

Water Pump: Service and Repair Removal and Installation

WATER PUMP

Removal and Installation

WARNING:

Never remove the radiator cap when the engine is hot. Serious burns could occur from high pressure engine coolant escaping from the radiator.

REMOVAL

1. Drain engine coolant from the radiator. See: Cooling System/Coolant/Service and Repair/Changing Engine Coolant.

CAUTION:

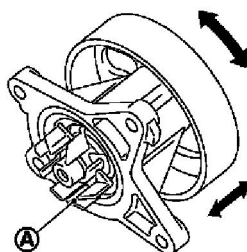
Perform this step when the engine is cold.

2. Remove the generator. See: Starting and Charging/Charging System/Alternator/Service and Repair.
3. Remove radiator hose (lower). See: Cooling System/Radiator/Service and Repair/Component.
4. Disconnect the CVT fluid cooler hose from the thermostat housing (CVT models).
5. Remove water pump.

CAUTION:

- **Handle the water pump vane so that it does not contact any other parts.**
- **Water pump cannot be disassembled and should be replaced as an assembly.**

INSPECTION AFTER REMOVAL



- Visually check that there is no significant dirt or rusting on the water pump body and vane (A).
- Make sure that there is no looseness in the vane shaft, and that it turns smoothly when rotated by hand.
- Replace water pump, if necessary.

INSTALLATION

Installation is in the reverse order of removal.

INSPECTION AFTER INSTALLATION

- Check for leaks of engine coolant. See: Cooling System/Coolant/Service and Repair/Inspection.
- Start and warm up the engine. Visually check for leaks of engine coolant.