



Quality Manufacturing Since 1978

Ranchy Sweet









Sweet Manufacturing was built on the knowledge and performance of Randy Sweet's over 50 years of racing. Randy has driven and won in multiple different divisions and cars that range from Super Modified to Sprint Cars and many more.

One of Randy's greatest accomplishments came in 1984 when he built a 2200 lb stock car that featured many of his early products and innovations. The "Rocket" car broke track records all over the country and continues to hold several. The "Rocket" car can now be seen on display in Speedy Bill's Museum of Speed in Lincoln, Nebraska

Randy's winning background and experience is what allows all of us at Sweet Manufacturing to proudly say that our products are built from experience and proven by performance.









Integrated Rack and Pinion

PART NO.

RACK PREFIX 005-93345-235 005- 93 3 4 5 -.235

1 = MANUAL

4 = DUAL POWER

RACK SPEED (1) CENTER DISTANCE (2) POWER ASSIST (3) RACK ENDS (4)

3 = 18-1/4" 5 = XL DUAL POWER 50 = 2-1/4" 60 = 2-1/2" 5 = SPECIAL ORDER SERVO (5) 6 = 19-1/4" 80 = 3" 7 = 19-3/4" 90 = 3-1/4" .185 - XX LÌGHT 91 = 3-1/2" 8 = 18/19 - 1/4" .200 - X LIGHT 92 = 3-3/4" .210 - LIGHT 93 = 4" .220 - LIGHT 94 = 4-1/4" .235 - MED. LIGHT 95 = 4-1/2" .250 - MEDIUM .265 - MEDIUM HEAVY

1 = 16-1/2"

2 = 17-1/4"

30 = 17/8"

40 = 2"

2 = ON CENTER (5/8"-18 THREADED STUD)
3 = ROD END EYE (5/8"-18 THREADED HOLE)
4 = ON CENTER ROD END EYE
5 = STD. SLOTTED EYE

6 = UPSIDE DOWN SLOTTED EYE 7 = DUAL HOLE ROD END EYE (ROCKET)

8 = R/H ON CENTER ROD END - L/H ROD END EYE 11 = R/H SLOTTED DOWN - L/H SLOTTED UP

Integrated Rack and Pinions are available in 11 different ratios with several different rack ends, center distances, and servos. Sweet Manufacturing has been providing the smoothest and most reliable rack and pinions in the racing industry for 30 plus years. Randy Sweet was the first to provide the racer with a rack that could endure the loads at race tracks such as Winchester (IN) and Eldora (OH). Every Rack and Pinion is produced and assembled entirely in Kalamazoo, MI by the professionals at Sweet Manufacturing.

.275 - HEAVY .300 - STIFF









PART NUMBER

310-40 1 30 -235

(1) (2) (3) (4) (5)

BOX TYPE(1) OUTPUT SHAFT(2) GEAR TYPE(3) INPUT HEIGHT(4) VALVE(5)

30=14" 1=DIRT 306=HALF BOX 10=SHORT .220 = LIGHT40=16" 307=FULL BOX 2=ASPHALT 30= MEDIUM .225 = LIGHT/MED 310 L/W HALF BOX (BLACK) 50=18" 50=LONG .235 = MED/LIGHT318=L/W FULL BOX (BLACK) .250 = MEDIUM.275 = HEAVY

Sweet Manufacturing started with a clean sheet of paper and designed the lightest and most durable Sprint Gear on the market. Made from a compact 4140 Chro-Moly housing and 7075 billet side bells, with gundrilled pitman shafts that are made from the finest of material. All of this make the gear weigh a mere 24 pounds and with the lightweight upgrade it is taken down to a industry low of 22 pounds.







Sprint Combination Assembly





306-20300 - Sprint Car Combination Assembly w/ 300 Gear 306-20400 - Sprint Car Combination Assembly w/ 400 Gear 306-20500 - Sprint Car Combination Assembly w/ 500 Gear

These assemblies include everything that is needed to mount both the fuel and Power Steering pump in the smallest and lightest design on the market. Unlike other combination assemblies our design of Power Steering Pump will not "stall" in the corners or pits and maintains consistent flow regardless of fluid temp or RPM. The newly designed fuel pump doesn't require a clamp and is nearly two inches shorter than current models.

308-20200 - 300 Gear Sprint Fuel Pump 308-20400 - 400 Gear Sprint Fuel Pump 308-20500 - 500 Gear Sprint Fuel Pump



305-85835 - Sweet Aluminum Rear Drive Pump



301-61004 - Heat resistant Phenolic spacer



301-61002 - Adapter Plate for Sweet Combination Pump



Using the knowledge of Brian Allegreso and Randy Sweet, Sweet Mfg produced a Rack and Pinion that has the ability to clamp to a solid front axle and eliminate the sometimes bulky and heavy steering system that is associated with Midgets and Asphalt Sprints. The center distance is 14" and many different size Rod Ends can be used.

Sweet Mini Rack

The Mini Rack and Pinion has three different ratios, from 2-3/4" of travel per Pinion revolution to 5-1/4" of travel per Pinion revolution.

The center distance is 11-3/8" and the rack is mounted with 3/8" bolts.

033-27114 - 2-3/4" Mini Rack and Pinion 033-47114 - 4-1/4" Mini Rack and Pinion 033-52114 - 5-1/4" Mini Rack and Pinion









Rack and Pinion Components

Rack Shafts

001-21011 - 16-7/16" Rack Shaft

001-21012 - 14-1/16" Rack Shaft

001-21013 - 14-5/8" Rack Shaft

001-21014 - 15-7/8" Rack Shaft

001-21017 - 16-7/8" Rack Shaft

001-21018 - 17-7/16" Rack Shaft

001-51012 - 15-7/8" Angle Cut Rack Shaft



001-21170

001-21502

Rebuild Kits & Parts

001-21501 - Rebuild Kit for 2-1/4" Rack

001-21502 - Rebuild Kit for 2" Rack

001-21503 - Rebuild Kit for 2-1/2" Rack

001-21507 - Rebuild Kit for 3" Rack

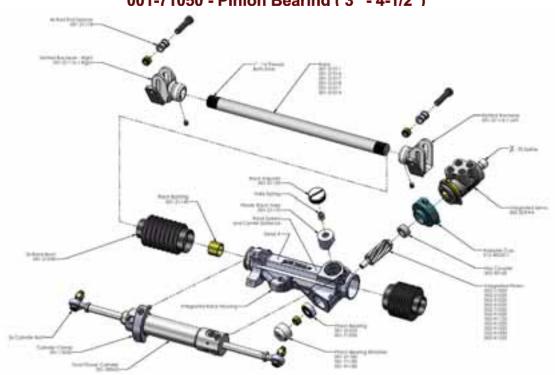
001-21509 - Rebuild Kit for 3-1/4" Rack

001-21040 - Rack Boot

001-21170 - Yoke and Spring

001-21050 - Pinion Bearing (1-7/8", 2", 2-1/2")

001-71050 - Pinion Bearing (3" - 4-1/2")





Power Steering Tanks

301-30050 5" Tank and Bracket

301-30051 5" Tank Only

301-30071 7" Tank and Bracket

301-30072 7" Tank only

301-30077 5" Pressurized Tank only

301-30078 7" Pressurized Tank and Bracket

301-30079 7" Pressurized Tank only

301-30094 Standard Tank Cap

301-30099 Pressurized Tank Cap





The Power Steering Tank is a very important but often overlooked part of a proper Power Steering System. Always be sure to mount your tank as close to the pump as possible and above the feed fitting. The pressurized tank uses pressurized air to force the fluid to the pump. preventing starvation and cavitation.

Tank Brackets

301-30052



301-30052 Steel Clamp On Bracket 301-30053 Steel Bolt on Bracket 301-30088 1-3/4" Aluminum Clamp On Bracket 301-30089 1-1/2" Aluminum Clamp On Bracket





Power Steering Coolers

301-30420 Single Cooler Kit 301-30430 Dual Cooler Kit

> Everything works well until it gets hot, Power Steering isn't any different. These coolers are designed specifically for the demands of racing and will significantly decrease the temperature of your fluid.

Power Assist Cylinders

301-30061 Std. Cylinder (16-1/2" eye to eye) 12" stroke 301-30062 Mini Cylinder (11-1/4" eye to eye) 7" stroke

301-30063 Dual Power Cylinder (1-1/4" Bore)

302-32063 Dual Power Cylinder (1-3/8" Bore)

302-33063 Dual Power Cylinder (1-1/2" Bore)







Pump Brackets and Components

Oil Pump Adapters



325-30040 Oil pump to Sweet Aluminum Rear Drive Pump (Does Not Fit Peterson R-4)

325-30055 Peterson R-4 to Sweet Aluminum Rear Drive Pump

325-30057 Oil Pump to Power Steering Pump Adapter

325-30058 Stock Car Products Oil Pump Adapter 325-30059 Phenolic Spacer

325-30060 3/8-24 Threaded Female Hex

Power Steering Pump Brackets



325-30030

325-30030 Small Block Chevy Head Mount 325-30031 Big Block Chevy Head Mount 325-30034 Small Block Chevy Block Mount 325-30041 Bert / Brinn Bell Housing Mount 325-30035 Replacement T-Nut 325-30036 Bracket to Head Bolt Kit 325-30037 Pump to Bracket Bolt Kit 325-30039 Bracket to Block Bolt Kit



Rear Mount Pump Brackets & Hardware



301-30022

501-30022-1 Left Hand Quick Change Mount Kit 501-30022 Right Hand Quick Change Mount Kit 501-30023 Right Hand Cast Bracket 501-30028 Left Hand Cast Bracket 501-30026 Quick Change Mount Bolt Kit

501-30027 10-Spline Quick Change Yoke and Pulley 501-30037 32-Spline Quick Change Yoke and Pulley

501-30046 9" Ford Yoke and Pulley



301-30046









Head Mount Combination Assembly



Complete Assembly Part #305-85890 includes each of the following:

305-85900 - Combination Pump for Head Mount

Sweet Mfg Power Steering Pump with a Randy Sweet designed Waterman Fuel Pump. The Power Steering Pump comes with a 33 tooth HTD Pulley and features a unique Banjo style feed fitting to help make plumbing easy. The fuel pump can be used with both alcohol and gasoline.



301-30610 - Head Mount for Combination Pump

This Aluminum bracket is specifically designed to be mounted with the Combination Pump to the right side head on a small block Chevy.



301-30048 - 800mm HTD Belt

Uses 800mm long, 20mm wide HTD to connect to the mandrel that drives your Combination Pump



308-10300 - Dual Adjustable Fuel Regulator

A dual adjustable two port fuel regulator from the leader in fuel regulators. The unique design allows you to adjust both idle pressure and high speed pressure for better throttle response. This regulator doesn't require any jets, pills or barrel valves.





PUMP KITS



305-60345 Aluminum Pump, 5" Tank and Mount with SBC Head Mount 305-60349 Aluminum Pump, 5" Tank and Mount with SBC Block Mount 305-70345 Steel Pump, 5" Tank and Mount with SBC Head Mount 305-70349 Steel Pump, 5" Tank and Mount with SBC Block Mount 305-80845 Sweet Aluminum Pump, 5" Tank and Mount with SBC Head Mount 305-80849 Sweet Aluminum Pump, 5" Tank and Mount with SBC Block Mount

Sweet Mfg Power Steering & Mechanical Fuel Pump Assembly

Assembly requires:

305-85839 Sweet Aluminum Pump w/ HTD 33 Tooth Pulley 308-10100 SBC Mechanical Fuel Pump Drive w/ Clamp 325-30044 Bellhousing Pump Mount 325-30059 Phoenolic Spacer



Power Steering Pump w/ Fuel Pump Adapter

305-85834 Sweet Aluminum 1700 PSI Pump w/ Fuel Drive 325-30042 Fuel Pump Adapter w/ Bolts 325-30043 Heat resitant Phenolic Spacer



Power Steering Fluid

301-30090 Quart of Sweet Mfg. fluid

301-30091 Case (12 quarts) Sweet Mfg. fluid

301-30182 Quart of Sweet Gold fluid

301-30183 Case (12 quarts) Sweet Gold fluid

Sweet Manufacturing now offers two types of Power Steering Fluid. Sweet Mfg. fluid is suitable for most conditions and has been used for many years, however when the steering is under extreme load the use of our new Sweet Gold Fluid is required.

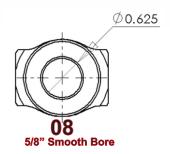


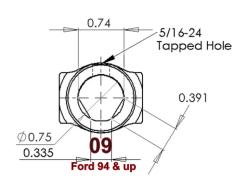
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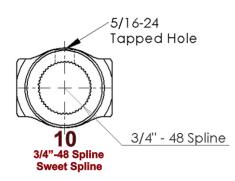


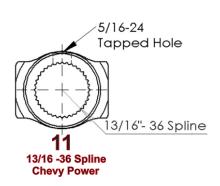


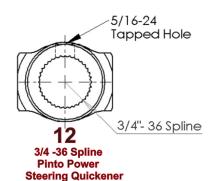






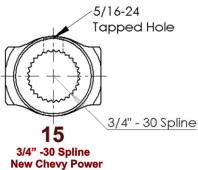


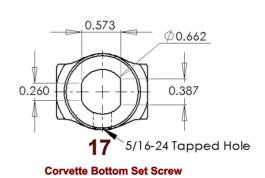


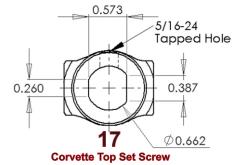














Splined Couplers



301-30100 Sweet Pline 3/4"-48

301-30110 Chevy Power 13/16-36 Spline

301-30120 Chevy Manual / Steering Quickner 3/4"-36 Spline

301-30130 Pinto Manual 9/16-26 Spline

301-30140 Vega 5/8-36 Spline (.600 Major Dia.)

301-30141 Mini Sprint 5/8-36 Spline

301-30150 Sweet Int. Rack / New Chevy Power 3/4"-30 Spline

301-30160 Sweet Adj. Steering Coulumn 3/4"-20 Spline



901-50009

Steering Shaft Supports



405-50003 3/4" Firewall Flange Bearing

901-50009 3/4" Oversized Rod End w/ Jam Nuts

405-10369 1-1/8" Alum. Support Bearing

405-10373 1-1/8" Alum. Pinch Collars (Pair)





006-52175 24" DD Steering Shaft (3/4")

006-52177 36" DD Steering Shaft (3/4") 3/4" -48 Spline

405-50367 36" 3/4" D.O.M. w/ 3/4-48 Spline

405-50369 36" 3/4" D.O.M. w/ 3/4-48 Spline both ends

405-10429 31" 1-1/8" .065 w/ 1"-48 Spline both ends

405-10427 29" 1-1/8" .065 w/ 1"-48 Spline both ends

Custom steering shafts can be made to any length

405-10100 Lower Adjustable Steering Shaft

Mounting Brackets

405-10210 4-3/8" Dash Bracket 405-10215 6-3/8" Dash Bracket 405-10220 9-3/8" Dash Bracket

405-10230 1-3/4" to 1-1/2" reducers

405-10240 3/4" Mono Ball Steering Shaft Collar

405-10243 1-1/8" Mono Ball Steering Shaft Collar







Lightweight Adjustable Steering Columns



405-10310 Std. Adj. Column 405-10315 GRT Adj. Coulumn 405-10316 Shaw / Swartz Adj. Column 405-10317 Rocket Adj. Column 405-10325 Rayburn Adj. Column



Lightweight Adjustable Steering Columns come complete with an aluminum Quick Release and are available with either 1-1/8" Rod End Mounting or Monoball style. These columns are assembled and welded in Kalamazoo, MI using the best materials available.

405-10331 Std Adj. Column w/ Monoball Mount 405-10314 Shaw / Swartz Column w/ Monoball Mount 405-10326 Rayburn Column w/ Monoball Mount

Monoball Mounted Columns must use Dash Mounting Brackets

405-70035 Replacement Quick Release



801-70035



Steering Wheels

Sweet Manufacturing has been producing American made racing Steering Wheels for over 20 years. Our Steering wheels are made from 6061 Aluminum and feature a soft rubber grip. The wheels are offered in standard size (7/8" dia.) and large grip (1-1/16" dia). Both grip sizes are also offer in Flat and Dished centers, and also available without coating.

Standard Grip

601-70131	13" Flat Steering Wheel
601-70132	13" Dished Steering Wheel
601-70151	15" Flat Steering Wheel
601-70152	15 Dished Steering Wheel
601-70161	16" Flat Steering Wheel
601-70162	16" Dished Steering Wheel
601-70171	17" Flat Steering Wheel
601-70172	17" Dished Steering Wheel
611-70131	13" Flat Uncoated
611-70132	13" Dished Uncoated
611-70151	15" Flat Uncoated
	15" Dished Uncoated
-	17" Flat Uncoated
611-70172	17" Dished Uncoated

Large Grip

601-60151	15" Large Grip Flat
	<u> </u>
	15" Large Grip Dished
601-80161	16" Large Grip Flat
601-80162	16" Large Grip Dished
601-80171	17" Large Grip Flat
601-80172	17" Large Grip Dished
611-80151	15" Flat Uncoated Large Grip
611-80152	15" Dished Uncoated Large Grip





Billet Pitman Arms

Offset Pitman Arms

Straight Pitman Ams

201-28000- 0 Degree 201-28105- .5 Degree Left 201-28110- 1.0 Degree Left 201-28115- 1.5 Degree Left 201-28120- 2.0 Degree Left 201-28125- 2.5 Degree Left 201-28130- 3.0 Degree Left 201-28135- 3.5 Degree Left 201-28205- .5 Degree Right 201-28210- 1.0 Degree Right 201-28215- 1.5 Degree Right 201-28220- 2.0 Degree Right 201-28225- 2.5 Degree Right 201-28230- 3.0 Degree Right 201-28230- 3.5 Degree Right

201-28011 - 7/8" Nut 201-28013 - 7/8" Lock Washer 201-29000- 0 Degree 201-29105- .5 Degree Left 201-29110- 1.0 Degree Left 201-29115- 1.5 Degree Left 201-29120- 2.0 Degree Left 201-29125- 2.5 Degree Left 201-29130- 3.0 Degree Left 201-29135- 3.5 Degree Left 201-29205- .5 Degree Right 201-29210- 1.0 Degree Right 201-29215- 1.5 Degree Right 201-29220- 2.0 Degree Right 201-29225- 2.5 Degree Right 201-29230- 3.0 Degree Right 201-29235- 3.5 Degree Right



STEERING BOX FITTINGS

201-28001 - 14mm x 1.5 w/ O-Ring Fitting 201-28002 - 16mm x 1.5 w/ O-Ring Fitting 201-28003 - 5/8"-18 Flare Fitting (Pre 1978) 201-28004 - 11/16"-18 Flare Fitting (Pre 1978)

Steering Box Seal Kits

201-28020 - Steering Box Seal Kit (700 Series) 201-28016 - Pitman Shaft Seal Kit (Old Style) 201-28017 - Pitman Shaft Seal Kit (New Style)





Miscellaneous



301-30080 - Rack and Pinion Hose Kit

301-30081 - Steering Box Hose Kit

301-30082 - Rear Mount Hose Kit

301-30083 - Int. Rack w/ PTO Pump Hose Kit

301-30084 - Int. Rack w/ Standard Mount Hose Kit

302-32100 - Int. Rack Hose Kit



Aluminum Brake Brackets clamp to a 3" Axle Tube and have bolts that are threaded into the tube to ensure strength.

501-60008 Standard Aluminum Brake w/ Caliper Bracket 501-60009 Dirt 1" Wide Aluminum Brake Bracket w/ Caliper Bracket





901-10151 - Air Cleaner Knob 901-10150 - 4130 Chro-Moly Air Cleaner Stud (5/16-18)



Cast from 100% virgin aluminum and fitted with an o-ring.









Fabricated

Spindles

The combination of spindles is nearly endless, here are a few of our most popular and if you don't see what you are looking for please call.

701-120-123



Spindle Prefix

701

Spindle Number

120

157

8 East Coast Mod. 101 8 **Sweet EC Mod** 105 12 Ford 107 **East Cost Mod** 115 8 **Dirt Late Model** 118 10 Figure 8 119 10 Ford 120 10 Chevy 121 **Pinto** 122 5 Ford 141 5 148 Chevy 7 Ford 150

Chevy

Pin Style

1

1 = Wide 5 2= 5x5

4= GM Impala

Brake Bracket

2

0 = East Coast

1 = GM

2 = Superlite (11-3/4 Rotor)

3 = Dynalite

5 = Superlite (12-3/16 Rotor)

6 = No Brake

Left or Right

3

1 = Left 2 = Right

3 = Left adj.

4 = Right adj.





Wing Valve This revolutionary new wing valve gets its power directly from the powering steering pump, this provides maximum pressure to the wing cylinder.

Use -06 Aeroquip Teflon racing hose from the pump to the wing valve maximum operating pressure of 2,500 psi Use -03 Aeroquip Teflon racing hose from wing valve to wing cylinder maximum operating pressure of 3,000 psi Do not use a T from the pump to the wing valve

Wing valve travel 3 per second. **DO NOT BUMP HANDLE FOR MORE THAN 1/2 SECOND, HOLDING THE HANDLE WILL LEAD TO FAILURE, IF YOU GET GREEDY YOU WILL BE NEEDY!!!**

Wing Cylinder This cylinder was specifically designed for sprint car wing adjustment with maximum pressure of 1,700 psi. It features a 8 1/2,10, or 12 stroke and is made in the U.S.A. with the finest materials

Check your wing travel and adjust cylinder stroke w/ locking collar. **DO NOT OVER EXTEND TRAVEL, THIS WILL LEAD TO FAILURE**

Current wing cylinders are an air cylinder designed for very low pressure. **DO NOT INTERCHANGE SWEET MFG. WING CYLINDER WITH CURRENT WING CYLINDER, THIS WILL LEAD TO FAILURE.**

DO NOT USE CURRENT WING CYLINDER W/SWEET MFG. WING VALVE, THIS WILL LEAD TO FAILURE.

