

# A4/U4/L1 RACK & PINION STEERING

## JOB SHEET A4B8 Rack & Pinion R & R

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

### LEARNING OBJECTIVE/NATEF TASK



- Remove and replace manual or power rack and pinion steering gear; inspect mounting bushings and brackets **NATEF TASK A4B8, P1. ICS155, ICS166**

### MATERIALS

Classroom Vehicle (s), OEM service information, hand tools, lift, safety stands

### PROCEDURE

- Wear Safety Glasses for this entire procedure.
- Review “Rack and Pinion Steering Gear Service” in Lesson 1 of UNIT 4 of the A4 course. Locate in the OEM service information, the process for the removal and replacement of the rack and pinion steering gear for the vehicle you are using for this job sheet. Submit this process 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 symptoms that would require a rack & pinion steering gear replacement:  
\_\_\_\_\_  
\_\_\_\_\_
2. Will you have to support the engine on a FWD vehicle to remove the rack & pinion steering gear? \_\_\_\_\_
3. Explain the rack & pinion steering gear removal and installation process:  
\_\_\_\_\_  
\_\_\_\_\_

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4. Will you have to readjust the front toe? \_\_\_\_\_
5. Will you have to bleed the power steering system? \_\_\_\_\_
6. Will you have to reset the front camber setting? \_\_\_\_\_
7. What is the power steering gear mounting bolts tightening torque? \_\_\_\_\_

## 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.  
\_\_\_\_\_  
\_\_\_\_\_

- 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** \_\_\_\_\_