



**Detroit Speed, Inc.
Detroit Tuned Steering Rack
Various Applications
P/N: 090220 and 090221**



Detroit Speed's new rack and pinions have been optimized to provide an exceptional modern performance feel on the street and on the track and are available in both standard and narrow widths. The standard width is 24.5" and the narrow width is 21.5" (inner tie rod ball to ball width). This is one of the only racks with a 21.5" width in the aftermarket industry!

The Detroit Tuned Steering Rack features:

- 'Detroit Tuned' valving specifically designed to provide the increased effort and performance feel found in late model performance vehicles.
- All new components.
- Every rack undergoes a rigorous quality check and is performance tested prior to being packaged.
- Included polyurethane mounting bushings.
- An internal inner tie rod boot balance tube.

Fastener Torque Specifications - Detroit Tuned Steering Rack	
Application	Torque (lb-ft)
Rack and Pinion Mounting Bolts	95

DSE Steering Rack Specifications		
	Standard	Narrow
Inner Tie Rod Ball to Ball Width	24.5"	21.5"
Overall Width	45"	42"
Linear Rack Travel	5.5"	4.5"
Number of Turns Lock to Lock	2.5	2.5
Mounting Bolt Span	15.5"	13.5"
Mounting Bolt Size	9/16"	
Outer Tie Rod Thread Length	6"	
Outer Tie Rod Thread Size	9/16"-18	
Input Shaft	3/4"-36	
Recommended Pump Flow Rate	3 gal/min	
Maximum Peak System Pressure	1800 psi	
High Pressure Fitting Thread	9/16"-18	
Low Pressure Fitting Thread	5/8"-18	

Rack Assembly:

1. Thread the outer tie rod ends onto the rack and pinion.
2. When installing the tie rod ends, make sure they are equal distance on each side to center the steering. To verify, measure from the end of the threads to the edge of the jam nut. This measurement should be approximately 3/4" per side.
3. Install the grease fittings into the tie rod ends.
4. After the rack is installed into the vehicle, attach the power steering hoses to the steering gear. Follow *Figure 1* for the location of the pressure and return ports.

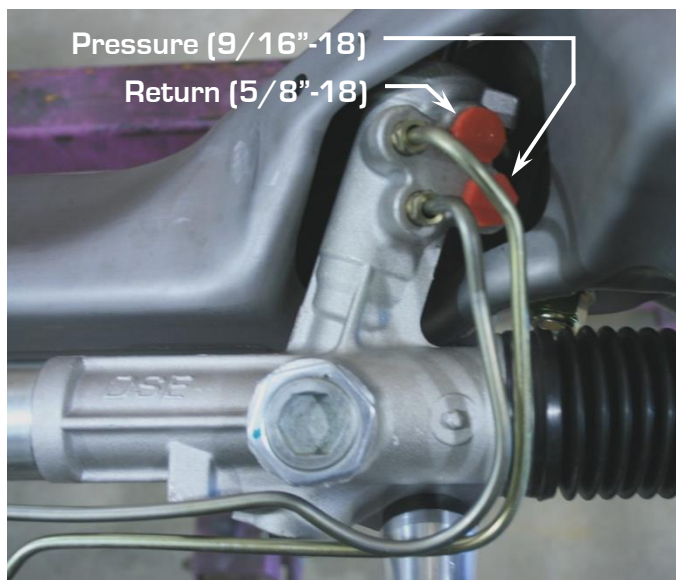


Figure 1 – Pressure and Return Port Locations

If you have any questions, please contact Detroit Speed, Inc. at (704) 662-3272.