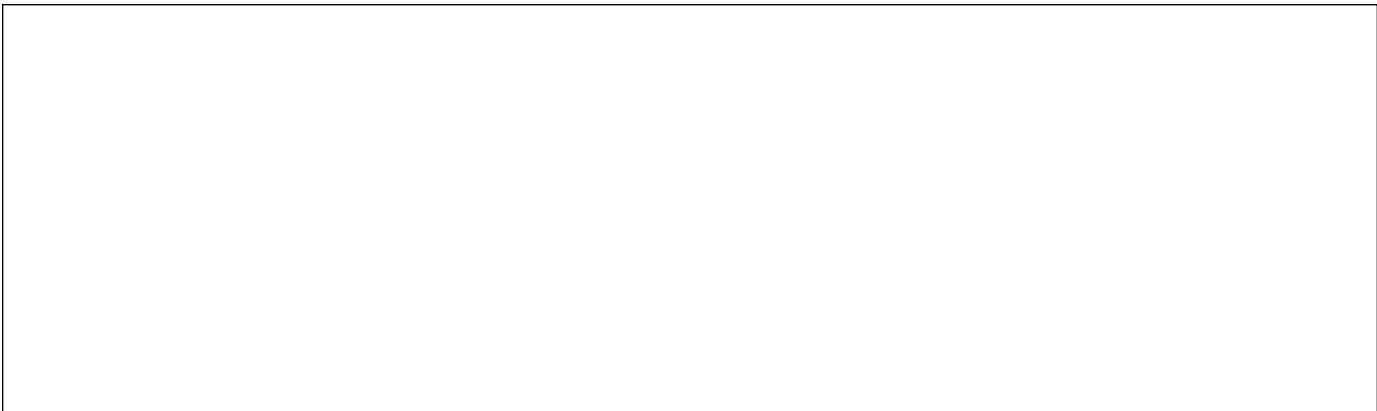
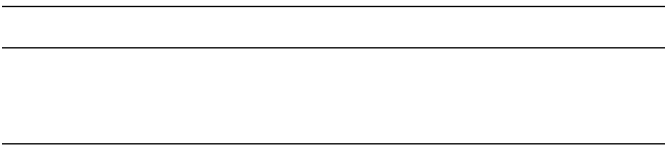




**HYDROMATIC®**

# INSTALLATION

WARN



## E LECTRICAL

**⚠ WARNING** Hazardous voltage. Can shock, burn, or kill. When installing, operating, or servicing this pump, follow the safety instructions listed below.

1. DO NOT splice the electrical power cord.
2. DO NOT allow the plug on the end of the electrical cord to be submerged.
3. DO NOT use extension cords. They are a fire hazard and can reduce voltage sufficiently to prevent pumping and/or damage motor.
4. DO NOT handle or service the pump while it is connected to the power supply.
5. DO NOT remove the grounding prong from the plug or modify the plug. To protect against electrical shock, the power cord is a three-wire conductor and includes a 3-prong grounded plug. Plug the pump into a 3-wire, grounded, grounding-type receptacle. Connect the pump according to the NEC or CEC and local codes.

For automatic operation, plug or wire the pump into an

## PUMP DISASSEMBLY

### Impeller Replacement

1. Pull the plug, disconnect the plumbing and remove the pump from the sump or pump pit.
2. Disinfect the pump and cord.
3. Remove the oil fill plug from the top of the pump, turn the pump upside down, and drain the oil from the motor housing.
4. Remove 4 bolts holding the upper motor housing to the volute.
5. Tap around the volute with a mallet to loosen it; lift the pump off the volute.

NOTE: Disconnect the motor leads from the power cord before completely removing the motor cover from the motor.

6. Hold the motor shaft with a screwdriver in the slot on the end of the motor shaft and unscrew the impeller by turning it counterclockwise. Remove the impeller and clean it.
7. If no more service is needed, go to Pump Reassembly below.

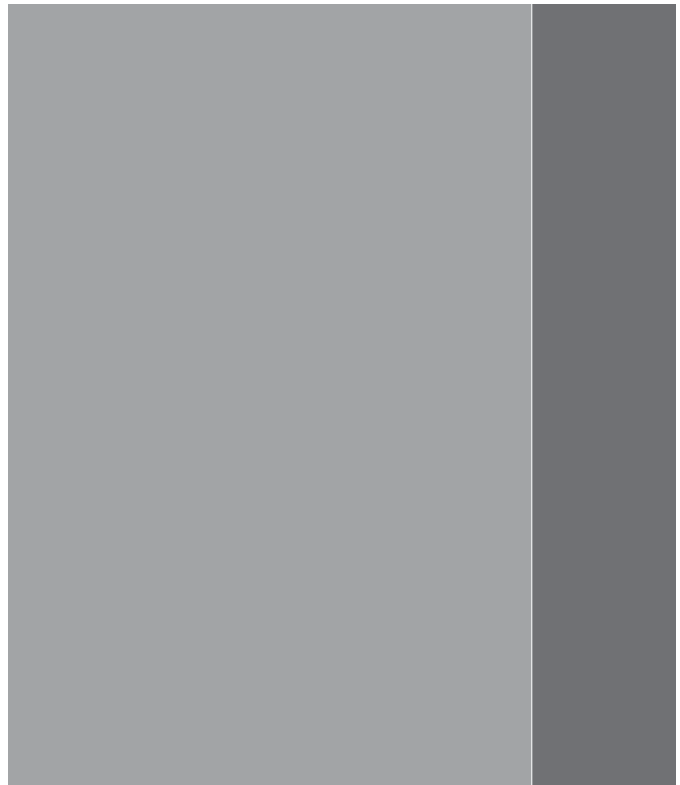
### Seal Replacement

NOTE: Do not touch the faces of the new seal with your hands. Keep the seal faces free of dirt, grit, or grease during assembly.

1. Follow Steps 1 through 6 under Impeller Replacement , above.
2. Slide the rotating half of the seal off of the motor shaft. Be careful not to scratch or mar the shaft.
3. Remove four screws from the top of the motor and pull the motor straight up to remove it from the seal plate.
4. Tap the stationary half of the seal out of the seal plate.
5. With a cardboard washer over the carbon face of the seal, press it straight down into the seal cavity in the seal plate.
6. CAREFULLY replace the motor in the seal plate, sliding the motor shaft through the seal without nicking or scratching the seal surface.
7. Replace the 4 bolts in the motor.
8. Slide the rotating half of the seal onto the shaft, carbon face first, being careful not to scratch, nick or chip the seal face.
9. Proceed to Pump Reassembly , below.

### Pump Reassembly

1. Apply Loctite to the impeller and shaft threads (NO Loctite on the seal!) and then screw the impeller onto the shaft (turn clock-wise). Hold the shaft with a screwdriver while you tighten the impeller.
4. Reattach the motor leads to the cord leads.
5. Reassemble the motor cover, motor and seal plate, and volute.
6. Fill the pump with about 1/2 gallon of clean dielectric oil (Part No. U197-8A).  
NOTE: Be sure the oil level is 1/4 above the top of the motor. Allow air space for expansion when the motor warms up.
7. Replace the oil fill plug. The pump is ready for service.



### Check Pump Ground

1. Set the meter to Rx100.
2. Touch one lead to the grounding pin and the other lead to one flat prong of the plug. Repeat for the other prong.
  - a. Reading should be infinity for both prongs.
  - b. If the reading is anything other than infinity, the stator must be removed, dried and rechecked.

A reading of 0 indicates a dead short. Return the pump to an authorized Hydromatic distributor, service center or place of purchase.

### Check Operation

Replace the pump in the sump, connect the plumbing, and then fill the sump to run the pump through one complete operational cycle. Failure to make this operational check can lead to flooding if the pump requires further attention.



## TROUBLESHOOTING-REMEDIES

**⚠ WARNING** Sudden Starts. If the power is on to the pump when thermal overload resets, the pump may start without warning. If you are working on the pump, you may get an electrical shock or the impeller may catch fingers or tools. Disconnect the power before servicing the pump.

- A. Pump fails to operate:
1. Check to be sure that power cord is securely plugged into outlet or securely wired into controller or switch box.
  2. Check to be sure you have electrical power. Be sure that the piggyback plugs are tight.
  - 3.
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## Limited Warranty

HYDROMATIC warrants to the original consumer purchaser ( Purchaser or You ) of HYDROMATIC Sump Pumps, Effluent Pumps, Sewage Pumps (other than 2-1/2 ), and Package Systems, that they will be free from defects in material and workmanship for the Warranty Period of 36 months from date of manufacture.

Our warranty will not apply to any product that, in our sole judgement, has been subject to negligence, misapplication,

