

INSTRUCTIONS FOR CHECKING WATER PUMP GEAR LASH

This water pump assembly is furnished with the cover off to facilitate checking the gear lash between the water pump gear and camshaft gear after the pump is installed on the engine.

Check the gear lash by installing bolts, or equivalent, in the impeller puller holes. Measure the backlash with an indicator at that point. The gear backlash setting should be .001" to .006" when measured in this manner. When the specified backlash reading cannot be obtained, loosen the pump attaching bolts and pivot the pump at the dowel as required to obtain the proper lash adjustment. Retighten the mounting bolts.

Install the water pump cover as follows:

1. Make sure the seal ring is properly seated in the groove.
2. Spread the end of the retaining ring and feed it into the retaining groove in the pump body, proceeding in a clockwise direction until both layers are completely into the groove.
3. With a plastic or wooden mallet strike the pump cover at the 12:00, 9:00, 6:00 and 3:00 o'clock positions. This will allow the retaining ring to spread into the groove. Repeat the operation several times.
4. Now strike the retaining ring outward (with the plastic or wooden mallet) starting with the visible end of the ring and proceeding in a counterclockwise direction. Strike around the circumference of the ring 2 or 3 times until the ring fully seats in the groove. The retaining ring is fully seated when 3/16" or less of the ring, measured radially, is visible.

