If pumping a liquid other than water the pump should be flushed with water (if applicable) after each use.

Sealers and Teflon tape acting as a lubricant can cause cracked housings or stripped threads due to over tightening. Care should be used when applying sealers; the tape may enter the pump inhibiting valve action, causing no prime or no shut-off conditions. Failures due to foreign debris are not covered under warranty.

Before freezing conditions occur, the pump must be liquid free or winterized with proper anti-freezing chemicals.

If mounting the pump in an outdoor environment the pump should be shielded from water, dust, sunlight and wash down spray.

Risk of an electrical shock!

When wiring electrically driven pumps, follow all electrical and safety codes, as well as the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA). Make certain the power source conforms to the pump voltage. Be sure all power is disconnected before installation.

The pump should be wired into an individual (dedicated) circuit, controlled with an UL/C-UL certified double pole switch rated at or above the fuse amperage indicated on the pump motor label.

On 115-volt AC pumps, the black wire lead is live or common, the white lead wire is neutral and the green/yellow is ground. On 230-volt AC pumps the brown wire lead is live or common, the blue wire is neutral and the green/yellow is ground.

Make use of a minimum 40-mesh strainer or filter in the pump inlet line will prevent foreign debris from entering the system. Failures due to foreign debris entering the pump will not be covered under the limited warranty.

Note: Inlet pressure must not exceed 30-PSI (2.1 bar) maximum.

**WARNING**

**DO NOT USE TO PUMP FLAMMABLE FLUIDS, GASOLINE, KEROSENE FUEL OIL, ETC. DO NOT USE PUMP IN AN EXPLOSIVE ENVIRONMENT.**
DISASSEMBLE
Pump Housing (2)
1. Disconnect power to the pump motor.
2. Remove pressure switch cover (2) and remove wire leads from switch assembly.
3. Remove the four recessed pump-housing screws (1) located on top of the pump housing (9 or 10).
4. Remove the pump housing (9 or 10) from diaphragm/upper housing assembly.
Check Valve Assembly (3) – Follow steps 1 through 4.
5. The check valve housing and o-ring (3) located in the upper housing (9 or 10) or check valve assembly (4).
6. If in upper housing, remove by placing a small flat blade screwdriver between the upper housing and check valve housing and pry out.
Diaphragm/Cam Assembly (4)
7. Remove two deep set phillips head screws (4).
8. Rotate bearing cover (11), so access notch is aligned with cam bearing set screw, loosen set screw with a 1/8” Allen wrench and slide pump lower housing assembly from motor shaft.
9. After removing the cam bearing from the outer piston set, the inner pistons are now visible, remove both flat head screws. The outer piston set can now be removed from the two inner pistons.

TROUBLESHOOTING
Failure to Prime - Motor operates, but no pump discharge
• Restricted intake or discharge line. Open all line valves, check for “jammed” check valves, and clean clogged lines.
• Air leak in intake line.
• Punctured pump diaphragm.
• Defective pump check valve.
• Crack in pump housing.
• Debris in check valves.
Motor Fails to Turn On
• Pump or equipment not plugged in electrically.
• Loose wiring connection.
• Pressure switch failure.
• Defective motor or rectifier.
• Frozen cam-bearing.
Pump Fails to Turn Off after Discharge valves are Closed
• Depletion of available liquid supply.
• Punctured pump diaphragm.

PRODUCT WARRANTY
Flojet warrants this product to be free of defects in material and/or workmanship for a period of one year after purchase by the customer from Flojet. During this one year warranty period, Flojet will at its option, at no cost to the customer, repair or replace this product if found defective, with a new or reconditioned product, but not to include costs of removal or installation. No product will be accepted for return without a return material authorization number. All return goods must be shipped with transportation charges prepaid. This is only a summary of our Limited Warranty. For a copy of our complete warranty, please request Form No. 100-101.

REASSEMBLE
Diaphragm/Cam Assembly (4)
1. Place hex stem of inner pistons through the diaphragm and the openings in the bearing cover (11) and into outer piston set.
2. Center pistons in diaphragm and install two flat head screws.
3. Place cam bearing over outer piston set aligning locating pins into the holes of the cam bearing housing.
4. Install round head screws and tighten securely.
Bearing Cover (11)
5. Coat motor shaft with grease prior to installing the diaphragm/cam bearing assembly (4) to motor.
6. Attach cam bearing assembly to motor shaft by aligning shaft indentation with set screw and tighten securely. (Rotate access notches down toward the base plate.)
7. Install and tighten 2 phillips head screws to motor (torque to 25 inch pounds).
Check Valve Assembly (3)
8. Install check valve with new o-ring over the pistons in diaphragm, discharge side up (side with center circle up).
Pump Housing (9 or 10)
9. Place pump housing (9 or 10) over check valve and align the four screw holes with bearing cover.
10. Install the four phillips head screws (1) into the bearing cover and cross tighten securely.

SERVICE KITS
Kits are readily available to repair standard Duplex II series pumps. To insure that the correct kits are received the model number and all name plate data must be included with the order. Contact a FLOJET distributor or FLOJET directly to order the necessary repair kits.

RETURN PROCEDURE
Prior to returning any product to Flojet, call customer service for an authorization number. This number must be written on the outside of the shipping package. Place a note inside the package with an explanation regarding the reason for return as well as the authorization number. Include your name, address and phone number.