Water Pump Replacement

Meets NATEF Task: (A1-D-8) Inspect, remove and replace water pump. (P-2)

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.