

CDX Tasksheet Number: MHT5E003

Student/Intern Information

Name _____ Date _____ Class _____

Vehicle, Customer, and Service Information

Vehicle used for this activity:

Year _____ Make _____ Model _____

Odometer _____ VIN _____

Materials Required

- Vehicle or simulator with electrical lighting concern(s)
- Vehicle manufacturer's workshop materials, including schematic wiring diagrams
- Digital volt-ohmmeter (DVOM)
- Personal protection equipment (PPE)

Task-Specific Safety Considerations

- Activities require you to measure electrical values. Always ensure that the instructor/supervisor checks test instrument connections prior to connecting power or taking measurements. High current flows can be dangerous; avoid accidental short circuits or grounding the battery's positive connections.
- Activities may require test-driving the vehicle on the school grounds or on a hoist, both of which carry severe risks. Attempt this task only with full permission from your supervisor/instructor, and follow all the guidelines exactly.
- 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 federal, state, and local regulations.
- Always wear the correct protective eyewear and clothing and use the appropriate safety equipment, as well as wheel chocks, fender covers, seat protectors, and floor mat protectors.
- Make sure you understand and observe all legislative and personal safety procedures when carrying out practical assignments. If you are unsure of what these are, ask your supervisor/instructor.

► **TASK** Inspect cables, wires, and connectors in the lighting systems.

MTST
V.E.3; P1

Student Instructions: Read through the entire procedure prior to starting. Prepare your workspace and any tools or parts that may be needed to complete the task. When directed by your supervisor/instructor, begin the procedure to complete the task and check the box as each step is finished.

Time off _____

Time on _____

Total time _____

| Procedure: | Step Completed |
|---|--------------------------|
| 1. While referencing the manufacturer's workshop materials, check the operation of all lighting. | |
| a. Within, manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |
| b. If No, list the recommended corrective action(s): | <input type="checkbox"/> |
| 2. While referencing the manufacturer's workshop materials, check the operation of all lighting switches for proper operation and sticking/binding. | |
| a. Within, manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |
| b. If No, list the recommended corrective action(s): | <input type="checkbox"/> |
| 3. While referencing the manufacturer's workshop materials, inspect the headlight wiring harness(s) for damage and proper securement. | |
| a. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |
| b. If No, list the recommended corrective action(s): | <input type="checkbox"/> |
| 4. While referencing the manufacturer's workshop materials, check the headlight connections for loose/burnt/damaged connections. | |
| a. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |
| b. If No, list the recommended corrective action(s): | <input type="checkbox"/> |
| 5. While referencing the manufacturer's workshop materials, inspect the front turn signal and marker wiring harness(es) for damage and proper securement. | |
| a. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |

| | |
|---|--------------------------|
| b. If No, list the recommended corrective action(s): | <input type="checkbox"/> |
| 6. While referencing the manufacturer's workshop materials, check the front turn signal and marker light connections for loose/burnt/damaged connections. | |
| a. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |
| b. If No, list the recommended corrective action(s): | <input type="checkbox"/> |
| 7. While referencing the manufacturer's workshop materials, inspect the rear turn signal and marker wiring harness(s) for damage and proper securement. | |
| a. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |
| b. If No, list the recommended corrective action(s): | <input type="checkbox"/> |
| 8. While referencing the manufacturer's workshop materials, check the rear turn signal and marker light connections for loose/burnt/damaged connections. | |
| a. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |
| b. If No, list the recommendations for rectification: | <input type="checkbox"/> |
| 9. While referencing the manufacturer's workshop materials, inspect any auxiliary/custom lighting wiring harness(s) for damage and proper securement. | |
| a. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |
| b. If No, list the recommended corrective action(s): | <input type="checkbox"/> |

| | |
|---|--------------------------|
| 10. While referencing the manufacturer's workshop materials, inspect any auxiliary/custom lighting for loose/burnt/damaged connections. | |
| a. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |
| b. If No, list the recommended corrective action(s): | <input type="checkbox"/> |
| 11. While referencing the manufacturer's workshop materials, inspect any miscellaneous lighting wiring harness(es) for damage and proper securement. | |
| a. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |
| b. If No, list the recommended corrective action(s): | <input type="checkbox"/> |
| 12. While referencing the manufacturer's workshop materials, check any miscellaneous lighting connections for loose/burnt/damaged connections. | |
| a. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |
| b. If No, list the recommended corrective action(s): | <input type="checkbox"/> |
| 13. While referencing the manufacturer's workshop materials and electronic service tool (EST), check for any diagnostic trouble codes (DTCs) that are associated with the vehicle lighting. | |
| a. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |
| b. If No, list the recommended corrective action(s): | <input type="checkbox"/> |
| 14. While referencing the manufacturer's workshop materials and EST, check the operation of the lighting circuits. | |
| a. Within the manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/> | <input type="checkbox"/> |

| | |
|--|--------------------------|
| b. If No, list the recommendations for rectification: | <input type="checkbox"/> |
| 15. Discuss your findings with your supervisor/instructor. | <input type="checkbox"/> |

| Non-Task-Specific Evaluations: | Step Completed |
|---|--------------------------|
| 1. Tools and equipment were used as directed and returned in good working order. | <input type="checkbox"/> |
| 2. Complied with all general and task-specific safety standards, including proper use of any personal protection equipment. | <input type="checkbox"/> |
| 3. Completed the task in an appropriate time frame (recommendation: 1.5 or 2 times the flat rate). | <input type="checkbox"/> |
| 4. Left the workspace clean and orderly. | <input type="checkbox"/> |
| 5. Cared for customer property and returned it undamaged. | <input type="checkbox"/> |

Student signature _____ Date _____

Comments:

Have your supervisor/instructor verify satisfactory completion of this procedure, any observations made, and any necessary action(s) recommended.

Evaluation Instructions: The scoring box below is intended to act as a guide for both student and supervisor/instructor. Each criterion listed will help students to understand what is expected of them and help supervisors/instructors articulate the level of success at a particular task. The scoring is set up to allow a second attempt at each task (see the Test and Retest columns). Scoring is also designed to award students points only for task criteria that were completed correctly. Points are lost for failure to complete the employability requirements (see Non-Task-Specific Evaluation criteria). When all criteria are evaluated, tally the points for a total at the bottom of each column.

Tasksheet Scoring

| | Test | | Retest | |
|--|---------|---------|---------|---------|
| Evaluation Items | Pass | Fail | Pass | Fail |
| Task-Specific Evaluation | (1 pt) | (0 pts) | (1 pt) | (0 pts) |
| Student properly inspected lighting operation and lighting system switches and checked lighting system using an EST. | | | | |
| Student properly inspected headlight harness(es) and connections, auxiliary/custom harness(es) and connections, and miscellaneous harness(es) and connections. | | | | |
| Student properly inspected front turn signal and marker light harness(es) and connections and rear turn signal and marker light harness(es) and connections. | | | | |
| Student properly checked DTCs for the lighting system. | | | | |
| Non-Task-Specific Evaluation | (0 pts) | (-1 pt) | (0 pts) | (-1 pt) |
| Student successfully completed at least three of the non-task-specific steps. | | | | |
| Student successfully completed all five of the non-task-specific steps. | | | | |
| Total Score: <total # of points/4 = %> | | | | |

Supervisor/Instructor:

Supervisor/instructor signature _____ Date _____

Comments:

Retest supervisor/instructor signature _____ Date _____

Comments: