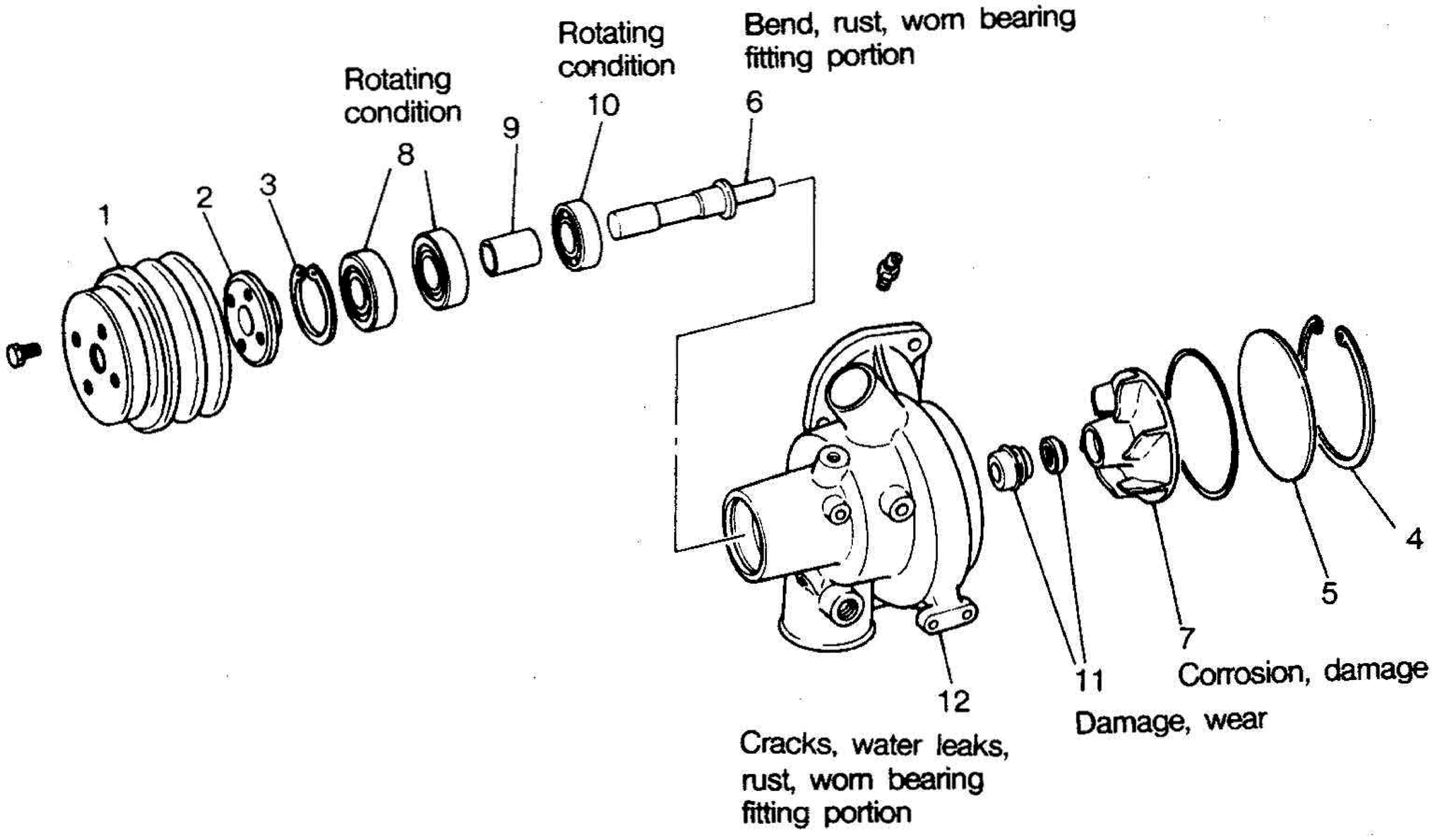
For servicing the cooling system, use the following tools.

Special tool name	Part No.	Use
Water pump impeller puller	MH061417	For removal of water pump impeller

10-1 WATER PUMP

10-1-1 Disassembly and Inspection



1 Water pump pulley
2 Flange
3 Snap ring
4 Snap ring
5 Cover
6 Water pump shaft
7 Impeller
8 Ball bearing
9 Spacer
10 Ball bearing
11 Unit seal
12 Water pump case

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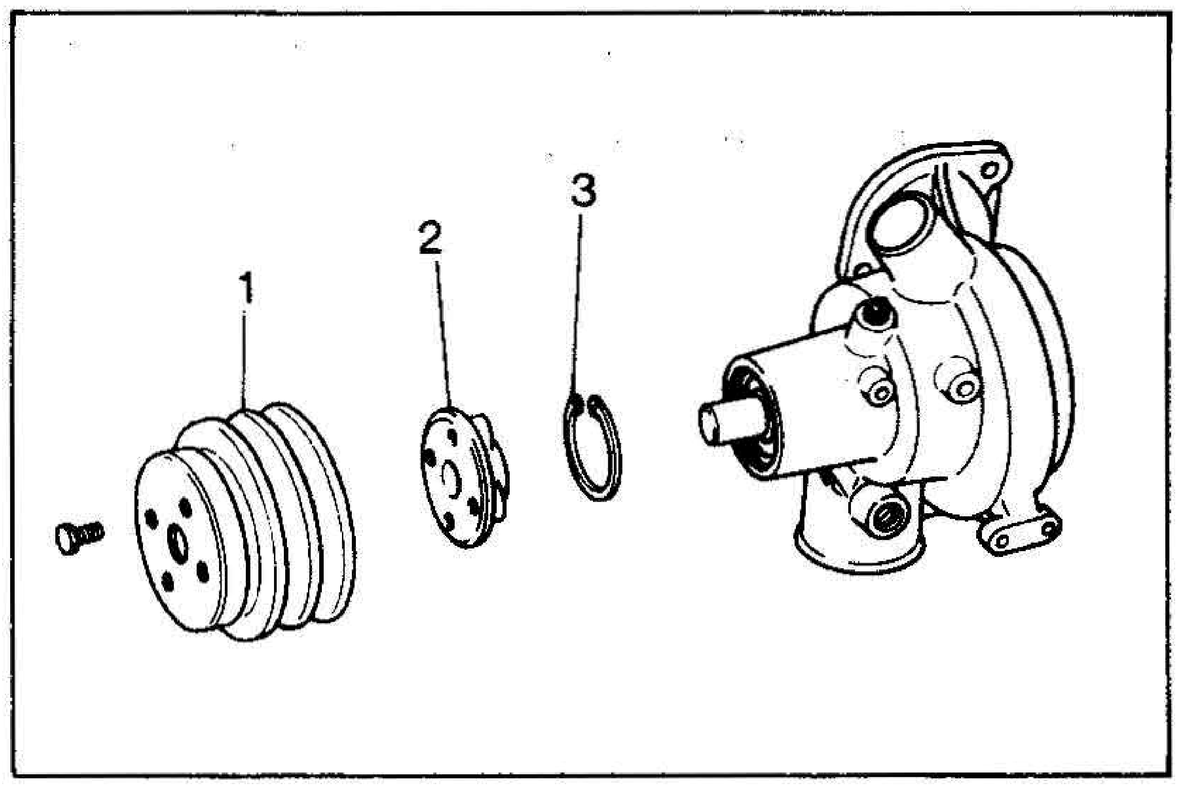
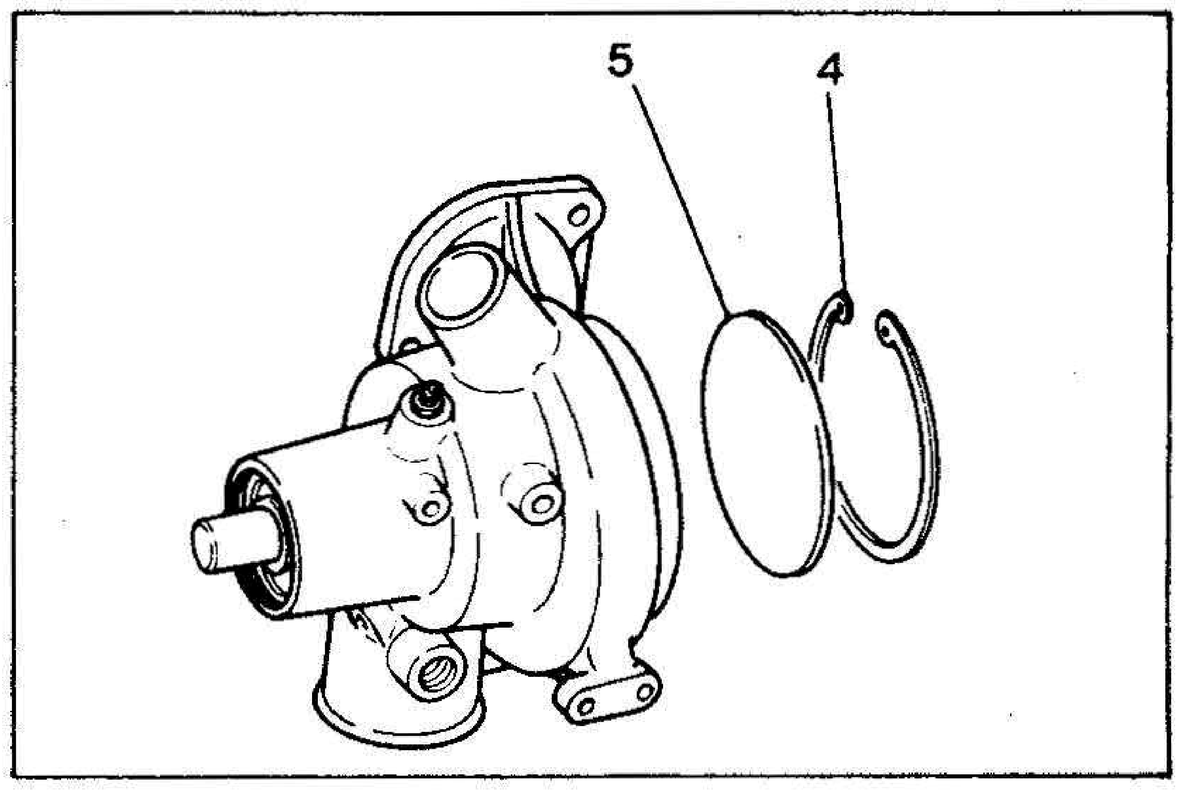
(1) Remove the water pump pulley 1. Pull off the flange 2 with Gear Puller etc. and remove the snap ring 3.

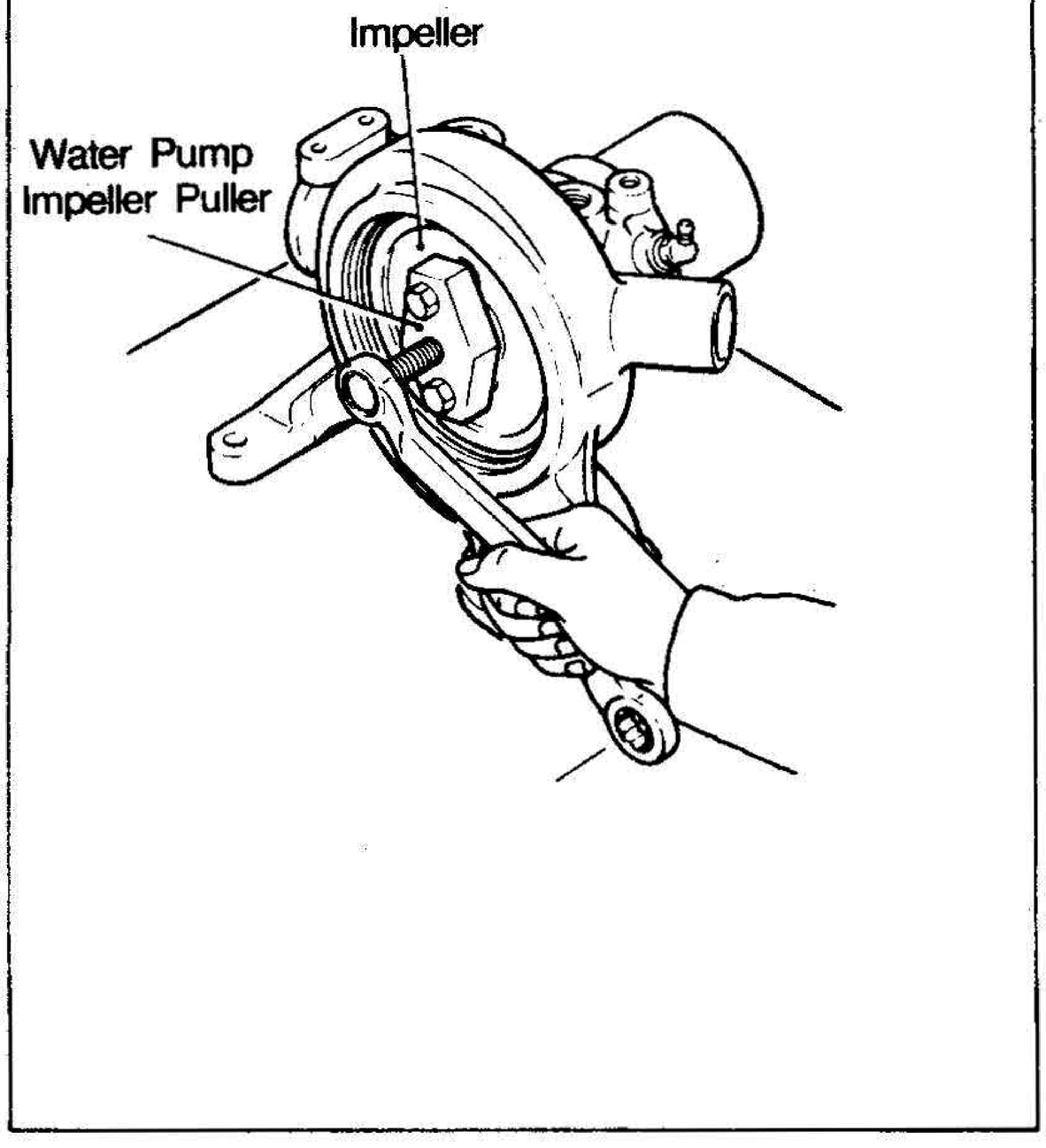


(2) Remove the snap ring 4 and remove the cover 5.



(3) Using two threaded holes(M8×1.25) in the impeller 7 and the Puller(special tool), pull off the impeller 7 and remove the water pump shaft 6.

Check the unit seals in the impeller and water pump case for wear and damage and replace the unit seal 11 if defective or water leaks during operation.



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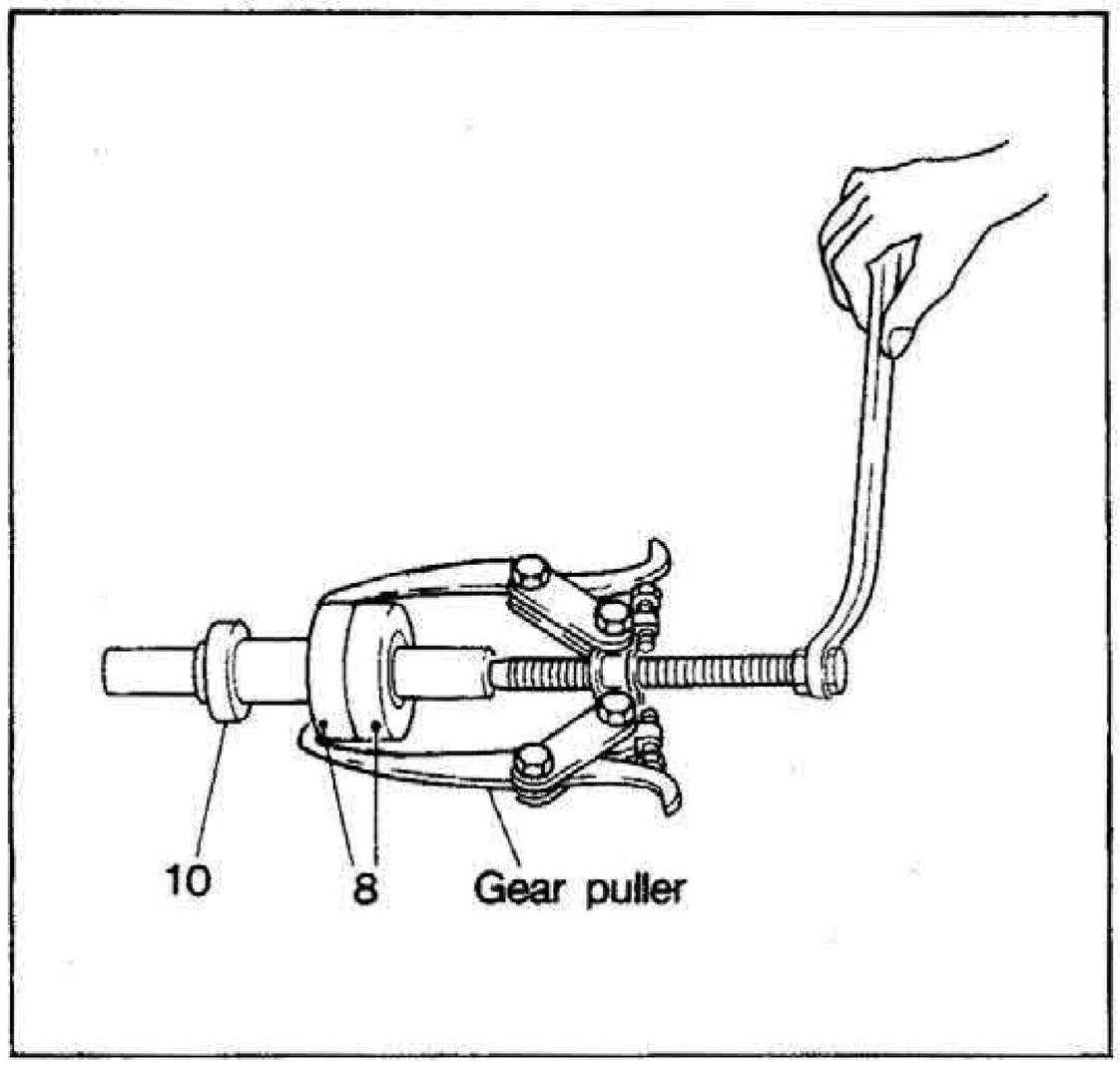
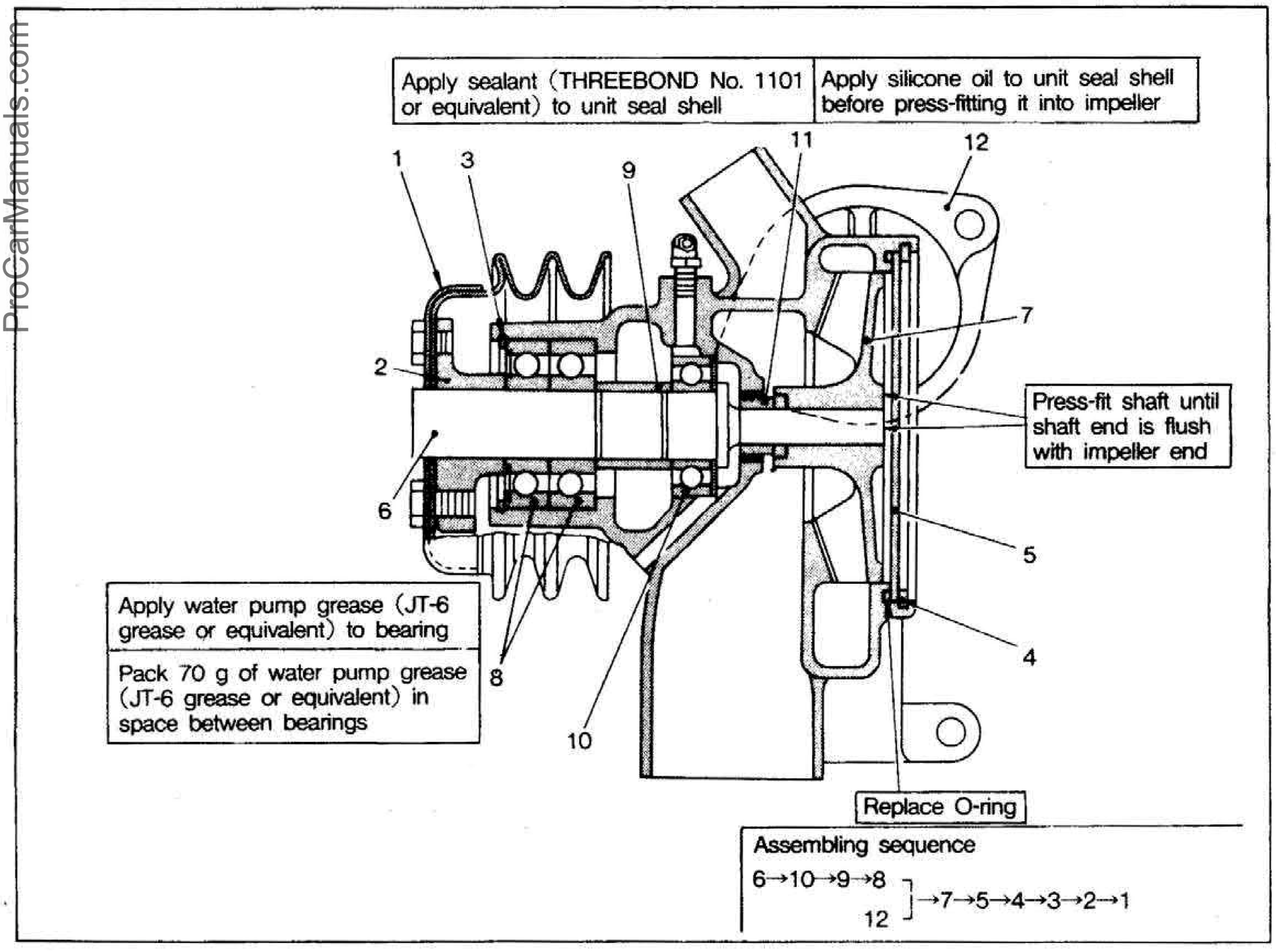
(4) Remove the ball bearings 8 and 10 from the water pump shaft with a gear puller etc.



10-1-2 Reassembly



NOTE : After reassembly, turn the water pump pulley by hand to confirm that the impeller does not touch the case and cover.

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10-2 THERMOSTAT

10-2-1 Inspection of Thermostat

Check the thermostat by the following procedures. Stir the water in the container with a rod equalize water temperature.

(1) Slowly heat the thermostat to the valve opening temperature.

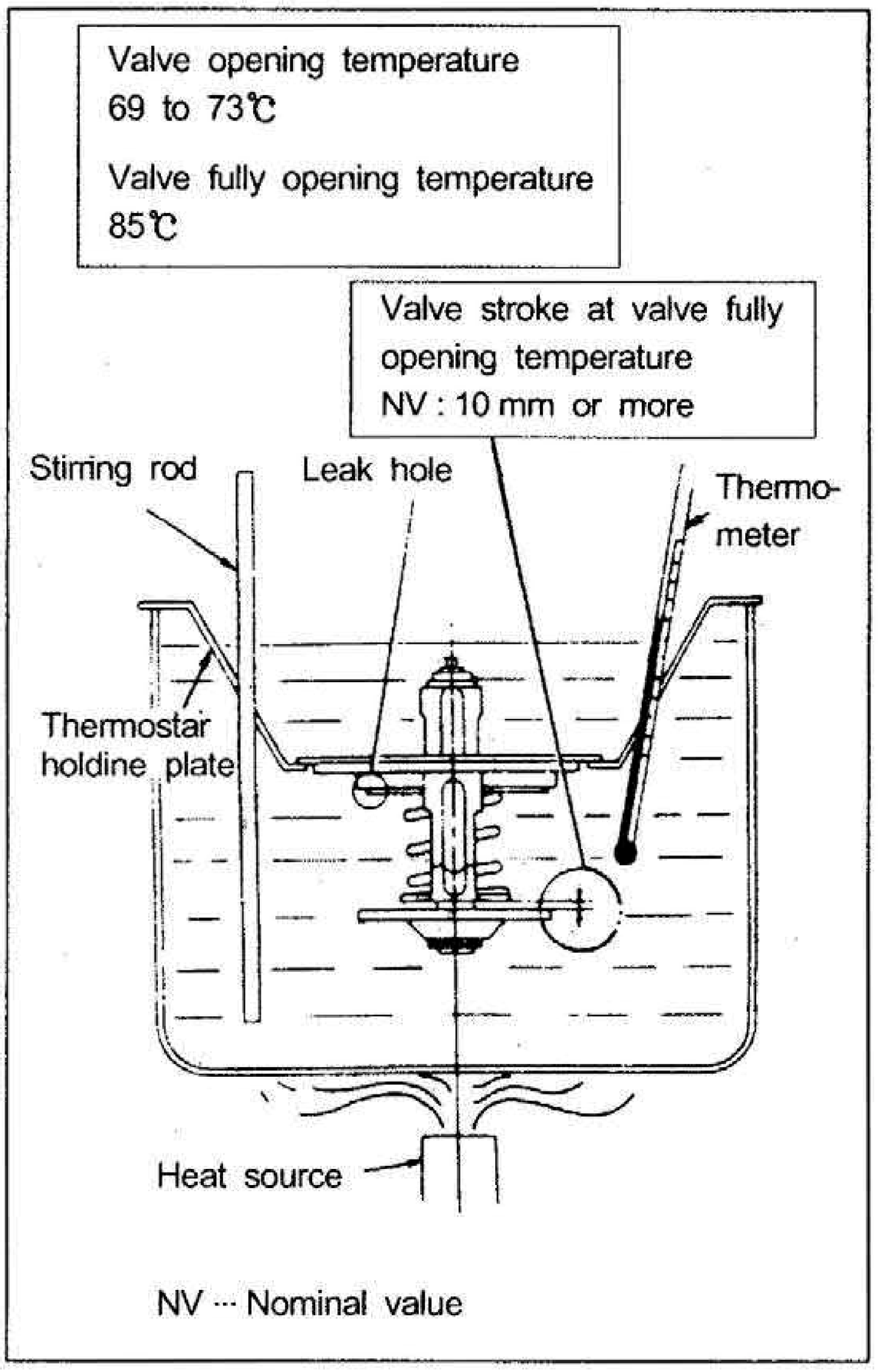
Keep this condition for about five minutes and check to ensure that the valve is open.

(2) Raise the water temperature further to 95℃.

Keep this condition for five minutes and measure the lift of the pellet.

(3) Lower the temperature to less than 65℃ and check to see that the valve is held tightly against the valve seat.

Check all of the above items. If any of the items fails, replace the thermostat



NOTE : The two thermostats in normal control trucks differ in valve opening temperature. The valve opening temperature is stamped on the thermostat.

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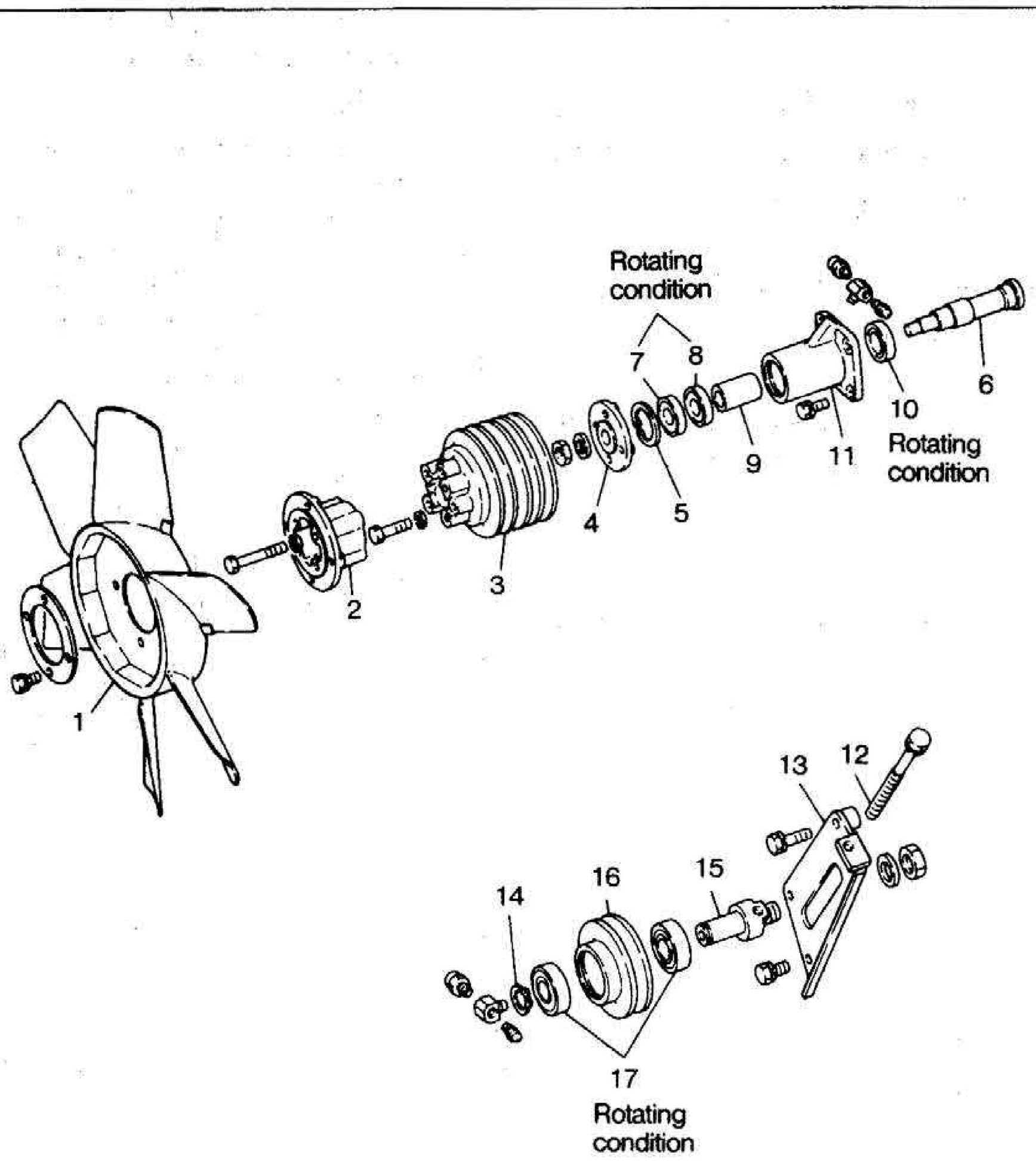
10-3 FAN DRIVE AND TENSION PULLEY

10-3-1 Disassembly and Inspection



1 Fan
2 Spacer
3 Fan pulley
4 Coupling flange
5 Snap ring
6 Fan drive shaft
7 Ball bearing(one-side seal)
8 Ball bearing
9 Spacer
10 Ball bearing
11 Bearing case
12 Adjusting bolt
13 Tension pulley bracket
14 Snap ring
15 Tension pulley shaft
16 Tension pulley
17 Ball bearing

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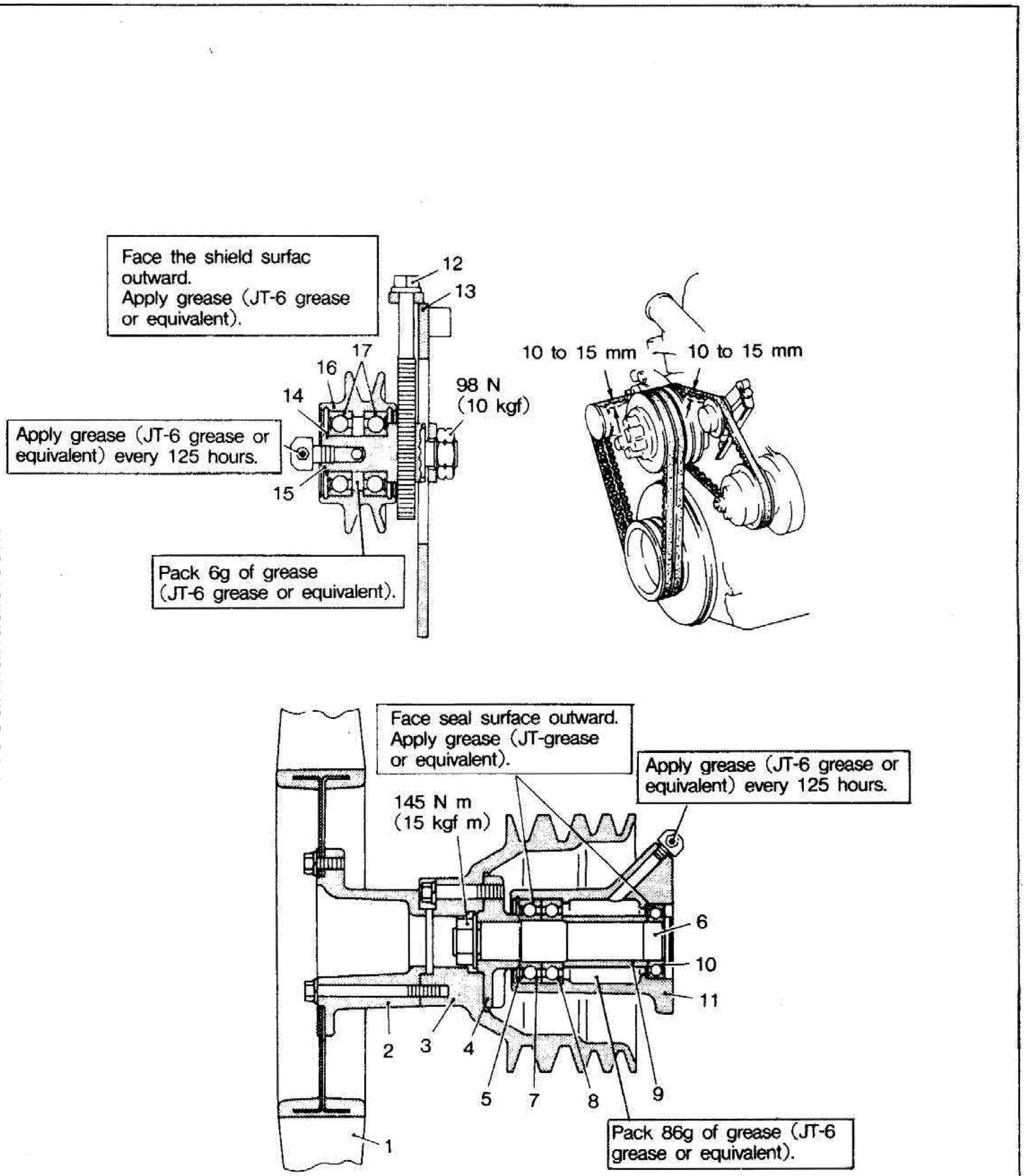
10-3-2 Reassembly



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