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# Water Pump: Service and Repair

#### WATER PUMP REPLACEMENT

## REMOVAL PROCEDURE

- 1. Drain the cooling system. Refer to Draining and Filling Cooling System.
- 2. Loosen the air cleaner outlet duct clamps at the following locations:
  - Throttle body
  - Mass airflow/intake air temperature (MAF/IAT) sensor
- 3. Remove the radiator inlet hose clip from the outlet duct.
- 4. Remove the air cleaner outlet duct.
- 5. Remove the radiator vent inlet hose from the radiator hose clips.
- 6. Reposition the inlet hose clamp at the water pump.
- 7. Remove the inlet hose from the water pump.
- 8. Remove the fan blade.
- 9. Remove the accessory drive belt.
- 10. Reposition the outlet hose clamp at the water pump.
- 1. Remove the outlet hose from the water pump.
- 12. Reposition the surge tank outlet hose clamp at the water pump.
- 3. Remove the surge tank outlet hose from the water pump.
- 14. Reposition the heater inlet hose clamp at the water pump.
- 15. Remove the heater inlet hose from the water pump.
- 16. Remove the water pump bolts.
- 17. Remove the water pump and gaskets.
- 18. Discard the water pump gaskets.

#### INSTALLATION PROCEDURE

**IMPORTANT:** All gaskets surfaces are to be free of oil or other foreign material during assembly.

1. Install the water pump and NEW gaskets.

**NOTE:** Refer to Fastener Notice in Service Precautions.

2. Install the water pump bolts.

#### **Tighten**

- 2.1. Tighten the water pump bolts a first pass to 15 N.m(11 lb ft).
- 2.2. Tighten the water pump bolts a final pass to 30 N.m(22 lb ft).
- 3. Install the heater inlet hose to the water pump.
- 4. Position the heater inlet hose clamp at the water pump.
- 5. Install the surge tank outlet hose to the water pump.
- 6. Position the surge tank outlet hose clamp at the water pump.
- 7. Install the outlet hose to the water pump.
- 8. Position the outlet hose clamp at the water pump.
- 9. Install the accessory drive belt.
- 10. Install the fan blade.
- 11. Install the inlet hose to the water pump.
- 12. Position the inlet hose clamp at the water pump.
- 13. Install the engine vent inlet hose to the radiator hose clips.

**IMPORTANT:** Align the arrow at the throttle body end of the duct with the throttle body affecting stud.

- 14. Install the air cleaner outlet duct.
- 15. Install the radiator inlet hose clip to the outlet duct.
- 16. Tighten the air cleaner outlet duct clamps at the following locations:
  - Throttle body
  - MAF/IAT sensor

### **Tighten**

Tighten the air cleaner outlet duct clamp screws to 7 N.m(62 lb in).

17. Fill the cooling system. Refer to Draining and Filling Cooling System.