

MILODON

2250 Agate Court, Simi Valley, Ca 93065
(805) 577-5950

INSTALLING YOUR WATER PUMP CORRECTLY

Follow the simple step-by-step instructions below. Handle your new water pump with care. Never strike shaft. This can damage shaft seal or bearings. Always check fan pulleys, belts and fan clutch when installing new water pump.

With Milodon High Volume water pumps, a Milodon High Flow thermostat will allow the water pump to work to its full potential. The opening of standard thermostats may also be delayed due to the increased pressure of the higher efficiency Milodon water pump.

1. Flush cooling system if it shows signs of corrosion. Clean pump impeller cavity and gasket surface completely. On Ford water pumps follow back plate installation instructions on the pump.
2. Position new gaskets after coating them on both sides with sealer.
3. Carefully install new pump. Do NOT strike the shaft as this may crack the impeller seal resulting in an immediate leak. Tighten bolts using a cross pattern.
4. Turn pump shaft by hand to check for free rotation.
5. Check thermostat, radiator cap and replace if they show signs of sticking or leaking. Connect hoses.
6. Check fan blade for cracks, bent blades, loose rivets, etc. Never straighten a heavily damaged fan blade. When any defects are found replace the entire fan.
7. If a clutch fan is used, look for loss of oil or wobble.
8. Check that the fan pulley sits square on pump hub. Using lockwashers, torque bolts evenly to assure wobble-free operation. A misaligned or wobbling fan will damage the water pump and void the warranty.
9. Rotate fan by hand and check for fan wobble - 3/32" max. at outer edge (with no fan clutch) 1/4" max with fan clutch.
10. Check belts for cracks, frayed edges, missing sections. A new belt is always best.
11. Adjust belts to proper tension. Lay straight edge between alternator and pump pulley and adjust belt deflection to 1/2" to 3/4". Excessive belt tension WILL take out the water pump bearings and will void the warranty. More is not better here. Recheck after 1/2 hour of operation. As a new belt works in it will stretch some and the initial belt tension will loosen.
12. Check fan clearances at blade tip, between fan and shroud and fan and radiator. Check that motor mounts are tight and in good shape as engine twist during acceleration will move the fan into the shroud.
13. Fill cooling system and check for leaks.

14. Start engine and run until normal operating temperature is reached. Check for leaks and for smooth operation. Never stand in line with the fan on initial startup and when revving the engine.