

Steering Linkage

GENERAL MOTORS (Cont.)

nut from shaft or clamp bolt from pitman arm, and mark arm-to-shaft position. Remove pitman arm from shaft using suitable puller.

2) To install, reverse removal procedure. If a clamp type pitman arm is used, spread pitman arm with a wedge just enough to slip arm onto shaft by hand pressure. Do not hammer on or damage to steering gear may result. Be sure to reinstall the hardened steel washer before installing nut.

Steering Connecting Rod Replacement (4-WD Models)

1) Remove cotter pins from ball studs and remove castellated nuts. Remove ball studs from steering arm and pitman arm boss by tapping with a light hammer while using a heavy hammer as a backing.

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

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Tie Rod Ball Stud Nuts	150 (68)
Tie Rod Clamps	
"S" Trucks	14 (19)
All Other Models	22 (30)
Idle Arm Mounting Bolt	30 (41)
Idle Arm-to-Relay Rod Nut	266 (90)
Pitman Arm-to-Relay Rod Nut	266 (90)
Steering Connecting Rod Nut	
P10/30 & Motor Home Chassis	370 (95)
K10/20	150 (68)
Steering Connecting Rod Clamps	40 (54)
Pitman Arm-to-Pitman Shaft Nut	
K10/20	90 (122)
Motor Home Chassis	125 (170)
All Other Models	180 (244)

- 1 — Plus torque required to align cotter pin.
- 2 — Seat the taper using a free-spinning nut, then install lock nut
- 3 — Plus torque required to align cotter pin. Maximum torque of 100 ft. lbs. (136 N.m).

JEEP

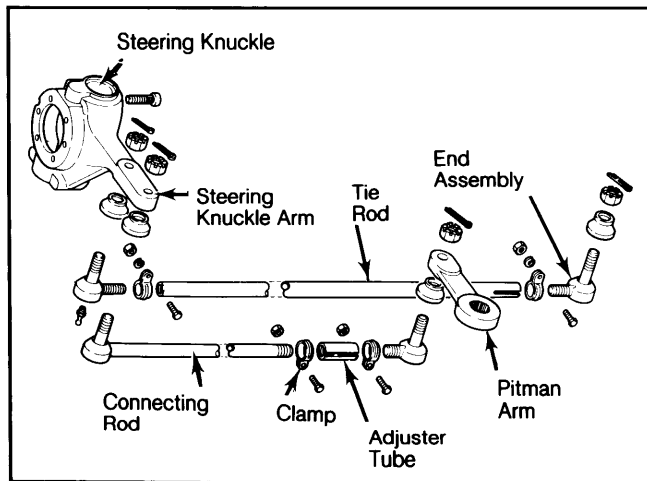
SERVICE PROCEDURES

Tie Rod Replacement

1) 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.

2) 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.

Fig. 1: Disassembled View of Steering Linkage



"CJ" & Scrambler models shown.

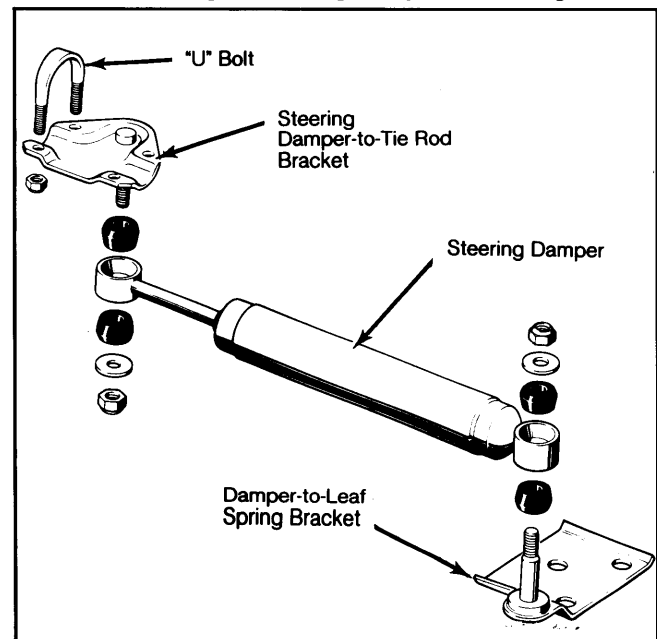
Steering Damper Replacement

1) 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.

2) To install, install rubber bushings in damper eyelets, then secure eyelet at push rod end to stud on tie rod bracket with attaching hardware. Install rubber bushings in damper body eyelet. 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.

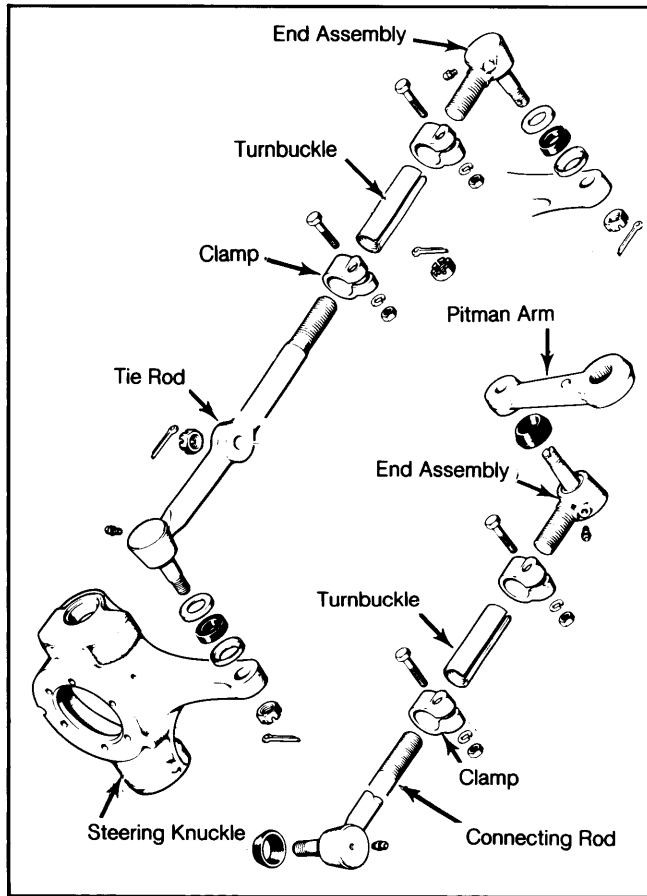
Fig. 2: Positioning of Steering Damper Bushings



All models except "CJ" & Scrambler.

JEEP (Cont.)

Fig. 3: Disassembled View of Steering Linkage

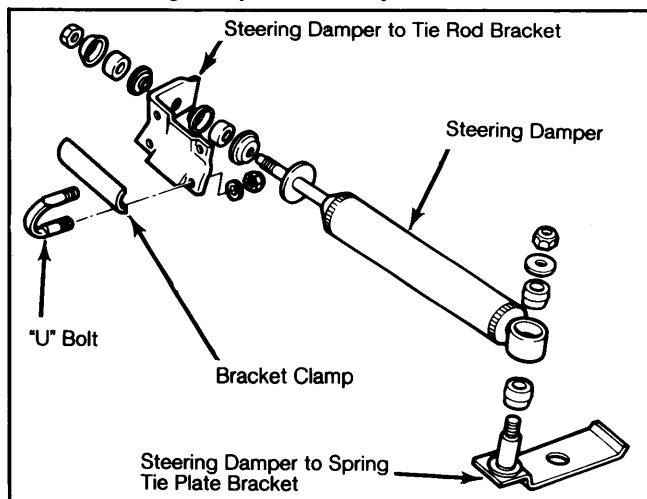


Cherokee, Wagoneer & Truck models shown.

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 in center of high point. With steering arm so positioned, install connecting rod.

Fig. 4: Steering Damper Assembly



"CJ" & Scrambler models shown.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Connecting Rod Clamp Bolt	
"CJ" & Scrambler Models	10-15 (14-20)
All Other Models	25-35 (34-48)
Connecting Rod $\frac{5}{8}$ " (To Castellated Nut Slot)	70 (95) Min.
Connecting Rod $\frac{9}{16}$ " (To Castellated Nut Slot)	60 (82) Min.
Pitman Arm-to-Shaft	160-210 (218-286)
Tie Rod Clamp Bolt	
CJ & Scrambler Models	10-15 (14-20)
All Other Models	25-35 (34-48)
Tie Rod Stud Nuts (To Castellated Nut Slot)	
CJ & Scrambler	40 (54) Min.
All Other Models	60 (82) Min.
Steering Damper Lock Nut	
CJ & Scrambler Models	16-28 (22-38)
All Other Models	24-36 (33-49)