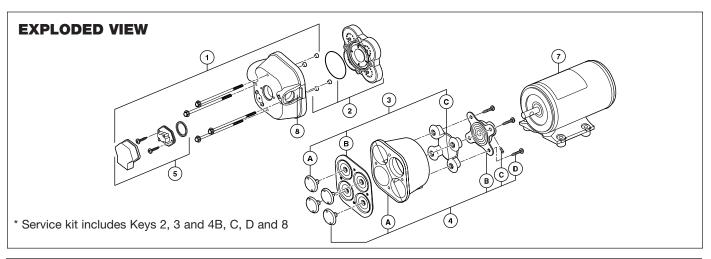


WARNING: DISCONNECT POWER TO PUMP AND OPEN VALVE TO RELIEVE WATER PRESSURE PRIOR TO SERVICING PUMP



KEY	DESCRIPTION		QTY	31595-SERIES	31600-SERIES	31620-SERIES	31630-SERIES
1	Upper Housing	XXXXX-0092	1	18910-4040	18910-4040	18910-4040	18910-4040
		XXXXX-0094	1	18910-4040	18910-4040	18910-4040	18910-4040
		XXXXX-0292	1	18910-4025	18910-4025	18910-4025	18910-4025
		XXXXX-0294	1	18910-4025	18910-4025	18910-4025	18910-4025
2	Valve Kit		1	18911-7030	18911-7030	18911-7030	18911-7030
3	Diaphragm Kit		1	18912-3040	18912-3040	18912-3040	18912-3040
4	Lower Housing Kit		1	18915-9000	18915-9002	18915-9002	18915-9002
5	Pressure Switch XXXXX-0092		1	18916-0040	18916-0040	18916-0040	18916-0040
		XXXXX-0094	1	18916-0040	18916-0040	18916-0040	18916-0040
		XXXXX-0292	1	18916-0025	18916-0025	18916-0025	18916-0025
	XXXXX-0294		1	18916-0025	18916-0025	18916-0025	18916-0025
*6	Service Kit		1	18920-9042	18920-9043	18920-9043	18920-9043
7	Motor Kit – 12V EMC COMP 24V EMC COMP		1	18919-0134	18919-0131	18919-0132	18919-0133
			1	18919-1055	18919-1052	18919-1053	N/A
8	Slide Clips		1	30648-1000	30648-1000	30648-1000	30648-1000
9	Pumphead Assy.	XXXXX-0092	1	18914-6240	18914-6340	18914-6340	18914-6340
	•	XXXXX-0094	1	18914-6240	18914-6340	18914-6340	18914-6340
		XXXXX-0292	1	18914-6225	18914-6325	18914-6325	18914-6325
		XXXXX-0294	1	18914-6225	18914-6325	18914-6325	18914-6325

DISASSEMBLE

Pressure Switch (5)

- Disconnect power to pump and open a faucet or valve to relieve system pressure.
- Remove Rubber Boot, then remove the two visible Pressure Switch Screws located on each side of the Pressure Switch (5).

Upper Housing (1)

- 3. Slide Port Clip (8) back and unplug from Tank Plumbing.
- **4.** Loosen but DO NOT remove the four Pump Head Screws and carefully remove Upper Housing Assembly (1).
- 5. Remove Check Valve (2) and inspect for debris.

Check Valve Assembly (2) Follow Steps 1, 3 & 4

6. Inspect Check Valve (2) and O-Ring

Lower Housing (4) Follow Step 1, 3 & 4

- 7. Remove Rubber Plugs on housing (4-A) to access Allen Screw.
- 8. Rotate Lower Housing (4), so access notch is aligned with Cam Bearing Set Screw (4-C), loosen set screw with a 1/8" Allen Wrench and slide pump head off motor shaft.

Diaphragm (3-B)

 Loosen four cam piston screws with Phillips head screw driver and pull apart cam (4-B) from Inner Pistons (3-A). (Both pistons (3-A & C) should be replaced when a new Diaphragm (3-B) is installed.)

Motor (7) Follow steps 1, 3, 4, 7, & 8

REASSEMBLE

Diaphragm (3-B)

- Insert Outer Pistons (3-C) into Lower Housing (4-A) by bending pistons at center fold.
- 2. Placing the Diaphragm (3-B) (flatter side of Diaphragm facing the motor) on the Lower housing (4-A). Press each Inner Piston (3-A) through the Diaphragm and Lower Housing (4A) into Outer Piston (3-C). Hex stem of Inner Pistons (3-A) must be aligned into hex holes in Outer Pistons (3-C). Tighten cam piston screws partially, center piston in diaphragm, and tighten screws securely (18 in. lbs. torque). Also, the Outer Pistons (3-C) must be aligned with alignment slots on Cam Assembly (4-B) making sure screw holes align in cam assembly, otherwise diaphragm will leak.

Cam Bearing (4-B)

3. Place Cam Bearing (4-B) over Inner Pistons (3-C) and tighten down with four Phillips Head Screws. (18 in. lbs. torque)

Lower Housing (4) to Motor (7)

Coat motor shaft with grease prior to installing Cam Bearing (4-B).

- 4. When installing the Lower Housing (4), rotate access notch to align with Cam Bearing Set Screw (4-C).
- Attach Cam Bearing (4-B) to motor shaft indentation with Cam Bearing Set Screw (4-C). (35 in. lbs. torque)
- 6. Reinsert new Notch Plugs.

Check Valve (2)

- Place Ferrules (Rubber Cones) in the Upper Housing (1) coned side first.
- 8. Properly seat O-Ring in Check Valve (2) and insert Check Valve (2) into the Upper Housing (1).

Upper Housing (1)

 Place Upper Housing (1) on top of the Lower Housing (4-A) and tighten Hex Bolts (30 in. lbs. torque) through the Upper Housing (1) to the Motor.