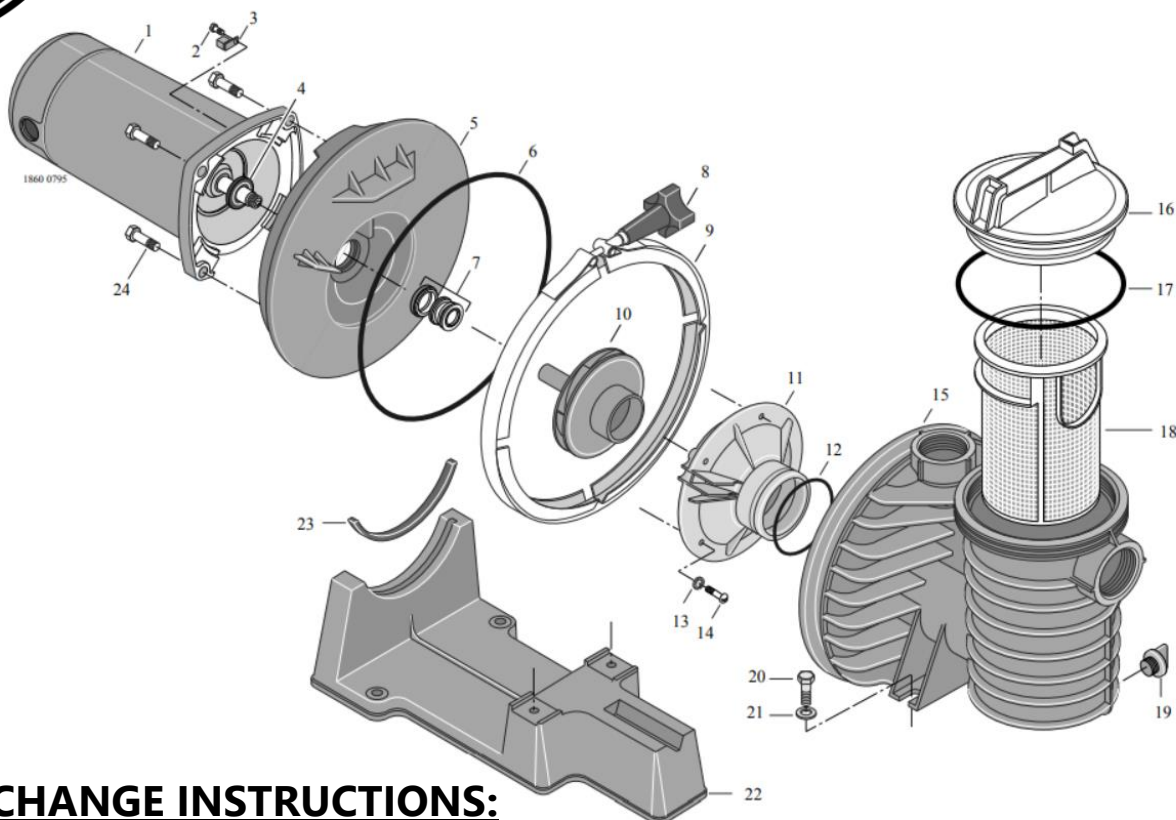




REBUILD KIT

COMPATIBLE WITH

PENTAIR® Dura-Glas II™ Max-E-Glas II™ 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.**

Pump Disassembly/Removing Old Seal Disconnect power to pump motor. Be sure gate valves on suction and return piping are closed before starting work. Release all pressure by opening all vents before starting work. 1. Drain pump by removing drain plugs on bottom of pump body and trap body. 2. Be sure there is no pressure in

trap body; remove cover (unscrew by turning counterclockwise). 3. Remove clamp holding pump halves together. Motor and seal plate assembly can now be pulled away from pump body. 4. Remove five screws and washers holding diffuser to seal plate. Remove diffuser. 5. Remove motor canopy. Being careful not to touch capacitor terminals, loosen capacitor clamp and move capacitor to one side. 6. Hold shaft with 7/16" open-end wrench on motor shaft flats. 7. Unscrew impeller from shaft (turn counterclockwise when facing it). NOTICE: On models with impeller screw: Remove impeller screw (left hand thread - turn clockwise) and gasket before removing impeller. Inspect gasket for damage, cracks, etc. Replace if damaged. 8. Pull rotating member of seal off of impeller sleeve; clean sleeve. 9. Remove four screws holding seal plate to motor. 10. Place seal plate face down on flat surface and tap out ceramic seat. NOTICE: Do not force out heat sink insert (Key. No. 8, Pages 12-15) in pump manual. If insert has moved, pump will leak; see "Installing Heat Sink Insert," Page 10 in pump manual. 11. Clean seal cavity in seal plate and clean motor shaft. Pump Reassembly/Installing New Seal 1. Ceramic seat must be clean and free of dirt, grease, dust, etc. Wet outer edge of "O" Ring with small amount of liquid detergent; press ceramic seat into heat sink insert firmly and squarely with finger pressure (Fig. 5). 2. If ceramic seat will not locate properly, remove it, place face up on bench and reclean cavity. Ceramic seat should now locate. 3. If seat still will not locate properly, place a cardboard washer over the polished face and use a piece of 3/4" (19mm) standard pipe for pressing purposes. NOTICE: Be sure not to scratch or mar polished surface or seal will leak. 4. Remount seal plate on motor. Tighten bolts to 60-80 inch-lbs. (69-92 kg/cm) torque. 5. Apply a small amount of liquid detergent to inside diameter of rotating half of seal. 6. Slide rotating seal member, polished face last, over impeller sleeve until rubber drive ring hits shoulder. NOTICE: Be sure not to nick or scratch polished seal face; seal will leak if face is damaged. 7. Screw impeller onto shaft (clockwise); this will automatically locate seal in seal plate. NOTICE: On models with impeller screw: Install impeller gasket and lock screw (left-hand thread - turn counterclockwise). Torque lock screw to 50-55 inch-lbs. (57.6-63 kg/cm). 8. Mount diffuser on seal plate; tighten screws to 10-14 inch-lbs. (11.2-16.1 kg/cm) torque. 9. Assemble motor and seal plate to volute; be sure clamp is properly seated. NOTICE: Clamp knob can be located in any position around volute; if it is moved after assembly, tighten knob while tapping around clamp to assist sealing. Do not move clamp while pump is full of water. Hazardous pressure. Release all pressure from pump and piping system before working on pump or attempting to adjust or remove clamp. Clamp may blow off of pump if adjusted under pressure. 10. Prime pump according to instructions on Page 7 in pump manual. Installing Heat Sink Insert: 1. If the heat sink insert moves or shifts during seal removal, remove and replace with a new insert to prevent leakage. Removal: 1. Remove two screws holding heat sink insert to seal plate. 2. Place seal plate face down on bench and use a short length of 1/2" pipe to push insert out of seal plate. 3. Remove "O" Ring from insert cavity in seal plate and discard. NOTICE: Do not scratch "O" Ring seat in seal plate. Installation: 1. Clean heat sink insert cavity in seal plate, including "O" Ring seat (step in seal plate cavity). NOTICE: Do not scratch "O" Ring seat surface. 2. Lubricate new "O" Ring with silicone grease and insert into seat in seal plate. NOTICE: To prevent leaks around seal, do not install "O" Ring by mounting on heat sink insert and then pushing insert into seal plate cavity. "O" Ring will roll out of position and leak if it is mounted on insert first. 3. With thumbs near center of insert, line up screw slots in insert with screw holes in seal plate; push insert into seal plate cavity. 4. Replace two screws in insert and tighten.

THESE INSTRUCTIONS ARE FOR INFORMATIONAL PURPOSES ONLY. THE MANUFACTURER ASSUMES NO LIABILITY FOR ANY INJURY OR DAMAGE OF PROPERTY. ANY USE OF IMAGES, BRAND NAMES, OR LOGOS ARE FOR THE PURPOSES OF DEMONSTRATING COMPATIBILITY ONLY.

ALL PARTS ARE MADE IN THE UNITED STATES OR SOURCED FROM US SUPPLIERS.

THANK YOU FOR SUPPORTING A SMALL AMERICAN BUSINESS!