

A4/U8/L3 SLA SUSPENSION DIAGNOSIS

JOB SHEET A4C1.6 Steering Knuckle R & R

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

LEARNING OBJECTIVE/NATEF TASK



- Remove, inspect, and replace steering knuckle assemblies. **NATEF TASK A4/C1.6, P2. ICS 155.**

MATERIALS

Classroom Vehicle or components, OEM service information, safety glasses, hand tools, safety stands, lift, torque wrench.

PROCEDURE

- Wear Safety Glasses for this entire procedure.
- Review Inspecting and Replacing SLA Front Suspension Springs, Ball Joints, and Control Arms in Lesson 3 of UNIT 8 of the A4 course.
- Locate in the OEM service information, the inspection and replacement procedure for an SLA suspension steering knuckle. Using a service manual or other information source, locate a procedure for removing a wheel spindle. Submit the procedure to your instructor or mentor. Have the instructor check the box below to indicate approval of the procedure.

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



1. Describe the suspension on this vehicle: _____

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- Place the vehicle on a hydraulic lift or safety stands.



CAUTION: Observe all shop and safety rules when operating a hydraulic lift. If you are under 18, your instructor/mentor MUST assist you.



CAUTION: Be sure to retain the coil spring by placing a safety stand under the lower control arm. Keep the safety stand under the lower control arm at all times.

- Following the approved procedure, remove the steering knuckle and write the inspection procedure you used below:

- Using the OEM service information, locate the steering knuckle installation procedure. Submit the procedure to the instructor and have the instructor check the box below to indicate approval of the procedure.

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



**Instructor
Approval**

- Install the steering knuckle. What is the tightening torque for the ball joint studs upper and lower to the steering knuckle? _____
- Do you have to replace the front wheel bearing? _____
- Will it be necessary to perform a wheel alignment as a result of this repair and if so why? _____

- Lower the vehicle from the hoist.

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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** _____