

GENERAL MOTORS (Cont.)

"K" Models

Steering Connecting Rod — 1) Remove cotter pins from ball studs and remove castellated nuts. Remove ball studs from steering arm and pitman arm boss with a heavy hammer and striking other side of boss with a lighter hammer.

2) To install, reverse removal procedure and note following: Ensure that threads on studs and nuts are clean and smooth. Check ball stud seals and replace if necessary. Install connecting rod on steering components, torque nuts and install new cotter pins. See illustration for proper alignment and orientation of connecting rod clamps.

INTERNATIONAL HARVESTER

All Models

Tie Rod Removal — Remove cotter pins from ball studs at each end of tie rod. Remove nuts. Separate tie rod end ball studs from steering arms. To install, reverse removal procedure. Install new cotter pins.

Tie Rod End Replacement — Loosen tie rod end clamp bolts. Unscrew tie rod end from tie rod. To install, reverse removal procedure. Make sure tie rod end is threaded into tie rod sufficiently so that clamping action will be directly over threads. Position clamp on tie rod as shown in illustration (see Fig. 2).

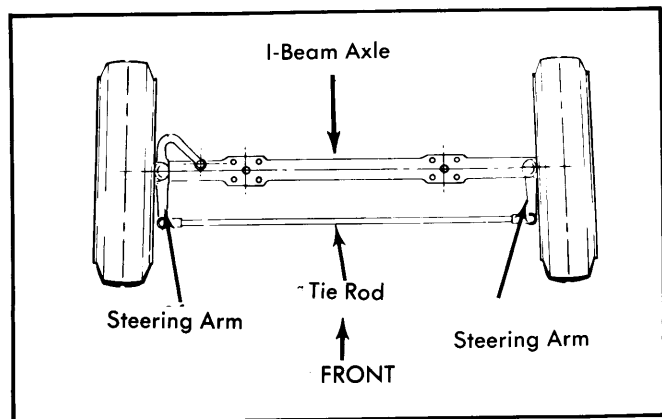


Fig. 1 Steering Linkage for MS and MHC Models

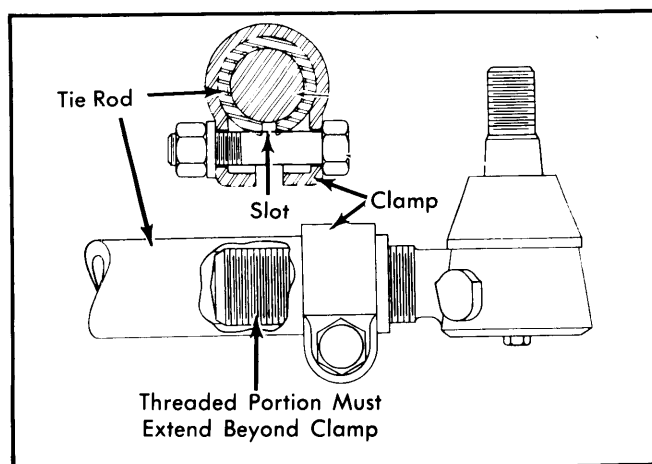


Fig. 2 Positioning Clamps on Tie Rod

JEEP

All Models

Tie Rod Replacement — Remove cotter pins and retaining nuts at both ends of tie rod and from end of connecting rod where it attaches to tie rod. Disconnect steering damper push rod at tie rod bracket. Remove tie rod ends from steering arms and connecting rod using a puller or expansion fork. To install, attach tie rod ends to steering arms. Tighten nuts and install new cotter pins. Attach connecting rod, tighten nuts, and install new cotter pin. Attach steering damper. Check and adjust toe-in as necessary.

Steering Damper Replacement — With front wheels in straight-ahead position, remove lock nut securing damper to bracket on tie plate, then lift damper off stud. Remove lock nut securing push rod end to tie rod bracket and remove damper assembly. To install, install rubber bushings in damper eyelets, then secure eyelet at push rod end to stud on tie rod bracket with attaching hardware. Extend push rod by pulling back on damper body until eyelet can be located on, and secured to, stud on damper bracket. Tighten all lock nuts.

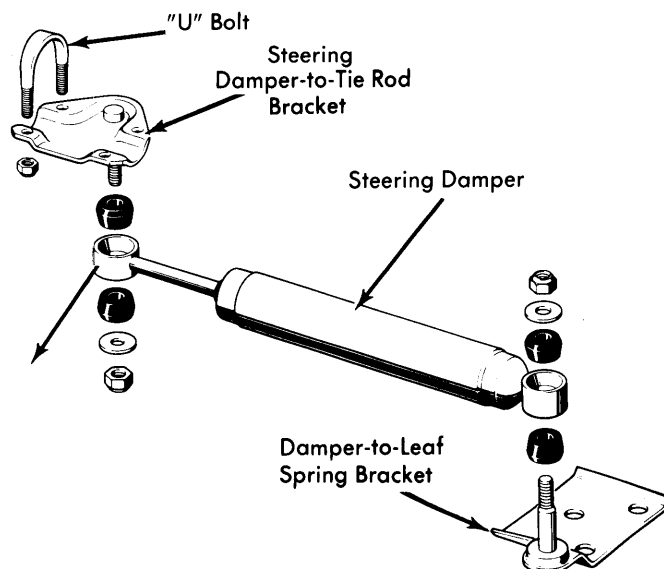


Fig. 1 Positioning of Steering Damper Bushings

Steering Linkage

JEEP (Cont.)

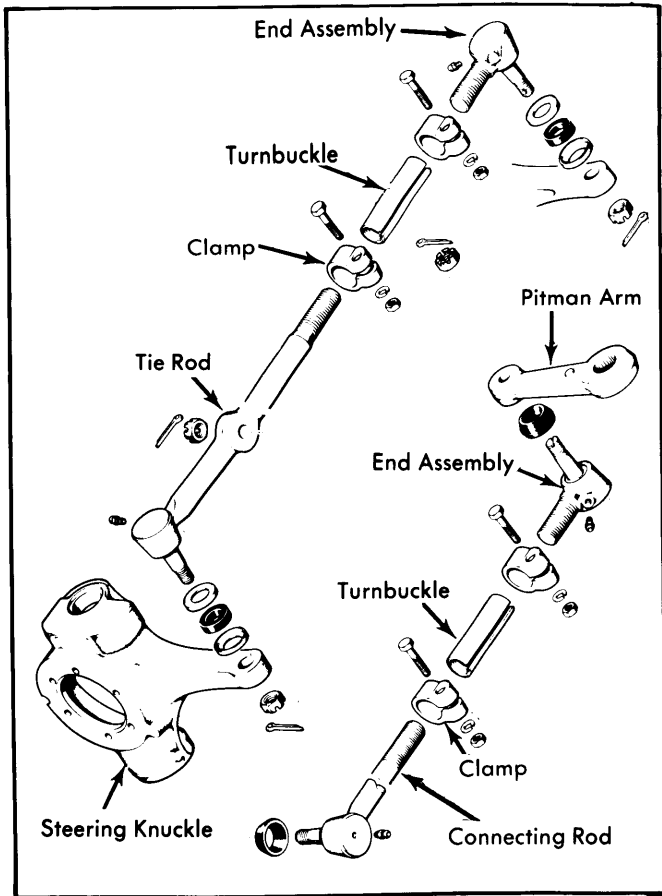


Fig. 2 Disassembled View of Steering Linkage (Cherokee, Wagoneer & Truck Models)

Connecting Rod Replacement — Remove cotter pins and nuts from both ends of connecting rod, then remove rod. When installing be sure wheels are in straight ahead position and steering arm is parallel to centerline of vehicle. Have steering gear steering arm properly indexed, with line marks on steering arm, and gear shaft on center of high point. With steering arm so positioned, install connecting rod.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Connecting Rod Clamp Bolt	①25-35
Connecting Rod $\frac{5}{8}$ " (To Castellated Nut Slot)	70 min.
Connecting Rod $\frac{9}{16}$ " (To Castellated Nut Slot)	①60 min.
Pitman Arm-to-Shaft	160-210
Steering Gear-to-Bracket	60-80
Tie Rod Clamp Bolt	
$\frac{5}{16}$ "	② 10-15
$\frac{3}{8}$ "	②20-30
$\frac{7}{16}$ "	①25-35
Tie Rod Stud Nuts $\frac{1}{2}$ " (To Castellated Nut Slot)	②40 min.
Tie Rod Stud Nuts (To Castellated Nut Slot)	60 min.

- ① — Cherokee, Wagoneer, Truck.
- ② — CJ Models