

CDX Tasksheet Number: MHT5B009

Student/Intern Information

Name _____ Date _____ Class _____

Vehicle, Customer, and Service Information

Vehicle used for this activity:

Year _____ Make _____ Model _____

Odometer _____ VIN _____

Materials Required

- Vehicle with possible battery concern
- Vehicle manufacturer's workshop materials
- Personal protection equipment (PPE)

Task-Specific Safety Considerations

- Diagnosis of this fault may require running the engine and managing an environment of dangerous gases and chemicals that carry severe risks. Attempt this task only with full permission from your supervisor/instructor, and follow all the guidelines exactly.
- Use extreme caution when working around batteries. Immediately remove any electrolyte that may come in contact with you. Electrolyte is a mixture of sulfuric acid and water. Batteries may produce explosive mixtures of gas containing hydrogen; avoid creating any sparks around batteries. Please consult with the shop safety and emergency procedures when working with or around batteries.
- Make sure you follow the manufacturer's operation procedures. Also make sure you have your supervisor's/instructor's permission to use any particular type of lifting equipment.
- 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, test, and clean battery cables and connectors; repair or replace as needed.

MTST
V.B.9; 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. Research inspecting, testing, cleaning, and repair or replacement of battery cables and connectors. List the steps:	<input type="checkbox"/>
2. Determine whether the battery should be removed to allow this task to be performed. Follow the manufacturer's recommendations.	<input type="checkbox"/>
3. Inspect the battery cables and connectors. List your findings and any recommendations you have:	<input type="checkbox"/>
4. Clean the battery cables and connectors with a suitable cleaner or by mixing baking soda and water. (Note: The consistency of the baking soda and water should be like a paste. The use of a small brush will help the cleaning process.)	<input type="checkbox"/>
5. Repair or replace the battery cables and connectors with suitable replacements as per the manufacturer's specifications.	<input type="checkbox"/>
6. Have your supervisor/instructor check your work. Supervisor's/instructor's initials:	<input type="checkbox"/>
7. Install the battery (if removed) and hold-down hardware. Reconnect the cables as outlined in the service information.	<input type="checkbox"/>
8. Return any tools you used to their proper locations.	<input type="checkbox"/>
9. Discuss your findings with your supervisor/the 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 used the appropriate service information to research inspecting, testing, cleaning, and repair or replacement of battery cables and connectors.				
Student successfully cleaned the battery cables and connectors with a suitable cleaner or by mixing baking soda and water.				
Student properly repaired or replaced the battery cables and connectors with suitable replacements as per the manufacturer's specifications.				
Student reinstalled all removed components undamaged and in working order.				
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: