

General Information

Thank you for purchasing your HYDROMATIC pump. To help ensure years of trouble-free operation, please read the following manual carefully.

Before Operation:

Read the following instructions carefully. Reasonable care and safe methods should be practiced. Check local codes and requirements before installation.

Attention:

This manual contains important information for the safe use of this product. Read this manual completely before using this product and refer to it often for continued safe product use. **DO NOT THROW AWAY OR LOSE THIS MANUAL.** Keep it in a safe place so that you may refer to it often.

WARNING: Before handling these pumps and controls, always disconnect the power first. Do not smoke or use sparkable electrical devices or flames in a septic (gaseous) or possible septic sump.

Pump Warning

To reduce risk of electrical shock:

- 1. Risk of Electrical Shock:** This pump has not been investigated for use in swimming pool areas.
- 2. Risk of Electrical Shock:**

Connect only to a properly grounded receptacle.

Septic tank is to be vented in accordance with local plumbing codes.

Do not smoke or use sparkable electrical devices or flame in a septic (gaseous) or possible septic sump.

If a septic sump condition exists and if entry into sump is necessary, then (1) provide proper safety precautions per OSHA requirements and (2) do not enter sump until these precautions are strictly adhered to.

Do not install pump in location classified as hazardous per N.E.C., ANSI/NFPA 70 - 2001.

Failure to heed above cautions could result in injury or death.

Installation Instructions

These important instructions must be followed for satisfactory performance of your pump. Before installation, check your local electrical and plumbing codes.

1. Provide proper sump. Recommended minimum sump diameter is 18 .
2. Make sure sump is free of string, cloth, nails, gravel, etc. before installing pump.
3. Do not set pump directly on the bottom of sump if it is not solid. Raise the pump by using bricks or concrete blocks underneath it.
4. Use steel or plastic pipe for all connecting lines between pump and sewer outlet.

NOTE: Some city regulations do not allow installing a pump with plastic pipe. Check local regulations.

5. In applications where the pump may sit idle for months at a time, it is recommended that the pump(s) be cycled every month to ensure the pumping system is working properly when needed.
6. Hydromatic check valve should be installed in discharge pipe.
7. An audible alarm system for high water conditions should be installed in every pump for greater protection, such as the Q Alert for indoor use, rated NEMA I. For additional control panels contact your HYDROMATIC distributor.
8. Connect to power source using 3-prong grounded AC receptacle. Do not remove ground pin from electrical plug. Do not use an extension cord.
9. Use pump partially or completely submerged for pumping waterlike liquids (temperature to 140° F). The SP50 will pump solid materials up to 1-1/2 (spherical) in diameter. This pump has not been investigated for use in swimming pool areas.
10. **Caution:** Do not pump flammable liquids, strong chemicals or salt water.

Pump Servicing

Read the following instructions carefully before replacing any parts. Reasonable care and safe methods should be practiced. Check local codes and requirements before installation. Only competent electrician should make the installations.

Servicing should be performed only by knowledgeable pump service contractor or authorized service station.

Remove from power source.

WARNING: Shock hazard.

1. **Checking power cord.** To be sure wires are not burned off or broken in cord, use ohmmeter to check. Set ohmmeter scale pointer to R X 1 scale and attach one meter lead to white cord wire and one meter lead to black cord lead, then place screwdriver blade across blade terminals of plug. If cord is OK, meter needle will go to zero and stay there. If meter needle does not move, this will indicate an open wire and cord must be replaced.

2. **Checking motor operation.** When switch cap is off and switch is removed, connect two terminals that were connected to switch together and tape. Plug power cord in power receptacle to check motor operation. Motor should start and run smoothly. If motor does not start, pump must be dismantled and motor checked.

CAUTION: Be sure to

unplug cord before continuing or reassembly if pump is functional.

3. **Checking motor stator.**

If motor does not run when tested as described above, the stator must be removed from the housing and checked. Remove plug (12) from top of housing, and pour oil in container, preferably glass, so that oil can be observed.

If oil is clear it will indicate motor is not burned and there has been no water leaking into the motor. If oil is cloudy or black, it will indicate water in the motor or a burned stator.

After draining oil, remove bolts (10) and remove cord nut (25) from motor cord (21). Remove rubber 6.56 2ter leaking

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11. Manual pumps.

Ref. No.	Part No.	Description	Qty.				
1	11584-043-4	Nameplate	1	1	11584-043-4	Nameplate	1
2	14981-001-1	Plug - Pipe 1/4"	1	2	14981-001-1	Plug - Pipe 1/4"	1
3	56-036-2	Motor Housing (Includes Handle)	1	3	56-023-2	Motor Housing (Includes Handle)	1
4	13349-000-1	Motor- 115 V. single phase	1	4	13594-000-1	Motor- 200 V. three phase	1
4	13592-000-1	Motor- 200 or 230 V. single phase	4	4	13595-000-1	Motor- 230 or 460 V. three phase	1
5	77-003-1	O - Ring Sq. cut	1	4	13596-000-1	Motor- 575 V. three phase	1
6	239-005-1	Bolt	2	5	77-003-1	O - Ring Sq. cut	1
7	208-000-2	Flange - Discharge	1	6	239-005-1	Bolt	2
8	324-001-1	Gasket - Discharge Flange	1	7	208-000-2	Flange - Discharge	1
9	202-000-2	Volute	1	8	324-001-1	Gasket - Discharge Flange	1
10	203-000-2	Bottom Plate	1	9	202-000-2	Volute	1
11	614-001-2	Impeller (Automatic/Manual)	1	10	203-000-2	Bottom Plate	1
12	19109A070	Jam Nut	1	11	614-001-2	Impeller (Automatic/Manual)	1
13	83-007-1	Seal Shaft	1	12	19109A070	Jam Nut	1
14	83-002-1	Seal-Assy, Stationary	1	13			
15	19099A029	Screw - 1/4 - 20	6				
16	51752-403-7	Pressure Switch 10'					
16	51752-404-7	Pressure Switch 20'	1				
17	30-021-1	Screw	1				
18	5502-004-1	Bracket - Switch	1				
19	101-008-1	Screw	4				
20	24709110000	Oil - Paraffinic	1				
21	75-005-1	Cord Nut	1				
22	14623-010-1	Power Cord 10'	1				
22	14623-020-1	Power Cord 20'	1				
23	139-014-1	Ring - Seal	1				

SP50AB1 Parts List

Ref. No.	Part No.	Description	Qty.
1	11584-043-4	Nameplate	1
2	14981-001-1	Plug - Pipe 1/4"	1
3	56-013-2	Motor Housing (Includes Handle)	1
4	13349-000-1	Motor- 115 V. single phase	1
5	77-003-1	O - Ring Sq. cut	1
6	239-005-1	Bolt	2
7	208-010-2	Flange - Discharge	1
8	324-001-1		

Limited Warranty

HYDROMATIC warrants to the original consumer purchaser ("Purchaser" or "You") of HYDROMATIC Sump Pumps, Effluent Pumps, Sewage Pumps (other than 2-1/2"), and Package Systems, that they will be free from defects in material and workmanship for the Warranty Period of 36 months from date of manufacture.

Our warranty will not apply to any product that, in our sole judgement, has been subject to negligence, misapplication, improper installation, or improper maintenance. Without limiting the foregoing, operating a three phase motor with single phase power through a phase converter will void the warranty. Note also that three phase motors must be protected by three-leg, ambient