Parts List

Components Supplied by EPI
(1) Pinnacle Pump Motor (if motor is being replaced)
(1) #200 Mechanical Seal
(1) Seal Bracket O-Ring
(1) Diffuser Seal

Tools Required (supplied by others)
9/16” Wrench or Socket
1/2” Open-End Wrench
#2 Phillips Head Screwdriver
Flathead Screwdriver
1/4” Nut-driver (optional)

Replacement Instructions

1) Turn off power to the pump.
2) Start by closing all valves associated with the pump so that the pump is completely isolated from the water in the pool.
3) Drain as much water as possible from the pump. Close all ball valves associated with the pump. Remove the drain plug at the bottom of the pump basket.
4) Remove the four pump housing mounting bolts (closest to the front of the pump) with a 9/16” wrench.
5) Pull the motor and seal bracket assembly away from the pump housing.

6) On the back end of the motor there is a small cap at its center. This cap is an access to the back end of the motor shaft. Use a flathead screwdriver to pry off the cap.

7) Use a 1/4” nut driver or screwdriver to remove the 3 screws holding the diffuser in place and then pull the diffuser off of the seal bracket.
8) There is a reverse thread screw locking the impeller onto the motor shaft. Use a flathead screwdriver to remove the screw. Turn the screw **clockwise** to remove.

9) Use the 1/2” open-end wrench or the flathead screwdriver (depending on the motor shaft interface) to grab the motor shaft at the back of the motor. Grab the impeller and spin it counter-clockwise to unthread the impeller from the motor shaft.
10) Pull the spring-loaded section of the mechanical seal off of the motor shaft.

11) Unthread the 4 mounting bolts that hold the seal bracket to the motor and pull the seal bracket off of the motor.

12) From the backside of the seal bracket, pop the ceramic ring section of the mechanical seal out using a flathead screwdriver. Make sure to remove the black rubber seat of the seal as well.
13) If you are replacing the motor, make sure that the motor’s internal wiring is appropriate for the incoming power supply. There will be wiring instructions on the motor’s spec plate (low voltage=110V & high voltage=220V). If you are working on the Remote Water Quality Circulating Pump, then take the twist lock plug off of the old motor and install it on the new motor.

14) Place the new ceramic ring section of the mechanical seal into seal bracket. Make sure that ring is seated all the way down into the bracket. You can use a silicone or Teflon based lubricant on the rubber seat to make this process easier. DO NOT use a petroleum-based lubricant (Vaseline).

15) Put the seal bracket onto the motor, making sure the orientation is correct. The top of the seal bracket will be labeled and the motor will be positioned so that the “hump” on the motor is facing up. If you are installing a new motor, make sure to remove the shaft cap off of the back of the motor.

16) Install the 4 motor mounting bolts through the motor into the seal bracket tighten down with a 9/16” wrench or socket.

17) Place the new spring-loaded section of the mechanical seal onto the motor shaft. Make sure that the raised plastic edge of the spring-loaded piece is seated against the ceramic ring. The metal-ringed face of the spring-loaded piece should be facing out.

18) Grab the back of the shaft of the motor with a 1/2” open-end wrench or flathead screwdriver (depending on the motor shaft interface). Thread the impeller onto the shaft of the motor. Thread the impeller locking screw back into the motor shaft. Again, this is a reverse thread screw; thread it into the shaft counter-clockwise.
19) Replace the diffuser and its 3 mounting screws. The diffuser can only sit against the seal bracket in one position. Take the old diffuser seal off and place the new one on. Remove the old seal bracket o-ring and place the new one on.

20) Insert the motor and seal bracket assembly into the pump housing and insert the four pump housing mounting bolts. Tighten down with a 9/16” wrench or socket.

21) Open all ball valves and inspect for leaks. Call Customer Service with any questions (800-910-2714).