

# A4/U3/L1 STEERING LINKAGE COMPONENTS

## JOB SHEET A4B18 Tie Rod End Service

Name: \_\_\_\_\_ Start Date: \_\_\_\_\_  
Make: \_\_\_\_\_ Model: \_\_\_\_\_ End Date: \_\_\_\_\_  
VIN: \_\_\_\_\_ Year: \_\_\_\_\_  
Mileage: \_\_\_\_\_

### LEARNING OBJECTIVE/NATEF TASK



- Inspect, replace, and adjust tie rod ends (sockets), tie rod sleeves, and clamps **NATEF TASK A4/B18, P1. ICS155, ICS166**

### MATERIALS

Classroom Vehicle (s), OEM service information, hand tools, dial indicator, OEM special tools

### PROCEDURE

- **Wear Safety Glasses for this entire procedure.**
- Locate in the OEM service information, the procedure for inspecting and replacement of tie rod ends, sleeves, clamps, etc., for the vehicle you are using for this job sheet. Submit this procedure to your instructor or mentor for approval.

Your Instructor **MUST** stamp or initial the box to the right before you can proceed with this job sheet.



1. List the inspection procedure for the tie rod end for your vehicle:

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2. Specified measurement from the top center of the tie rod end ball stud to the outer end of the tie rod sleeve: \_\_\_\_\_
3. Measurement result of the distance from the top center of the tie rod end ball stud to the outer end of the tie rod sleeve: \_\_\_\_\_

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4. List the removal procedure for tie rod end on your vehicle:

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5. What is the bolt torque for the tie rod end ball stud retaining nut? \_\_\_\_\_

6. What is the bolt torque for the outer tie rod sleeve clamp nut? \_\_\_\_\_

7. What is the front wheel toe specification? \_\_\_\_\_

8. What is the measured front wheel toe? \_\_\_\_\_

## TASK SUMMARY

- Now that you have completed this NATEF task, can you think of anything (tools, information, knowledge etc.) that would have made this task easier.

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- List a customer complaint together with the cause that might appear on a work order, which would require this task as the correction.

**COMPLAINT:** \_\_\_\_\_

1. Perform Checks/Inspect: \_\_\_\_\_

2. Referencing Bulletin: \_\_\_\_\_

**CAUSE:** \_\_\_\_\_

1. Diagnosis: \_\_\_\_\_

2. Operating as designed: \_\_\_\_\_

3. Cause identified as: \_\_\_\_\_

**CORRECTION:**                    **THIS NATEF TASK JOB SHEET**

1. Other Correction: \_\_\_\_\_

2. Correction Verified By: \_\_\_\_\_

**Use this Rubric to RATE the completion of Job Sheet**

1 = Demonstrated exposure/observation of the competency

2 = Applies the competency but only mastered a few essential attributes  
of the competency

3 = Capable of the competency but needs further practice

4 = Performs the competency satisfactorily

5 = MASTERED the competency



**Instructor** \_\_\_\_\_ **Mentor** \_\_\_\_\_