

CDX Tasksheet Number: MHT1C007

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 engine concerns
- Engine manufacturer's repair information
- Manufacturer-specific tools depending on the concern

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.
- 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 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.
- While working on a vehicle, wheel chocks must be placed on both sides of one set of tires or as directed by your supervisor/instructor.
- Exhaust evacuation hoses must be placed over exhaust outlets while the engine is used in a confined shop space.

► TASK Inspect cylinder sleeve counter bore and lower bore; check bore distortion; determine needed action.

MTST
I.C.7; P2

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.

Note: This tasksheet will 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.

Time off _____

Time on _____

Total time _____

Procedure:	Step Completed
1. Inspect the cylinder sleeve counter bore and check bore distortion as outlined in the manufacturer's workshop materials.	<input type="checkbox"/>
2. Cylinder sleeve counter bore inspection:	
a. Thoroughly clean the liner and counter bores. Any dirt or other material will prevent the liner from seating properly.	<input type="checkbox"/>
b. Inspect the liner counter bores for squareness, cracks, and galling from loose liner condition.	<input type="checkbox"/>
i. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/>	<input type="checkbox"/>
c. Measure counter bore in multiple spots for concentricity and depth according to the manufacturer's specification.	<input type="checkbox"/>
i. Record the measurements:	<input type="checkbox"/>
3. Inspect lower counter bore.	
a. Inspect for pitting or water damage due to improper pH or alkalinity levels.	<input type="checkbox"/>
i. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/>	<input type="checkbox"/>

b. Measure lower bore in multiple spots for concentricity as outlined in the manufacturer's workshop materials.	<input type="checkbox"/>
i. Record the measurements:	<input type="checkbox"/>
ii. Within manufacturer's specifications: Yes: <input type="checkbox"/> No: <input type="checkbox"/>	<input type="checkbox"/>
4. Return the vehicle/simulator to its beginning condition, and return any tools you used to their proper locations.	<input type="checkbox"/>
5. 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.	
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 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 detailed the 3Cs on the submitted repair order.				
Student displayed use of manufacturer's repair information.				
Student properly performed diagnostic measurements.				
Student developed appropriate conclusions based on diagnostics and completed repairs as directed by the supervisor/instructor.				
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:

