

SERVICE MANUAL

WATER PUMP AND THERMOSTAT

Section 10
Page 9

WATER PUMP - Continued

+ RECONDITIONING - Continued

• Reassembly

14. Install the front seal (11) and the housing (4) against the retaining ring (10).

15. Lightly lubricate the seal surface of the wear sleeve (12).

16. Install the wear sleeve (12).

17. Install the pulley hub (13) onto the shaft (1).

18. Apply clean-engine oil to the threads and install the flange lock nut (14). Tighten the shaft to the "SPECIAL TORQUES" by turning the internal hex at the end of the shaft, while holding the nut.

19. Install a new O-ring (15) (if applied) on the water pump seal (2) and press into the bearing housing (4), using the water pump seal installation tool. (See Detail "B", Figure 10.11).

20. Apply two small drops of Loctite® 290 to the shaft/coast seal joint. Space each drop 180° apart.



Figure 10.13. Bearing Housing with Groove and Coolant Seal with "O" Ring

- 1. Groove
- 2. Coolant Seal
- 3. "O" Ring
- 4. Bearing Housing

21. Support the shaft at the front end and push the housing down by hand.

22. Press the impeller onto the shaft supported on the front end as shown in Figure 10.14.

NOTE: Prior to full installation of the impeller, place two 0.028 in. (0.71 mm) feeler gauges under the impeller.

23. Verify impeller to housing clearance as follows:

IMPORTANT

USE A SLEEVE (FIGURE 10.14) UNDER THE PRESS RAM WHEN PRESSING ON THE IMPELLER BECAUSE THE SHAFT WILL PROTRUDE SLIGHTLY ABOVE

- a. With the feeler gauge in place, press the impeller until the feeler gauges are snug. Refer to Figure 10.14.



Figure 10.14. Press on Impeller and Check Impeller to Housing Clearance

- b. Refer to the "SPECIFICATIONS" for impeller to housing clearance.

+ INSTALLATION

1. Using a new gasket, place the gasket over the water pump housing (down). Refer to Figure 10.15.

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Jicheng Xie



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