, thread the adapter to the test port. If no pressure port is provided, the system must be opened. Residual pressure must be released before disconnecting any components. See "PROCEDURE TO RELIEVE FUEL SYSTEM PRESSURE" and follow instructions. Connect tester using the correct adapter and access point. Always wrap a shop towel around fitting before looseings.
- 2. With gauge connected into system using proper adapters, reactivate fuel pump, turn ignition on and engine off, and check for leaks. If no leaks are detected, observe gauge. Pressure should rise slightly above operating pressure and then stabilize at operating pressure.
- Start engine. If an adjustable fuel pressure regulator is used, pressure should be maintained during running. If a compensating fuel pressure regulator is used, pressure should drop approximately 3-10 PSI, depending on manifold vacuum.
- 4.If the fuel pressure is not within specifications, refer to the "BASIC FUEL PRESSURE DIAGNOSIS" and "TROUBLE SHOOTING CHART".
- 5.If pressures are acceptable, some manufacturers also require a flow test. If so, at this point open the fuel system into a graduated plastic container and observe flow rate.
- Turn key off and observe residual pressure. Some manufacturers prescribe a minimum holding time.

7.In conjunction with an injector pulse tester, turn key on, observe pressure, pulse one injector, observe pressure drop, turn key off, continue with remaining injectors. Caution: Do not repeat this test more than manufacturer's recommendations. Flooding of engine may occur.

- Deactivate fuel pump and relieve fuel system if necessary. With key off, put bleed-off tubing in a fuel can and press bleed-valve.
- 9.Remove tester and reconnect all lines
- 10.Start engine and check for leaks.

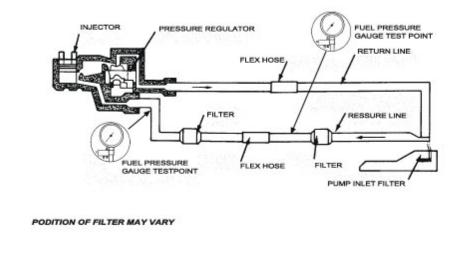
# Typical Multi-port Fuel Injection System With Schrader Valve



### ADDITIONAL INSTRUCTIONS GM TBI PRESSURE TEST

- Relieve fuel system pressure, refer to the "PROCEDURE TO RELIEVE FUEL SYSTEM PRESSURE".
- 2. Remove the air cleaner assembly
- Temporarily plug the thermal vacuum port on the throttle body. When removing fuel line, always use 2 wrenched to prevent damage. Install fuel pressure gauge and adapter in fuel between steel line and flexible hose.
- 4. Reactivate fuel pump, start the engine and check for leaks.
- When fuel pressure has stabilized after a minute or so, gauge should read 9-13 PSI
- If the fuel pressure is not within specifications, refer to the "BASIC FUEL PRESSURE DIAGNOSIS" and "TROUBLE SHOOTING CHART".
- Deactivate fuel pump, and relieve fuel system pressure. With key off, put bleedoff tubing in a fuel can and press bleed-off valve.
- 8. Remove tester and reconnect all lines.
- 9. Start Engine and check for leaks.
- 10.Remove fuel from all tester hoses.

### Typical TBI Fuel Injection System

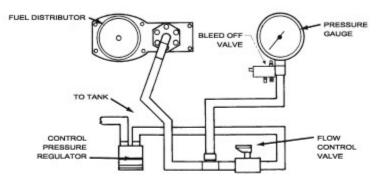


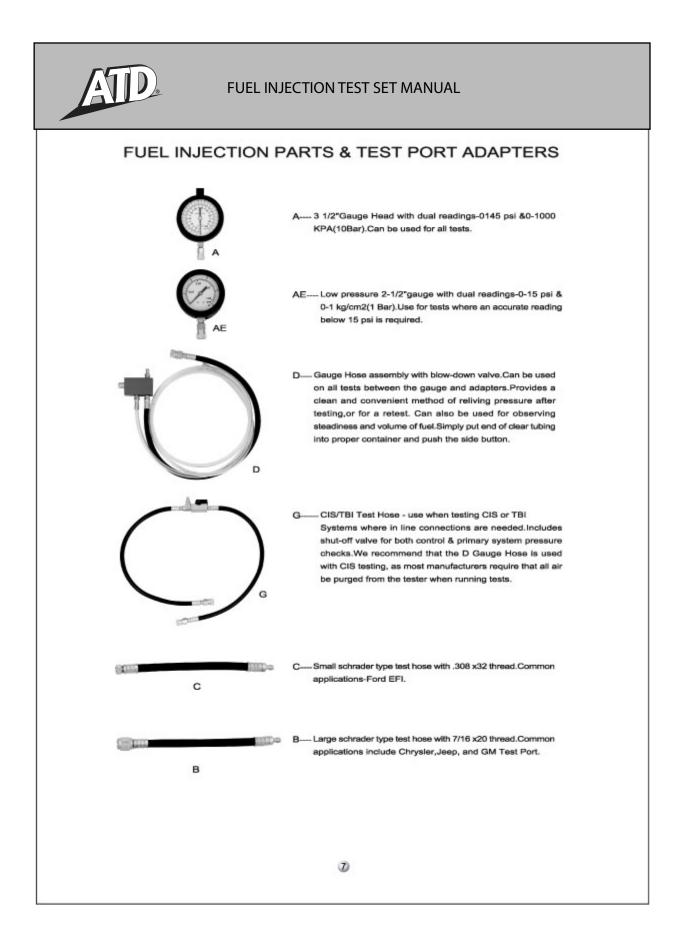
# ADDITIONAL INSTRUCTIONS FOR BOSCH CIS PRESSURE TEST

Note: Control pressure is measured with valve open system pressure is measured with valve close.

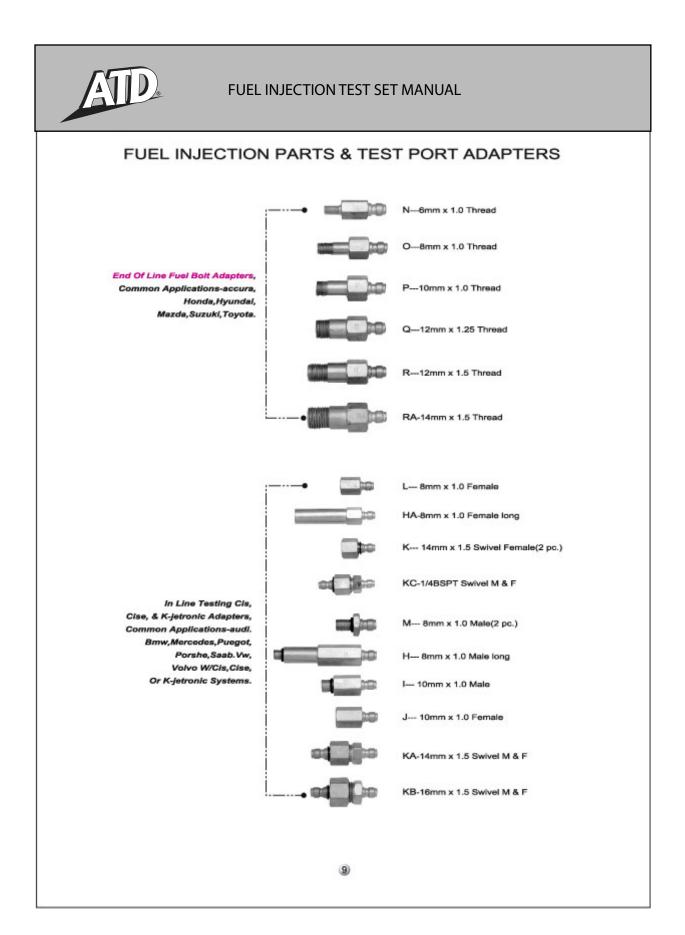
- 1. Relieve fuel system pressure, refer to the "PROCEDURE TO RELIEVE FUEL SYSTEM PRESSURE".
- 2.Make sure fuel filter is not clogged. Replace if doubtful.
- 3.Clean dirt off the fuel distributor top
- 4.Install fuel pressure gauge and adapter between the fuel distributor test port and flow control valve. Ensure control lever is in the closed position. Bleed excess air from system by cycling control valve with gauge upside down.
- 5.Using a jumper wire, connect terminal No. 30 and 87 on fuel pump relay. Open fuel pressure gauge control lever. Fuel pressure should be within specification.
- 6.If fuel pressure is too low, perform fuel pump volume check. Also, there may be a blockage in the supply line or leakage in the return line. If fuel volume is okay, the fuel system pressure needs adjustment or replace fuel pressure regulator.
- 7.If fuel pressure is above specification, remove return hose from pressure regulator and repeat test. If fuel pressure is within specification, check for restricted fuel return line. If pressure is incorrect, the fuel system pressure needs adjustment or replace fuel pressure regulator.
- 8.Deactivate fuel pump, and relieve fuel system pressure. With key off, put bleed-off tubing in a fuel can and press bleed-off valve.
- 9.Remove tester and reconnect all lines.
- 10.Start Engine and check for leaks.
- 11.Remove fuel from all tester hoses.

### Typical C.I.S Pressure Testing Fuel Injection Hookup





# FUEL INJECTION TEST SET MANUAL FUEL INJECTION PARTS & TEST PORT ADAPTERS F--- Double Ended Barb Fitting-Common Application-F Where 5/16-3/8 fuel line hose can be entered for testing-AMC, Chrysler, w/TBI, Flat, GM w/Bosch L-Jetr, Jaguar, Mazda, Nissan, Puegot & Porsche w/Bosch L-Jetr, Renault, Subaru, Triumph, and VW X and & Volvo w/Bosch L-Jetr. X--- Hair Pin Hose 5/16\*-Common Application-Ford XA EFI XA- Hair Pin Hose 3/8"-Common Application-GM Chrysler No. w W-Spring Lock Hose -Common Application-Ford EFI E- Single End Hose Connection 1/4" X3/8"-Common Applications-older Port Systems with hose connection, and where rubber hose fuel lines from 1/4"-3/8" can be accessed. MCA MCA - 430 Male Quick Disconnect Fitting, Common Application - Mitsubishi, Chrysler MA- 5/8" Male Quick Disconnect Fitting, Common Application - Mitsubishi V- 5/8" x 18" Male fitting(2 pc.) U--- 16mm x 1.5 Male Tube nut(2) T- 16mm x 1.5 Male Tube nut(2) Tbi In Line Testing Adapters, **Common Applications** - Gm Tbi Systems UB- 14mm x 1.5 Male Tube nut(2) UA- 14mm x 1.5 Male Tube nut(2) UC- 14mm x 1.5 Plug S- Union-5/8" x18 8



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A AC AD AE B N/S C D E F G	PRT5578-A PRT5578-AC PRT5578-AD PRT5578-AE PRT5578-B-HS PRT5578-B-HS PRT5578-C PRT5578-C PRT5578-C PRT5578-F PRT5578-F PRT5578-G	PART DESCRIPTION     3.5" GAUGE W/QUICK COUPLER     3.5" GAUGE PROTECTOR     2.5" GAUGE PROTECTOR     2.5" GAUGE W/QUICK COUPLER     7/16" x 20 ADAPTER HOSE GM / CHRYSLER     RED SEAL FOR "B" HOSE VALVE     308 x 32 ADAPTER HOSE FORD EFI     GAUGE HOSE WITH RELIEF VALVE     SINGLE END HOSE ADAPTER     DOUBLE END HOSE ADAPTER 5/16" - 3/8"     CIS/TBI HOSE ASSY W/VALVE	M MA MCA N O P Q QC R RA RK	ORDERING PART# PRT5578-M PRT5578-MA PRT5578-N PRT5578-N PRT5578-O PRT5578-Q PRT5578-Q PRT5578-R PRT5578-RA PRT5578-RA	PART DESCRIPTION 8MM x 1.0 MALE CIS FITTING 430 MALE QUICK DISCONNECT - MITS/CHRY 5/8" MALE QUICK DISCONNECT - MITS/UBISHI 6MM x 1.0 BANJO FITTING 8MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 10MM x 1.2 BANJO FITTING QUICK COUPLER FOR GAUGES 12MM x 1.5 BANJO FITTING 14MM x 1.5 BANJO FITTING 14MM x 1.5 BANJO FITTING
A AC AD AE B N/S C D E F G	PRT5578-A PRT5578-AD PRT5578-AD PRT5578-AE PRT5578-B PRT5578-B PRT5578-C PRT5578-C PRT5578-E PRT5578-E PRT5578-F	PART DESCRIPTION     3.5" GAUGE W/QUICK COUPLER     3.5" GAUGE PROTECTOR     2.5" GAUGE PROTECTOR     2.5" GAUGE W/QUICK COUPLER     7/16" x 20 ADAPTER HOSE GM / CHRYSLER     RED SEAL FOR "B" HOSE VALVE     308 x 32 ADAPTER HOSE FORD EFI     GAUGE HOSE WITH RELIEF VALVE     SINGLE END HOSE ADAPTER     DOUBLE END HOSE ADAPTER 5/16" - 3/8"     CIS/TBI HOSE ASSY W/VALVE	M MA MCA N O P Q QC R RA RK	ORDERING PART# PRT5578-MA PRT5578-MCA PRT5578-MCA PRT5578-P PRT5578-P PRT5578-Q PRT5578-Q PRT5578-R PRT5578-R	PART DESCRIPTION 8MM x 1.0 MALE CIS FIITING 430 MALE QUICK DISCONNECT - MITS/CHRY 5/8" MALE QUICK DISCONNECT - MITS/BISHI 6MM x 1.0 BANJO FIITING 10MM x 1.0 BANJO FIITING 10MM x 1.0 BANJO FIITING 12MM x 1.25 BANJO FIITING 12MM x 1.5 BANJO FIITING 12MM x 1.5 BANJO FIITING
A AC AD C B N/S C D E F G H	PRT5578-AC PRT5578-AC PRT5578-AE PRT5578-AE PRT5578-B-HS PRT5578-B-HS PRT5578-C PRT5578-C PRT5578-F PRT5578-G PRT5578-H	PART DESCRIPTION      3.5" GAUGE W/QUICK COUPLER      3.5" GAUGE PROTECTOR      2.5" GAUGE PROTECTOR      2.5" GAUGE W/QUICK COUPLER      7/16" x 20 ADAPTER HOSE GM / CHRYSLER      RED SEAL FOR "B" HOSE VALVE      308 x 32 ADAPTER HOSE FORD EFI      GAUGE HOSE WITH RELEF VALVE      SINGLE END HOSE ADAPTER      DOUBLE END HOSE ADAPTER 5/16" - 3/8"      CLS/TBI HOSE ASSY W/ALVE      8MM x 1.0 MALE CIS FITTING (LONG)	M MA MCA N O P Q Q Q C R R RA RK S	ORDERING PART# PRT5578-M PRT5578-MCA PRT5578-O PRT5578-O PRT5578-O PRT5578-Q PRT5578-Q PRT5578-R PRT5578-R PRT5578-R PRT5578-R PRT5578-S	PART DESCRIPTION 8MM x 1.0 MALE CIS FITTING 430 MALE QUICK DISCONNECT - MITS/CHRY 5/8" MALE QUICK DISCONNECT - MITS/UBISHI 6MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 10MM x 1.2 BANJO FITTING QUICK COUPLER FOR GAUGES 12MM x 1.5 BANJO FITTING 14MM x 1.5 BANJO FITTING REPAIR KIT (RUBBER SEALS/BRASS 5/8" x 18 UNION
A AC AD AE B N/S C D E F G G H HA	PRT5578-AC PRT5578-AC PRT5578-AE PRT5578-AE PRT5578-B-HS PRT5578-B-HS PRT5578-C PRT5578-C PRT5578-C PRT5578-G PRT5578-H PRT5578-H PRT5578-H	PART DESCRIPTION     3.5" GAUGE W/QUICK COUPLER     3.5" GAUGE PROTECTOR     2.5" GAUGE PROTECTOR     2.5" GAUGE PROTECTOR     2.5" GAUGE W/QUICK COUPLER     7/16" x20 ADAPTER HOSE GM / CHRYSLER     RED SEAL FOR "B" HOSE VALVE     308 x 32 ADAPTER HOSE FORD EFI     GAUGE HOSE WITH RELIEF VALVE     SINGLE END HOSE ADAPTER     DOUBLE END HOSE ADAPTER     DOUBLE END HOSE ADAPTER     DOUBLE END HOSE ADAPTER S'116" - 3/8"     CLS/TBI HOSE SY W/VALVE     8MM x 1.0 MALE CIS FITTING (LONG)     8MM x 1.0 FEMALE CIS FITTING (LONG)	M MA MCA N O Q Q Q Q R RA RA RK S T	ORDERING PART# PRT5578-MA PRT5578-MCA PRT5578-MCA PRT5578-P PRT5578-P PRT5578-P PRT5578-R PRT5578-R PRT5578-R PRT5578-R PRT5578-R PRT5578-T	PART DESCRIPTION BMM x 1.0 MALE CIS FIITING 430 MALE QUICK DISCONNECT - MITS/CHRY 5/8" MALE QUICK DISCONNECT - MITS/BISHI 6MM x 1.0 BANJO FIITING 10MM x 1.0 BANJO FIITING 10MM x 1.0 BANJO FIITING 12MM x 1.25 BANJO FIITING QUICK COUPLER FOR GAUGES 12MM x 1.5 BANJO FIITING 14MM x 1.5 BANJO FIITING REPAIR KIT (RUBBER SEALS/BRASS 5/8" x 18 UNION
A AC AD AE B N/S C D E F G H HA	PRT5578-AC PRT5578-AC PRT5578-AE PRT5578-AE PRT5578-B-HS PRT5578-B-HS PRT5578-C PRT5578-C PRT5578-F PRT5578-G PRT5578-H	PART DESCRIPTION     3.5" GAUGE W/QUICK COUPLER     3.5" GAUGE PROTECTOR     2.5" GAUGE PROTECTOR     2.5" GAUGE PROTECTOR     2.5" GAUGE W/QUICK COUPLER     7/16" x20 ADAPTER HOSE GM / CHRYSLER     RED SEAL FOR "B" HOSE VALVE     308 x 32 ADAPTER HOSE FORD EFI     GAUGE HOSE WITH RELIEF VALVE     SINGLE END HOSE ADAPTER     DOUBLE END HOSE ADAPTER     DOUBLE END HOSE ADAPTER     DOUBLE END HOSE ADAPTER S'116" - 3/8"     CLS/TBI HOSE SY W/VALVE     8MM x 1.0 MALE CIS FITTING (LONG)     8MM x 1.0 FEMALE CIS FITTING (LONG)	M MA MCA N O P Q Q Q C R R RA RK S	ORDERING PART# PRT5578-M PRT5578-MCA PRT5578-O PRT5578-O PRT5578-O PRT5578-Q PRT5578-Q PRT5578-R PRT5578-R PRT5578-R PRT5578-R PRT5578-S	PART DESCRIPTION BMM x 1.0 MALE CIS FIITING 430 MALE QUICK DISCONNECT - MITS/CHRY 5/8" MALE QUICK DISCONNECT - MITS/BISHI 6MM x 1.0 BANJO FIITING 10MM x 1.0 BANJO FIITING 10MM x 1.0 BANJO FIITING 12MM x 1.25 BANJO FIITING QUICK COUPLER FOR GAUGES 12MM x 1.5 BANJO FIITING 14MM x 1.5 BANJO FIITING REPAIR KIT (RUBBER SEALS/BRASS 5/8" x 18 UNION
A AC AD AE B N/S C D E F G H HA I	PRT5578-A PRT5578-AC PRT5578-AD PRT5578-AE PRT5578-B-HS PRT5578-B-HS PRT5578-C PRT5578-C PRT5578-F PRT5578-F PRT5578-F PRT5578-H PRT5578-HA PRT5578-HA	PART DESCRIPTION     3.5" GAUGE W/QUICK COUPLER     3.5" GAUGE PROTECTOR     2.5" GAUGE PROTECTOR     2.5" GAUGE PROTECTOR     2.5" GAUGE W/QUICK COUPLER     7/16" x 20 ADAPTER HOSE GM / CHRYSLER     RED SEAL FOR "B" HOSE VALVE     308 x 32 ADAPTER HOSE FORD EFI     GAUGE HOSE WITH RELEF VALVE     SINGLE END HOSE ADAPTER 5/16" - 3/8"     CIS/TBI HOSE ASSY W/VALVE     8MM x 1.0 MALE CIS FITTING (LONG)     8MM x 1.0 MALE CIS FITTING (LONG)	M MA N O P QC R RA RK S T U	ORDERING PART# PRT5578-M PRT5578-MA PRT5578-N PRT5578-N PRT5578-O PRT5578-Q PRT5578-Q PRT5578-Q PRT5578-RA PRT5578-RA PRT5578-RA PRT5578-RK PRT5578-J	PART DESCRIPTION 8MM x 1.0 MALE CIS FITTING 430 MALE QUICK DISCONNECT - MITS/CHRY 5/8" MALE QUICK DISCONNECT - MITS/CHRY 5/8" MALE QUICK DISCONNECT - MITS/UBISHI 6MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 10MM x 1.5 BANJO FITTING QUICK COUPLER FOR GAUGES 12MM x 1.5 BANJO FITTING 14MM x 1.5 BANJO FITTING 14MM x 1.5 BANJO FITTING 16MM x 1.5 FEMALE TUBE ADAPTER 16MM x 1.5 MALE TUBE ADAPTER
A AC AD AE B N/S C D E F G H HA I I M	PRT5578-AC PRT5578-AC PRT5578-AE PRT5578-AE PRT5578-B-HS PRT5578-C PRT5578-C PRT5578-C PRT5578-C PRT5578-F PRT5578-F PRT5578-H PRT5578-H PRT5578-H PRT5578-M	PART DESCRIPTION      3.5" GAUGE W/QUICK COUPLER      3.5" GAUGE PROTECTOR      2.5" GAUGE PROTECTOR      2.5" GAUGE W/QUICK COUPLER      7/16" x 20 ADAPTER HOSE GM / CHRYSLER      RED SEAL FOR "8" HOSE VALVE      SINGLE END HOSE ADAPTER      DOUBLE END HOSE ADAPTER      DOUBLE END HOSE ADAPTER 5/16" - 3/8"      CS/TBI HOSE ASPY W/VALVE      8MM x 1.0 MALE CIS FITTING (LONG)      8MM x 1.0 FEMALE CIS FITTING      INSTRUCTION MANUAL	M MA MCA N O P QC R RA RK S T U UA	ORDERING PART# PRT5578-M PRT5578-MA PRT5578-N PRT5578-N PRT5578-O PRT5578-Q PRT5578-Q PRT5578-R PRT5578-RA PRT5578-RA PRT5578-RA PRT5578-R PRT5578-T PRT5578-U PRT5578-U	PART DESCRIPTION BMM x 1.0 MALE CIS FITTING 430 MALE QUICK DISCONNECT - MITS/CHRY 5/8" MALE QUICK DISCONNECT - MITS/BISHI 6MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 12MM x 1.25 BANJO FITTING QUICK COUPLER FOR GAUGES 12MM x 1.5 BANJO FITTING 14MM x 1.5 BANJO FITTING 14MM x 1.5 FEMALE TUBE ADAPTER 16MM x 1.5 FEMALE TUBE ADAPTER 14MM x 1.5 FEMALE TUBE ADAPTER
A AC AD AE B N/S C D E F G H HA I I M J	PRT5578-A PRT5578-AC PRT5578-AE PRT5578-AE PRT5578-B-HS PRT5578-B-HS PRT5578-C PRT5578-C PRT5578-C PRT5578-F PRT5578-F PRT5578-HA PRT5578-HA PRT5578-IM PRT5578-IM PRT5578-IM	PART DESCRIPTION      3.5" GAUGE W/QUICK COUPLER      3.5" GAUGE PROTECTOR      2.5" GAUGE PROTECTOR      2.5" GAUGE W/QUICK COUPLER      7/16" x20 ADAPTER HOSE GM / CHRYSLER      RED SEAL FOR "B" HOSE VALVE      308 x32 ADAPTER HOSE FORD EFI      GAUGE HOSE WITH RELIEF VALVE      SINGLE END HOSE ADAPTER      DOUBLE END HOSE ADAPTER S'116" - 3/8"      CIS/TBI HOSE ASSY W/VALVE      BMM x 1.0 FEMALE CIS FITTING (LONG)      INSTRUCTION MANUAL      IOMM x 1.0 FEMALE CIS FITTING	M MA N O P Q QC R RA RK S T U U U B	ORDERING PART# PRT5578-MA PRT5578-MCA PRT5578-MCA PRT5578-P PRT5578-P PRT5578-P PRT5578-R PRT5578-R PRT5578-R PRT5578-R PRT5578-T PRT5578-U PRT5578-U PRT5578-U PRT5578-UB	PART DESCRIPTION BMM x 1.0 MALE CIS FIITING 430 MALE QUICK DISCONNECT - MITS/CHRY 5/8" MALE QUICK DISCONNECT - MITS/DHSHI 6MM x 1.0 BANJO FIITING 10MM x 1.0 BANJO FIITING 10MM x 1.0 BANJO FIITING 12MM x 1.25 BANJO FIITING QUICK COUPLER FOR GAUGES 12MM x 1.5 BANJO FIITING 14MM x 1.5 BANJO FIITING REPAIR KIT (RUBBER SEALS/BRASS 5/8" x 18 UNION 16MM x 1.5 FEMALE TUBE ADAPTER 14MM x 1.5 MALE TUBE ADAPTER 14MM x 1.5 MALE TUBE ADAPTER 14MM x 1.5 MALE TUBE ADAPTER
A AC AD AE B N/S C D E F G H HA I I M J	PRT5578-AC PRT5578-AC PRT5578-AE PRT5578-AE PRT5578-B-HS PRT5578-C PRT5578-C PRT5578-C PRT5578-C PRT5578-F PRT5578-F PRT5578-H PRT5578-H PRT5578-H PRT5578-M	PART DESCRIPTION      3.5" GAUGE W/QUICK COUPLER      3.5" GAUGE PROTECTOR      2.5" GAUGE PROTECTOR      2.5" GAUGE W/QUICK COUPLER      7/16" x 20 ADAPTER HOSE GM / CHRYSLER      RED SEAL FOR "8" HOSE VALVE      SINGLE END HOSE ADAPTER      DOUBLE END HOSE ADAPTER      DOUBLE END HOSE ADAPTER 5/16" - 3/8"      CS/TBI HOSE ASPY W/VALVE      8MM x 1.0 MALE CIS FITTING (LONG)      8MM x 1.0 FEMALE CIS FITTING      INSTRUCTION MANUAL	M MA MCA N O P QC R RA RK S T U UA	ORDERING PART# PRT5578-M PRT5578-MA PRT5578-N PRT5578-N PRT5578-O PRT5578-Q PRT5578-Q PRT5578-R PRT5578-RA PRT5578-RA PRT5578-RA PRT5578-R PRT5578-T PRT5578-U PRT5578-U	PART DESCRIPTION 8MM x 1.0 MALE CIS FITTING 430 MALE QUICK DISCONNECT - MITS/CHRY 5/8" MALE QUICK DISCONNECT - MITS/UBISHI 6MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 12MM x 1.2 BANJO FITTING QUICK COUPLER FOR GAUGES 12MM x 1.5 BANJO FITTING QUICK COUPLER FOR GAUGES 12MM x 1.5 BANJO FITTING 14MM x 1.5 FEMALE TUBE ADAPTER 16MM x 1.5 FEMALE TUBE ADAPTER 14MM x 1.5 FEMALE TUBE ADAPTER
A AC AD N/S C D E F G H HA I M J K	PRT5578-A PRT5578-AC PRT5578-AD PRT5578-B PRT5578-B-HS PRT5578-B PRT5578-C PRT5578-C PRT5578-C PRT5578-F PRT5578-F PRT5578-HA PRT5578-HA PRT5578-H PRT5578-J PRT5578-J PRT5578-K	PART DESCRIPTION 3.5" GAUGE W/QUICK COUPLER 3.5" GAUGE PROTECTOR 2.5" GAUGE PROTECTOR 2.5" GAUGE PROTECTOR 2.5" GAUGE W/QUICK COUPLER 7/16" x 20 ADAPTER HOSE GM/ CHRYSLER RED SEAL FOR "B" HOSE VALVE 308 x 32 ADAPTER HOSE FORD EFI GAUGE HOSE WITH RELIEF VALVE SINGLE END HOSE ADAPTER DOUBLE END HOSE ADAPTER DOUBLE END HOSE ADAPTER DOUBLE END HOSE ADAPTER DOUBLE END HOSE ADAPTER MMX 1.0 FEMALE CIS FITTING (LONG) 8MM x 1.0 MALE CIS FITTING 10MM x 1.0 FEMALE CIS FITTING 10MM x 1.0 FEMALE CIS FITTING 10MM x 1.0 FEMALE CIS FITTING 11MM x 1.0 FEMALE CIS FITTING 12MM x 1.5 FEMALE CIS SWITEL FITTING	M MCA MCA N O Q Q Q Q C R R R K S T U U U U U U U U	ORDERING PART# PRT5578-M PRT5578-MA PRT5578-MCA PRT5578-O PRT5578-O PRT5578-Q PRT5578-Q PRT5578-R PRT5578-R PRT5578-R PRT5578-R PRT5578-R PRT5578-T PRT5578-U PRT5578-U PRT5578-U PRT5578-U PRT5578-U PRT5578-U	PART DESCRIPTION 8MM × 1.0 MALE CIS FIITING 430 MALE QUICK DISCONNECT - MITS/CHRY 5/8" MALE QUICK DISCONNECT - MITS/BISHI 6MM × 1.0 BANJO FIITING 10MM × 1.0 BANJO FIITING 10MM × 1.0 BANJO FIITING 12MM × 1.5 BANJO FIITING 12MM × 1.5 BANJO FIITING 12MM × 1.5 BANJO FIITING 14MM × 1.5 BANJO FIITING 14MM × 1.5 FEMALE TUBE ADAPTER 16MM × 1.5 FEMALE TUBE ADAPTER 14MM × 1.5 FEMALE TUBE ADAPTER 14MM × 1.5 FEMALE TUBE ADAPTER 14MM × 1.5 MALE TUBE ADAPTER 14MM × 1.5 MALE TUBE ADAPTER 14MM × 1.5 MALE TUBE ADAPTER
A AC AD AE B N/S C D E F G H HA I I M J K KA	PRT5578-A PRT5578-AC PRT5578-AE PRT5578-B PRT5578-B-HS PRT5578-C PRT5578-C PRT5578-C PRT5578-C PRT5578-F PRT5578-F PRT5578-H PRT5578-H PRT5578-H PRT5578-M PRT5578-K PRT5578-K	PART DESCRIPTION     3.5" GAUGE W/QUICK COUPLER     3.5" GAUGE PROTECTOR     2.5" GAUGE PROTECTOR     2.5" GAUGE W/QUICK COUPLER     7/16" x 20 ADAPTER HOSE GM / CHRYSLER     RED SEAL FOR "B" HOSE VALVE     308 x 32 ADAPTER HOSE FORD EFI     GAUGE HOSE WITH RELIEF VALVE     SINGLE END HOSE ADAPTER     DOUBLE END HOSE ADAPTER 5/16" - 3/8"     CIS/TBI HOSE ASSY W/VALVE     8MM x 1.0 FEMALE CIS FITTING (LONG)     10MM x 1.0 FEMALE CIS FITTING (LONG)     INSTRUCTION MANUAL     10MM x 1.0 FEMALE CIS FITTING     12MM x 1.5 FEMALE CIS FITTING     14MM x 1.5 SWIVEL FITTING ALE & FEMALE	M MA N N Q QC R R R K S T U U U A U B U C V V	ORDERING PART# PRT5578-M PRT5578-MA PRT5578-N PRT5578-N PRT5578-N PRT5578-O PRT5578-Q PRT5578-Q PRT5578-RA PRT5578-RA PRT5578-RA PRT5578-RA PRT5578-S PRT5578-U PRT5578-U PRT5578-U PRT5578-U PRT5578-U PRT5578-V	PART DESCRIPTION 8MM x 1.0 MALE CIS FITTING 430 MALE QUICK DISCONNECT - MITS/CHRY 5/8° MALE QUICK DISCONNECT - MITS/DBISHI 6MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 12MM x 1.2 BANJO FITTING QUICK COUPLER FOR GAUGES 12MM x 1.5 BANJO FITTING 14MM x 1.5 BANJO FITTING REPAIR KIT (RUBBER SEALS/BRASS 5/8° x 18 UNION 16MM x 1.5 FEMALE TUBE ADAPTER 14MM x 1.5 MALE TUBE ADAPTER
A AC AD B N/S C D E F G H H HA I J J K KA KB	PRT5578-AC PRT5578-AC PRT5578-AE PRT5578-AE PRT5578-B-HS PRT5578-B-HS PRT5578-C PRT5578-C PRT5578-C PRT5578-F PRT5578-H PRT5578-H PRT5578-M PRT5578-M PRT5578-M PRT5578-M PRT5578-KA PRT5578-KA	PART DESCRIPTION      3.5" GAUGE W/QUICK COUPLER      3.5" GAUGE PROTECTOR      2.5" GAUGE PROTECTOR      2.5" GAUGE W/QUICK COUPLER      7/16" x 20 ADAPTER HOSE GM / CHRYSLER      RED SEAL FOR "B" HOSE VALVE      308 x 32 ADAPTER HOSE FORD EFI      GAUGE HOSE WITH RELIEF VALVE      SINGLE END HOSE ADAPTER      DOUBLE END HOSE ADAPTER 5/16" - 3/8"      CIS/TBI HOSE ASSY W/VALVE      BMM x 1.0 FEMALE CIS FITTING (LONG)      10MM x 1.0 FEMALE CIS FITTING      10MM x 1.0 FEMALE CIS FITTING      12MM x 1.5 FEMALE CIS FITTING      14MM x 1.5 SWIVEL FITTING MALE & FEMALE      16MM SWIVEL FITTING MALE & FEMALE	M MCA MCA N O Q Q Q Q C R R R K S T U U U U U U U U	ORDERING PART# PRT5578-M PRT5578-MA PRT5578-MCA PRT5578-N PRT5578-N PRT5578-Q PRT5578-Q PRT5578-Q PRT5578-RA PRT5578-RK PRT5578-RK PRT5578-U PRT5578-U PRT5578-U PRT5578-U PRT5578-W	PART DESCRIPTION 8MM x 1.0 MALE CIS FITTING 430 MALE QUICK DISCONNECT - MITS/CHRY 5/8" MALE QUICK DISCONNECT - MITS/UBISHI 6MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 12MM x 1.25 BANJO FITTING QUICK COUPLER FOR GAUGES 12MM x 1.5 BANJO FITTING 14MM x 1.5 BANJO FITTING REPAIR KIT (RUBBER SEALS/BRASS 5/8" x 18 UNION 16MM x 1.5 FEMALE TUBE ADAPTER 16MM x 1.5 FEMALE TUBE ADAPTER 14MM x 1.5 FEMALE TUBE ADAPTER 14MM x 1.5 MALE FITING 5/8" x 18 MALE FITING FORD SPRING LOCK HOSE
A AC AD B N/S C D E F G H H HA I J J K KA KB	PRT5578-A PRT5578-AC PRT5578-AE PRT5578-B PRT5578-B-HS PRT5578-C PRT5578-C PRT5578-C PRT5578-C PRT5578-F PRT5578-F PRT5578-H PRT5578-H PRT5578-H PRT5578-M PRT5578-K PRT5578-K	PART DESCRIPTION     3.5" GAUGE W/QUICK COUPLER     3.5" GAUGE PROTECTOR     2.5" GAUGE PROTECTOR     2.5" GAUGE W/QUICK COUPLER     7/16" x 20 ADAPTER HOSE GM / CHRYSLER     RED SEAL FOR "B" HOSE VALVE     308 x 32 ADAPTER HOSE FORD EFI     GAUGE HOSE WITH RELIEF VALVE     SINGLE END HOSE ADAPTER     DOUBLE END HOSE ADAPTER 5/16" - 3/8"     CIS/TBI HOSE ASSY W/VALVE     8MM x 1.0 FEMALE CIS FITTING (LONG)     10MM x 1.0 FEMALE CIS FITTING (LONG)     INSTRUCTION MANUAL     10MM x 1.0 FEMALE CIS FITTING     12MM x 1.5 FEMALE CIS FITTING     14MM x 1.5 SWIVEL FITTING ALE & FEMALE	M MA N N Q QC R R R K S T U U U A U B U C V V	ORDERING PART# PRT5578-M PRT5578-MA PRT5578-N PRT5578-N PRT5578-N PRT5578-O PRT5578-Q PRT5578-Q PRT5578-RA PRT5578-RA PRT5578-RA PRT5578-RA PRT5578-S PRT5578-U PRT5578-U PRT5578-U PRT5578-U PRT5578-U PRT5578-V	PART DESCRIPTION 8MM x 1.0 MALE CIS FITTING 430 MALE QUICK DISCONNECT - MITS/CHRY 5/8" MALE QUICK DISCONNECT - MITS/UBISHI 6MM x 1.0 BANJO FITTING 8MM x 1.0 BANJO FITTING 10MM x 1.0 BANJO FITTING 12MM x 1.2 BANJO FITTING 12MM x 1.5 BANJO FITTING QUICK COUPLER FOR GAUGES 12MM x 1.5 BANJO FITTING REPAIR KIT (RUBBER SEALS/BRASS 5/8" x 18 UNION 16MM x 1.5 FEMALE TUBE ADAPTER 14MM x 1.5 MALE TUBE ADAPTER