

INSTRUCTIONS

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910-15580

Aluminum Water Pump

1. Install new water pump. **DO NOT STRIKE SHAFT!** Hand tighten pump bolts, then torque the bolts to OEM specifications in a criss-cross pattern

2. Check fan pulley to ensure it sits square on pump hub. Make certain that the center hole in the pulley matches the pump pulley pilot snout diameter of the new water pump. Check pulley alignment with other pulleys, use shims if necessary to achieve proper alignment.

3. Carefully inspect fan, paying particular attention to the center hole. Make certain that it is not worn or elongated. If center hole is loose on fan hub or blades are slightly bent, the fan will be out of balance and could cause catastrophic failure. Replace if necessary.

WARNING: FAILURE TO PROPERLY ADHERE TO THE FOLLOWING STEPS WILL RESULT IN PUMP DAMAGE WHICH MAY INCLUDE AN UNCONTAINED RELEASE OF THE FAN, PULLEY, AND HUB ASSEMBLY RESULTING IN ADDITIONAL DAMAGE TO RADIATOR AND PLUMBING, OR PERSONAL INJURY

4. Assemble the fan, spacer, pulley (and any shims) that you intend to use. Do not install on water pump. Install bolts through the "stack" of components. Invert the stack and lay on workbench with the fan down and the pump side of the pulley facing up. Measure the length of the exposed threads. The dimension must not be less than $\frac{3}{8}$ " and no more than $\frac{1}{2}$ "

NOTE: DETERMINING THE CORRECT LENGTH FOR THE FAN BOLTS IS CRITICAL. BOLTS SUPPLIED WITH THE AVERAGE FAN SPACER KIT MAY NOT BE OF THE PROPER LENGTH. THE COMBINED THICKNESS OF VARIOUS PULLEYS/SPACERS/FANS CAN VARY GREATLY. IF THE BOLTS ARE TOO SHORT THEY CAN BACK OUT AND THE FAN CAN DISENGAGE FROM THE WATER PUMP HUB. IF THE BOLTS ARE TOO LONG THEY WILL BOTTOM OUT ON THE WATER PUMP HOUSING AND DISLODGE THE FAN HUB, CAUSING CATASTROPHIC FAILURE.

5. Install the fan/spacer/pulley stack on water pump hub. Select the proper length of bolts. Count the number of turns to install the bolts. There should be no less than 6 turns and not more than 10 turns to tighten the fan retainer bolts.

6. Prior to installing fan belt(s), rotate the fan by hand to check for freedom of rotation or excessive wobble. Maximum wobble should be no more than $\frac{1}{8}$ " at the outer edge of the fan.

CAUTION: IT IS RECOMMENDED FOR HIGH RPM APPLICATIONS THAT YOU USE A BILLET FAN SPACER SUCH AS OUR P/N 910-15730. USE THE SHORTEST LENGTH POSSIBLE FOR YOUR APPLICATION. NEVER USE MORE THAN ONE FAN SPACER. IF USING A LARGE DIAMETER 6 BLADED FAN, INSTALL A LIGHTWEIGHT ALUMINUM FAN TO IMPROVE PERFORMANCE AND PUMP DURABILITY.

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P.O. Box 81906 • Lincoln, NE 68501

800.979.0122 • SpeedwayMotors.com

