

Tie-Rod End Inspection and Replacement

Meets ASE Task: (A4-B-17) P-1 Inspect, replace, and adjust tie rod ends (sockets), tie rod sleeves and clamps.

Name _____ Date _____ Time on Task _____

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

_____ 1. Verify that the tie-rod end(s) requires replacement. Check all that apply.

- _____ Torn boot
- _____ Joint has side-to-side movement
- _____ Physically damaged
- _____ Other (specify) _____

_____ 2. Hoist the vehicle safely.

_____ 3. Compare the replacement tie-rod end with the original to be sure that the new end is correct.

_____ 4. Remove the retaining nut and use a tie-rod puller to separate the tie-rod end from the steering knuckle and/or center link.

HINT: Often a hammer can be used to jar loose the tie-rod end especially if a downward force is exerted on the tie-rod while an assistant taps on the steering knuckle at the tie-rod end.

_____ 5. Measure the distance between the center of the tie-rod end and the adjusting sleeve and record this distance so the replacement tie-rod end can be installed in approximately the same location so that the wheel alignment (toe setting) will be close to being correct.

_____ 6. Unscrew the old tie-rod end and discard.

_____ 7. Install the replacement tie-rod end and adjust to the same distance as measured and recorded in #5.

_____ 8. Install the tie-rod end onto the steering knuckle and torque the retaining nut to factory specifications.

Torque specifications for the tie-rod retaining nut = _____

_____ 9. Lower the vehicle and align the vehicle before returning it to the customer.