

A4/U2/L3 POWER STEERING DIAGNOSIS

JOB SHEET A4B5 Rack & Pinion Diagnosis

Name: _____ Start Date: _____
Make: _____ Model: _____ End Date: _____
VIN: _____ Year: _____
Mileage: _____

LEARNING OBJECTIVE/NATEF TASK



- Diagnose power steering gear (rack and pinion) binding, uneven turning effort, and looseness, hard steering, and fluid leakage concerns; determine necessary action. **NATEF TASK A4B5, P1. ICS167**

MATERIALS

Classroom Vehicle (s), OEM service information, Leak Tester

PROCEDURE

- Wear Safety Glasses for this entire procedure.
- Review UNIT 2 on Rack & Pinion Gears. Locate in the OEM service information, the diagnosis process for a 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.



Instructor
Approval

1. You and your instructor or mentor should drive the vehicle at normal speeds and pay attention to the feel, operation, and sounds of the power steering system. List your findings:

2. How would you test for fluid leaks? _____
3. If the rack and pinion steering gear had a rattle, clunk, or shudder noise, what would you do first? _____.

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4. If the rack and pinion steering gear had a whine or growl noise, how would you proceed? _____

5. If the rack and pinion steering gear had a hard steering effort in one or both directions, how would you proceed? _____

6. If the rack and pinion steering gear had a too easy steering effort in one or both directions, how would you proceed? _____

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 determined by this diagnostic/inspection task that might appear on a work order, and then list the NATEF Task CORRECTION you would use to resolve the complaint.

COMPLAINT: _____

1. Perform Checks/Inspect: _____

2. Referencing Bulletin: _____

CAUSE: _____

1. Diagnosis: **USED THIS NATEF DIAGNOSIS TASK**

2. Operating as designed: _____

3. Cause identified as: _____

CORRECTION: _____

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** _____