**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.

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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 **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**