

Inner Tie Rod Ends and Bellows Boots

Meets ASE Task: (A4-B-8) P-1 Inspect and replace rack and pinion steering gear inner tie ends (sockets) and bellows boots.

Name _____ Date _____ Time on Task _____

Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

_____ 1. Check the service information and write the specified procedure to inspect and replace the inner tie rod ends.

_____ 2. Hoist the vehicle safely and visually check the condition of the inner tie rod end bellows boots.

- _____ OK
- _____ Cracked in places, but not all the way through (recommend replacement)
- _____ Cracked open places (requires replacement)
- _____ Missing

_____ 3. Most vehicle manufacturers recommend that the entire rack and pinion steering gear assembly be removed from the vehicle when replacing the inner tie rod ends (ball socket assemblies).

- _____ **Yes** (recommend that rack be removed)
- _____ **No** (the tie rod end can be removed with the rack in the vehicle)

_____ 4. Describe the method used to retain the inner ball sockets to the ends of the rack.

- _____ Pin
- _____ Rivet
- _____ Stacked
- _____ Other (describe) _____

_____ 5. List all precautions found in the service information regarding this procedure.

_____ 6. Describe any problems _____