

Water Pump: Service and Repair

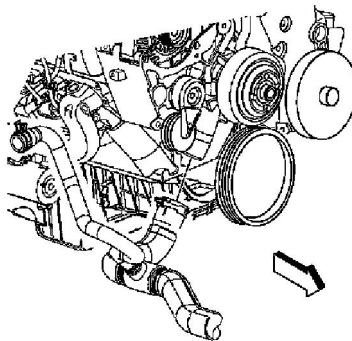
Water Pump Replacement (4.3L Engine)

Tools Required

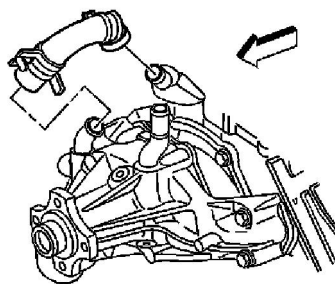
- ^ J41240 Fan Clutch Remover and Installer

Removal Procedure

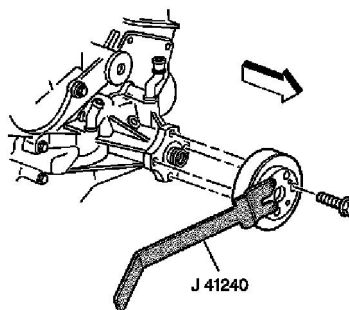
1. Remove the air cleaner assembly.
2. Remove the air cleaner outlet resonator duct.
3. Drain the cooling system.
4. Remove the cooling fan.
5. Remove the drive belt.



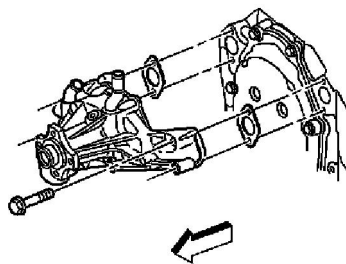
6. Reposition the radiator outlet hose clamps at the surge tank and water pump.
7. Remove the radiator outlet hose from the surge tank.
8. Remove the radiator outlet hose from the water pump.



9. Reposition the water pump inlet hose clamps.
10. Remove the water pump inlet hose.

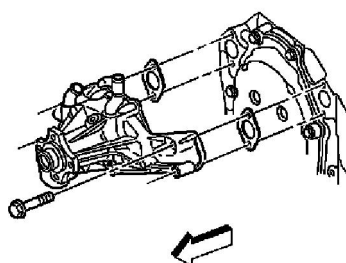


11. Using J41240 to hold the water pump pulley, remove the water pump pulley bolts.



12. Remove the water pump bolts.
13. Remove the water pump.
14. Remove and discard the water pump gaskets.
15. Clean and inspect the water pump, if necessary.

Installation Procedure

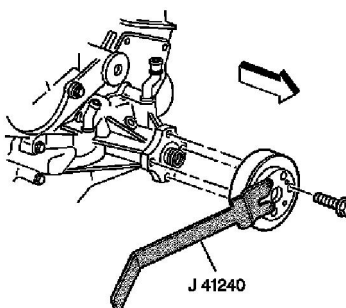


1. If reusing the fasteners, apply sealant GM P/N 12346004 (Canadian P/N 10953480), or equivalent to the threads of the water pump bolts.
2. Install NEW water pump gaskets and the water pump.

Notice: Refer to Fastener Notice in Service Precautions.

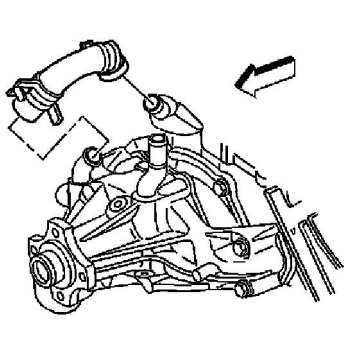
3. Install the water pump bolts.

Tighten the water pump bolts to **45 Nm (33 ft. lbs.)**.



4. Using J41240 to hold the water pump pulley, install the water pump pulley bolts.

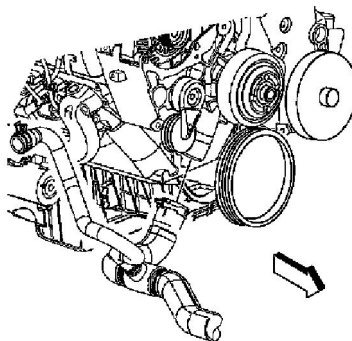
Tighten the water pump pulley bolts to **25 Nm (18 ft. lbs.)**.



5. **Important:** After assembly, the hose clamp tangs (water pump end) must point forward and the upper tang should be level with the outside diameter of the water pump inlet hose.

Install the water pump inlet hose.

6. Position the water pump inlet hose clamps.



7. Install the radiator outlet hose to the water pump.
8. Install the radiator outlet hose to the surge tank.
9. Position the radiator outlet hose clamps at the surge tank and water pump.
10. Install the drive belt.
11. Install the cooling fan.
12. Install the air cleaner outlet resonator duct.
13. Install the air cleaner assembly.
14. Fill the cooling system.
15. Inspect the cooling system for leaks.