Time off
Time on
11110 011

Total time\_

CDX Tasksheet Number: C735

- 1. Research the thermostat replacement procedure for this vehicle in the appropriate service information.
  - a. List any special procedures and/or tools to perform this task:
  - b. List the thermostat housing bolt torque: \_\_\_\_\_\_ ft-lb/N·m
- 2. Look up the flat rate time for this task in a flat rate manual: \_\_\_\_\_ hr
- 3. Drain enough coolant out of the radiator to lower the level below the thermostat. Save this to put back in the system when the task is finished. Keep it free of dirt and debris.
- 4. Follow the manufacturer's procedure and remove the thermostat.
- 5. Carefully scrape off any old gasket residue from the thermostat housing and mating surface. Be careful not to gouge the sealing surfaces.
- 6. Have your instructor verify removal of the thermostat. Supervisor's/instructor's initials:

**NOTE** Ask your supervisor/instructor whether or not to perform the next action before proceeding.

- 7. Test the old thermostat in a pan of boiling water to see at what temperature it opens. Suspend the thermostat in a pan of heated water using a piece of wire. The thermostat should be fully immersed in water, but do not allow it to touch the side or bottom of the pan.
  - a. List the temperature at which the thermostat started to open:

b. List the temperature at which the thermostat was fully open:

c. How far did the thermostat open? \_\_\_\_\_ in/mm

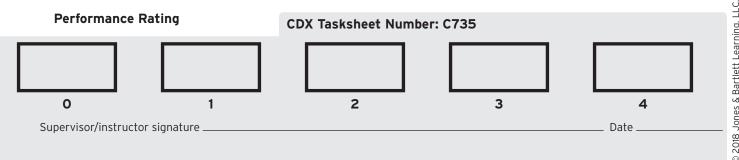
d. Did the thermostat operate according to specifications?

Yes: \_\_\_\_\_ No: \_\_\_\_\_

8. Install a new thermostat and gasket/seal (or reinstall the old one if your instructor directed you to do so). Torque bolts to the proper torque.

**NOTE** Be careful when bolting down the thermostat housing. Make sure the thermostat is still in its recessed groove. Failure to do so will result in a broken housing and damaged thermostat. If in doubt, ask your supervisor/instructor.

- 9. Once the thermostat is installed, return the drained antifreeze back into the system.
- 10. Follow the manufacturer's procedure to bleed any air from the cooling system.
- 11. Apply the vehicle's parking brake and secure the vehicle with wheel chocks to prevent the vehicle from rolling. Also, place the exhaust hose over the exhaust pipe(s).
- 12. Start the vehicle and check for any leaks or overheating. Immediately shut off the vehicle if a leak or overheating is found. Repair any leaks, or determine the reason for overheating if present.
- 13. Return the vehicle to its beginning condition and return any tools that you may have used to their proper locations.
- 14. Have your supervisor/instructor verify satisfactory completion of this procedure, any observations found, and any necessary action(s) recommended.



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