

Super Pump® - SP2600 Series

SELF-PRIMING SWIMMING POOL PUMP

INSTALLATION AND OPERATING INSTRUCTION MANUAL

Your Hayward self-priming centrifugal pump has been quality-built and engineered to give you many years of efficient, dependable, corrosion free service.

The advanced design reduces operation and maintenance to simple, common-sense procedures.

IMPORTANT

*This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure they can use the appliance safely.

*Young children should be supervised to ensure that they do not play with the appliance.

GENERAL TIPS ON PUMP INSTALLATION

Locate the pump as close to pool as practical and run suction line as direct as possible. Secure pump to base with screws or bolts to reduce vibration and pipe stress.

Never overtighten pipe connections—use only pipe sealants formulated specifically for plastics, i.e., Teflon tape, Permatex No. 2, etc.

Suction line should have continuous slope from lowest point in line. Make sure suction joints are tight. Suction pipe should be as large or larger than discharge pipe.

Damp, non-ventilated locations should be avoided. Motors require free circulation of air to aid in cooling.

Ensure that the electrical supply available agrees with motor's voltage and is 50 HZ, and that wire size is adequate for the KW rating and distance from power source. Motor must always be properly earthed. Electrical circuits must be supplied through a Residual Current Device - RCD (safety switch), with a rated residual operating current of 30mA. All electrical wiring must be performed by qualified electrical contractor, and must conform to electrical regulations and AS3000 wiring rules.

STARTING AND PRIMING INSTRUCTIONS

Fill strainer/housing with water to suction pipe level. Never operate the pump without water. Water acts as a coolant and lubricant for the mechanical shaft seal.

Open all suction and discharge lines and valves, as well as air bleed (if available) on filter. (The air that is to be displaced from the suction line must have some place to go.)

CAUTION: All suction and discharge valves must be open when starting the system. Failure to do so could cause severe personal injury and/or property damage.

Turn on power and allow a reasonable time for priming. Five minutes is not unreasonable. (Priming time depends on suction lift and horizontal length of suction piping.) If the pump will not start, or will not prime, see TROUBLE SHOOTING GUIDE on back page.

Notice for Solar Applications

A check valve must be fitted to the discharge of the pump when installed with solar system.

Special Notice for 415V. 3 Phase Models

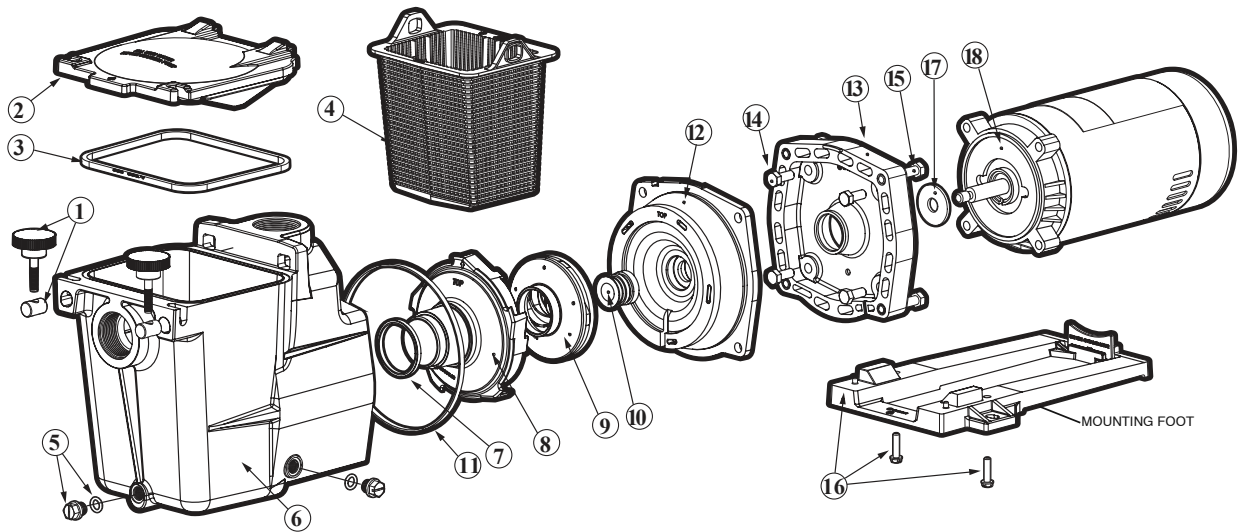
Only a qualified electrician may connect or disconnect this pump to/from a power supply.

The motor must be connected by means of fixed wiring so that the IP rating is maintained when doing so. Electrician must check direction of rotation at time of installation.

The motor is not suitable for flex and plug connection as starter/contactors with overload is required and this must be set according to the rated current.



Parts Diagram



Parts Listing

Ref. No.	Part No.	Description	Qty. Req'd
1	SPX1600PN	Swivel Nut & Hand Knob	2
2	SPX1600D	Strainer Cover	1
3	SPX1600S	Strainer Cover Gasket	1
4	SPX1600M	Basket	1
5	SPX1700FG	Drain Plug with Gasket	2
6	SPX1620AAL	50mm Pump Strainer Housing with Gasket, Drain plugs, & Mounting Foot	1
	SPX1600AAL	40mm Pump Strainer Housing with Gasket, Drain plugs, & Mounting Foot	1
7	SPX1600R	Diffuser Gasket	1
8	SPX2600B	Diffuser	1
9	SPX2610C	Impeller (suits SP2610AQ 1 H.P)	1
	SPX2615C	Impeller (suits SP2615AQ 1½ H.P)	1
10	SPX1600Z2	Shaft Seal Assembly	1
11	SPX1600T	Housing Gasket	1
12	SPX2600E5	Seal Plate	1
13	SPX1600F5	Motor Mounting Plate	1
14	SPX0125Z4	Motor Cap Screw	4
15	SPX1600Z4	Housing Cap Screw	4
16	SPX2600G1	Mounting Foot (Includes Screws)	1
17	SPX0125F	Motor Shaft Slinger	1
18	SPX2610AQM	Motor, (suit SP2610AQ 1 H.P)	1
	SPX2615AQM	Motor, (suit SP2615AQ 1½ H.P)	1
--	SPX1600Z52	Mounting Foot Screws (Set of 2)	1
--	SPX3000Z26	Washer, 3/8" - for Housing Cap Screw - Not Shown	4
--	SPX0327	"Jack's formular 327 Multilube" Silicone lube for O-RINGS - 1 ounce (28gram) tube	1

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

Super Pump



Shaft Seal Change Instructions

IMPORTANT SAFETY INSTRUCTIONS **PLEASE READ AND FOLLOW ALL INSTRUCTIONS**

When servicing electrical equipment, basic safety precautions should always be observed including the following. Failure to follow the instructions may result in injury.

- Disconnect the pump motor power cord from the power outlet before beginning the shaft seal replacement.
- Only qualified personnel should attempt to replace the shaft seal. Contact your local authorized Hayward Dealer or service center if you have any questions.
- Exercise extreme care in handling both the rotating and stationary sections of the two-part replacement seal. Foreign matter or improper handling will easily scratch the graphite and ceramic sealing surfaces.
- See the "Parts Diagram" on the previous page for the pump component locations.

Removing the Motor Assembly

1. Remove the four (4) 3/8" x 2" hex head bolts (Item 15), which hold the motor assembly to the pump/strainer housing (Item 6), using a 9/16" AF spanner or socket.
2. Slide the motor assembly out of the pump/strainer housing (item 6), exposing the diffuser (item 8). Pull the diffuser off of the seal plate (Item 12), exposing the impeller. (The difusser may remain in the pump/strainer housing. To remove pull it straight out of the pump/strainer housing.)

Removing the Impeller

1. To prevent the motor shaft from turning, insert a Flat Blade Screwdriver through the center hole in the fan cowling and into the slot on the end of the motor shaft and hold it.
2. Remove the impeller (item 9) by rotating it counterclockwise. The spring portion of the seal assembly is now exposed. Note carefully the position of the spring seal, and remove it.

Removing the Ceramic Seat

1. Remove the seal plate (Item 12) from the motor mounting plate (Item 13)
2. Press the ceramic seat with rubber cup out of the seal plate (item 12). If tight, use a small screwdriver to tap the seal out from the back side of the seal plate.

⚠ IMPORTANT - Clean all recesses and parts to be reassembled. Inspect gaskets and replace if necessary.

Seal, Impeller, and Diffuser Installation

1. Clean and lightly lubricate the motor shaft and seal recess in the seal plate (item 12) with a dilute solution of non granulated liquid type soap. Gently wipe the polished face of the ceramic seal with a soft, lint free cotten cloth. Lubricate the rubber cup on the ceramic seat and press it firmly into the recess of the seal plate (item 12), with the polished ceramic surface facing towards you. Ensure the motor shaft slinger (item 17) is slid all the way down the shaft.
2. Place the seal plate (Item 12) onto the motor mounting plate (Item 13) by aligning the recess on the seal plate with the tab on the top of the motor mounting plate. The outside profile of the two parts should be the same and the word "TOP" on the seal plate should be at the top.
3. Gently wipe the black, polished surface of the carbon spring seal assembly (item 10) with a soft, lint free cotton cloth.
4. Clean and lubricate the impeller hub (Item 9) and press the carbon spring seal assembly (item 10) onto the impeller hub with the black polished surface facing away from the impeller.
5. Screw the impeller (item 9) onto the motor shaft in a clockwise direction and tightn snugly by holding the motor shaft with the Flat Blade Screwdriver as explained earlier.
6. Place the diffuser (item 8) over the impeller (item 9) and onto the seal plate (item 12), aligning the word "TOP" and the arrow to the top of the motor or, the top of the seal plate. Give it a tap with the heal of your hand to make it seat into position on the seal plate. Ensure the diffuser gasket (item 7) is fitted to the diffuser to the outside of the diffuser inlet.
7. Replace the motor Assembly into the pump/strainer housing in the reverse order of the removal steps. Ensure the housing gasket (item 11) is lubricated and tighten the housing bolts (item 15) in a cross pattern and evenly.

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MAXIMUM TOTAL HEAD - IMPORTANT INSTALLATION INFORMATION

Model	Max Total Metres Head	Max Pressure kPa
SP2610AQ / SP240	14.9	146
SP2615AQ / SP274	16.2	159

MAINTENANCE

1. Clean strainer basket regularly. Do not strike basket to clean.
2. Inspect strainer cover O-ring regularly and replace as necessary. Keep cover O-ring lubricated.
3. Hayward pumps have self-lubricating motor bearings and shaft seals. No lubrication is necessary.
4. Keep motor clean. Insure air vents are free from obstruction.

NB Do not use petroleum based lubricants on gaskets, O-rings or plastic components.

Use only silicone based lubricants.

A. MOTOR WON'T START

1. Check open switches or relays, blown circuit breakers or fuses.
2. Ensure power cord is plugged in and power is switched on, (240v Models Only).
3. Refer to Authorised Service Agent or other qualified person.

B MOTOR CUTS OUT

NOTE: Your Hayward pump motor is equipped with Automatic Thermal Overload Protection. The motor will automatically shut-off, under normal conditions, before heat damage buildup, due to an improper operating condition, can occur. The motor will auto-restart when safe heat level is reached.

If motor fails to restart switch power off and contact an authorised Hayward Pump Service Technician or other qualified service company.

C. MOTOR HUMS, BUT DOES NOT START

If motor fails to start switch power off and contact an authorised Hayward Pump Service Technician or other qualified service company.

D. PUMP WON'T PRIME

1. Make sure pump/strainer is filled with water, and that cover gasket is clean and properly seated. Tighten hand nuts.

2. Make sure all suction and discharge valves are open and unobstructed, and that pool water level is above all suction openings.

E. LOW FLOW—Generally, check for:

1. Clogged or restricted strainer or suction line;
2. Plugged or restricted discharge line of filter (high discharge gauge reading).
3. Air leak in suction (bubbles issuing from return fittings).

F. NOISY PUMP—Check for:

1. Air leak in suction causing rumbling in pump.
2. Cavitation due to restricted or undersized suction line and restricted discharge lines.
3. Vibration due to improper mounting, etc.
4. Foreign matter in pump housing.
5. Motor bearings made unserviceable by wear, rust, or continual overheating. Refer to authorised service agent.

G. If the Supply Cord is damaged, it must be replaced by the manufacture, its service agent or similarly qualified persons in order to avoid a hazard.

SERVICE & REPAIRS

Consult your local authorised Hayward dealer or service center. No pumps or motors may be returned directly to the factory without the expressed written authorisation of Hayward Pool Products (Australia) Pty Ltd.

Warning

The Pump Motor is an electrical device and as such should not be disassembled or serviced by anyone other than an authorised Hayward Service Technician or qualified Electrical Service Company. An experienced Pool Service Technician should attend to any other problems that cannot be corrected by routine maintenance.



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