

A6/U7/L1 ELECTRICAL DIAGNOSIS

JOB SHEET A6A14 Testing Circuit Protectors

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

LEARNING OBJECTIVE/NATEF TASK



- Inspect and test fusible links, circuit breakers, and fuses; determine necessary action. **(NATEF TASK A6/A14, P1. ICS160)**

MATERIALS

Classroom Vehicle (s) OEM service information

PROCEDURE

- Wear Safety Glasses for this entire procedure.
- Review Lesson 9 of UNIT 1 and pages 64-65 of Lesson 3 in UNIT 3 and pages 3-9 in Lesson 1 of UNIT 7 in the A6 Course. Locate in the OEM service information the procedure for testing and/or replacing fusible links, circuit breakers, and fuses. Submit this procedure to your instructor and/or mentor for approval.

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



- Identify the following components & list their location on the vehicle:

FUSIBLE LINKS:

FUSE PANEL (S):

CIRCUIT BREAKERS:

A6/U7/L1 ELECTRICAL DIAGNOSIS

- List the fuses in the fuse panel and their ratings:

1. Disconnect power to the fusible link and check the continuity of the fusible link and using the Ohmmeter function of the DMM. What is the reading? _____.
2. Describe the procedure for replacing a fusible link:

3. What is the rule for determining the fusible link size?

4. Do a voltage drop test across the fusible link. If you find a drop, what does this mean? _____.
5. Test all of the fuses using either a test light or DMM. What is the result, if the fuse tests good? _____. What is the result when the fuse tests bad? _____.
6. Check the fuse using the Ohmmeter function of the DMM. What are the results if the fuse is blown? _____.
7. Check a circuit breaker for proper operation using a DMM. Determine if the breaker is a self-resetting or resettable type. Record the results of this investigation: _____

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.

A6/U7/L1 ELECTRICAL 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** _____