

# CDX Tasksheet Number: MHT2C015

## 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 transmission 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** Inspect and test the operation of the automatic transmission, components, and controls; diagnose automatic transmission system problems; determine needed action.

**MTST**  
II.C.15; 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.

Time off \_\_\_\_\_

Time on \_\_\_\_\_

Total time \_\_\_\_\_

<b>Procedure:</b>	<b>Step Completed</b>
1. Reference the appropriate manufacturer's repair information.	<input type="checkbox"/>
2. Verify proper operation, which may involve checking transmission pressures.	<input type="checkbox"/>
a. Refer to the appropriate service information to find the procedure to test the transmission's hydraulic pressures. Verify the correct transmission fluid level in the transmission.	<input type="checkbox"/>
b. Place a drain pan under the transmission and remove the correct pressure test port plug(s). Place the test port plug(s) off to the side where they will not be lost.	<input type="checkbox"/>
c. Install a transmission pressure tester(s) capable of measuring the maximum pressure into the test port(s) on the transmission.	<input type="checkbox"/>
d. Start the vehicle and place the vehicle in the correct operating conditions to monitor the pressure according to the manufacturer specifications (for example, transmission hot, in drive, idling). Record the pressure(s).	<input type="checkbox"/>
e. Shut off the engine, remove the transmission pressure tester(s), seal the threads, and reinstall the test port plug(s).	<input type="checkbox"/>
f. Clean off any transmission fluid that dripped onto the transmission, restart the vehicle to check for leaks, and top off the fluid if necessary.	<input type="checkbox"/>

3. Inspect, adjust, and replace the manual valve shift linkage and the neutral safety switch.	
a. Place the gear selector in the "park" position.	<input type="checkbox"/>
b. If necessary, raise the vehicle on a hoist to access the neutral safety switch and manual valve linkage.	<input type="checkbox"/>
c. Disconnect the shift linkage from the transmission.	<input type="checkbox"/>
d. Place the manual valve in the "park" position. The valve should snap into position.	<input type="checkbox"/>
e. The shift linkage should fit right onto the manual valve with no pulling on the linkage or the manual valve.	<input type="checkbox"/>
i. If the linkage does not line up, loosen the adjustment on the shift linkage and adjust the linkage so that it will install properly on the manual valve.	<input type="checkbox"/>
f. Tighten the adjustment on the shift linkage.	<input type="checkbox"/>
g. Double-check that the gear position indicator still indicates that the vehicle is in "park."	<input type="checkbox"/>

h. Use an ohmmeter to check that the neutral safety switch has continuity on the correct terminals. If not, loosen the switch and adjust its position.	<input type="checkbox"/>
i. If continuity is never obtained, or is obtained in every gear, replace the switch. The vehicle should start only in the "park" and "neutral" positions.	<input type="checkbox"/>
j. Make sure the brake pedal is firmly applied, then check that the vehicle starts only in the "park" and "neutral" positions.	<input type="checkbox"/>
k. Run the shifter through all the gear ranges, checking for proper operation.	<input type="checkbox"/>
4. Return the vehicle 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"/>

<b>Non-Task-Specific Evaluations:</b>	<b>Step Completed</b>
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 diagnostic measurements properly and made appropriate conclusions.				
Student completed repairs as directed by the 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.				
<b>Total Score:</b> <total # of points /4 = %>				

### Supervisor/Instructor:

Supervisor/instructor signature \_\_\_\_\_ Date \_\_\_\_\_

### Comments:

Retest supervisor/instructor signature \_\_\_\_\_ Date \_\_\_\_\_

### Comments: