

CDX Tasksheet Number: MHT2B010

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 clutch concern
- Vehicle manufacturer's repair information
- Manufacturer-specific tools depending on the concern/procedure(s)

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 the 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 the confined shop space.

► TASK Identify causes of clutch noise, binding, slippage, pulsation, vibration, grabbing, dragging, and chatter problems; determine needed action.

MTST
II.B.10; 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. Reference the manufacturer's repair information for the common causes of clutch noise.	<input type="checkbox"/>
a. List all the possible causes of clutch noise.	<input type="checkbox"/>
i. Worn or damaged release bearing:	<input type="checkbox"/>
ii. Worn or damaged pilot bearing; noisy only when fully disengaged:	<input type="checkbox"/>
iii. Clutch adjustment incorrect on pull-type clutch:	<input type="checkbox"/>
b. Determine what action will be required for the rectification of the clutch noise:	<input type="checkbox"/>
2. Reference the manufacturer's workshop manual for the common causes of binding and slippage.	<input type="checkbox"/>
a. List all the possible causes for binding and slippage.	<input type="checkbox"/>
i. Insufficient release bearing clearance; no free play:	<input type="checkbox"/>
ii. Riding the pedal:	<input type="checkbox"/>
iii. Clutch worn out:	<input type="checkbox"/>

b. Determine what action will be required for the rectification of binding and slippage:	<input type="checkbox"/>
3. Reference the manufacturer's workshop manual for the common causes of pulsation and vibration.	<input type="checkbox"/>
a. List all the possible causes for pulsation and vibration.	<input type="checkbox"/>
i. Starting in too high a gear for the load:	<input type="checkbox"/>
ii. Oil-soaked discs:	<input type="checkbox"/>
iii. Warped or damaged pressure plate, flywheel, or clutch disc:	<input type="checkbox"/>
b. Determine what action will be required for the rectification of the pulsation and vibration:	<input type="checkbox"/>
4. Reference the manufacturer's workshop manual for the common causes of grabbing, dragging, and chatter problems.	<input type="checkbox"/>
a. List all the possible causes for grabbing, dragging, and chatter problems.	<input type="checkbox"/>
i. Insufficient release-bearing free travel:	<input type="checkbox"/>
ii. Worn or damaged input shaft splines; discs hanging up:	<input type="checkbox"/>

iii. Warped clutch disc or pressure plate:	<input type="checkbox"/>
iv. Intermediate plate binding:	<input type="checkbox"/>
b. Determine what action will be required for the rectification of grabbing, dragging, and chatter problems:	<input type="checkbox"/>
5. Return the vehicle to its beginning condition, and return any tools you used to their proper locations.	<input type="checkbox"/>
6. 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 (PPE).	<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 to 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 only to award students points 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 3 Cs on the submitted repair order.				
Student used manufacturer's repair information.				
Student performed the diagnostic observations properly and made appropriate conclusions.				
Student 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: