SEAL REPLACEMENT INSTRUCTIONS FOR FRAME MOUNTED AND HYDRAULIC STANDARD PRO 5 MODELS

PUMP REPAIR KIT

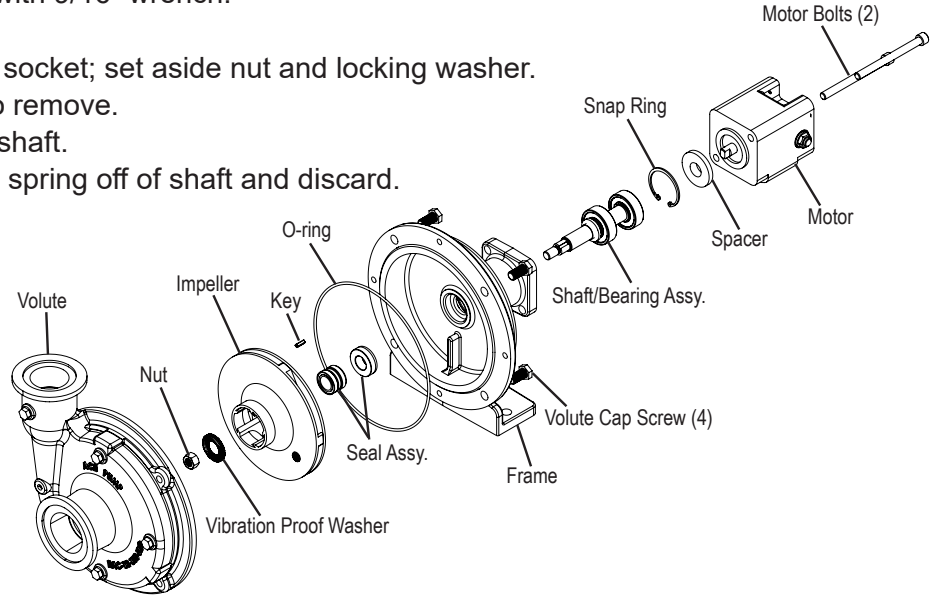
This repair kit includes the shaft seal and O-rings required to replace the pump shaft seal.

Pump Series	Severe Duty Seal
Pro 5 Standard Series: FMCSC-125, FMCSC-155F, FMCSC-225F, FMCSC-255F	RK-FMCSC-PRO5

REPAIR KIT INSTALLATION

DISASSEMBLY:

1. Remove (2) hex head motor screws holding motor to pump frame.
2. Remove hydraulic motor.
   Note: Tap with a non-marring hammer if necessary.
3. Remove support spacer from back of bearing bore.
   Note: Observe spacer orientation.
4. Remove snap ring from behind rear pump bearing.
5. Remove (4) volute cap screws with 9/16” wrench.
6. Remove volute and O-ring.
7. Remove impeller nut with 9/16” socket; set aside nut and locking washer.
   Note: Turn counterclockwise to remove.
8. Remove impeller and key from shaft.
9. Slide rotating seal member with spring off of shaft and discard.
   Note: Observe seal orientation for installation of new seal.
10. Remove shaft/bearing assembly from frame by pressing or tapping (non-marring hammer) from impeller end.
11. Use a screw driver to pry stationary seal member from seal bore of frame and discard.

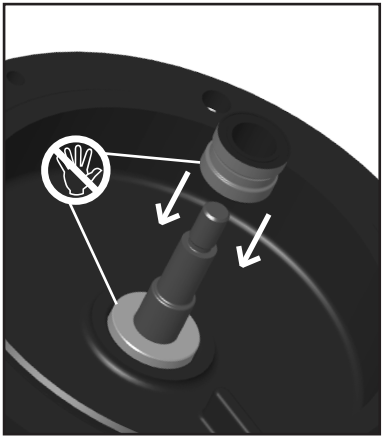


ASSEMBLY:

1. Stand frame on motor mount flange with seal bore pointing up.
2. Clean and inspect mounting frame seal bore for gouges that may prevent proper sealing.
3. Push new stationary seal member into frame seal bore by hand.
   Important: Avoid touching seal face by covering it with a soft, clean cloth during installation.
   Seal Orientation: Polished seal surface should face up with grooved side towards bearing bore. (See illustration)
   Lubrication: Use supplied P-80 Emulsion on O-ring to aid installation.
4. Press or tap shaft/bearing assembly into frame from motor flange end.
   Note: Use a non-marring hammer and soft wood block to prevent shaft or spline damage.
5. Install rear snap ring into frame bearing bore.
6. Push rotating seal member over shaft by hand until black polished face seats against stationary face in mounting frame. (See illustration)
   Note: Avoid touching the seal face.
   Lubrication: Use supplied P-80 Emulsion on bellows of rotating seal member and shaft to aid installation.
7. Insert key in keyway.
8. It is recommended to apply anti-seize compound (not included) to impeller seat area and key to facilitate impeller removal in the future.
9. Install impeller on shaft.
10. Install new vibration proof washer and stainless impeller nut.
    Note: Apply supplied Nut Lock on threads and tighten to 20 ft-lb (27 N-m).
11. Install volute o-ring over boss on frame. Stretch O-ring over boss - do not roll.
12. Install volute.
13. Apply supplied nut lock to (4) volute cap screws, install, and tighten to 20 ft-lb (27 N-m). Allow nut lock to cure for a minimum of 10 minutes before filling pump.
14. Apply high speed coupling grease to internal tang of pump shaft.
15. Place support spacer in frame behind back snap ring with the larger diameter facing bearing.
16. Install motor aligning shaft tang into pump drive shaft slot.
17. Install (2) motor socket head cap screws with washers and tighten to 20 ft-lb (27 N-m).



Step 3



Step 6