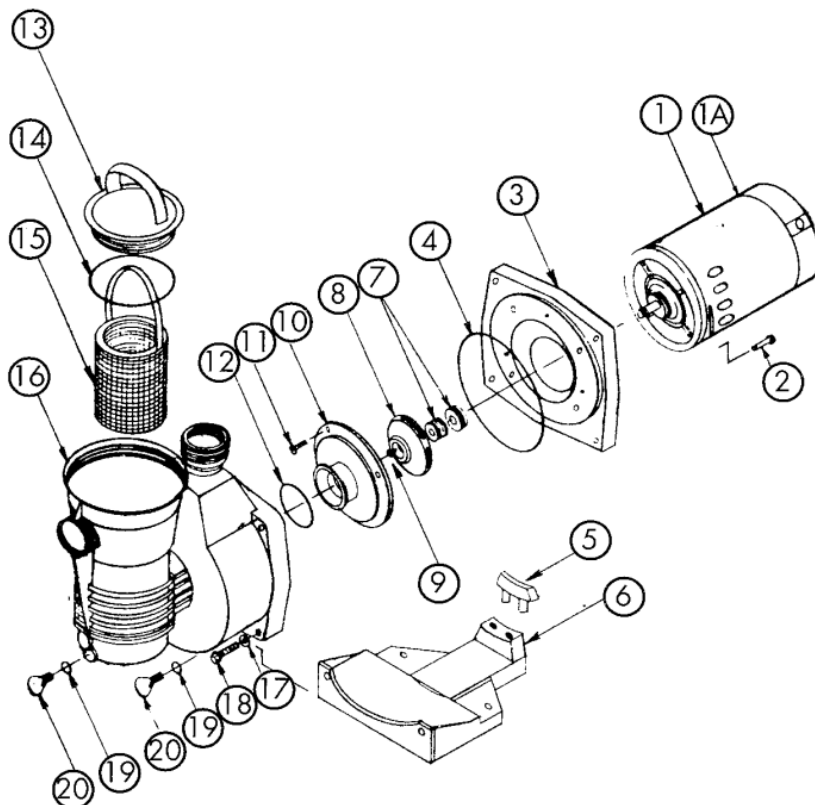




REBUILD KIT

COMPATIBLE WITH

PENTAIR® Pinnacle™ Pumps



SHAFT SEAL CHANGE INSTRUCTIONS:



⚠ WARNING

IMPORTANT SAFETY INSTRUCTIONS PLEASE READ AND FOLLOW ALL INSTRUCTIONS When servicing electrical equipment, basic safety precautions should always be observed including the following. Failure to follow instructions may result in injury. A. **WARNING** – To reduce risk of injury, do not permit children to use this product. B. Disconnect all electrical power service to pump before beginning shaft seal replacement. C. Exercise extreme care in handling both the rotating and the stationary sections of the two-part replacement seal. Foreign matter or improper handling will easily scratch the graphite and ceramic sealing surfaces.

REAR ASSEMBLY REPLACEMENT:

This assembly includes the motor, seal, seal plate, impeller and diffuser, and may be replaced in minutes without disturbing piping or the pump support bolts.

- 1- Disconnect power supply connections to the pump motor terminals.
- 2- Disconnect bonding wire from the lug on the pump motor.
- 3- Remove the four cap screws from the FRONT of the pump.
- 4- Slide out rear assembly and pull away from front housing.

REPLACEMENT:

- 1- Clean the rear of pump housing being certain to remove all debris from the o-ring chamfer.
- 2- Inspect the large housing o-ring for nicks and cuts and replace if damaged. Clean the o-ring and apply silicone lubricant. Install the o-ring on the seal plate by stretching it slightly.
- 3- Install the power end assembly into the pump housing.
- 4- Rotate the power end if needed while installing the four cap screws in the front of the pump. CAUTION: The four cap screws must be tightened alternately and evenly until the housing and the seal plate are in full contact. The cap screws squeeze the o-ring in the chamfer to assure a leak-proof seal.
- 5- Connect the bonding wire to the motor lug.
- 6- Connect the power supply leads to the pump motor terminals.

MOTOR AND SEAL REPLACEMENT

1

REMOVE DIFFUSER

2

REMOVE IMPELLER

3

REMOVE OLD SEAL

4

REMOVE OLD SEAT

4A

REMOVE OLD MOTOR

WARNING

Before starting read the entire servicing section of this manual for important precautions and instructions. The seal assembly consists of two parts, each with a specially polished face. Handle with care.

1

Disassemble the diffuser and diffuser mounting plate by removing the three No. 8 screws.

2

If so equipped, remove left hand screw in center. Remove the impeller by turning it counterclockwise when facing it while holding the shaft with a screwdriver. (Remove cap covering the rear of the motor shaft to expose slot for the screwdriver or wrench.)

3

Grasp seal rotating member with fingers and pull off the shaft. If unable to remove, lubricate with soapy water to reduce friction.

4

Using a screwdriver, lightly pry stationary seal seat out of bore, being careful not to damage seal plate.

4A

On motor failures only - remove four bolts holding motor to seal bracket.

8

INSTALL DIFFUSER

7

INSTALL IMPELLER

6

INSTALL NEW SEAL

5

INSTALL NEW SEAT

4B

INSTALL NEW MOTOR

Assemble the diffuser to the seal plate using the No. 8 screws.

Install impeller by turning clockwise while holding rear or shaft with screwdriver. The seal rotating member will be properly positioned when the impeller is tightened against the shoulder of the shaft.

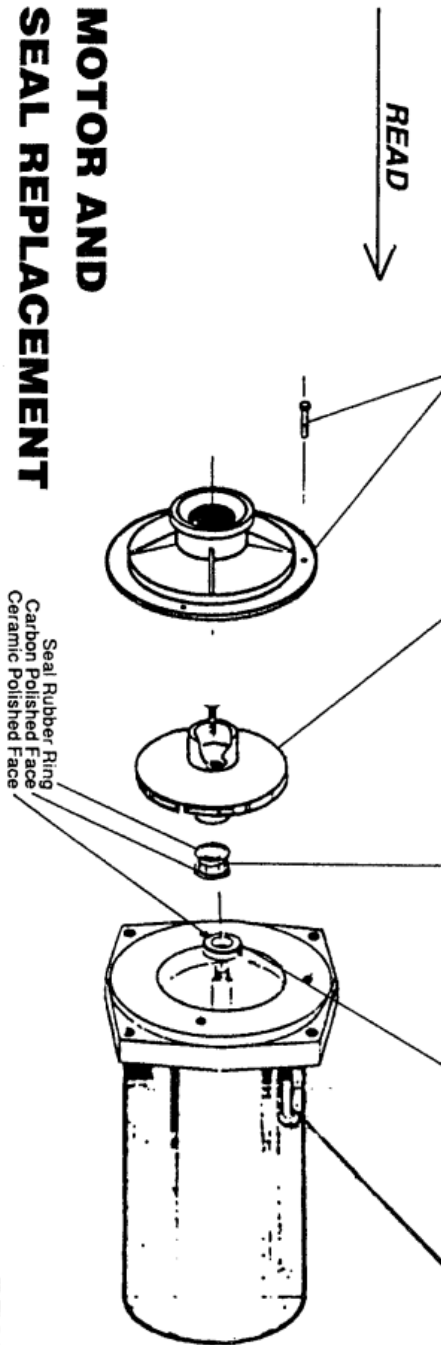
Install locking screw, if so equipped.

Clean polished surface of new seal rotating member and motor shaft with soapy water. With shaft still wet, slide rotating member onto shaft until rubber drive ring contacts shoulder. Polished surfaces of seal members must face each other.

Clean polished ceramic surface of seal seat, seal cavity and motor shaft using soapy water. Firmly press seal seat all the way into the seal cavity. CAUTION: DO NOT USE OILS OR OIL BASED LUBRICANTS ON SEAL OR MOTOR SHAFT, OR IMPELLER.

Attach the motor to the seal plate using four cap screws. IMPORTANT: The seal plate must be positioned so that one diffuser mounting hole is in the 12 o'clock position and the marking on the motor side of the seal plate is in the 11p position.

READ



READ

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