

Electrical/Electronic Systems: Horn and Wiper/Washer Diagnosis and 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
• Diagnose (troubleshoot) incorrect horn operation; perform necessary action.	C327		6G1; P-1	6G1; P-1
• Verify windshield wiper and washer operation; replace wiper blades.	C958	6F5; P-1	6H10; P-1	6H10; P-1
• Diagnose (troubleshoot) incorrect windshield washer problems; perform necessary action.	C329		6G3; P-2	6G3; P-2
• Diagnose (troubleshoot) causes of incorrect wiper operation; diagnose wiper speed control and park problems; perform necessary action.	C328		6G2; P-1	6G2; P-1

Time off _____

Time on _____

Total time _____

Materials Required

- Vehicle/simulator with inoperative horn
- Vehicle with inoperative washer/wipers
- Digital volt ohm meter (DVOM)
- Test light
- Fused jumper wire/s
- Fender cover

Some Safety Issues to Consider

- Windshield wiper motors can be very powerful. Use caution around operating wipers and linkage.
- Place a large folded-up towel or cloth fender cover on the windshield where the wiper would hit if the wiper slipped. The wiper hold-down spring is very stiff and can cause the wiper to break the windshield if allowed to slam back in place.
- Only operate the windshield wipers with water or washer solution on the windshield. Otherwise you could burn out the wiper motor.
- 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