13” TIMER SAND FILTER PLUS 3/4HP ABOVEGROUND SELF PRIMING POOL PUMP

ITEM: 75159









OWNER’S MANUAL AND SAFETY INSTRUCTIONS

SAVE THIS MANUAL: KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATING, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT’S SERIAL NUMBER ON THE BACK OF THE MANUAL NEAR THE ASSEMBLY DIAGRAM (OR MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO NUMBER).

FOR QUESTIONS PLEASE CALL OUR CUSTOMER SUPPORT: (909) 628 0880 MON-FRI 9AM TO 3PM PST

IMPORTANT SAFETY INFORMATION

WARNING

GENERAL SAFETY WARNINGS

SERIOUS BODILY INJURY OR DEATH CAN RESULT IF THIS PUMP AND SAND FILTER IS NOT INSTALLED AND USED CORRECTLY. INSTALLERS, POOL OPERATORS AND POOL OWNERS MUST READ THESE WARNINGS AND ALL INSTRUCTIONS BEFORE USING THIS PUMP AND SAND FILTER.

SAFETY

Most states and local codes regulate the construction, installation, and operation of public pools and spas, and the construction of residential pools and spas. It is important to comply with these codes, many of which directly regulate the installation and use of this product. Consult your local building and health codes for more information.

IMPORTANT: Attention Installer: This Installation and User's Guide contains important information about the installation, operation and safe use of this pump and sand filter. This Guide should be given to the owner and/or operator of this equipment.

- The sand filters are designed to work with water temperature > 0° C and < than 45 0° C. The filter should never be operated outside of these temperatures or damage may occur. The installation should be carried out in accordance to the safety instructions of swimming pools and the specific instructions for each facility.
- A pool or spa pump must be installed by a qualified pool and spa service professional in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation may create an electrical hazard which could result in death or serious injury to pool users, installers, or others due to electrical shock, and may also cause damage to property
- To reduce the risk of injury, do not permit children to use or operate this pump and sand filter.
- Do not bury the electrical cord. Locate the cord where it will not be damaged by lawn mowers, hedge trimmers and other equipment.
- To reduce the risk of electric shock, replace damaged cord immediately. Use a qualified electrician to replace the cord.
- When setting up pool water turnovers or flow rates the operator must consider local codes governing turnover as well as disinfectant feed ratios
- To reduce the risk of electric shock, do not use extension cords, timers, plug adaptors or converter plugs to connect unit to electric supply; provide a properly located outlet.
- Pumps improperly sized or installed or used in applications other than for which the pump was intended can result in serious personal injury or death. These risks may include but not be limited to electric shock, fire, flooding, suction entrapment or serious injury or property damage caused by a structural failure of the pump or other system component
- NEVER run the pump when dry. Doing so will damage the seals, causing leakage and flooding. Make sure to fill the pump with water before starting the motor.
- NEVER put chemicals directly into the suction inlet. Doing so can damage the product and void your warranty.
- Position this product away from pool, so as to prevent children from climbing on it and access the pool.

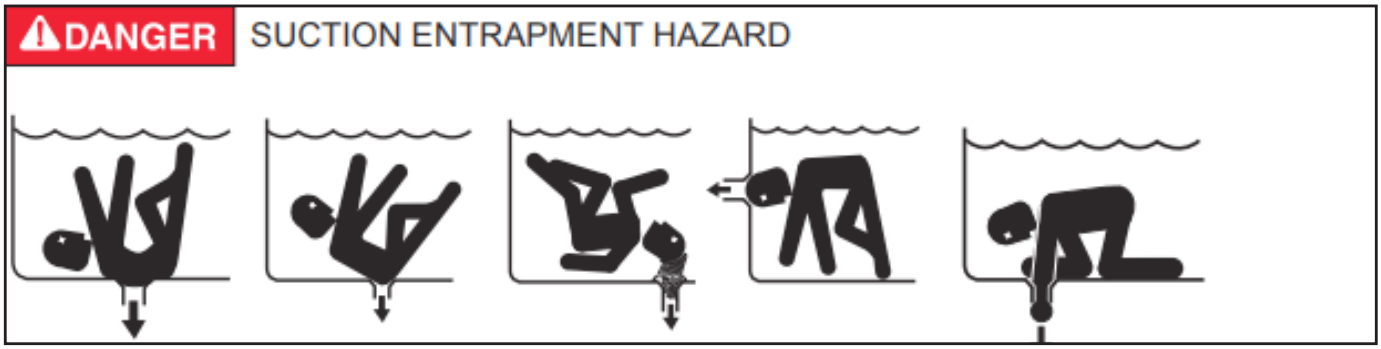
WARNING IMPORTANT SAFETY INFORMATION

- Do not operate this product when pool is occupied.
- To reduce the risk of entrapment hazard, never enter the pool if suction strainer component is loose, broken, cracked, damaged or missing. Replace loose, broken, damaged, cracked or missing suction strainer components immediately.
- Never play or swim near suction fittings. Your body or hair may be trapped causing permanent injury or drowning.
- To prevent equipment damage and risk of injury, always turn pump off before changing the filter control valve position.
- Never operate this product above the maximum working pressure stated on the filter tank.
- Hazardous Pressure. Improper tank valve cover assembly could cause the valve cover to blow off and cause serious injury, property damage or death.
- This product is for use with storable pools only. Do not use with permanently-installed pools. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage.
- The suction and relief valve must be opened before starting the circulating system of the pump. Doing so may result in injury or property damage.
- **WARNING! Electric Shock Hazard: MAKE SURE** to shut off the power supply before draining the pump.
- If water leakage happens, remove the connector and clean the raw materials such as belts and reinstall the connector.

WARNING

HIGH PRESSURE FROM THE SAND FILTER CAN CAUSE SEVERE INJURY OR MAJOR PROPERTY DAMAGE DUE TO TANK SEPARATION. RELEASE ALL PRESSURE AND READ INSTRUCTIONS BEFORE WORKING ON THE SAND FILTER. IF THE FILTER CLAMP IS ADJUSTED UNDER PRESSURE, THE TANK CAN SEPARATE, CAUSING SERIOUS INJURY OR MAJOR PROPERTY DAMAGE.

PUMPS REQUIRE HIGH VOLTAGE WHICH CAN SHOCK, BURN, OR CAUSE DEATH.
BEFORE WORKING ON PUMP! ALWAYS DISCONNECT POWER TO THE POOL PUMP AT THE CIRCUIT BREAKER BEFORE SERVICING THE PUMP. FAILURE TO DO SO COULD
RESULT IN DEATH OR SERIOUS INJURY TO SERVICE PERSON, POOL USERS OR OTHERS DUE TO ELECTRIC SHOCK.



WARNING IMPORTANT SAFETY INFORMATION

POOL AND SPA PUMPS MOVE LARGE VOLUMES OF WATER, WHICH CAN POSE EXTREME DANGER IF A PERSON;S HAIR COMES IN PROXIMITY TO A DRAIN THAT IS NOT THE PROPER SIZE FOR THE PUMP OR PUMPS.

The Virginia Graeme Baker Pool and Spa Safety Act imposes certain new requirements on owners and operators of swimming pools and spas. Pools or spas constructed on or after December 20, 2008, shall utilize:
(A) No submerged suction outlets, a gravity drainage system with ASME/ANSI cover(s), one or more unblock-able outlets; or
(B) A multiple main drain system without isolation capability with suction outlet covers that meet ASME/ANSI A112.19.8 Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs and either:
(I) A safety vacuum release system (SVRS) meeting ASME/ANSI A112.19.17 Manufactured Safety Vacuum Release Systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub, and Wading Pool Suction Systems and/or ASTM F2387 Standard Specification for Manufactured Safety Vacuum Release Systems (SVRS) for Swimming Pools, Spas and Hot Tubs or
(ii) A properly designed and tested suction-limiting vent system or
(iii) An automatic pump shut-off system. Pools and spas constructed prior to December 20, 2008, with a single submerged suction outlet shall use a suction outlet cover that meets ASME/ANSI A112.19.8 and either:
(A) A multiple main drain system without isolation capability, or
(B) A safety vacuum release system (SVRS) meeting ASME/ANSI A112.19.17 and/or ASTM F2387, or
(C) A properly designed and tested suction-limiting vent system, or
(D) An automatic pump shut-off system, or
(E) Disabled submerged outlets, or
(F) Suction outlets shall be reconfigured into return inlets.

This filter operates under high pressure. When any part of the circulating system (e.g., clamp, pump, filter, valves, etc.) is serviced, air can enter the system and become pressurized. Pressurized air can cause the lid or control valve to separate which may result in serious injury, death, or property damage. To avoid this potential hazard, follow these instructions.
1. Before repositioning valves and before beginning the assembly,
disassembly, or adjustment of the clamp or any other service of the circulating system:
(a) Turn the pump off and shut off any automatic controls to ensure the system is not inadvertently started during the servicing;
(b) Open manual air relief valve;
(c) Wait until all pressure is relieved, pressure gauge must read zero (0).
2. Whenever installing the filter clamp, follow the filter valve and clamp installation instructions exactly.
3. Once service on the circulating system is complete, follow system restart instructions exactly.
4. Maintain circulation system properly. Replace worn or damaged parts immediately (e.g., clamp, pressure gauge, relief valve, o-rings, etc.).
5. Be sure that the filter is properly mounted and positioned according to instructions provided.

Failure to operate your filter system or inadequate filtration can cause poor water clarity obstructing visibility in your pool and can allow diving into or on top of obscured objects, which can cause serious personal injury or drowning.

This filter operates under pressure. With the valve clamped properly and operated without air in the system, this filter will operate in a safe manner. Air entering the filter and the valve not clamped correctly can cause the valve to separate, which could cause serious personal injury and/or property damage.

SAFETY / FEATURES

Always turn pump off before changing valve positions. Changing valve positions while the pump is running can damage the control valve, which may cause serious injury or property damage.

Chemical fumes and/or spills can cause serious corrosion to the filter and pump structural components. Structurally weakened components can cause filter, pump or valve attachments to separate and could cause serious bodily injury or property damage. High voltage can cause serious or fatal injury. Always install a suitable GFCI at the power source of this unit as an added safety precaution. Article 681-31 of the NEC requires that a GFCI be used if this pump is used with a storable pool.

Never work on the pump while it is running or power is still connected. High voltage can cause serious or fatal injury. A suitable ground fault interrupter should always be installed at the power supply source of this unit. Be sure to ground the motor before connecting to electrical AC power supply. Failure to ground the motor can cause serious or fatal electrical shock hazard. DO NOT ground to a gas supply pipe line.

FOR CORD AND PLUG CONNECTED UNITS: Connect only to a ground type receptacle protected by a Ground Fault Circuit Interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by GFCI. Do Not Bury Cord. Locate cord to minimize abuse from lawn mowers, hedge trimmers, and other equipment. To reduce the risk of electrical shock, replace damaged cord immediately. To reduce the risk of electrical shock, Do Not Use an extension cord to connect unit to electrical supply; provide a properly located outlet.

PRODUCT FEATURES

This sand filter is ideal for keeping pool cleaner and cleaner system easy to operate. It features top mount multi-ports for making using the system and backwashing quick and easy. It also is powered by a 3/4 HP with timer.

- **13” Sand Filter with 4-Way Valve**
- **3/4HP Self-Priming Digital Timer Pump 2640 GPH**
- **115V 60HZ 3.6AMP 3-Prong Plug with Electric Cable**
- **Recommended for above-ground pools up to 10,000 gallons**
- **Max Water Temperature 105 F**
- **Max Suction 32ft**
- **ETL certificated**
- **UL Listed**
- **CSA certificated**



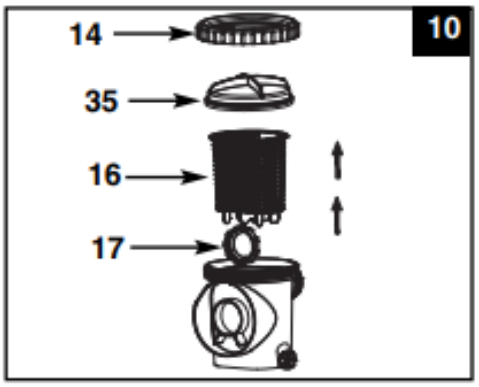
INSTALLATION

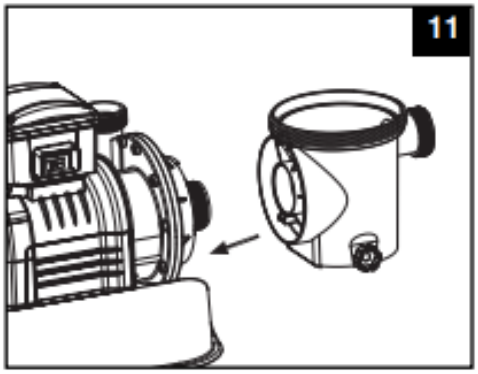
PUMP LOCATION AND MOUNTING:

• THE SYSTEM MUST BE INSTALLED ON A SOLID LEVEL AND VIBRATION-FREE BASE.
• PROVIDE A LOCATION PROTECTED FROM THE WEATHER, MOISTURE, FLOODING AND FREEZING TEMPERATURE.
• PROVIDE ADEQUATE ACCESS, SPACE AND LIGHTING FOR ROUTINE MAINTENANCE.
• PUMP MOTOR REQUIRES FREE CIRCULATION OF AIR FOR COOLING. DO NOT INSTALL THE PUMP IN A DAMP OR NON-VENTILATED LOCATION. A TEAM OF 2 OR MORE PEOPLE IS RECOMMENDED FOR SETTING UP THIS PRODUCT.

MOTOR PRE-FILTERING ASSEMBLY SETUP:

1. REMOVE THE SAND FILTER AND ITS ACCESSORIES FROM THE PACKAGING CAREFULLY AND INSPECT FOR ANY VISIBLE DAMAGE. IF PARTS ARE DAMAGED CONTACT YOUR LOCAL SERVICE CENTER LISTED AT THE BACK OF THIS OWNER'S MANUAL.
2. IN A COUNTER-CLOCKWISE MOTION UNSCREW THE LEAF TRAP COVER (14) FROM THE PRE-FILTER HOUSING. TAKE OUT THE BASKET (16) AND FILTER HOUSING NUT (17) (SEE DRAWING 10).
3. CONNECT THE PRE-FILTER HOUSING TO THE MOTOR WATER INLET. NOTE: ALIGN THE CONNECTOR IN THE PRE-FILTER HOUSING WITH THE WATER INLET ON THE MOTOR.





This pump utilizes advanced technology with the feature of an automatic timing controller. In accordance with the following simple yet effective preventative measures when installing the Sand Filter Pump.

1. Make sure to tighten the anchor bolts in order to avoid the influence of vibrational movements.

2. The suction hose of the pump should be larger than 40mm and its diameter must be equal or larger than the siameter of the release hose.

3. **DO NOT** allow any air to enter the pump while it is running.

4. The pump must be connected to the correct power supply and voltage. This can be found on the nameplate label.

5. Connections should be made by a qualified technician.

6. The suction hose must be continuously tilted upwards from the bottom. The joint should be tight but not too tight.

7. The ideal temperature for a working pump is 0 °C - 40 °C. If the temperature is too high or low, the pump will stop working. Otherwise it may damage the filter and pump.

8. A ground lead must be used to protect the motor.

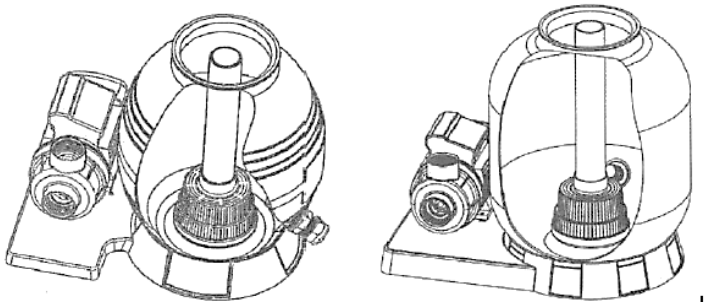
9. To avoid deforming the pump, the weight of the installed hoses should not be added to the pump.

INSTALLATION

1. Pump needs screw and cover to install on the filter drain.



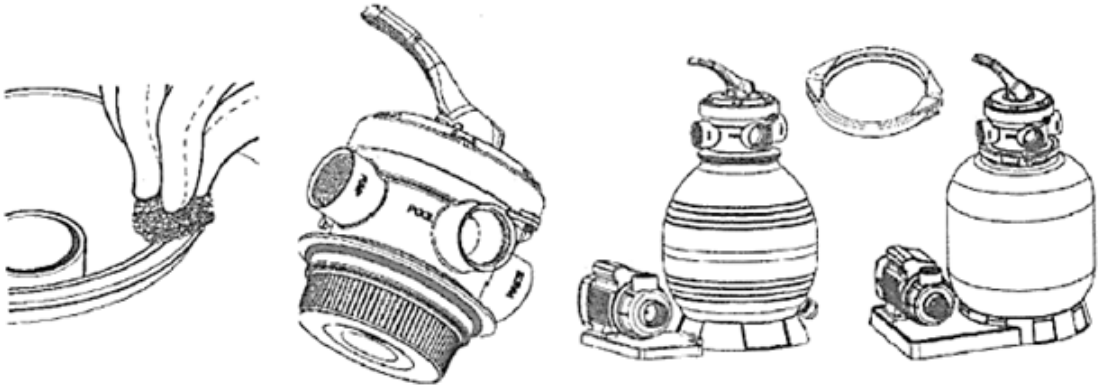
2. Press and turn the sand tank to mount it to the sand filter support with correct direction, drain plug on the outside (see below)



3. Insert the tube with diffuser body inside the tank as above picture shows, then place the funnel on the tank's mouth and out the quartz sand into the tank. A 12" sand filter requires about 19kg of sand to fill the tank, a 14" sand filler needs about 27kg of sand to fill the tank.



4. Remove the funnel and make sure the tank's neck is clean. Put the O-ring on the valve and use clamp to fix the valve with the tank. Pump port valve direction needs to face pump's out-port.



5. Connect the sand tank to the pump with hose and hose adapters.



INSTALLATION NOTES:

- Make sure the filter has worked under work pressure and using a pressure control valve when the system is using a booster pump.
- If the pump position is higher than the water level, it requires installation of the back water control valve.
- If the pump position is higher than the water level, it requires installing an isolation valve. It can stop the water return back when doing the general inspection.
- Reduce the connection adapters and hose connection, bending as little as possible. Decreasing the water flow scrub can reach the maximum effectiveness
- Ensure solvents are not excessively applied to the fitting as this can run onto the O-ring and create sealing issues.
- Do not over tighten fittings or adapters.

HOW TO USE:

1. Inspect all connections have been made and are secure.

2. Depress the top mount valve handle and rotate to **BACKWASH** position.

3. Prime and start pump according to the pump instructions.

NOTE

All suction and discharge valves must be opened when starting the system. Failure to do so can cause severe personal injury. Make sure the filter vessel are full. Fill the water before start-up the pump. Failure to do so can cause damage to the pump.

4. Once water flows steadily out of the waste line, run the pump for at least 2 minutes. The initial back-washing of the filter is recommended to remove any impurities of fine sand.

5. Turn the pump off and set the valve to **RINSE** position. Start the pump and operate until water in the sight window is clear. Turn the pump off and set the valve to the **FILTER** position and restart the pump. Your filter is now operating in the normal filter mode, filtering particles from the pool water.

POWER CONNECTION

Be sure to check whether used voltage is corresponding to the required voltage indicated on the nameplate label. The voltage for the motor should not exceed 10% or below the requirement on the requirement on the nameplate label. If too much voltage is applied, the motor will overheat and lead to overload trip and shorten the life of the component. All connections must be applied by a qualified technician. All wiring must comply with local and national and local laws. The leakage circuit breaker must be configured to avoid electric shock when deterioration of the insulation occurs due to product age.

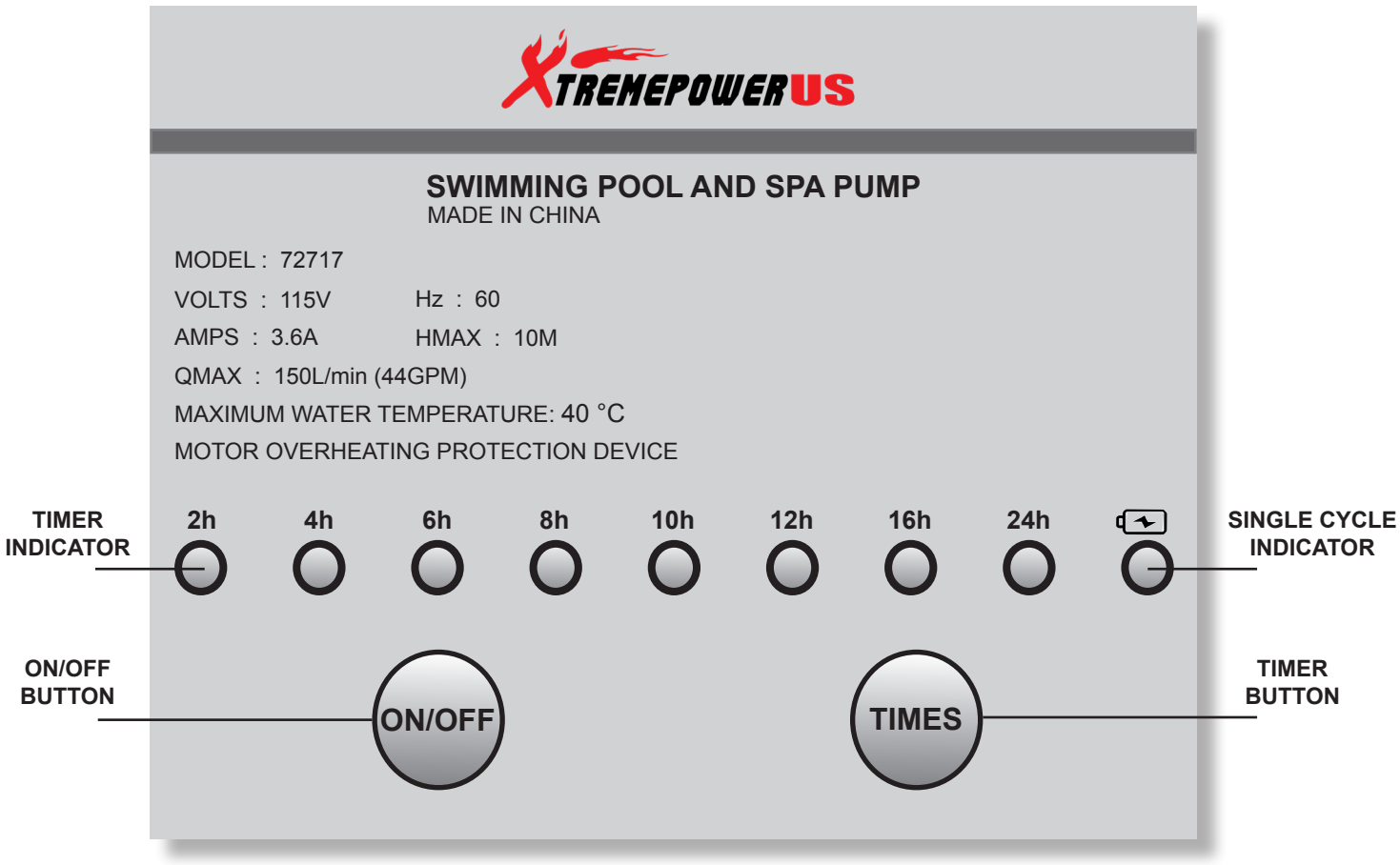
CONTROL PANEL INSTRUCTION

TIMER INITIATION

NOTE: Make sure the power supply is off.

1. Unscrew the four screws on the lid of the terminal box and remove the lid.
2. Remove the battery.
3. Remove the rubber film on the surface of the battery.
4. Replace the battery.
5. Replace the lid on the terminal box and re-tighten the four screws.

BUTTON CONTROL INSTRUCTION



OPERATION

BUTTON INSTRUCTION

ON / OFF BUTTON: Starts and stops the pump

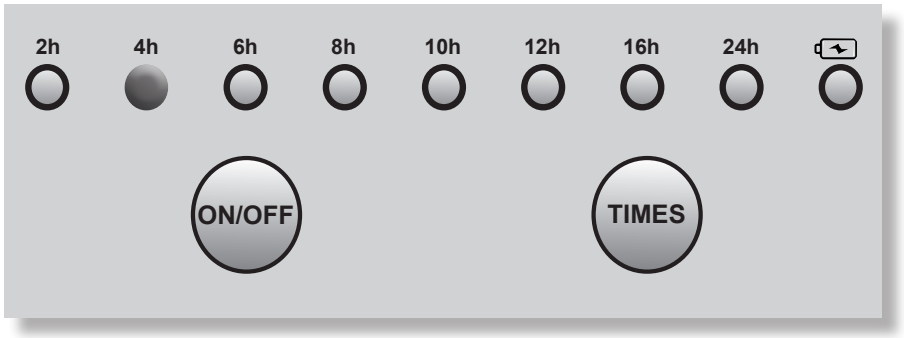
TIMER BUTTON: Set the desired operation period: 2h/4h/6h/8h/10h/16h/24h

Depressing the Timer button more than 10 seconds the Single Cycle indicator light will flash. If the Timer Indicator light flashes in '24h' this means the Single Cycle Indicator light did not work. Press the **TIME** button to adjust the time. The pump must be stopped, otherwise the time cannot be adjusted. There are two operation modes in the control panel: Continuous Mode and Single Cycle Mode

CONTINUOUS MODE:

After turning on the pump, the default setting is 24 hours continuous operation (Indicator light flashes in 24hr marker) To set the desired operation period press the TIMER button, the indicator lights flash among 2h/4h/6h/8h/10h/16h/24h. Then press the ON / OFF button, the pump should start running. The running time is what the indicator light shows.

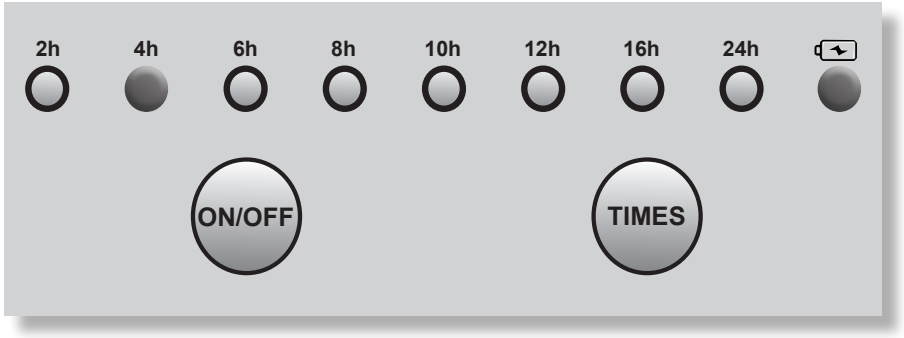
For example, if you see the timer to 4h and press ON at 8:00, the pump will operate for 4 hours and stop at 12 and the indicator light will stop flashing. The pump will start again for 4 hours at 8:00 the following days.



SINGLE CYCLE MODE:

Depressing the TIMER button more than 10 seconds the Single Cycle Indicator light will flash and switch to Single Cycle mode. In the Single Cycle Mode press ON, the pump will work and Stop when it runs out on the running time and will work again until the power supply is reconnected. To change the setting time, press the Timer button.

For example, if you see the timer to 4h n a single cycle mode the pump will stop automatically after running for 4 hours and it will not start again until you cut off the power and reconnect the power supply.



MAINTENANCE AND TROUBLESHOOTING

- ☑ Confirm the screws in the baseboard are installed tightly. If any are found, re-tighten them before use.
- ☑ Confirm the power cords are in good condition. If any parts are worn, cracked or in bad condition, replace them prior to starting the pump.
- ☑ The pump should be stopped immediately if the temperature is too high. Inspect and if need be, have a technician repair it.
- ☑ If loud noises are coming from the pump, turn the power off immediately and have a service technician service and repair it.

TROUBLESHOOTING

FILTER MOTOR FAILS TO STARTPUMP FAILURE	The motor is not plugged in	Line cord must be plugged into a 3 wire outlet that is protected by a Class A Ground Fault Circuit Interrupter, or RCD
	The fuse box needs checking	Reset circuit breaker. If circuit breaker trips repeatedly, your electrical system may have a defect. Turn off circuit breaker and call an electrician to correct the problem.
	The GFCI/RCD circuit breaker is tripped.	Let the motor cool down and restart again.
	Motor too hot and overload protection is shut off.	
FILTER DOESN'T CLEAN POOL	Improper chlorine or Ph levels.	Adjust the chlorine and pH level. Consult your local swimming pool supply stores
	No filtering media in tank	Load with filter sand
	Wrong 6-way valve setting position	Set valve to " FILTER" position
	Excessively dirty pool	Operate the filter for longer periods
	The strainer screen is restricting the water flow	Clean the strainer screen at the inlet
FILTER DOESN'T PUMP WATER OR FLOW IS VERY SLOW	Clogged inlet or discharge	Clear any obstructions in the intake hose by discharging it inside pool wall
	An air leak on the intake line	Tighten hose nuts, check hoses for damage, check pool water level
	Excessively dirty pool	Clean the pre-filtering basket more often
	Sand media clogged with dirt	Backwash filter
	Nozzle and strainer connections are reversed	Install the nozzle at the upper position of the pool inlet, and the strainer at the lower position of the pool outlet
	Crusting or caking on the filtering sand surface	Remove about 1" of sand if necessary
	Pool vacuuming device attached to the system	Remove any pool vacuuming device attached to the system line
PUMP DOESN'T WORK	Low water level	Fill pool to correct water level
	Strainer screen clogged up	Clean strainer screens at pool inle
	An air leak on the intake hose	Tighten hose nuts, check hose for damage
	Faulty motor or the impeller is jammed	Contact Intex service center
6-WAY VALVE/COVER LEAKING	Sand tank o-ring missing	Remove 6-way valve cover and ensure the o-ring is in
	Sand tank o-ring dirty	Clean sand tank o-ring with garden hose water
	Flange clamp not tight	Tighten the clamp with wrench
HOSE LEAKING	Hose nut not securely tight	Tighten/reinstall hose nut
	Hose connection fitting o-ring/L-shape o-ring missing	Ensure o-ring/L-shape o-ring is in place and not damaged
TIMER IS INACCURATE OR TIMER CAN'T BE SET	Possible inner timer defective.	Turn off the pump and restart 5 minutes later
		Re-set the timer
PRESSURE GAUGE DOESN'T WORK	Clogged inlet of the pressure gauge	Clear any obstructions in the intake by unscrewing it from the 6-way valve
	Pressure gauge damage	
SAND IS FLOWING BACK INTO THE POOL	Sand is too small	Use only No. 20 silica sand with particle size range 0.45 to 0.85 mm (0.018 to 0.033 inches) and a Uniformity Coefficient less than 1.75
	Sand bed is calcified	Change sand

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

⚠ SAVE THESE INSTRUCTIONS.

Questions, problems, missing parts?

Before returning to your retailer, our exceptional customer service is available.

Call us Tel: **909 628 0880**
Hour : **9am To 3pm PST (Monday to Friday)**
Email : **customer@xtremepowerusa.com**