



## RECOMMENDED GUIDELINES FOR INSTALLATION

- Ensure all mating surfaces are clean and that the O ring recess is clean and free from debris.
- Locate the Water Pump with care. Tighten mounting bolts evenly. Never use a hammer on the end of the shaft or on an alloy casing.
- Check hoses. If spongy or brittle, renew.
- Check fan belt/s for wear, and renew if necessary. If more than one fan belt is fitted replace the belts in sets only.
- Tighten fan belt/s to correct tension only. The vehicle handbook usually specifies about 12mm (1/2 inch) movement on the longest length (more on larger engines). Check your workshop manual. Unless you are careful to allow the recommended amount of slackness severe damage to the bearings will result. This is the prime cause of damage to Water Pumps.
- Where a viscous fan coupling is fitted, inspect the bearings for excessive wear, and check for correct operation (refer to the workshop manual). **WARNING:-** Fitting a worn viscous coupling to the new water pump will result in premature failure of the water pump bearing due to the excess vibration created.
- Check the drive pulley for wear and distortion, replace as required.
- Check the fanblades (where fitted) for distortion or missing or broken blades, which can cause out of balance forces, damaging the water pump bearings.
- Ensure that the cooling system is refilled with a 50% solution of Paraflu which will provide the necessary level of corrosion protection and maintain antifreeze protection to -35°C.
- Refill the cooling system slowly to avoid air locks. Run the engine to attain normal operating temperature. Ensure that the heater circuit is fully bled of air by turning the heater control to Hot while running the engine above idle speed. Check all pipes and hoses during running and after stopping for leaks.
- Rectify any leakage and top up the heater tank as required.
- When the engine has cooled down re-check the water level.
- Each of our Water Pumps are tested for leaks before leaving the factory. If a slight leak is visible on first fitting, it should cease after a few minutes of idle running.
- Always refer to the relevant vehicle Instruction Manual and Maintenance Book.

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