CDX Tasksheet Number: MHT2C008

Student/Intern Information	
Name	Date Class
Vehicle, Customer, and Service I	Information
Vehicle used for this activity:	
Year Make	Model
Odometer	VIN
Materials Required	
Vehicle with possible transmis	
 Vehicle manufacturer's repair Manufacturer-specific tools do 	r information lepending on the concern/procedure(s)
manaractarer specime tools a	epending on the concern, procedure (a)
 both of which carry severe risks supervisor/instructor, and follow Comply with personal and environt protection; hand tools; power eddisposal of chemicals/materials Always wear the correct protect equipment, as well as fender conference when carrying out practical assis supervisor/instructor. While working on the vehicle, when carrying on the vehicle, when carrying on the vehicle, when carrying on the vehicle. 	ing the vehicle on the school grounds or on a hoist, is. Attempt this task only with full permission from your wall the guidelines exactly. Conmental safety practices associated with clothing; eye quipment; proper ventilation; and the handling, storage, and in accordance with federal, state, and local regulations. It is eyewear and clothing and use the appropriate safety overs, seat protectors, and floor mat protectors. Observe all legislative and personal safety procedures ignments. If you are unsure of what these are, ask your heel chocks must be placed on both sides of one set of tires.
or as directed by your supervisor. • Exhaust evacuation hoses must	or/instructor. be placed over exhaust outlets while the engine is used in
the confined shop space.	be placed over exhaust outlets while the engine is used in

▶ **TASK:** Inspect, adjust, and replace transmission covers, rails, forks, levers, bushings, sleeves, detents, interlocks, springs, and lock bolts/safety wires.

MTST II.C.8; 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.

Procedure:	Step Completed
Reference the appropriate manufacturer's repair information and/or component manufacturer's manuals.	
2. Remove and inspect the shift tower assembly.	
a. Place the transmission in "neutral" and deplete the air from the system.	
b. Disconnect the air lines that run to the shift knob at the slave valve.	
c. Remove the cap screws and washers that fasten the housing to the top cover.	
d. Remove the shift tower housing and lever assembly and gasket from the top cover housing.	
e. Refer to the manufacturer's repair information for disassembling and overhauling the shift lever tower assembly. (Note: Shift towers may be made of cast iron or aluminum. Disassembly procedures differ, depending on the type of shift tower assembly.)	
f. Inspect components for cracks, tears, or other wear.	
g. Replace parts as required.	

3. Remove and inspect the top cover and shift bar housing.		
a. Remove the three detent springs from the holes in the top cover. (Note: If a heavy-duty detent spring is present, it is in the bore on the slave valve side of the transmission.)		
b. Remove the detent ball from each of the three holes.		
c. Remove the cap screws and washers from the top cover.		
d. Remove the top cover and shift bar housing from the transmission case.		
e. Refer to the manufacturer's repair information for disassembly, overhaul, reassembly, and reinstallation of the top cover and shift bar housing.		
4. Reinstall the shift tower assembly.		
a. Place the transmission in "neutral."		
b. Install the new gasket on the top cover housing.		

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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)	(O pts)	(1 pt)	(O pts)
Student detailed the 3 Cs on the submitted repair order.				
Student used manufacturer's repair information.				
Student performed diagnostic observations properly and made appropriate conclusions.				
Student completed repairs as directed by the supervisor/instructor.				
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:	