

Quad Reference

Disassemble

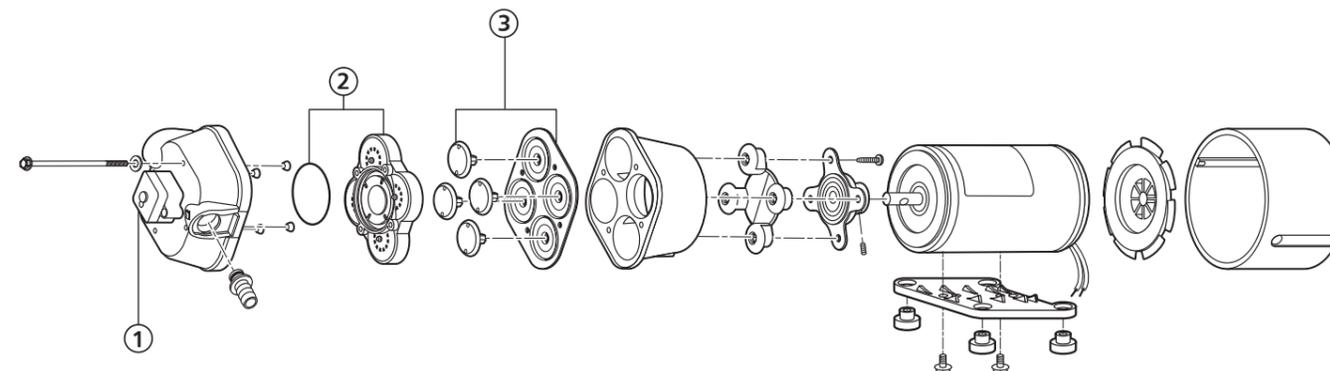
1. Remove power from the pump. Open discharge valve to relieve system pressure.
2. Push port clips back and disconnect plumbing from pump.
3. Loosen the four pump head screws, do not remove screws.
4. Rotate pump head until cam / bearing set screw is visible through drain notch.
5. Loosen cam / bearing set screw and slide pump off motor shaft.
6. Separate upper housing, lower housing and check valve assembly as required.
(Please ensure that ferrules are in place and not lost.)

Reassembly

1. Install new outer in lower housing with piston tops pointing away from motor.
2. Install new diaphragm in lower housing with the molded o-ring seals facing away from motor.
3. Insert each inner piston through the diaphragm into outer piston.
4. Turn each piston until fully seated.
5. Secure cam / bearing assembly to outer pistons using 18 inch pounds (2.0 Nm) of torque.
6. Lube the motor shaft with a small amount of light grease; slide lower housing on motor shaft. Align set screw with motor shaft indentation.
7. Set screw **MUST** be positioned over shaft indentation and secured tightly.
8. Check that ferrules are installed in upper housing and o-ring is properly seated.
9. Install check valve assembly in upper housing and fit upper and lower housings together.
10. Align pump head with motor and tighten four screws evenly using 25 inch pounds (2.8Nm) of torque.

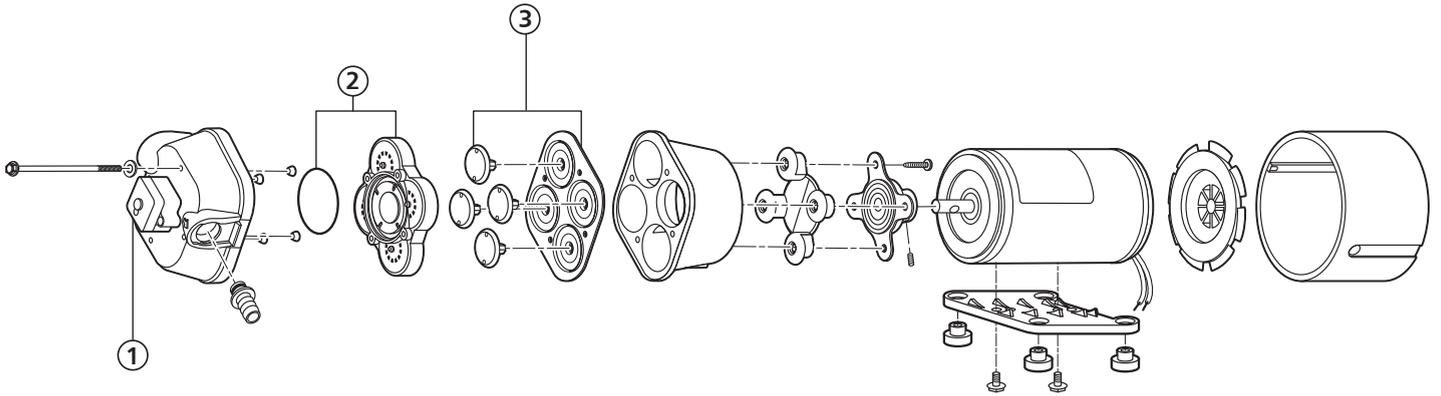
Switch Replacement

1. Remove power from pump. Relieve system pressure. Disconnect inlet and outlet hoses.
2. Remove pressure switch cover and disconnect power leads from switch.
3. Remove switch and switch diaphragm from pump by remove two switch mounting screws.
4. Replace switch diaphragm and switch **NOTE:** Check the old diaphragm for material mark located in the center of the new diaphragms. V is for VITON, and E is for EPDM. Select the correct material for the installation.
5. Do not over tighten switch mounting screws.



QUAD 4000 SERIES

PART NO.	PRESSURE SWITCH	CHECK VALVE	DIAPHRAGM
R4100143	NA	20407030	20403040
R4100343	NA	20407030	20403040
R4100500	NA	20407030	20403040
R4100502	NA	20407020	20403040
R4100507	NA	20407060	20403040
R4100522	NA	20407030	20403040
R4100523	NA	20407020	20403040
R4100524	NA	20407020	20403040
R4100525	NA	20407030	20403040
R4105524	NA	20407030	20403040
R4120242	NA	20407030	20403040
R4120243	NA	20407030	20403040
R4120252	NA	20407020	20403040
R4120253	NA	20407020	20403040
R4300142	02095103	20407030	20403040
R4300143	02095103	20407030	20403040
R4300242	02095109	20407030	20403040
R4300342	02095103	20407030	20403040
R4300343	02095103	20407030	20403040
R4300500	02095103	20407020	20403040
R4300501	02095103	20407020	20403040
R4300503	02095109	20407020	20403040
R4300504	02095103	20407020	20403040
R4300506	02095103	20407010	20403050
R4300519	02095103	20407030	20403040
R4300520	02095103	20407010	20403050
R4300521	02095104	20407030	20403040
R4300522	02095104	20407030	20403040
R4300533	02095103	20407030	20403040
R4300533	02095103	20407030	20403040
R4300534	02095103	20407020	20403040
R4300535	02095103	20407020	20403040
R4300536	02095104	20407020	20403040
R4300537	02095103	20407010	20403050



QUAD 4000 SERIES

PART NO.	PRESSURE SWITCH	CHECK VALVE	DIAPHRAGM
R4300538	02095104	20407030	20403040
R4300539	02095104	20407030	20403040
R4300540	02095104	20407060	20403040
R4320242	02095104	20407030	20403040
R4320243	02095104	20407030	20403040
R4320252	02095104	20407020	20403040
R4320253	02095104	20407020	20403040
R4320501	02095103	20407030	20403040
R4400343	02095104	20407030	20403040
R4400501	02095104	20407030	20403040
R4400503	02095105	20407020	20403040
R4400504	02095105	20407020	20403040
R4400505	02095104	20407030	20403040

Troubleshooting for all products:

Pulsating Flow – Pump cycles on and off:

- Restricted pump delivery.
- Check discharge lines, fittings and valves for undersizing or clogging

Failure to Prime – Motor operates but no pump discharge

- Restricted intake or discharge line
- Air leak in intake line
- Punctured pump diaphragm
- Debris under flapper valves
- Crack in pump housing

Motor fails to turn on

- Loose wiring connection
- Pump circuit has no power
- Blown fuse / thermal protector tripped
- Pressure switch failure
- Defective motor

Pump fails to turn off after all valves are closed

- Empty tank
- Punctured pump diaphragm
- Discharge line leak
- Defective pressure switch
- Insufficient voltage to pump
- Debris under flapper valves

Low flow and pressure

- Air leak at pump intake
- Accumulation of debris inside pump and plumbing
- Worn pump bearing (excessive noise)
- Punctured pump diaphragm
- Defective motor

Pumps have thermal overload protected motors. The motor will automatically shut off if temperature rises due to an overload condition. If the motor shuts off in this manner, turn electrical power off and close all nozzles or valves. After a cooling off period the pump will automatically re-start.

Product Warranty:

ITT Flojet warrants products 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 charge 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 without a return authorization number and COSSH sheet completed. All returned 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 F100-101.