

# Aqua Phase

## Service Guide - Pumps & Valves

**Warning: Unplug the machine from the power supply before performing any service procedures.**

### **Pump Impeller Inspection Procedures**

It is recommended that you contact the factory at 800-208-9274 before attempting to clear debris from the pump impeller. Removing debris from the pump impeller requires disassembly of the pump.

1. **Unplug** the machine from the power supply.
2. Disconnect the electrical wires at the pump.
3. Disconnect the hose going to the inlet of the pump.
4. Disconnect the hose or piping from the pump outlet.
5. Remove the pump mounting bolts from the underside of the machine.
6. The pump is composed of two components: the pump head and the pump motor.
  - You do not need to remove the pump head from the pump motor.
  - You do need to take the pump head apart.
7. Remove the bolts holding the pump head together.
8. You may need to tap (hit) the pump head assembly to free the two halves.
9. Inspect the pump impeller.
  - Check the impeller housing and the inlet elbow for any obstructions, and remove debris if necessary.
10. Inspect the pump seal/gasket. Replace if damaged.
  - If your pump has an "O-Ring" seal, you may order a replacement from the factory.
  - If your pump has a gasket type seal, replace the seal using TRV™ water type gasket seal material.
11. Reassemble and reinstall the pump.

### **Valve Inspection Procedures**

These valve inspection procedures can be done while the valve is still piped in. See the technical data sheet related to valves included with your operations manual. The technical data sheets provides assembly details.

- The **MAIN CHAMBER** solenoid valve is piped in-line after the pump outlet.
  - The **FILL** solenoid valve is located shortly after the Fill hose connection.
  - The **DRAIN** solenoid valve (if present) is located shortly before the Drain hose connection.
1. **Unplug** the machine from the power supply. Shut off the water supply.
  2. Remove the solenoid valve coil retaining cap/washer.
  3. Remove the solenoid electrical coil.
  4. Remove the four bolts from the solenoid top.
  5. Carefully, pull the solenoid top away from the solenoid body.
  6. Check for debris.
  7. Remove the rubber valve diaphragm. Inspect the diaphragm for damage (e.g., cracking, blistering). Replace if damaged.
  8. Check for debris on the valve seat and remove debris if present. Ensure the valve piston is free-moving.
  9. Reassemble the valve. Be certain to tighten the four bolts in an alternating manner.
  10. If problem remains, contact the factory.