

TASK Inspect, remove, and replace water pump.



Time off _____
Time on _____
Total time _____

CDX Tasksheet Number: C680

1. **Research the following specifications/procedures for this vehicle in the appropriate service information.**
 - a. **Water pump bolt torque:** _____ **ft-lb/Nm**
 - b. **Type of anti-freeze:** _____
 - c. **Draw or print off and attach to this sheet the belt routing diagram:**

2. Drain the coolant out of the radiator. In most situations, the coolant gets replaced/ recycled. If your instructor wants you to reuse the coolant, save it in a clean container and keep it free of dirt and debris.

3. Following the specified procedure, remove the water pump.

4. **Inspect the pump for signs of deterioration, leaks, and worn bearings. List your observations:**

5. Have your instructor verify the removal of the water pump.
Supervisor's/instructor's initials: _____

6. Replace the water pump with a new water pump, if needed. Torque all fasteners to the proper torque.

7. Reinstall the removed coolant (or new coolant) into the radiator. Top off with the correct coolant, if needed.

8. Pressure test or vacuum test the cooling system to check for leaks. Repair any leaks found.

9. Apply the vehicle's parking brake or secure the vehicle with wheel chocks to prevent the vehicle from rolling. Also, place the exhaust hose over the exhaust pipe(s).

10. 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.

11. Return the vehicle to its beginning condition and return any tools that you may have used to their proper locations.

12. Have your supervisor/instructor verify satisfactory completion of this procedure, any observations found, and any necessary action(s) recommended.

Performance Rating

CDX Tasksheet Number: C680

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Supervisor/instructor signature _____ Date _____