

Electrical/Electronic Systems: Wire Repair

Student/intern information:

Name _____ Date _____ Class _____

Vehicle used for this activity:

Year _____ Make _____ Model _____

Odometer _____ VIN _____

Learning Objective/Task	CDX Tasksheet Number	2013 MLR NATEF Reference Number; Priority Level	2013 AST NATEF Reference Number; Priority Level	2013 MAST NATEF Reference Number; Priority Level
• Replace electrical connectors and terminal ends.	C643	6A11; P-1	6A11; P-1	6A11; P-1
• Perform solder repair of electrical wiring.	C301	6A10; P-1	6A13; P-1	6A13; P-1
• Repair wiring harness.	C955		6A12; P-3	6A12; P-3
• Repair wiring harness (including CAN/BUS systems).	C599			6A15; P-1

Time off _____

Time on _____

Total time _____

Materials Required

- Wiring harness (on or off the car)
- Terminal removal tool
- Wire stripper/crimper tool
- New replacement terminal
- Soldering iron
- 60/40 rosin core solder
- Heat shrink tube or electrical tape
- Wire strippers
- Heat gun, if using shrink tube

Some Safety Issues to Consider

- **Terminal picks can be sharp. Be careful when using them so they don't slip and stab you.**
- **Always strip wires in a direction pointing away from you so the stripper doesn't slip and hit you in the face.**
- **Soldering irons get, and stay, extremely hot so always pick them up only by the handle.**
- **Solder is extremely hot when molten. Prevent it from dripping onto your skin or clothing.**
- Comply with personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations.

Performance Standard

0–No exposure: No information or practice provided during the program; complete training required

1–Exposure only: General information provided with no practice time; close supervision needed; additional training required

2–Limited practice: Has practiced job during training program; additional training required to develop skill

3–Moderately skilled: Has performed job independently during training program; limited additional training may be required

4–Skilled: Can perform job independently with no additional training