

Water Pump Replacement

Meets ASE Task: (A1-D-5) P-2 Inspect, remove and replace water pump.

Name _____ Date _____ Time on Task _____

Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

The water pump should be replaced if there is a coolant leak at the weep (vent) hole or pump gasket surface, or whenever a timing belt is replaced. The water pump can also be the cause of a lack of heat from the heater, because a pump that has eroded fins or has an impeller that is slipping on the shaft will not be able to circulate heated coolant through the long heater hose.

- _____ 1. Check service information for the specified water pump inspection and testing plus replacement procedure. _____

NOTE: Drain the cooling system coolant into a suitable container and dispose of it properly, or recycle it.

- _____ 2. Remove other components and brackets necessary to remove the water pump from the engine. The parts that needed to be removed included:

- _____ 3. Clean the gasket surfaces.
- _____ 4. Attach a new gasket to the water pump and install the pump.
- _____ 5. Torque the retaining bolts to factory specifications.

Water pump retaining bolts torque specification = _____

- _____ 6. Reinstall all components, brackets, hoses, and belts that were removed to access the water pump.
- _____ 7. Refill the cooling system with new antifreeze coolant.

CAUTION: Be sure to open the cooling system bleeder valves(s), if equipped, to avoid trapping air.

- _____ **8.** Install the radiator pressure cap and start the engine. Check for leaks and proper cooling system operation.