CDX Tasksheet Number: MHT4E006

Student/Intern Information	on		
Name	Date	Class	
Vehicle, Customer, and Se	rvice Information		
Vehicle used for this activi	ty:		
Year Make		Model	
Odometer	VIN		

Materials Required

- Vehicle with possible suspension and steering concerns
- 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, test, repair, and/or replace air suspension pressure
	regulator and height control valves, lines, hoses, dump valves
	and fittings; check and record the ride height.

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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 appropriate manufacturer's repair information.	
2. Free and center all suspension joints by slowly moving the vehicle back and forth several times without using the brakes. When coming to a complete stop, make sure the brakes are released.	
3. Test the air pressure in the air suspension system. System pressure may be verified if the vehicle is equipped with a dash-mounted pressure gauge that reads suspension pressure. If not equipped with gauge, then an inline gauge may be used by adapting it into one of the air suspension lines.	
a. Pressure should be between 90 and 100 psi; verify with manufacturer's specifications.	
4. Disconnect linkage from the height control valve and move the lever slowly up then down while monitoring suspension system pressure.	
a. System pressure should change as well as frame height with position of the lever.	
5. Have a helper in the cab activate the suspension dump valve switch.	
a. Suspension system pressure should drop and frame height should lower.	
6. Inflate the suspension to at least 75 psi (517 kPa) and check for any air leaks in lines, connections, fittings, valves, and the air springs using a soapy water mixture.	

7. Reconnect height control valve linkage and verify that air pressure is at the manufacturer's specification. Allow at least 5 minutes for the suspension to settle before taking a ride height measurement.	
a. Reference the manufacturer's repair information for ride height: in/mm.	
b. Measured ride height: in/mm.	
8. Return the vehicle to its beginning condition, and return any tools you used to their proper locations.	
9. 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.	
order. 2. Complied with all general and task-specific safety standards, including proper use of any personal protection equipment (PPE).	
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2. Complied with all general and task-specific safety standards, including proper use of any personal protection equipment (PPE). 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	

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

	Те	st	Ret	est
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 measurements 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:	