



## Rack & Pinion Specification Sheet

	<b>FR1501 Drag Racing Gear</b>	<b>FR1502 Street Rod Gear</b>	<b>FR1503 5.0L Mustang</b>	<b>FR1507-1 Omni R/P</b>	<b>FR1520</b>	<b>FR40001</b>	<b>FR40002</b>
OEM Design Style	'71-'72 Ford Pinto	'74-'78 Ford Mustang	'79-'93 Ford Mustang	'78-'83	79-93 Qk Mustang	74-78 Pwr Mustang	79-93 Pwr Mustang
Steering Design	Front Steer	Front Steer	Front Steer	Rear Steer	Front Steer	Front Steer	Front Steer
Housing Material	Die Cast Aluminum	Die Cast Aluminum	Die Cast Aluminum	Die Cast Aluminum	Die Cast Aluminum	Die Cast Aluminum	Die Cast Aluminum
Tube Material	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	1026 Dom Steel Tubing	1026 Dom Steel Tubing
Tube Plating	Chrome	Chrome	Chrome	Chrome	Chrome	Powder Coated	Powder Coated
No. Turns Lock-to-Lock	375	392	398	400	332	27	27
Total Rack Travel	5.25"	5.34"	5.75"	5.00"	55	6.00"	6.00"
Overall Length (end-to-end)	45-1/2"	45"	45"	39.68"	45"	45"	45"
Housing Length	18-1/2"	20-7/8"	20-3/8"	18"	20-3/8"	19.5"	19.5"
Housing O.D.	1.940"	2.100" (both ends)	2.100" (both ends)	1 350	2.1 Both Ends	2.15 (1.98 @bellow clamp)	2.15 (1.98 @bellow clamp)
Tube O.D. (passenger side)	1.350"	--	--	--		2.02(after powder coating)	2.02(after powder coating)
Input Shaft Angle	72°	72°	72°	72°	72°	18°	18°
Input Shaft Spline Size	26 spline	26 spline	26 spline	26 spline	9/16-26	FR Pyramid	FR Pyramid
Input Shaft Length	4.07"	6.44"	7.44"	6.50"	656	2.5-2.63 From Top of Valve Housing	2.5-2.63 From Top of Valve Housing
Inner Socket Assy (ISA) Center-to-Center Distance	24.29"	24.50"	24.50"	23.77"	24.50"	2 425	2 425
ISA Rod Diameter	14mm (.551")	14mm (.551")	14mm (.551")	14mm (.551")	551	551	551
ISA Thread Size	1/2-20 x 2"	9/16-18 x 2-1/2"	9/16-18 x 2-1/2"	9/16-18	9/16-18	9/16-26	9/16-26
Driver Side Mount	Foot (2 bolts req'd)	Spike (bushing req'd)	Spike (bushing req'd)	Foot (2 bolts req'd)	Spike (Bushing Req)	Spike (Bushing Req)	Spike (Bushing Req)
Passenger Side Mount	Strap	Spike (bushing req'd)	Spike (bushing req'd)	Clamp	Spike (Bushing Req)	Spike (Bushing Req)	Spike (Bushing Req)
Spike Mount Center-to- Center Distance	--	16.00"	15.50"	--	15.50"	16.00"	15.50"
Bellows Material	Rubber	Nitrile Rubber	Nitrile Rubber	Nitrile Rubber	Nitrile Rubber	TPV	TPV
Bellows Part No.	FR1501B (pair)	FR1502B (pair)	FR1502B (pair)	FR1502B (pair)	FR1502B	100163	100163
Weight	12 lbs.	14 lbs.	12 lbs.	12 lbs.	12 lbs.		
Bushing Part No.	N/A	FR1600 (2 req'd)	FR1600 (2 req'd)	N/A	FR1600 (2 Req.)	FR1600 (2 Req.)	FR1600 (2 Req.)
Outer End Part No.	N/A	FR1601 (2 req'd)	FR1603 (2 req'd)	FR1601 (2 req'd)	FR1603 (2 Req.)	FR1601 (2 Req.)	FR1601 (2 Req.)

### TORQUE SPEC. RACK AND PINION

Manual racks, after 3 complete turning cycles, the torque should be 15 - 20 inch-pounds to move the pinion shaft. After the vehicle travels 500 to 600 miles the rack takes a setting and the torque should be 10 -15 inch-pounds on the pinion.

Learn more about steering parts on our website.