



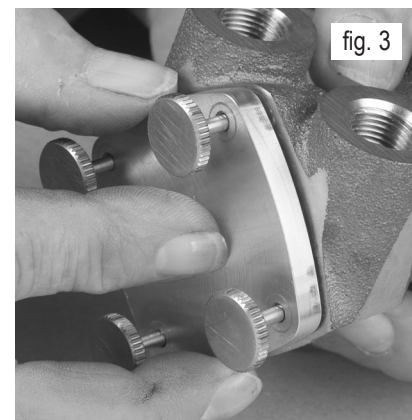
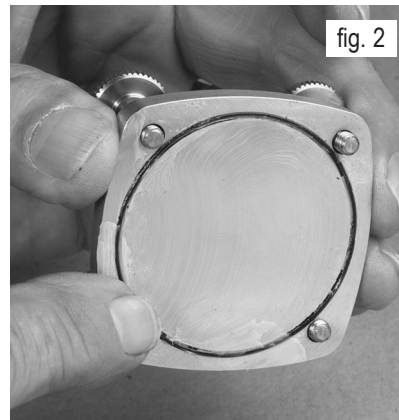
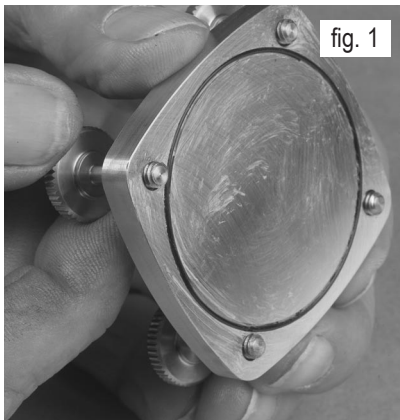
### INSTRUCTIONS for INSTALLATION and REMOVAL, GENERAL

MMI Back Plate Replacement kits include a back plate, two o-rings, and four stainless captive thumb screws. The kits are designed with o-ring seals and thumb screws to facilitate removal and replacement. These features are particularly useful during on-boat maintenance, where access is usually limited. The thumb screws are also designed to be "captive" within the plate, so that they will not drop and fall into the bilge. The kits will fit on all MMI Flexible Impeller Pumps, and Oberdorfer Model 202M3 and M7 pumps.

**NOTE:** The back plate mounting holes in current MMI Flexible Impeller Pumps have been modified by removing the first two threads in each hole. During installation, the tips of the thumb screws in these kits will fall into the unthreaded part of the holes, which helps to orient the back plate, and minimize the chances of disturbing the o-ring during installation.

#### INSTALLATION OF the MMI BACK PLATE KIT

- 1) Remove the original back plate and clean the rear surface of the pump housing. If your housing is not flat enough to allow the o-ring to seal, use the gasket that is provided in the kit. Gasket sealer between the housing and gasket may be required.
- 2) Turn the thumbscrews into the back plate, until the unthreaded part (just below the head of the thumb screw) clears the threads in the outside face of the back plate. In this configuration, the tips of each thumb screw will protrude approximately 1/6" beyond the forward face of the back plate to help find the retaining screw holes in the housing (fig. 1).



- 3) Inspect the o-ring, to be sure that it is securely seated within its groove in the back plate, and apply a small amount of general purpose grease over the o-ring (fig.2)
- 4) Carefully orient the back plate over the back of the pump until the thumb screws line up with the holes, and sequentially tighten all the thumb screws (fig. 3)

#### REMOVAL OF the MMI BACK PLATE KIT:

- 1) Unthread each thumb screw sequentially until the back plate is free from the pump housing.

**NOTE:** Use care to avoid unthreading any of the thumb screws completely out of the back plate. If any of the screws are accidentally turned free from the plate during removal, simply rethread them back into the plate as per step two above.

- 2) Inspect the o-ring to be sure it is in good condition, and reinstall in the o-ring groove in preparation for reinstallation.