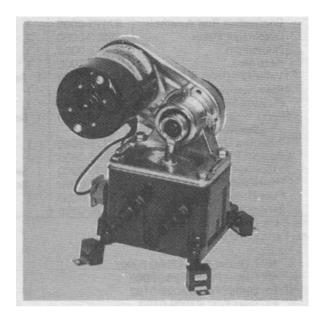
36950-4180

ORIGINAL EQUIPMENT ELECTRIC WATER SYSTEM PUMP





OPERATION

- Check level of water in tank.
- Check all strainers or any aerators and clean thoroughly,
- Open all faucets, hot and cold.
- Turn on power to pump and wait for hot water tank and water lines to filL
- Close each faucet when it starts to deliver a steady stream of water (dose cold water faucet first).
- Observe the pump. Check to be sure pump stops soon after closing last faucet.
- Pump is now ready for automatic operation. It will start when a faucet is opened and stop when the faucet is closed.
- Turn off power to pump and relieve system pressure before hooking up to city wilter,

MAINTENANCE

WINTER STORAGE. PAR pumps, with their uniQue pulsation dampener, will withstand frozen water without damage, provided the system is not under pressure prior to freezing. To prevent accidental damage, the entire water system should be protected from freeZing during winter storage. This requires complete draining, using th.. following directions and/or vehicle manufacturers instruclio"s:

- 1. Open all faucets and drains and allow pump to empty water tank and intake line. Run the pump dry for 1 to 2 minutes before turning off.
- 2. With all drains open, blow air through city water entry. Allow time for the water heater to emptY.
- 3. Disconnectdischargeandintakehoses from the pump. Start the pump and allow to run until all water is expelled from unit. (Running dry will not harm the pump.)
- 4. Reconnect the hoses, close the drains but leave faucets open. The water distribution system is now dry and ready for winter storage.

An alternate method is to use potable water system anti-freeze solution. Follow directions of antl-fteeze manufacturer, and use a PAR Winter Protection Kit Model 44610-0000.

DO NOT USE AUTOMOTIVE TYPE RADIATOR ANTI-FREEZE. IT IS POISONOUS.

FEATURES

- Self-Priming
- Diaphragm Design Allows Dry Running
- Built-in Discharge Check Valve
- Quiet Operation
- Built-in Hydraulic Pulsation Dampener
- large Vibration Absorbing Pads
- Available with Barb or Threaded POfts
- IAPMO Approved

SPECIFICATIONS

U.S. GPM liters/Min. Can. GPM

2.5

UTOMATIC MULTI-FIXTURE PUM

Open Flow: 3.0 11.4 Cut-in Pressur.: 16 PSI Nom. (110 kPal

Cut-off Pressure: 30 PSI Nom. (210 kPa) Voltage: 12VDC

> Current: 6 Amps Nominal

Fuse Rating: 61/4 Amps "Slo·Blo"/8 Amp Normal

Ven.Dry Suction lift. 5 Feet 11.5m)

Slip-on 1/2" or 5/8" I.D. Hose Ports:

or 1/2" Threads or 112" F1

11 lbs. Weight: (5.0 kgs.)Approvel: IAPMO Type IV

TROUBLE SHOOTING

Problem

Pump operates but no water flows through

faucet.

Causes - low water level in tank.

- -Suction line clogged or kinked.
- Air leak in suction line.
- loose hose clamps or fittings in suction line.
- Defective valves or check valve.

Pump cycles on and off when faucets

are closed.

- Water leak in plumbing. - Defective toilet flush valve. - Internal leak in pump.

Outlet valve not sealing.

Pump operates roughly and has excessive noise and vibralion.

Intake line is restricted, kink in suction hose or fittings too small.

- Pump mounted on flimsy board. -Deformed or ruptured pulsation

dampener in pump. - Loose screws at pulleys and conn-

ecting rod.

Pump fails 10 start

when faucet is opened.

-No voltage to pump.

-Blown fuse.

-Ctogged or kinked outlet line.

-Defective pressure switch. - Empty water tank.

Pump fails to stoP

when faucets are closed. -Outlet valve not seeling.

-Very low voltage to pump

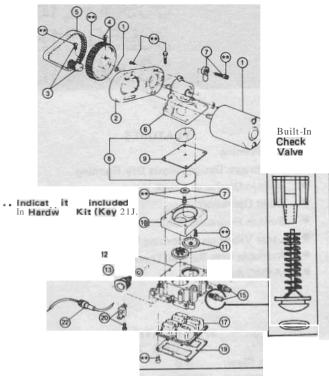
-Air in system.

- Defective pressure switch.

JABSCO PRODUCTS

Form 43000-0305 Rev. 10-78

EXPLOOED VIEW



SERVICE

CAUTION: Before servicing pump, turn off power and open faucet to relieve pressure in water system.

VALVES REPLACEMENT

- 1. Remove motor and four tie down screws.
- Expose valves by lifting jack shaft and attached diaphragm assembly from pump base.
- Lift valves from pockets. Clean all foreign materials from valves and seats.
- 4. Reinstall valves into same pockets, being sure rubber valve with small hole is UP on intake and rubber Ilallie without the small hole is DOWN on discharge (see exploded view). CAUTION: 00 not use valve with small hole in rubber on discharge side of pump.
- 5. When reassembling, adjust belt tension to "4" play.

DIAPHRAGM & CONNECTING ROD REPLACEMENT

- 1. Remove motor and four tie down screws then lift jack shah and attached draphragm assembly from pump base.
- 2. Expose diaphragm by removing two diaphragm ring screws and detaching ring.
- 3. Remove diaphragm screw to separate diaphragm and plates from connecting rod. Inspect diaphragm for cuts and rup-
- 4. Remove eccentric screw to separate connecting rod form
- 5. When reassembling, be sure to align diaphragm and connecting rod so that rod slips straight onto jack shaft and diaphragm rests squarely on diaphragm retainer. Misalignment will create a strain on diaphragm and significantly shorten its life. Adjust belt tension to " play.

PULSATION DAMPENER REPLACEMENT

- Remove pump from installation.
- Remove nine screws from bottom of base and bottom plate.
- 3. Pullout rubber pulsation dampener from base.
- 4. Inspect dampener for excessive deformation, ruptures and cuts.
- When installing new pulsation dampener, make sure flange is well-seated to effect a proper water and air seal.

PARTS LIST

36950-5eries

	20,20 201103			
K.	Description	art Number	-	
1	Motor Kit	30200-0000	,	
2	Motor Mount	34628-0000	7	
3	Small Pulley	37169.0000	7	
4	Large Pulley	37171-0000	1	
5	'"Belt	30022-0000	1	
6	Jack Shaft Assembly	35689-0000	1	
7	Connecting Rod Assembly	37173Q000	1	
8	Diaphragm Plates	35503.0000	2	
9	"Diaphragm	30015.0000	,	
10	Retainer	35497.0000	7	
11	"tValve Set (Inlet & Outlet)	30004.0000	1 Set	
12	t Base Assembly	35620-1100	1	
13	Pressure Switch	37121-0010	1	
15	tPorts (Inlet & Outlet! Barb	37176-0000	1 Se 1	
	(See Notel			
17	"tPulsation Dampener	37178.0000	1	
19	t80ttom Plate	35686-0000	1	
20	tVibration Pad Kit	37180.0000	1 Set	
21	Hardware Kit	3716&0000	1 Set	
22	Fuse Holder (some models)	35578.0QOO	1	
	"Service Kit	30126-0000		
Indicates Parts Contained in Service Kit				

Indicates Parts Contained in Service Kit. tlndicates Parts Supplies with Base Assembly.

NOTE: 1/2" MPT Outlet Port 43006-2000 "MPT Inlet Port 42986-2000 **FL** Outlet Port 93009-0192 " FL Inlet Port 93009-0193

PRESSURE SWITCH REPLACEMENT

- 1. Disconnect wires from pressure switch.
- Unscrew switch from base.
- 3. Thread new switch with sealing washer into pump base, with metallic side of washer facing switch. Tighten securely.
- 4. Reconnect one motor lead to one switch terminal and the pump circuit lead to the other.

MOTOR REPLACEMENT

- 1. Disconnect one motor wire from pressure switch, the other from splice connector.
- 2. Remove two motor nuts to separate motor.
- 3. Loosen screw to slide off small pulley from motor shaft.
- 4. When reassembling, be sure to adjust belt tension before tightening motor nuts. Proper adjustment is made when belt can be depressed one quarter inch at a point halfway between pulleys. Do not overtighten.

PORT CONFIGURATION

		OUTPUT WITH
MODEL NO.	INTAKE PORT	CHECKVALVE
36950-t 180	1/2"-5/8" BARB	1/2"·518" BAR8
36950-2180	1/2" THREADS	1/2" THREADS
36970-3180	1/2"·5/8" BARB	112" THA EADS
36950-4180	1/2" FLARE	112" FLARE



T-1220



JABSCO PRODUCTS L'I

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