

CDX Tasksheet Number: MHT5F003

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 gauge and warning device concerns
- Vehicle manufacturer's workshop materials including schematic wiring diagrams
- Test lamp, 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, test, replace, and calibrate (if applicable) electronic speedometer, odometer, and tachometer systems.

MTST
V.F.3; P3

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, record the operation of the speedometer, odometer, and tachometer when the ignition switch is first turned on:	<input type="checkbox"/>
2. While referencing the manufacturer's workshop materials, turn the ignition switch to the on position and observe the operation of the speedometer, odometer, and tachometer:	
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, record the procedure for removing the speedometer, odometer, and tachometer:	<input type="checkbox"/>
4. If directed by your supervisor/instructor, remove and inspect the speedometer, odometer, and tachometer and inspect all connections for damaged, burnt, or loose connections.	<input type="checkbox"/>
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. If directed by your supervisor/instructor, reinstall the speedometer, odometer, and tachometer and check the operation.	
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, record the procedure for recalibrating the speedometer, odometer, and tachometer:	<input type="checkbox"/>
7. If directed by your supervisor/instructor, recalibrate the speedometer, odometer, and tachometer and check the operation.	
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 and electronic service tool (EST), check for any fault codes related to the speedometer, odometer, and tachometer.	
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"/>
9. 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 recorded and checked operation of speedometer, odometer, and tachometer when the ignition was first turned on.				
Student properly removed and inspected speedometer, odometer, and tachometer.				
Student properly reinstalled and performed speedometer, odometer, and tachometer recalibration.				
Student properly checked fault codes related to the speedometer, odometer, and tachometer.				
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:

