CDX Tasksheet Number: MHT5A013

Student/Intern Information				
Vehicle with possible engine concern				
 Engine manufacturer's workshop materials Manufacturer-specific tools depending on the concern/procedure(s) 				
 Vehicle/component lifting equipment, if applicable 				

Task-Specific Safety Considerations

- 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.
- Lifting equipment and machines such as vehicle jacks and stands, vehicle hoists, and engine
 hoists are important tools that increase productivity and make the job easier. However,
 they can also cause severe injury or death if used improperly. 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	CUnderstand the process for software transfer, software updates,	
	and/or reprogramming of electronic modules.	MTST
		V.A.13; 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_	

Note: This tasksheet may require the student to check the condition of miscellaneous vehicle fluids, some of which may be flammable and could damage the environment or cause health problems if not handled properly. Observe all safety precautions and follow local regulations for the proper disposal of fluids.

Procedure:	Step Completed
List the control module to be updated/reprogrammed as outlined in the manufacturer's workshop materials:	
2. Connect the electronic service tool (EST) as outlined in the manufacturer's workshop materials, and check for any diagnostic trouble codes (DTC) that may prevent a control module update or reprogram.	
a. Within manufacturer's specifications Yes: □ No: □	
b. If No, describe the recommended corrective action(s):	
3. Record the procedure for updating/reprogramming the selected control module as outlined in the manufacturer's workshop materials:	
4. Record any special precautions when updating/reprogramming the selected control module:	
5. Record any customer-specific settings/parameters in the control module to be updated/reprogrammed:	
6. Record the current calibration code:	

7. Record the new calibration code:	
8. While referencing the EST, perform a control module update/reprogram.	
a. Within manufacturer's specifications:	
Yes: ☐ No: ☐	
b. If No, describe the recommended corrective action(s):	
 Check for any DTCs that may have occurred after the control module was updated/reprogrammed as outlined in the manufacturer's workshop materials. 	
a. Within manufacturer's specifications:	
Yes: No: No:	
b. If No, describe the recommended corrective action(s):	Ш
10. Reset any customer-specific settings/parameters as outlined in the manufacturer's workshop materials.	
a. Within manufacturer's specifications: Yes: □ No: □	
b. If No, describe the recommended corrective action(s):	
11. Discuss your findings with your supervisor/instructor.	

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

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 criterion 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

	Те	st	Ret	est
Evaluation Items	Pass	Fail	Pass	Fail
Task-Specific Evaluation	(1 pt)	(O pts)	(1 pt)	(O pts)
Student properly retrieved DTCs before and after control module was updated/reprogrammed.				
Student properly recorded control module update/reprogram procedure and special precautions.				
Student properly recorded current and new calibration codes and preformed control module update/reprogramming.				
Student properly recorded and reset customer- specific settings/parameters after update/ reprogram.				
Non-Task-Specific Evaluation	(O pts)	(-1 pt)	(O 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 #="" 4="%" of="" points=""></total>				

Supervisor/Instructor:	
Supervisor/instructor signature	. Date
Comments:	
Retest supervisor/instructor signature	Date
Comments:	