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COOLING SYSTEM—N3

To dismantle water pump (see fig. N3)

1. Remove water pump pulley by the use of a suitable tool (see fig. N3). The tool listed in the pulley can be used for this purpose.
2. Press water pump shaft (2) complete with bearings and impeller (7) out through rear of pump body (1).
3. Press shaft and bearing assembly out of impeller.
4. Remove ceramic counterface (6), seal (5) and thrust washer separate (4) from water pump shaft.

The water pump shaft and bearings are a complete assembly and can not be dismantled.

Note: Later water pumps are fitted with a one piece 'vector' type seal which includes the counterface and thrust (See fig. N4A).

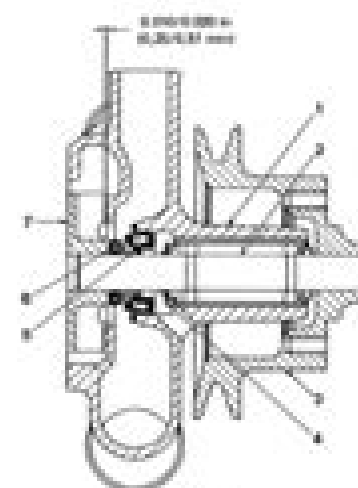
To assemble water pump (see fig. N4)

1. With the shorter end of the water pump shaft to the front, press the shaft and bearing assembly (2) into rear of water pump (1) until the end of the bearing housing aligns with the front of the water pump body.
2. Fit thrust washer separate (4) end seal (5) with carbon face to rear of pump and flange against the inside face of water pump body.
3. Fit ceramic counterface (6) to shaft with ceramic insert towards seal.
4. With a support on the front end of the water pump shaft, press impeller (7), with blades towards, on rear of shaft until there is a clearance of 0.25 mm (0.010 in) to 0.51 mm (0.020 in) between blades of impeller and pump body (see fig. N5).
5. Ensure pump turns freely.
6. Fit any sealwires that can not be put in place before the pulley is fitted. These sealwires have aluminium sealing washers.
7. With a support on the impeller end of the water pump shaft, press on water pump pulley until the front end of pulley aligns with front end of shaft. Where the fan mounting face is extended forward (see fig. N6), press the pulley on the water pump shaft until the fan mounting face is 1.80-1.89 mm (0.071 in) from the rear face of the pump body.
8. Check the clearance again between impeller blades and water pump body and ensure pump turns freely.

Note: Where a water pump is fitted with a ceramic seal and the impeller is run without contact to the water pump, the carbon seal and ceramic counterface can get very hot and will cause cracks in the ceramic. This can cause water to leak from the pump and does not always indicate that the seals have been fitted wrongly.



Fig. N3


 Fig. N4
 Water Pump Assembly

1. Pump Body
2. Shaft and Bearing Assembly
3. Pulley
4. Thrustwasher
5. Seal
6. Ceramic Counterface
7. Impeller

Perkins 3 152 Workshop Manual

Jianjun Gao



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