

# A6/U9/L1 GAUGES, WARNING DEVICES, & DRIVER INFORMATION SYSTEMS DIAGNOSIS

## JOB SHEET A6F2 Gauge Circuit Testing

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

### LEARNING OBJECTIVE/NATEF TASK



- Inspect and test connectors, wires, and printed circuit boards of gauge circuits; determine necessary action **NATEF TASK A6/F2, P3. ICS161**

### MATERIALS

Classroom Vehicle (s), OEM service information, DMM, Jumper wires

### PROCEDURE

- Wear Safety Glasses for this entire procedure.
- Review Lesson 1 of UNIT 9 in the A6 course. Locate in the OEM service information the procedure for the inspection and testing of connectors, wires, and printed circuit boards of gauge circuits for the vehicle you are using. 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. Remove the instrument cluster from the vehicle dash.
2. Being careful not to touch the surface of the circuit board, visually inspect the printed circuit board for signs of tears and other damage. Record your findings below:  
\_\_\_\_\_  
\_\_\_\_\_
3. Check the condition of the terminals for the edge connector to the circuit board. Record what you found below:  
\_\_\_\_\_  
\_\_\_\_\_

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- Carefully clean the contacts for the edge connector by lightly rubbing them with eraser of a lead pencil.
- Remove the bulbs form the circuit board and check them with a DMM. Record what you found below:

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- Reinstall the bulbs carefully.
- Using the OEM service information, identify the circuits for each of the terminal contacts on the printed circuit board below:

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- Using a DMM, check the continuity across each of the above circuits and these below:

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- List your service recommendations for this circuit board:

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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.

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# A6/U9/L1 GAUGES, WARNING DEVICES, & DRIVER INFORMATION SYSTEMS DIAGNOSIS

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