

# Manual Steering Gears

## CHRYSLER CORP. RACK & PINION

Dodge  
Omni  
Plymouth  
Horizon

### DESCRIPTION

Rack and pinion type gear is mounted on front frame crossmember behind drive axle. Rotary turning motion of the steering and pinion shaft is converted to transverse movement of the rack. Tie rods and tie rod ends transmit this movement to steering arms and wheels while at the same time accomodating suspension movement. Four complete turns are required for lock-to-lock travel. Gear is permanently factory lubricated and cannot be adjusted. Service is limited to replacement of outer tie rod ends or the bellows type oil seal boots. Complete replacement is required in event of malfunction.

### REMOVAL & INSTALLATION

#### OUTER TIE ROD

Remove cotter key and loosen attaching nut and jamb nut. Remove castellated nut and using suitable puller (C-3498-A), disconnect tie rod end from steering arm. Remove outer tie rod by unscrewing from inner rod. To install, reverse removal procedure and tighten castellated nut as specified. Adjust toe in by turning inner tie rod, tighten jam nut and cotter key castellated nut.

#### BOOT SEAL

With tie rod end removed, remove jamb nut from inner rod. Use pliers to expand outer boot clamp and remove. Cut inner

boot clamp with side cutters and discard. Remove boot. Install boot seal over lip of housing and replace inner and outer clamps.

### STEERING GEAR

Disconnect tie rod ends from steering arms. Drive lower roll pin out of pinion shaft universal joint. Remove bolts attaching gear to crossmember and remove gear. To install, reverse above procedure and tighten as specified.

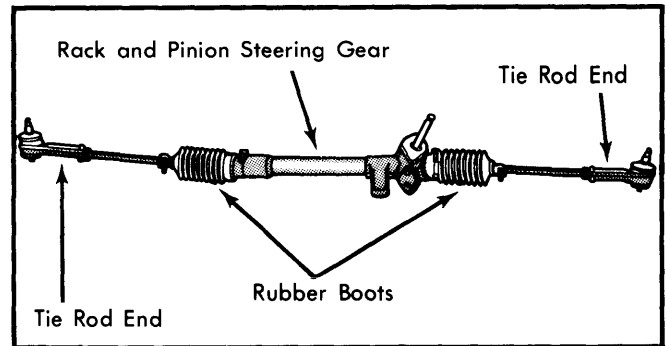


Fig. 1 Manual Rack & Pinion Steering Assembly

### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Tie Rod Ends .....	25
Tie Rod Jam Nuts .....	50
Mounting Bolts .....	250 INCH lbs.