



# Power Steering

## CHRYSLER CORP. POWER RACK & PINION (Cont.)

**Installation** — To install, reverse removal procedure. Hold stub shaft to firmly seat and torque lock nut.

**Valve Pinion Removal** — 1) Turn stub shaft until rack extends equal distance from both sides of housing. Mark location of stub shaft flat on housing and press on threaded end of pinion to remove valve and pinion assembly. Carefully remove rings from valve body if replacement is necessary.

2) If ball bearing assembly (lower) requires replacement, remove retaining ring and tap out bearing with drift or punch. Use suitable socket to press on outer race of new bearing assembly, being careful not to cock bearing when installing in housing. Install retaining ring with large lug to right (counter-clockwise) side of gap.

3) Remove upper pinion bearing and seal with  $\frac{1}{4}$ " punch. Install new bushing, then seat seal in housing with lip facing inward using seal installer.

**Installation** — Carefully place new rings on valve body assuring that they are not cut. With rack centered in housing, install valve and pinion assembly so that shaft flat and mark on housing line up when assembly is seated. Torque pinion lock nut and install dust cover.

**Gear Housing and Rack Disassembly** — 1) Use punch in access hole of housing and remove retaining ring. Remove fluid lines and finger tighten plugs in line holes of cylinder.

2) Remove adjuster plug and lock nut, spring and rack bearing. Turn pinion shaft to move rack to right, forcing bulkhead out of housing. Remove rack from housing, remove and dispose of piston ring. Pry seal from housing with screw driver.

**Reassembly** — 1) Install new piston ring on right (smooth) side of rack with care so as not to cut ring. Wrap card stock around rack teeth and slide seal, lip facing inward, onto stock. Slide stock and seal over rack teeth and bottom seal on rack piston.

2) Coat all parts with power steering fluid and place bullet seal protector over end of rack. Slide rack and seal in housing tapping with rubber mallet to seat seal.

3) Install in order: cylinder inner bulkhead, spring (wave) washer, bulkhead rack seal, "O" ring seal, cylinder outer bulkhead, bulkhead retaining ring and shock dampener. Retaining ring must be fully seated with end approximately  $\frac{1}{2}$ " from access hole.

4) Coat adjuster plug with lithium base grease and install rack bearing, spring, adjuster plug and lock nut. Tighten adjuster plug until it bottoms, then back off  $40^\circ$  -  $60^\circ$ . Check torque on pinion and tighten lock nut while holding adjuster plug stationary.

5) Install fluid lines using new "O" rings. Finger tighten both ends of lines prior to tightening to final torque. Install grommets and breather tube in proper location; install tie rods and boot seals.

### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Tie Rod End-to-Steering Arm .....	25
Tie Rod Jam Nuts .....	50
Adjuster Plug Lock Nut .....	26
Stub Shaft Lock Nut .....	50
Fluid Line Fittings .....	18
Mounting Bolts .....	250 INCH lbs.