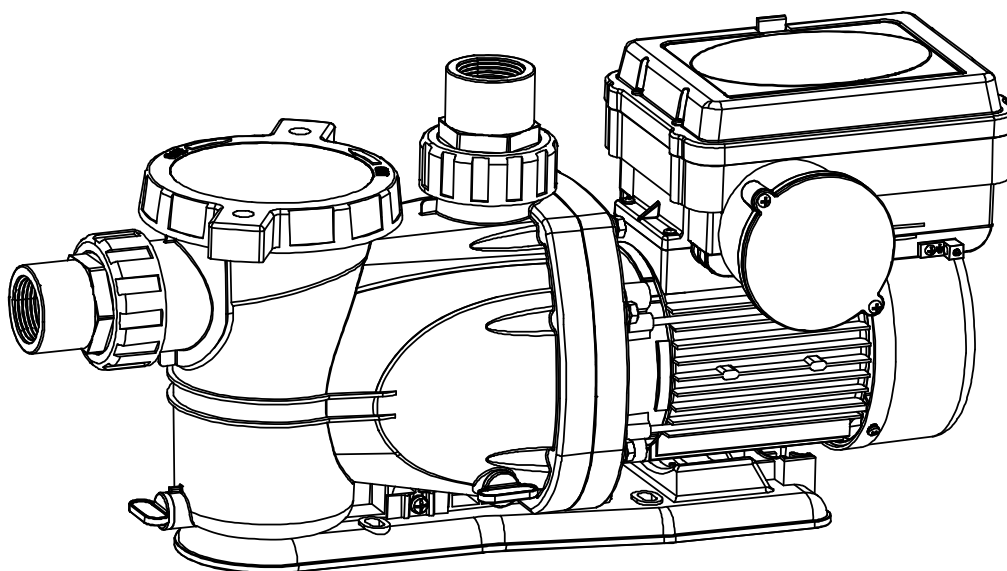




SKU # 1000 000 000
1000 000 000
Model # PCP10001-VSP
PCP15001-VSP

USE AND CARE GUIDE

VARIABLE SPEED POOL PUMP



Questions, problems, missing parts? Before returning to the store call

Everbilt Customer Service
8 a.m. – 6 p.m., EST, Monday–Friday

1-844-241-5521

HOMEDEPOT.COM

Rev. 05/14/21

THANK YOU

We appreciate the trust and confidence you have placed in Everbilt through the purchase of this pool pump. We strive to continually create quality products designed to enhance your home. Visit us online to see our full line of products available for your home improvement needs. Thank you for choosing Everbilt!

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Performance

SKU	HP	RPM	GPM of Water @ Total Feet of Lift						Max. Lift
			0 ft.	10 ft.	20 ft.	30 ft.	40 ft.	50 ft.	
1000 000 000	1	3500	72.0	65.0	56.0	44.0	25.0	/	48 ft.
		2000	39.0	20.0	/	/	/	/	16 ft.
		1200	22.0	/	/	/	/	/	7 ft.
1000 000 000	1-1/2	3500	95.0	88.0	80.0	70.0	56.0	40.0	65 ft.
		2000	50.0	32.0	7.0	/	/	/	22 ft.
		1200	30.0	/	/	/	/	/	8 ft.

Warranty

The manufacturer warrants the products to be free from defects in materials and workmanship for a period of one year from date of purchase. This warranty applies only to the original consumer purchaser and only to products used in normal use and service. If within one year this product is found upon examination by the manufacturer to be defective in materials or workmanship, the manufacturer's only obligation, and your exclusive remedy, is the repair or replacement of the product at the manufacturer's discretion, provided that the product has not been damaged through misuse, abuse, accident, modifications, alterations, neglect or mishandling. Your original receipt of purchase is required to determine warranty eligibility.

The purchaser must pay all labor and shipping charges necessary to replace the product covered by this warranty.

This Limited Warranty does not cover products which have been damaged as a result of an accident, misuse, abuse, negligence, alteration, improper installation or maintenance, or failure to operate in accordance with the instructions supplied with the products, or operational failures caused by corrosion, rust, or other foreign materials in the system.

Requests for service under this warranty shall be made by returning the defective product to the manufacturer as soon as possible after the discovery of any alleged defect. The manufacturer will subsequently take corrective action as promptly as reasonably possible.

The manufacturer does not warrant and especially disclaims any warranty, whether express or implied, of fitness for a particular purpose, other than the warranty contained herein. This is the exclusive remedy and any liability for any and all indirect or consequential damages or expenses whatsoever is excluded.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

For Professional Technical Support call 1-844-241-5521 or visit HOMEDEPOT.COM.

For warranty registration please go to www.gppumpsus.com

Safety Information

READ AND FOLLOW ALL INSTRUCTIONS.



DANGER: Do not pump flammable or explosive liquids such as oil, gasoline, kerosene, ethanol, etc. Do not use in the presence of flammable or explosive vapors. Using this pump with or near flammable liquids can cause an explosion or fire, resulting in property damage, serious personal injury, and/or death.



DANGER: ALWAYS disconnect the power to the pump before servicing.



DANGER: Do not touch the motor housing during operation. The motor is designed to operate at high temperatures. Do not disassemble the motor housing.



DANGER: Do not handle the pump or pump motor with wet hands or when standing on a wet or damp surface, or in water.



WARNING: Wear safety goggles at all times when working with pumps.



WARNING: This is a 230 V pump.
All wiring should be performed by a qualified electrician.



WARNING: Protect the electrical cord from sharp objects, hot surfaces, oil, and chemicals. Avoid kinking the cord. Do not use damaged or worn cords.



WARNING: Failure to comply with the instruction and designed operation of this unit may void the warranty. ATTEMPTING TO USE A DAMAGED PUMP can result in property damage, serious personal injury, and/or death.



WARNING: The pump should be connected to a GFCI outlet protected with a 15 amp (230V) fuse or circuit breaker.



WARNING: Fire and burn hazard. Motors run at high temperatures. Do not allow leaves, debris, or foreign matter to collect around the pump motor. Allow the motor to cool before handling.



CAUTION: Know the pump and its applications, limitations, and potential hazards.



CAUTION: Periodically inspect the pump and system components. Disconnect the pump from the power supply before inspecting.



CAUTION: Follow all local electrical and safety codes, along with the National Electrical Code (NEC). In addition, all Occupational Safety and Health Administration (OSHA) guidelines must be followed.



CAUTION: This pump is for use with permanently installed pools. Do not use with storable pools. A permanently installed pool is constructed in or on the ground or in a building and is not intended to be disassembled or moved.



CAUTION: Use rigid or flexible PVC pipe. Ensure pipe ends are clean and free of any flash caused by cutting. Use proper glue for the type of pipe selected.



CAUTION: Locate pump on a non-combustible surface as close to the pool/spa as possible. The surface should be hard, level, dry, and well ventilated. The surrounding area should provide protection from the elements and allow sufficient space for maintenance and service. Ensure the drainage will flow away from the pump. To reduce vibration and pipe stress, use anchor bolts to secure the pump base to the surface.



CAUTION: Use a supplier recommended primer to ensure glued joints are secure. Many local codes require primer with a purple tracer to verify primer use.



CAUTION: Consider climatic conditions when applying adhesives. Atmospheric conditions with high humidity will make the adhesive action of certain glues less effective. Follow the manufacturer's instructions.



CAUTION: This pump should be installed and serviced only by a qualified pool service professional. Installers, pool operators and owners must read these warnings and all instructions in the owner's manual before using this pump. These warnings and the owner's manual must be left with the pool owner.



IMPORTANT: Design the piping system to allow the pump suction inlet height to be as close to the water level as possible. Mount the pump below water level for easy priming. If the pump must be located above the filled water level, keep the vertical distance to a minimum. Use short, direct piping to the suction to minimize friction loss.



IMPORTANT: The motor of this pump has a thermal protector that will trip if the motor becomes too hot. The protector will reset it—self once the motor cools down and an acceptable temperature has been reached. The pump may start unexpectedly if it is plugged in.



IMPORTANT: Ensure the electrical power source is adequate for the requirements of the pump.

Safety Information (continued)



IMPORTANT: This pump is made of high-strength, corrosion-resistant materials. It will provide trouble-free service for a long time when properly installed, maintained, and used. However, inadequate electrical power to the pump, dirt, or debris may cause the pump to fail. Please carefully read the manual and follow the instructions regarding common pump problems and remedies.



IMPORTANT: Provide sufficient ventilation to maintain air temperature below the maximum ambient temperature rating shown on the motor nameplate. Any enclosure or pump house must allow adequate ventilation to assure the ambient temperature remains below the motor rating when the pump is operating.

SAVE THESE INSTRUCTIONS.

Pre-Installation

APPLICATION

This swimming pool pump is designed for use with permanently installed swimming pools only. A permanently installed pool is constructed in or on the ground or in a building and is not intended to be disassembled or moved.

Do not use with storable portable pools. A storable pool is constructed so that it may be readily disassembled for storage and reassembled to its original integrity.

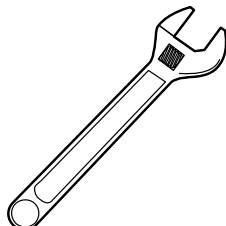
TOOLS REQUIRED



Flathead Screwdriver



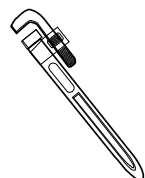
Phillips Screwdriver



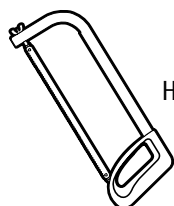
Wrench



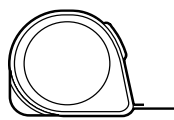
Safety Goggles



Pipe wrench



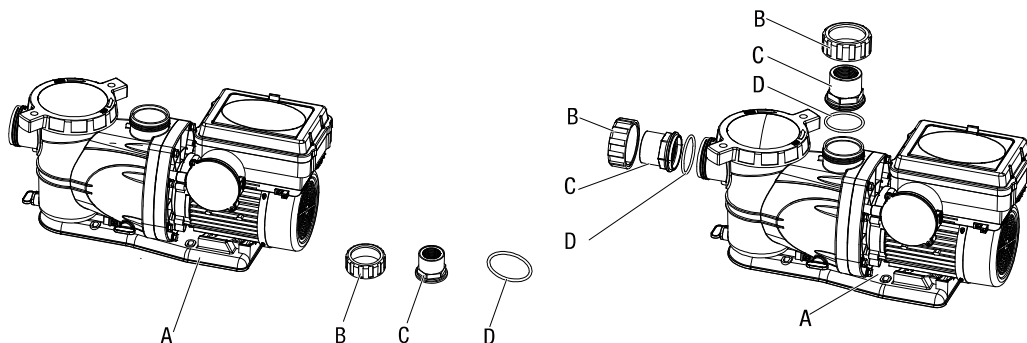
Hacksaw



Tape Measure

PACKAGE CONTENTS

Part	Description	QTY
A	Pump	1
B	Union Nut	2
C	Union Adapter	2
D	O-ring	2



Pre-Installation (continued)

MATERIALS REQUIRED (NOT INCLUDED)

Additional items needed	QTY
Teflon tape	As needed
Rigid pipe	As needed
Ball Valve	As needed
Union	As needed
Elbow	As needed
Adapter	2
Tee	As needed
PVC cement	1
IAPMO Certified Anti-entrapment Cover	As needed

SPECIFICATIONS

Power supply	230V, 60 HZ., 15 Amp Circuit
Liquid temp. range	32 to 100°F (0– 38°C)
Discharge size	1 –1/2 in. NPT thread with adaptor

Installation

Only qualified, licensed personnel should install pump and wiring.

The pump mount must be located away from corrosive or flammable chemicals.

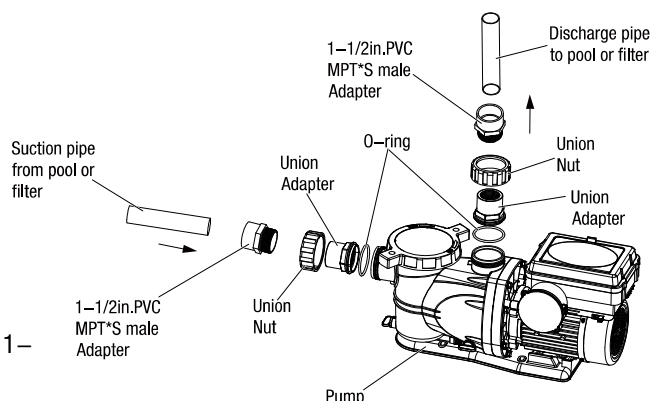
THREADED CONNECTIONS

Use only Teflon® tape or equivalent on threaded plumbing connections. Other pipe compounds may damage threads. Do not use silicone or petroleum based compounds. Do not over tighten. Hand tightening plus 1/2 turn is sufficient.

PUMP PLUMBING

Suction pipe should be as large as or larger than discharge pipe. Avoid using a suction pipe smaller than the pump connection. The pump is designed to accept 1 –1/2 in. suction piping.

1. Keep the piping as straight and short as possible, and of suitable size.
2. Avoid connecting an elbow directly into the pump inlet. A length of straight pipe will allow proper entry of the water to the pump.
3. Slope horizontally, and run upward to the pump to prevent trapping air.
4. Use independent piping supports for suction and discharge pipes to reduce strain on the pump.
5. Keep as much of the suction line as possible below the water level to reduce priming time.
6. Install valves and unions in the pump suction and return the lines to facilitate servicing. Valves are also essential for pump maintenance, if the system is installed below deck level.



NOTICE: Use Teflon® tape or Plasto-Joint Stik 1 for making threaded connections to the pump. Do not use pipe dope.

Teflon® Taping Instructions:

Use only new or clean PVC pipe fittings. Wrap male pipe threads with one to two layers of Teflon® tape. Cover entire threaded portion. Do not over tighten. If leaks occur, remove pipe, clean off old tape, rewrap with one to two additional layers of tape and remake the connection.

Installation (continued)

Fittings

Fittings restrict flow; for best efficiency use the fewest number of possible fittings. Avoid fittings which could cause an air trap. Pool fittings must conform to International Association of Plumbing and Mechanical Officials (IAPMO) standards. Use only non-entrapping suction fitting or double suction.

POOL PUMP SUCTION REQUIREMENTS

Pump suction is hazardous and can trap, drown, or disembowel bathers. Do not use or operate swimming pools, spas, or hot tubs if a suction outlet cover is missing, broken, or loose. Follow the guidelines below for a pump installation which minimizes risk to all users of pools, spas, and hot tubs.

Entrapment Protection

The pump suction must be designed to eliminate the possibility of suction entrapment or hair entrapment/entanglement.

Suction Outlet Covers

All suction outlet covers must be maintained and replaced if cracked, broken, or missing.

Testing and Certification

All suction inlet covers must comply with ASME/ANSI specifications for suction fittings for use in swimming pools, spas, hot tubs, and whirlpool bathtub applications. The product must be tested for compliance with the standards, and the certification must be included with the components.

Suction inlets must be designed so that water is drawn simultaneously. A vacuum relief device can be installed in line leading to the pump suction.

All suction outlet covers must conform to ASME/ANSI A112.19.18M; or must be a minimum 18 x 23 grate or larger; or must have an approved channel drain system. Skimmers are exempted. All pool and spa single or multiple outlet circulation systems shall be equipped with an atmospheric vacuum relief system. The system must be ASME/ANSI A112.19.17 Rated.

Any pool or spa shall immediately be closed if the cover or grate is damaged or missing.

Suction outlet covers/grates shall be tested and listed by a nationally recognized testing laboratory as conforming to ASME/ANSI A112.19.8

ELECTRICAL

Ground the motor before connecting to electrical power supply. Failure to ground the motor may cause severe or fatal electrical shock hazard. Never ground to a gas supply line.

To avoid dangerous or fatal electrical shock, turn OFF power to motor before working on electrical connections.

Ground Fault Circuit Interrupter (GFCI) tripping indicates an electrical problem. If GFCI trips and will not re-set, have a qualified electrician inspect and repair electrical system.

Verify that supply voltage matches the nameplate voltage. Incorrect voltage can cause fire or seriously damage motor and voids warranty.

Voltage

Voltage at motor must be within 10% of the motor nameplate rated voltage or motor may overheat, causing overload tripping and reduced component life. If voltage does not fall within the specified range during operation consult the power company.

Grounding/Bonding

Install, ground, bond and wire motor according to local or National Electrical Code requirements. Permanently ground the motor. Use the ground terminal provided in the terminal box on the back of the motor. Use size and type wire required by local codes. Connect motor ground terminal to electrical service ground.

Bond motor to pool structure. Use a solid copper conductor, size No.14 AWG or larger. Run wire from external bonding lug to reinforcing rod or mesh.

Installation (continued)

To Wire a Varier-Speed Motor



NOTICE: Be sure power is off.

- Remove the terminal box lid (FIG.1)
- Using multi-function crimping pliers to press o-type grounding terminal which connected 14 AWG. (FIG.2)
- Install 1/2" connector to terminal box. Install ground wire to ground rod. using multi-function crimping pliers to connect two wires with two wire caps. (FIG.3)
- Install conduit to connector. (FIG.4)
- Re-install the terminal box lid.

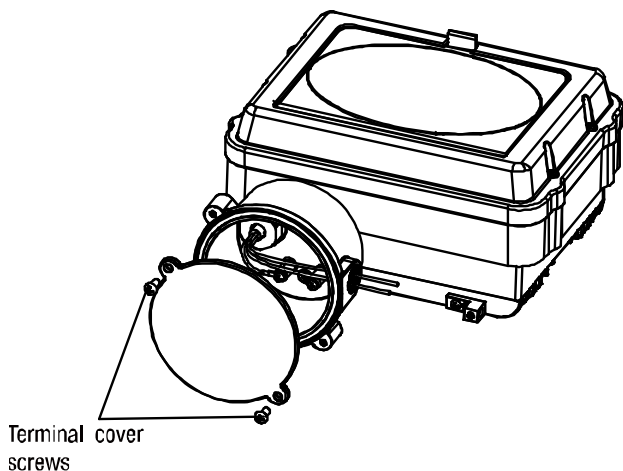


FIG. 1

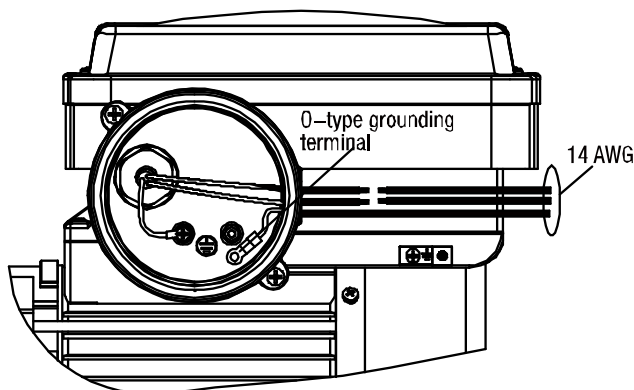


FIG. 2

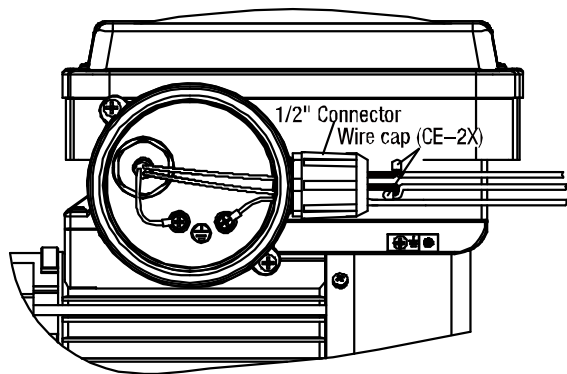


FIG. 3

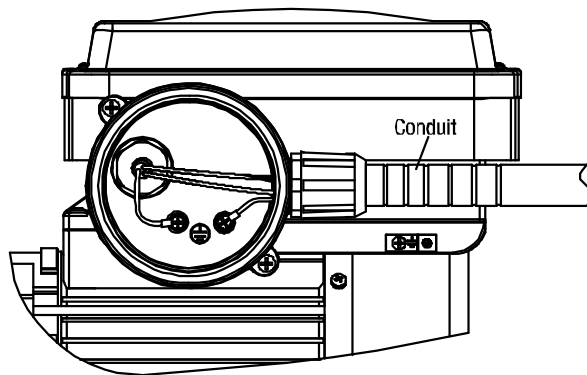


FIG. 4

Connect a No. 8 AWG solid copper bonding wire to the pressure wire connector provided on the motor housing and to all metal parts of the swimming pool, spa, or hot tub and to all electrical equipment, metal piping or conduit within 5 feet of the inside walls of swimming pool, spa, or hot tub.

Follow all national and local wiring codes. If unsure of the code requirements, consult a professional electrician.

Pump must be permanently connected to circuit. Table I gives correct wire and circuit breaker sizes for the pump alone. If other lights or appliances are also on the same circuit, be sure to add their amp loads to pump amp load. If unsure, consult a licensed electrician.

A Ground Fault Circuit Interrupter (GFCI) is required in the circuit. For size of GFCI required and test procedures for GFCI, please see manufacturer's instructions.

Installation (continued)

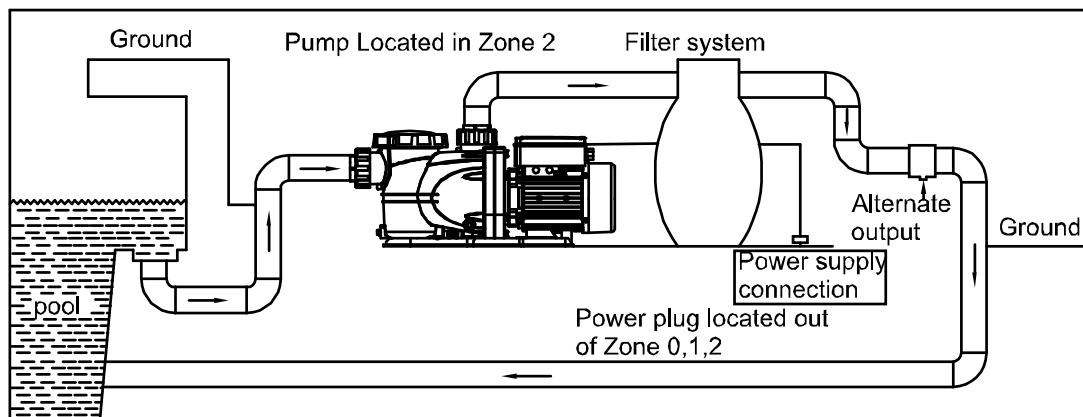
Table I– Recommended Fusing Data

Motor HP	Branch Fuse Rating Amps*	Max Load Amps	Voltage/Hz/Phase	Service to Motor – Distance in Ft. (m)
				0–300' (0–30)
				AWG Wire Size (mm2)
1	15	3.3	230/60/1	14 (2)
1–1/2	15	5.0	230/60/1	14 (2)

* Time delay fuses are recommended instead of standard fuses in any motor circuit.

MECHANICAL TROUBLES AND NOISE

1. If suction and discharge piping are not adequately supported, pump assembly will be strained. Use independent piping supports for suction and discharge pipes to reduce strain on the pump.
2. Do not mount the pump on a wooden platform! Securely mount on a concrete platform for quietest performance before working on pump or motor.



Operation

Avoid running pump dry. Fill pump with water before starting motor. Before removing trap cover:

1. STOP PUMP before proceeding.
2. CLOSE GATE VALVES in suction and discharge pipes.
3. RELEASE ALL PRESSURE from pump and piping system.
4. If pump is being pressure tested, be sure pressure has been released before removing trap cover.



WARNING: Do not block pump suction. To do so with body may cause severe or fatal injury. Small children using pool must ALWAYS have close adult supervision.



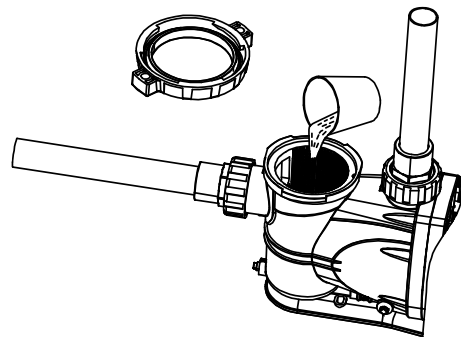
WARNING: Fire and burn hazard. Motor runs at high temperatures, to reduce the risk of fire, do not allow debris, or foreign matter to collect around the pump motor. Allow motor to cool prior to handling or performing maintenance. The motor is equipped with an internal thermal protection circuit to guard against overheating. The maximum ambient temperature for motor operation must not exceed rating on motor model plate.

Operation (continued)

Priming Pump

Release all pressure from filter, pump, and piping system; see the filter owner's manual. In a flooded suction system (water source higher than pump), pump will prime automatically during suction and discharge valves are opened.

If the pump is located above the normal pool water level, remove ring and trap assembly, and fill trap and pump with water. Clean and inspect O-ring; then reinstall on trap cover. Replace trap cover assembly on trap, then rotate clockwise to tighten cover.



NOTICE: Tighten ring and cover assembly by hand – do not use tools. Pump priming time will depend on the vertical distance and length of the suction line. The pump is designed to prime at 10 ft. or less. If the pump does not prime, make sure that all valves are open, and that the suction pipe is submerged. Verify there are no leaks in the suction lines.

Routine Maintenance

The only routine maintenance needed is the inspection and cleaning of the trap basket. Debris or trash that collects in the basket will choke off water flow through the pump.

Before attempting to clean the basket:

1. Stop pump, close valves in suction and discharge, and release pressure from system.



WARNING: Hazardous suction can trap hair or body parts, causing severe injury or death. Do not block suction.

2. Remove the ring and cover assembly by turning counterclockwise. If necessary, tap handles gently with a rubber mallet.
3. Remove the basket and clean. Inspect holes in basket for blockage. Clean the basket with water and replace in trap. Verify that the basket is oriented correctly in pump housing.
4. Clean and inspect lid O-ring; then reinstall the ring and cover assembly.
5. Prime the pump (see priming instructions).

Draining the Pump

A. Pump down water level below all inlets to the pool.

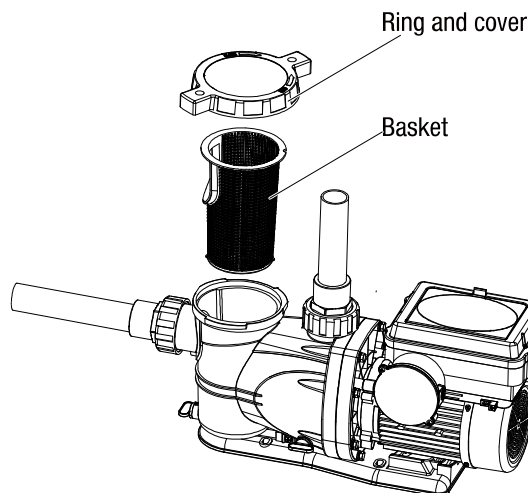


WARNING: To avoid dangerous or fatal electrical shock hazard, turn OFF power to the motor before draining pump.

- B. Remove the trap cover.
- C. Drain the basket housing and pump housing through the drain plugs
- D. Clean the pump and basket, then replace cover assembly.
- E. Be sure motor is kept dry and covered.



NOTICE: Tighten trap cover by hand only.



Storage/Winterizing:



WARNING: Explosion hazard. Purging the system with compressed air can cause components to explode, with risk of severe injury or death to anyone nearby. Use only a low pressure (below 5 PSI), high volume blower for purging the pump, filter, or piping.

For outdoor/unprotected installations:

1. Enclose entire system in a weather proof enclosure.
2. To avoid condensation/corrosion damage, allow ventilation; do not wrap system in plastic.
3. Use a 40% propylene glycol/60% water solution to protect pump to -50°F (-46°C).



NOTICE: Allowing pump to freeze will damage pump and void warranty!



NOTICE: Use only non-toxic antifreeze. Do not use automotive antifreeze. It is highly toxic and may damage plastic components in the system.

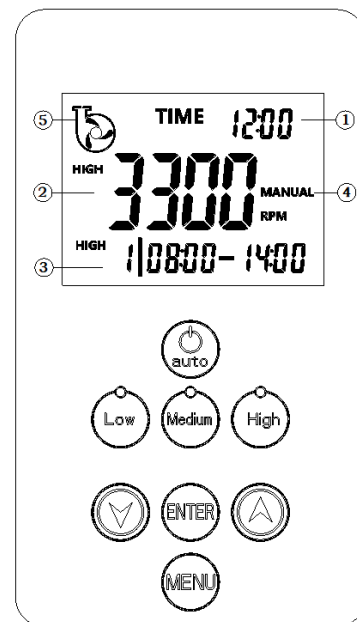
Operation (continued)

Operation of Control Panel

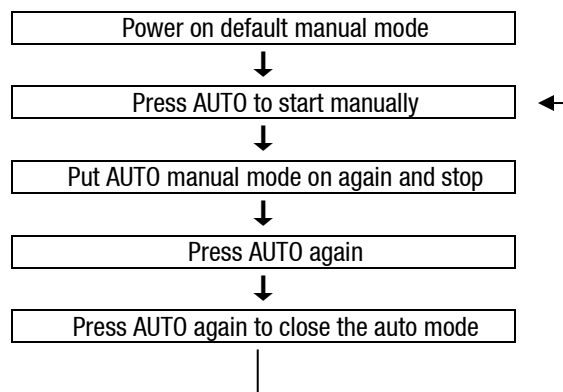
This series of swimming pool pumps are equipped with human-machine interface, which can display the current time, pump start and stop state, current speed and working mode in real time. You can also set the working mode and current time through the buttons on the panel, where the working mode can be automatic or manual.

As shown in the figure below, the upper part is the LCD display area, respectively shows:

1. The current time, as shown in the figure, is currently 12:00.
2. As shown in the figure, the current speed is 3300RPM and the gear is HIGH.
3. Start and stop time period and gear in automatic mode, as shown in the figure, the first start and stop time period in automatic mode is 8:00-14:00, and the operating gear is HIGH.
4. Working mode. The mode is divided into MANUAL and AUTO, as shown in the figure for MANUAL file.
5. Pump operation indication, impeller rotation indicates pump operation, animation icon rotation speed will change according to the high, middle and low three gears.



1. Pump operation mode



In the automatic mode, 4 working periods can be set every day, and the rotation speed of the four working periods can be set to different speeds, among which the rotation speed is adjustable 600RPM ~ 3500RPM. If the current time is within the period set by the user, the pump will work according to the start and stop time and the set rotation speed set by the user. Under the automatic mode, the default startup time is **high speed 3500RPM for 5 minutes**. After 5 minutes, the startup time will be automatically switched to the speed set by the customer.

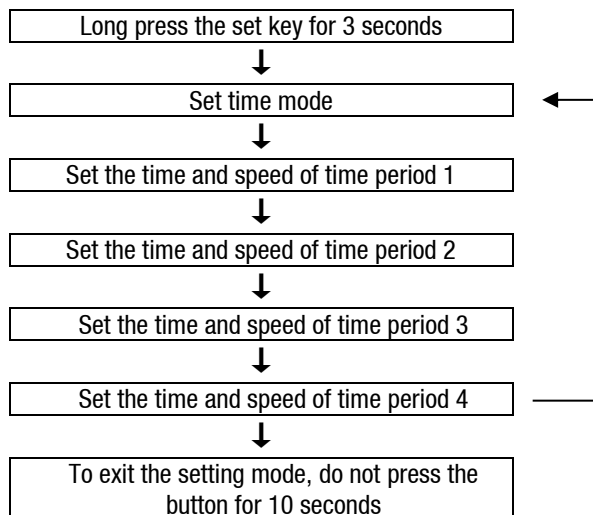
In manual mode, the user controls the start and stop of the pump by pressing the start and stop button, and the speed can be passed through the

panel , , three buttons to switch, can also go through “” “” button to adjust the speed, press the “” or “” button every time, speed increase or decrease 25RPM, adjustable range is 600RPM ~ 3500RPM.

LOW: 1200 MEDIUM: 2000 HIGH: 3500

Operation (continued)

2. Set pump parameters



3. Set time

Long press  for more than 3 seconds to enter the setting mode and enter the setting time state. The 12 of **TIME 12:00** start flashing, you can go through  and  to adjust the hours. Press  to confirm, and enter the mode of setting minutes. At this time, the **00** flash starts, it can also be adjusted by  and . When the time is adjusted, the setting will be automatically saved in 10 seconds, and the setting time mode will exit to enter the working mode. Note: The set time will be kept for a maximum of 2 months after power failure and the time may need to be reset for more than 2 months.

4. Set working time and speed

In the setting mode, after setting the current time, it will automatically enter the setting time period 1 mode. At this time, you can set the start time and stop time of the pump as well as the running speed. When **08** in **10:00-14:00** starts flashing, the time can be adjusted through  and , press  to confirm, and so on, after when set the start time and stop time, **3300** start flashing, at this time for the first time running speed, we can set the speed by   , also can adjust speed by  and , when press , automatic recording speed and enter the set period 2, and so on. The first time period can be set to a maximum of 5:00–23:59. The second time period can be set as the maximum time period (stop time of the first time period–23:59). The range that can be set for the fourth time period is (0:00–04:59). Time periods 3 and 4 are turned off by default and can be turned on by either  or . When the settings are complete, wait 10 seconds for the system to automatically save the settings. Example 1: The first time period is 8:00–23:59, the second time period is 23:59–23:59, the third time period is off, and the fourth time period is 00:00–03:00. At this time, the pump will run from 8am to 3am the next day. Press  in manual or automatic mode to toggle the display of each set period. When the fault code is displayed, press  to reset the fault.

Operation (continued)

5. Close/turn on the LCD backlight

Press  to turn on/off the LCD backing.

6. Restore factory defaults

Press  and  two buttons at the same time until the LCD is off and lights up again.

7. Fault code description

E14 : Communication failure.

Please check whether the connection line between the display board (upper board) and the drive board (lower board) is loose.

E11 : Supply voltage error.

The normal power supply voltage is $230V \pm 10\%$, please check whether the power supply voltage is normal.

E3 : Locked-rotor protection.

Please check whether the motor is blocked

Er06 : Motor open phase.

Check whether the motor connection is normal.

E8 : Drive overheating.

Care and Cleaning

Pump should only be serviced by qualified personnel. For best results, use only genuine factory parts. Be sure to prime pump before starting.



WARNING: Risk of explosion. Before beginning pump service.

1. Stop pump before proceeding.
2. Close gate valves in suction and discharge pipes.
3. Release all pressure from pump and piping system.



WARNING: Risk of electric shock. Can shock, burn or kill. Disconnect power before working on pump or motor.

When using factory authorized parts, no lubrication or regular maintenance is needed beyond reasonable care and periodic cleaning of the strainer basket.

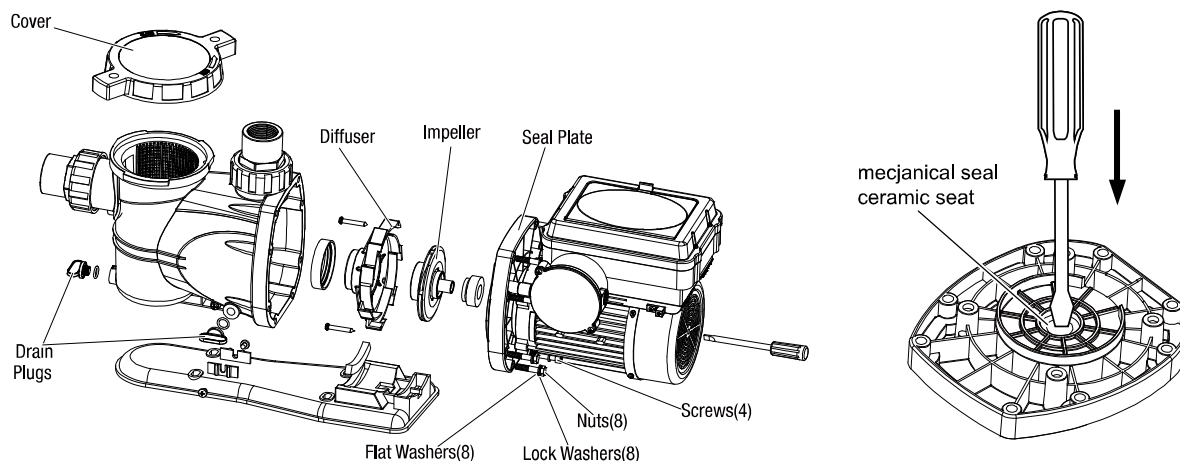
If shaft seal is worn or damaged, repair as follows:

Pump Disassembly/Removing Old Seal

Before disassembly, disconnect power to pump motor. Be sure gate valves on suction and return piping are closed. Release all pressure by opening all vents.

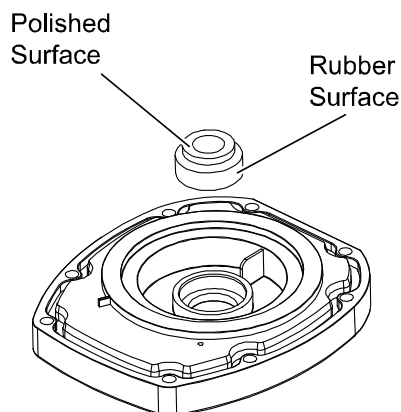
1. Drain pump by removing drain plugs on bottom of pump body and trap body.
2. Be sure there is no pressure in trap body; remove cover (unscrew by turning counterclockwise).
3. Remove eight nuts, lock washers and flat washers holding seal plate to pump body. Pull seal plate and motor away from pump body. You may have to CAREFULLY use a screwdriver to separate body from seal plate.
4. Remove two screws holding diffuser to seal plate. Remove diffuser.
5. Hold shaft with flat-head screw on motor shaft flats.
6. Unscrew impeller from shaft (turn counterclockwise when facing it).
7. Remove four screws holding seal plate to motor.
8. Place seal plate face down on flat surface and tap out ceramic seat.
9. Clean seal cavity in seal plate and clean motor shaft.

Care and Cleaning (continued)



Pump Reassembly/Installing New Seal

1. Ceramic seat must be clean and free of dirt, grease, dust, etc. Wet outer edge with small amount of liquid detergent; press ceramic seat into seal plate cavity firmly and squarely with finger pressure.
2. If ceramic seat will not locate properly, remove it, place face up on bench and re-clean cavity. Ceramic seat should now locate.
3. If seat still will not locate properly, place a cardboard washer over the polished face and use a piece of 3/4 in. (19 mm) standard pipe for pressing purposes. Do not scratch or mar polished surface or seal will leak.
4. Remount seal plate on motor. Tighten bolts to 60–80 inch-lbs. (69–92 kg/cm) torque.
5. Apply a small amount of liquid detergent to inside diameter of rotating half of seal.
6. Slide rotating seal member, polished carbon face out, over impeller sleeve until rubber drive ring hits back of impeller. Do not nick or scratch polished seal face; seal will leak if face is damaged.
7. Screw impeller onto shaft (clockwise); this will automatically locate seal in seal plate.
8. Mount diffuser on seal plate.
9. Assemble motor and seal plate to pump body with nuts, flat washers and lock washers. Torque nuts to 120–130 in-lbs. (138–150kg/cm).
10. Prime pump according to instructions in Priming Pump.



Troubleshooting

Read and understand safety and operating instructions in this manual before doing any work on pump!

Only qualified personnel should electrically test the pump motor! FAILURE TO PUMP; REDUCED CAPACITY OR DISCHARGE PRESSURE

Problem	Possible Cause	Corrective Action
The pump does not pump water.	The pump is not priming.	1. Pump must be primed. Make sure that pump body and basket body are full of water. See priming instructions.
	There are leaks in the suction piping.	2. Make sure there are no leaks in suction piping.
	The suction inlet is above water level.	3. Make sure suction inlet is well below the water level to prevent pump from sucking air.
	The vertical distance of the pump is too high to water level.	4. Pump is designed to prime at a vertical distance of 10 ft. or less. Verify suction lift is 10 ft or less. Lower pump closer (vertically) to water source.
	The pump is clogged.	1. Make sure suction trap is not clogged; if it is, then clean trap and strainer.
		2. Make sure the impeller is not clogged
	The impeller and diffuser are worn.	3. Impeller and diffuser may be worn. If so, order replacement parts. For more information call customer service.
The pump is experiencing electrical issues.	The voltage is incorrect.	1. Pump may be running too slowly; check voltage at motor terminals and at meter while pump is running. If low, see wiring instructions or consult power company. Check for loose connections
		2. Pump may be too hot. A. Check line voltage; if less than 90% or more than 110% of rated voltage consult a licensed electrician. B. Increase ventilation. C. Reduce ambient temperature. D. Tighten any loose connections.
The pump is experiencing mechanical troubles and noise.	There are issues with the piping.	1. If suction and discharge piping are not adequately supported, pump assembly will be strained. See "Installation".
	The pump is improperly mounted.	2. Do not mount the pump on a wooden platform! Securely mount on a concrete platform for quietest performance before working on pump or motor.



Questions, problems, missing parts? Before returning to the store call
Everbilt Customer Service
8 a.m. - 6 p.m., EST, Monday-Friday

1-844-241-5521

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