

# 8-24 SUSPENSION AND STEERING

## Tie Rod Ends

### See Figures 119 thru 125

1. Raise and support the vehicle safely.
2. Remove the cotter pin and nut from the tie rod end ball stud.
3. Loosen the tie rod adjusting sleeve clamp bolts and remove the rod end from the spindle arm or center link, using removal tool 3290-D or equivalent.
4. Remove the tie rod end from the sleeve, counting the exact number of turns required doing so. Discard all parts removed from the sleeve.

#### To install:

5. Install the new tie rod end into the sleeve, using the exact number of turns it took to remove

the old one. Install the tie rod end ball stud into the spindle arm or center link.

6. Install the stud nut. Tighten to 43–47 ft. lbs. (59–63 Nm) and install a new cotter pin.

**⇒ If, after the nut has been torqued, the nut castellations and stud hole do not align for cotter pin installation, tighten the nut further until the cotter pin can be installed. Never back off the nut.**

7. Check the toe and adjust if necessary. Loosen the clamps from the sleeve and oil the sleeve, clamps, bolts, and nuts. Position the adjusting sleeve clamps as shown in the figure, then tighten the clamp nuts to 20–22 ft. lbs. (27–29 Nm).

## Power Steering Gear

### REMOVAL & INSTALLATION

#### See Figure 126

1. Disconnect the negative battery cable.
2. Remove the stone shield.
3. Tag the pressure and return lines so they may be reassembled in their original positions.
4. Disconnect the pressure and return lines from the steering gear. Plug the lines and ports in the gear to prevent the entry of dirt.
5. Remove the clamp bolts retaining the flexible coupling to the steering gear.
6. Raise and safely support the vehicle.

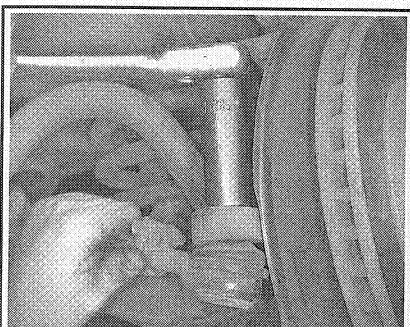


Fig. 119 Remove the tie rod end-to-steering knuckle retaining nut

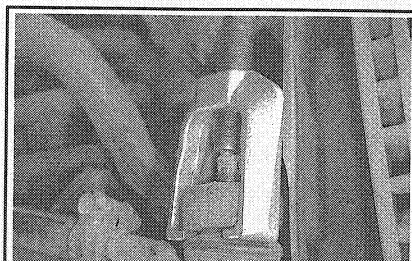


Fig. 120 A special removal tool like this one from Lisle® can be used to remove the tie rod end from the knuckle. Just install the tool on the tie rod end and tighten the forcing screw to . . .

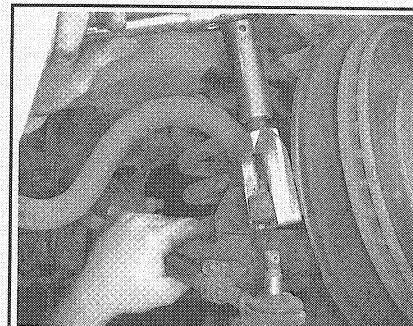


Fig. 121 . . . remove the tie rod end from the knuckle

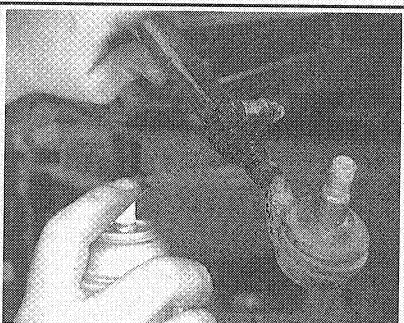


Fig. 122 Spraying a quality rust penetrant onto the tie rod adjusting sleeve is a good idea before attempting to remove it

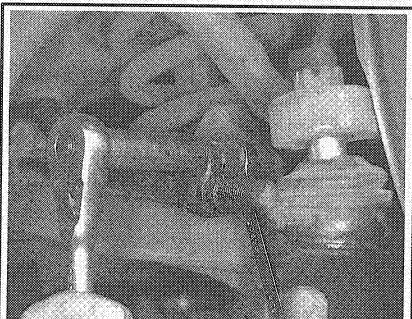


Fig. 123 Loosen the adjusting sleeve bolt

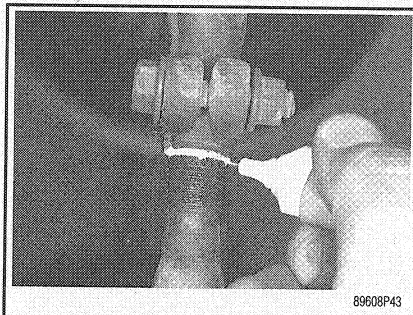


Fig. 124 Mark the tie rod end before removal to ensure reinstallation as close as possible to the previous alignment position

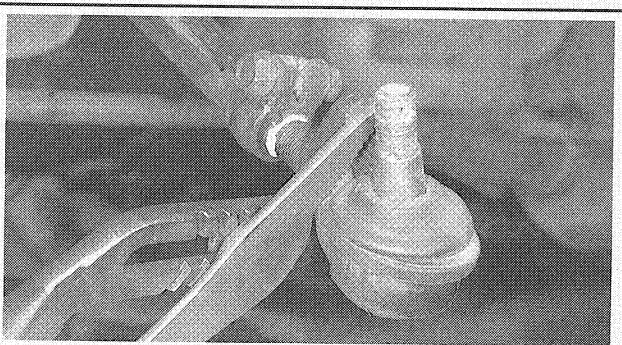


Fig. 125 Grasp the tie rod end with a pair of pliers or other suitable tool and slowly turn it out of the adjusting sleeve to remove it

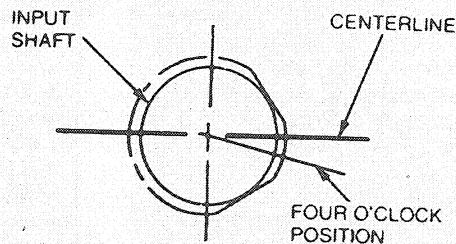


Fig. 126 During installation, position the steering gear input shaft as shown on 1992–00 vehicles