P-10 Master kit instructions



Step 1: Insert the white ceramic & black rubber seal of 69089 – Moisten with Simple Green or soap and insert into the Pump(8). Be sure that the seal is seated correctly and pushed all the way down into the pump. A 1/2" nut driver or 3/4" wooden dowel can be used to seat the seal. Run your finger around the seal when seated, it should be flush with the casting (Fig 1 & 2)

Note: The white ceramic has a groove on one side. Ensure the grooved side is facing down onto the seal. The ceramic spacer must be installed at the same time as the seal.





Fig. 2

For service assistance/information call 410.604.3800 and ask for Paragon Service Department. After hours, go to www.groco.net.



Step 2: Place the pump (8) carefully onto motor shaft and secure it to the motor (12) with the 2 hex bolts(9) and 2 lockwashers(10) using a wrench (Fig 3). Double check to make sure that you don't install the pump upside down. Refer to Exploded diagram on on pg 1.

Fig. 3



Fig. 4



Step 4: Attach the spring to the brass portion of the Seal Assy (7) by twisting the LARGE END of the spring on to the brass.

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Step 5: By hand, gently place the brass & spring onto motor shaft and twist it until you feel it aligned with the spacer/seal below it. This seats the seal and the brass over it. You should feel it seat when the seal is aligned properly.

Fig. 6

Step 6: Using snap ring pliers, place the snap ring (6) onto motor shaft. Using a 3/8" piece of copper tubing press firmly down on the snap ring and set it onto place on the groove in the shaft.



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Rotor smooth side up

Step 7: Place Rotor (4) onto motor shaft making sure the insert is aligned with the flat portion of the shaft and "smooth" side of the rotor is facing UP

Rotor down side





Step 8: Place 8 Vane Pump Blades (5) into rotor slots being certain the rounded edge of the blade is facing out as shown













Step 10: Using the .004 Feeler Gauge, check the fit of the rotor in the casting. Move the feeler gauge between the rotor and casting (Fig 15) It should be tight but enough that the feeler gauge can move between the rotor and casting. To ADJUST the alignment, tighten/loosen the bolts holding the casting to the motor (Fig 16) This may take some time too get the proper feel for a good alignment



Step 11: Place the pump cover plate(1) on and tighten the three bronze bolts(2)

This concludes the P-10 Master Kit installation.