

# Inner Tie Rod Ends and Bellows Boots

**Meets ASE Task:** : (A4-B-1) P-1 Inspect rack and pinion steering gear inner tie rod ends (sockets) and bellows boots; repair or replace as needed.

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time on Task: \_\_\_\_\_

Make/Model/Year: \_\_\_\_\_ VIN: \_\_\_\_\_

Evaluation (Enter number from 4, 3, 2, 1) : \_\_\_\_\_

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

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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.

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6. Describe any problems \_\_\_\_\_