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Water Pump Overhaul After Removal

- 1) Remove 7/16 set bolt.
- 2) Press flange (1) and bearing (2) down until the flange hits the housing (3). Then press the center shaft (4) through the flange and out of the water pump.
- 3) Now clean the housing with special attention to the area between the bearing and seal. Also the drain hole. Now is the time to repaint the housing, if you wish to.
- 4) Remove the new bearing from the kit. Put it on the housing with the long end down, towards the impeller side. Press the bearing in by the outer housing. Do not press on the shaft as this may damage the bearing. A 13/16" or 7/8" deep well socket works well for pressing. Press in until the bearing is flush.
- 5) Now you have to press the seal (5) onto the bearing shaft, large end first. Press this down until the outer flange seats onto the pump housing until the outer portion contacts the housing. Then about 1/8" more. Now press down the outer portion 1/8", then the inner until the outer is seated. At this point the top should be 7/16" above the flange. (see fig. 2).
- 6) Now press on the impeller (6), pressing against the shaft until the proper clearance (at B in fig. 1) is obtained: .020" to .025".
- 7) To press on the drive flange (1) you have to support the impeller end of the shaft (4). A 3/8" nut works well for this. Support the shaft and press the drive flange down to the installed height of 3.523" (at A in fig. 1).

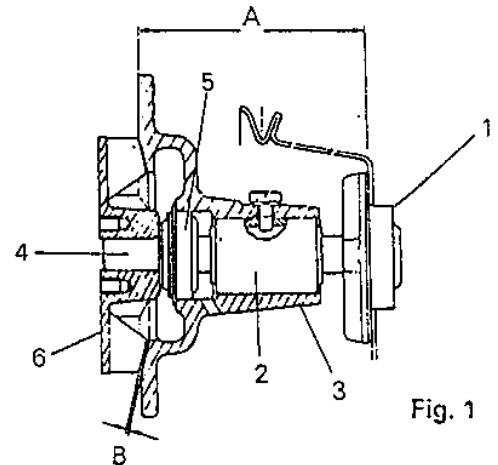
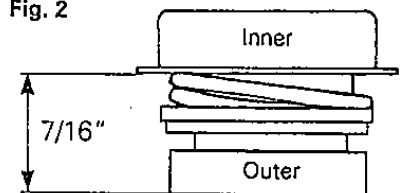


Fig. 1

- A Dimension from front face of pulley hub to mounting face of the water pump body.
2.25 litre models: 89.48mm +/- .25mm
(3.523" +/- .010")
- B Check clearance between impeller vanes and pump body with feeler gauge.
.05mm to .63mm
(.020" to .025")

Fig. 2



The new style water pump seal seals against itself, not the impeller. It is essential that the seal be pressed down from the bearing shaft to the housing. The distance from the top to the seal flange must not vary after installation. The way to do this is to press down the inner section.

1 800 403-7591

or (802) 879-0032 • Fax: (802) 879-9152
email@roversnorth.com • www.roversnorth.com

Rovers North, Inc. • 1319 VT Rt. 128 • Westford, Vermont • 05494-9601 USA



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