

# **TECHNICAL BULLETIN**

## ***WATER PUMP INSTALLATION GUIDE***

### ***FAILURE TO COMPLY WITH THE BELOW WILL VOID YOUR WARRANTY***

***The following steps are required for optimal pump performance and efficiency.  
Failure to follow these steps may cause premature damage and/or failure.***

- Flush the engine cooling system out for any potential corrosion or rust.
- Clean out the impeller chamber in the engine block.
- Remove any old gasket material residue and thoroughly clean and examine these mating surface.
- If installing a separate pulley or hub in the water pump shaft, fully support the impeller end and press the hub or pulley to the recommend specification. Do not strike the pulley, hub or shaft as this could result in water pump bearing and/or seal damage and cause premature failure.
- Add a bead of sealant to the new pump gasket area. Place gasket on surface and install any other seals or o-rings required.
- Fit water pump to engine block and tighten bolts to the manufacturer's recommended torque specifications.
- Verify free rotation of pump by hand and check all connecting parts are in place and are in good working condition. This includes the hoses, belts, fans and any additional parts. Any damage or excessively worn parts should be replaced.
- Connect hoses and belts. Refer to manufacturer's suggested belt tension for proper performance of the water pump.
- Refill the coolant system with manufacturer suggested coolant and capacity. Check for any leaks.
- Start engine and keep engine running until normal operating temperature is achieved. Verify that there is no air in the cooling system as this may cause the engine to overheat. Cautiously look for any leaks. **Please note that some initial water leakage from the pump seal or weep hole may occur, which is normal and should stop after a short period.**
- Check coolant system level and top off if needed.
- Avoid letting the system run low or dry as this will result in damage to the seal