

# A6/U7/L1 WIRING & WIRING SERVICE

## JOB SHEET A6A17 Soldering Wire Repairs

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

### LEARNING OBJECTIVE/NATEF TASK



- Perform solder repair of electrical wiring (NATEF TASK A6/A17, P1. ICS093)

### MATERIALS

Classroom vehicle	Safety glasses
OEM service information	DMM
Terminal Repair Kit	Electrical tape
Dielectric Grease	Heat shrink tubing
Heat gun	100 watt soldering iron
Wiring harness	60/40 Rosen core solder

### PROCEDURE

- Wear Safety Glasses for this entire procedure.
- Review pages 10-22 in Lesson 1 of UNIT 7 and/or pages 52-70 of Lesson 2 in UNIT 15 of the A6 Course. Locate in the OEM service manual the procedure for wiring repair and soldering for the wiring you are using for this Job Sheet. Submit this procedure to your instructor for approval.

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



1. Disconnect the power to the wire being repaired by either removing the fuse or disconnecting the Battery ground cable. What did you do?  
\_\_\_\_\_  
\_\_\_\_\_
2. Locate and cut out the damaged wire. What is the circuit name, number and wire color in this repair? \_\_\_\_\_.

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3. Describe in detail the procedure that you used to complete the repair. Follow the manufacturer's **cautions, warnings, and instructions** for the solder equipment:

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4. Did you use shrink tubing in this repair? \_\_\_\_\_

## 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 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: \_\_\_\_\_

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**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** \_\_\_\_\_