HAYWARD®

XE Pump Series

Owner's Manual

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TriStar® XE
MaxFlo® XE
Super Pump® XE

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IMPORTANT SAFETY INSTRUCTIONS

Basic safety precautions should always be followed, including the following: Failure to follow instructions can cause severe injury and/or death.

⚠ This is the safety-alert symbol. When you see this symbol on your equipment or in this manual, look for one of the following signal words and be alert to the potential for personal injury.

⚠ **WARNING** warns about hazards that could cause serious personal injury, death or major property damage and if ignored presents a potential hazard.

⚠ **CAUTION** warns about hazards that will or can cause minor or moderate personal injury and/or property damage and if ignored presents a potential hazard. It can also make consumers aware of actions that are unpredictable and unsafe.

The **NOTICE** label indicates special instructions that are important but not related to hazards.

⚠ **WARNING - Read and follow all instructions in this owner's manual and on the equipment. Failure to follow instructions can cause severe injury and/or death.**

⚠ **WARNING** – This product should be installed and serviced only by a qualified professional.

⚠ **CAUTION** – All electrical wiring MUST be in conformance with all applicable local codes, regulations, and the National Electric Code (NEC).

USE OF NON-HAYWARD REPLACEMENT PARTS VOIDS WARRANTY.

ATTENTION INSTALLER - THIS MANUAL CONTAINS IMPORTANT INFORMATION ABOUT THE INSTALLATION, OPERATION, AND SAFE USE OF THIS VARIABLE SPEED PUMP THAT MUST BE FURNISHED TO THE END USER OF THIS PRODUCT. FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS COULD RESULT IN SERIOUS INJURY.

⚠ **WARNING** – To reduce risk of injury, do not permit children to use or climb on this product. Closely supervise children at all times. Components such as the filtration system, pumps, and heaters must be positioned to prevent children from using them as a means of access to the pool.

⚠ **CAUTION** – This pump is intended for use on permanently installed swimming pools and may also be used with hot tubs and spas if so marked. Do NOT use with storable pools. A permanently installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity. Though this product is designed for outdoor use, it is strongly advised to protect the electrical components from the weather. Select a well-drained area, one that will not flood when it rains. It requires free circulation of air for cooling. Do not install in a damp or non-ventilated location. If installed within an outer enclosure or beneath the skirt of a hot tub or spa, adequate ventilation and free circulation of air must be provided to prevent overheating of the motor.

For warranty information, please go to www.hayward.com/warranty.

SAVE THESE INSTRUCTIONS

⚠ WARNING – Pool and spa components (seals, gaskets, etc.) have a finite life. All components should be inspected frequently and replaced at least every ten years, or if found to be damaged, broken, cracked, missing, or not securely attached.



⚠ WARNING – **Risk of Electric Shock.** All electrical wiring MUST be in conformance with applicable local codes, regulations, and the National Electric Code (NEC). Hazardous voltage can shock, burn, and cause death or serious property damage. To reduce the risk of electric shock, do NOT use an extension cord to connect unit to electric supply. Provide a properly located electrical receptacle. Before working on pump or motor, turn off power supply to the pump.

⚠ WARNING – To reduce the risk of electric shock replace damaged wiring immediately. Locate conduit to prevent abuse from lawn mowers, hedge trimmers and other equipment.

⚠ WARNING – **Risk of Electric Shock.** In accordance with the National Electric Code (NEC), connect only to a branch circuit protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the circuit is protected by a GFCI. The unit must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test circuit button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the pump without the test button being pushed, a ground current is flowing, indicating the possibility of an electric shock. Do not use this pump. Disconnect the pump and have the problem corrected by a qualified service representative before using.

⚠ WARNING – Failure to bond pump to pool structure will increase risk for electrocution and could result in injury or death. To reduce the risk of electric shock, see installation instructions and consult a professional electrician on how to bond pump. Also, contact a licensed electrician for information on local electrical codes for bonding requirements.

Notes to electrician: Use a solid copper conductor, size 8 or larger. Run a continuous wire from external bonding lug to reinforcing rod or mesh. Connect a No. 8 AWG (8.4 mm2) [No. 6 AWG (13.3 mm2) for Canada] solid copper bonding wire to the pressure wire connector provided on the pump housing and to all metal parts of swimming pool, spa, or hot tub, and to all electrical equipment, metal piping (except gas piping), and conduit within 5 ft. (1.5 m) of inside walls of swimming pool, spa, or hot tub. IMPORTANT - Reference NEC codes for all wiring standards including, but not limited to, grounding, bonding and other general wiring procedures.

⚠ WARNING – **Suction Entrapment Hazard.** Suction in suction outlets and/or suction outlet covers, which are damaged, broken, cracked, missing, or unsecured cause severe injury and/or death due to the following entrapment hazards (symbols complements of APSP):



Hair Entrapment - Hair can become entangled in suction outlet cover.
Limb Entrapment - A limb inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.



Body Suction Entrapment - A differential pressure applied to a large portion of the body or limbs can result in an entrapment.

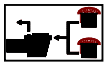


Evisceration/ Disembowelment - A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is damaged, broken, cracked, missing, or unsecured can result in evisceration/disembowelment.



Mechanical Entrapment - There is potential for jewelry, swimsuits, hair decorations, fingers, toes, or knuckles to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

⚠ WARNING – To Reduce the risk of Entrapment Hazards:



- When outlets are small enough to be blocked by a person, a minimum of two functioning suction outlets per pump must be installed. Suction outlets in the same plane (i.e. floor or wall), must be installed a minimum of three feet (3') [0.91 meter] apart, as measured from near point to near point.
- Dual suction fittings shall be placed in such locations and distances to avoid "dual blockage" by a user.
- Dual suction fittings shall not be located on seating areas or on the backrest for such seating areas.
- The maximum system flow rate shall not exceed the values shown in the "Pipe Sizing Chart" found in section 4.3 below.
- Never use pool or spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached.
- Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
- In addition to two or more suction outlets per pump installed in accordance with latest APSP standards and CPSC guidelines, follow all national, state, and local codes applicable.
- Installation of a vacuum release or vent system, which relieves entrapping suction, is recommended.



⚠ WARNING – **Hazardous Pressure.** Pool and spa water circulation systems operate under hazardous pressure during start-up, normal operation, and after pump shut-off. Stand clear of circulation system equipment during pump start-up. Failure to follow safety and operation instructions could result in violent separation of the pump housing and cover due to pressure in the system, which could cause property damage, severe personal injury, or death. Before servicing pool and spa water circulation system, all system and pump controls must be in off position and filter manual air relief valve must be in open position. Before starting pump, all system valves must be set in a position to allow system water to return back to the pool. Do not change filter control valve position while pump is running. Before starting pump, fully open filter manual air relief valve. Do not close filter manual air relief valve until a steady stream of water (not air or air and water mix) is discharged from the valve. All suction and discharge valves MUST be OPEN when starting the circulation system. Failure to do so could result in severe personal injury and/or property damage.



⚠ WARNING – **Separation Hazard.** Failure to follow safety and operation instructions could result in violent separation of pump components. Strainer cover must be properly secured to pump housing with strainer cover lock ring. Before servicing pool and spa circulation system, all system and pump controls must be in off position and filter manual air relief valve must be in open position. Do not operate pool and spa circulation system if a system component is not assembled properly, damaged, or missing. Do not operate pool and spa circulation system unless filter manual air relief valve body is in locked position in filter upper body. All suction and discharge valves MUST be OPEN when starting the circulation system. Failure to do so could result in severe personal injury and/or property damage.

⚠ WARNING – Never operate the circulation system at more than 50 PSI maximum.

⚠ WARNING – **Fire and burn hazard.** Motors operate at high temperatures and if they are not properly isolated from any flammable structures or foreign debris they can cause fires, which may cause severe personal injury or death. It is also necessary to allow the motor to cool for at least 20 minutes prior to maintenance to minimize the risk for burns.

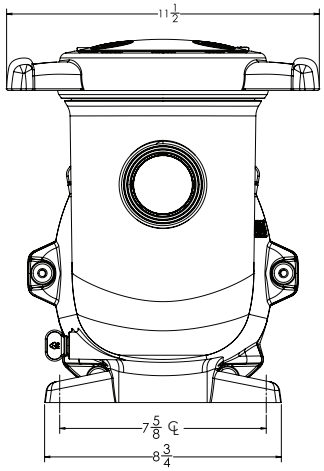
⚠ WARNING – Failure to install according to defined instructions may result in severe personal injury or death.

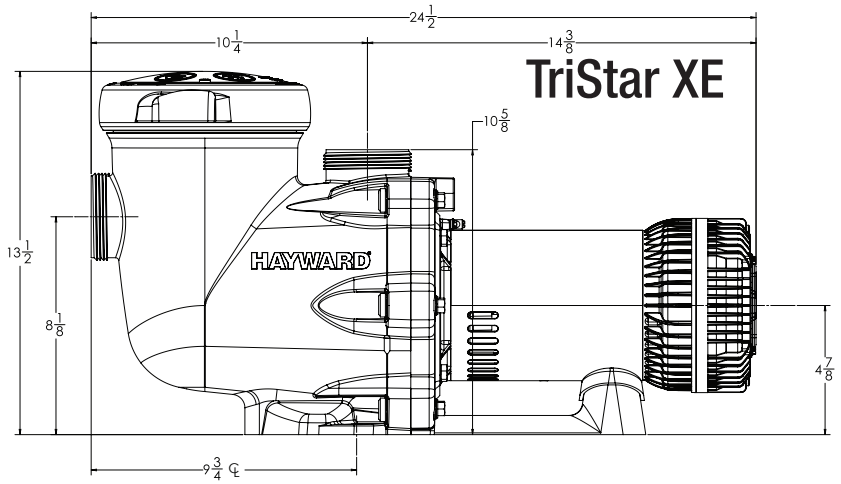
SAVE THESE INSTRUCTIONS

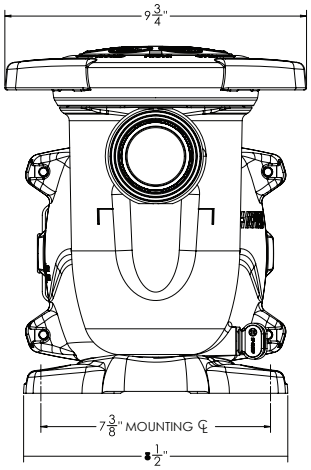
Overview

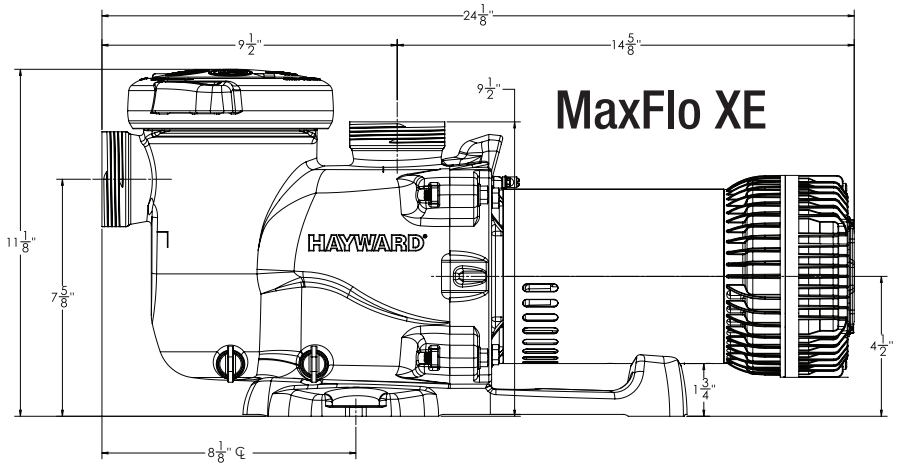
This manual contains information for the proper installation and operation of the Hayward XE variable speed pump family and MUST be followed precisely.

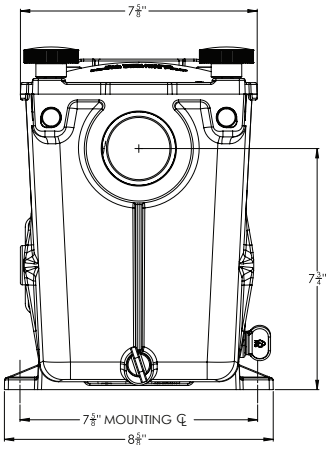
Product Dimensions

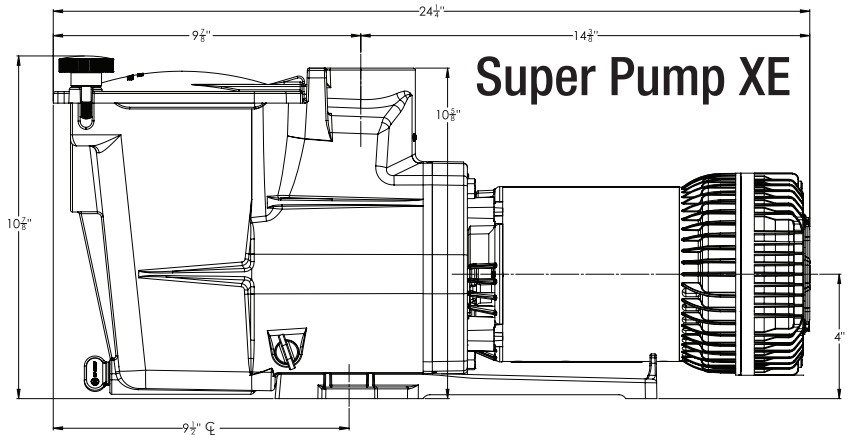










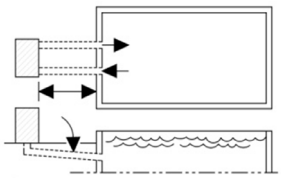


Installation

Pump Location

Locate pump as close to the pool as possible, in compliance with local codes. To reduce friction loss, suction lines should as direct as they can be. Suction lines should have continuous slope upward from lowest point in line. Joints must be tight (but not over-tightened). Suction line diameter must equal or be larger than the discharge line diameter.

Though the pump is designed for outdoor use, it is advised to place pump and filter in the shade to shield them from continuous direct heat. Select a well-drained area that will not flood when it rains. Do NOT install pump and filter in a damp or non-ventilated location. Keep motor clean. Pump motors require free circulation of air for cooling.



Pump Mounting

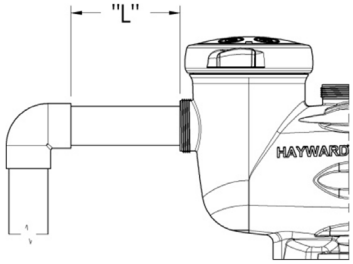
Install pump on a level concrete slab or other rigid base to meet all local and national codes. Secure pump to base with screws or bolts to further reduce vibration and stress on pipe or hose joints. The base must be level, rigid, and vibration free.

Pump mount must:

- Allow pump inlet height to be as close to water level as possible.
- Allow use of short, direct suction pipe (to reduce friction losses).
- Allow for valves in suction and discharge piping.
- Be protected from excess moisture and flooding.
- Allow adequate access for servicing pump and piping.

Pipe Sizing Chart

MAXIMUM RECOMMENDED SYSTEM FLOW RATE BY PIPE SIZE		
Pipe Size in. [mm]	**Maximum Flow Rate GPM [LPM]**	**Minimum Straight Pipe Length "L" in. [mm] ***
1 ½" [50]	45 [170]	7 ½" [190]
2" [63]	80 [300]	10" [254]
2 ½" [75]	110 [415]	12 ½" [317]
3" [90]	160 [600]	15" [381]



Note: It is recommended that a minimum length of straight piping (shown as "L" in above diagram), equivalent to 5 pipe size diameters, be used between the pump suction inlet and any plumbing fittings (elbows, valves, etc.).

When installing the XE pump, care should be taken to ensure proper pipe and equipment sizing to handle the maximum flow required. It is recommended to set the maximum speed in order to not exceed the maximum flow rate.

⚠ **WARNING – Hazardous Pressure.** Pumps, filters, and other equipment/ components of a swimming pool filtration system operate under pressure. Incorrectly installed and/or improperly tested filtration equipment and/or components may fail resulting in severe personal injury or death.

Plumbing

1. Use PTFE tape to seal threaded connections on molded plastic components. All plastic fittings must be new or thoroughly cleaned before use. NOTE - Do NOT use Plumber's Pipe Dope as it may cause cracking of the plastic components. When applying PTFE tape to plastic threads, wrap the entire threaded portion of the male fitting with one to two layers of tape. Wind the tape clockwise as you face the open end of the fitting, beginning at the end of the fitting. The pump suction and outlet ports have molded-in thread stops. Do NOT attempt to force hose connector fitting past this stop. It is only necessary to tighten fittings enough to prevent leakage. Tighten fitting by hand and then use a tool to engage fitting an additional 1 ½ turns. Use care when using PTFE tape as friction is reduced considerably; do NOT over-tighten fitting or you may cause damage. If leaks occur, remove connector, clean off old PTFE tape, re-wrap with one to two additional layers of PTFE tape, and re-install connector.
2. Fittings (elbows, tees, valves, etc.) restrict flow. For better efficiency, use the fewest possible fittings. Avoid fittings that could cause an air trap. Pool and spa fittings MUST conform to the International Association of Plumbing and Mechanical Officials (IAPMO) standards.

Electrical

⚠ WARNING – All electrical wiring MUST conform to local codes, regulations, and the National Electric Code (NEC).

⚠ WARNING – Ground and bond pump before connecting to electrical power supply. Failure to ground and bond pump can cause serious or fatal electrical shock hazard. Do NOT ground to a gas supply line. To avoid dangerous or fatal electrical shock, turn OFF power to pump before working on electrical connections. Fire Hazard - match supply voltage to pump nameplate voltage. Insure that the electrical supply available agrees with the pump's voltage, phase, and cycle, and that the wire size is adequate for the amps rating and distance from the power source. Use copper conductors only.

Electrical Specs

Refer to motor nameplate for voltage and current ratings. Use copper conductors only. For indoor & outdoor use. Connect pump to an appropriately sized/rated branch circuit protector in accordance with local codes, regulations, and the National Electric Code (NEC). A disconnecting means located at least 5 ft. from the inside wall of the pool, spa, or hot tub must be provided.

Voltage

Voltage at pump MUST NOT be more than 10% above or below nameplate rated voltage, or components may overheat, causing overload tripping and reduced component life. If voltage is less than 90% or more than 110% of rated voltage when pump is running at full load, consult the power company.

Grounding and Bonding

1. Install, ground, bond, and wire pump in accordance with local or national electrical code requirements.
2. Permanently ground pump. Use green ground terminal provided under access plate; use size and type wire required by code. Connect ground terminal to electrical service ground.
3. Bond pump to pool structure. Bonding will connect all metal parts within and around the pool with a continuous wire. Bonding reduces the risk of a current passing between bonded metal objects, which could potentially cause electrical shock if grounded or shorted. Reference NEC codes for all wiring standards including, but not limited to, grounding, bonding and general wiring procedures.
4. Use a solid copper conductor, size 8 or larger. Run wire from external bonding lug to reinforcing rod or mesh. Connect a No. 8 AWG (8.4 mm^2) [No. 6 AWG (13.3 mm^2) for Canada] solid copper bonding wire to the pressure wire connector provided on the motor housing and to all metal parts of swimming pool, spa, or hot tub, and to all electrical equipment, metal piping (except gas piping), and conduit within 5 ft. (1.5 m) of inside walls of swimming pool, spa, or hot tub.

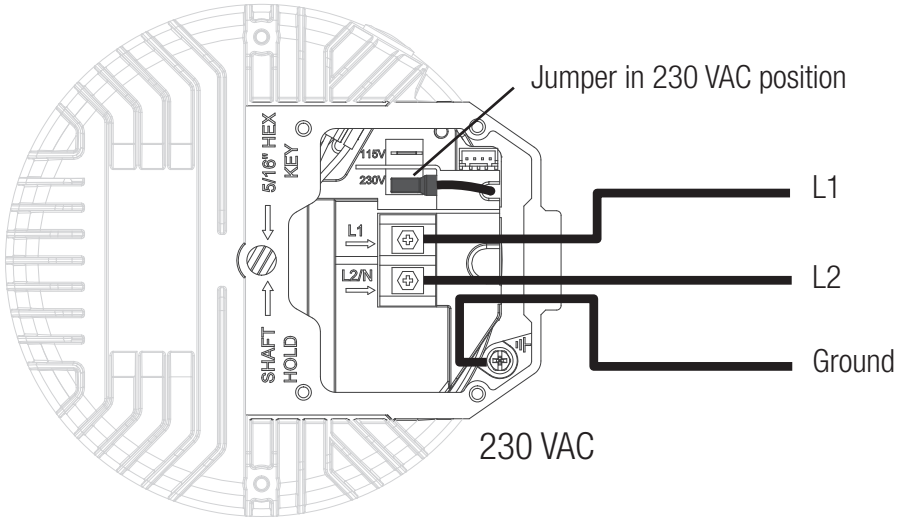
Input Power

⚠ WARNING – All electrical wiring MUST conform to local codes, regulations, and National Electric Code (NEC).

Pump MUST be permanently connected to circuit. Connect pump to an appropriately sized/rated branch circuit protector in accordance with local codes, regulations, and the National Electric Code (NEC). Use the circuit breaker as the master On-Off switch.

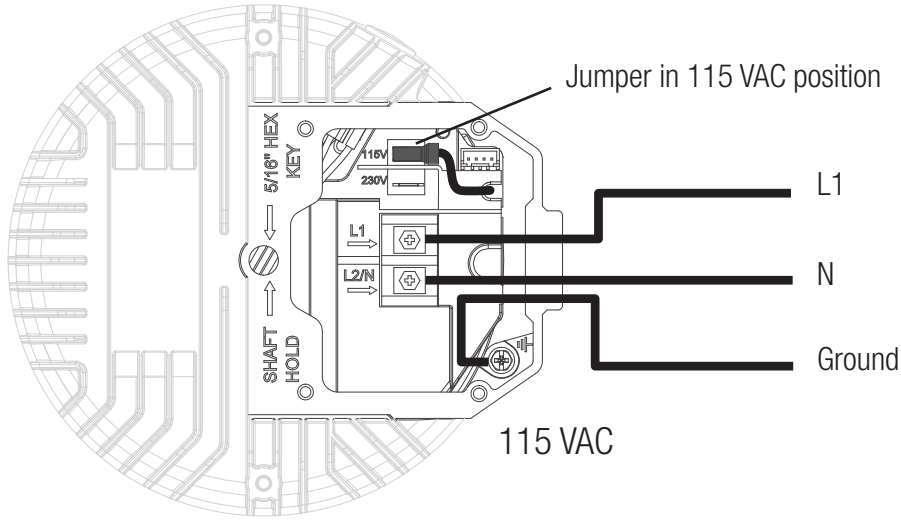
Wiring Connections

1. TURN OFF THE ELECTRICAL POWER AT THE CIRCUIT BREAKER.
2. Loosen the four screws securing the wiring compartment cover and remove the cover to gain access to the drive wiring compartment.
3. Move the selectable input voltage jumper to the appropriate position as shown below (comes set for 230 VAC from the factory). Pull the jumper straight up off the connector to disconnect. Connect line power supply wiring to the appropriate terminals. Connect ground wiring to the ground screw. Exit wiring must be routed through the conduit using proper watertight fittings.



ATTENTION: ROUTE WIRING DIRECTLY FROM FIELD CONDUIT TO TERMINAL BLOCK AS SHOWN. DO NOT BUNDLE EXCESS WIRING INSIDE DRIVE ENCLOSURE.

-USE COPPER CONDUCTORS ONLY
- ACCEPTABLE FOR FIELD WIRING
- NOT SUITABLE FOR USE WITH RIGID METAL CONDUIT
- REMOVE TEST LEADS PRIOR TO INSTALL



4. Connect the pump to the pool bonding system as described on page 7. A lug for bonding is provided on the top of the motor.
5. After all electrical connections have been made, replace the wiring compartment cover, taking care to make sure it is properly aligned with the motor drive. Tighten the four screws to secure. Note: The wiring compartment cover must be installed properly to provide environmental protection for the wiring compartment.

Operation

Prior to Start-Up

If it is necessary to perform a water pressure test prior to initial use to ensure plumbing system is functioning properly, then the following criteria should be maintained for this test:

1. Have a professional perform this test.
2. Ensure all Hayward pump and system components are removed from system prior to performing test.

⚠ **WARNING** – If circulation equipment must remain in the plumbing system during water pressure test, do not apply more than 10 psi pressure to the system. Be sure water pressure has been released, using the filter manual air relief valve, before removing pump strainer cover.

⚠ **WARNING**– All suction and discharge valves MUST be OPEN, as well as filter air relief valve (if available) on filter, when starting the circulating pump system. Failure to do so could result in severe personal injury.

Starting/Priming the Pump

Fill strainer housing with water to suction pipe level. If water leakage occurs from anywhere on the pump or filter, DO NOT start the pump. If no leakage occurs, stand at least 10 feet from pump and/or filter and proceed with starting the pump. To start the pump for priming, use Manual Override described in the Pump Control and Programming section below.

⚠ **WARNING** – Return to filter to close filter manual air relief valve when a steady stream of water (not air or air and water) is discharged from valve. Failure to do so could result in severe personal injury.

⚠ **ATTENTION** – NEVER OPERATE THE PUMP WITHOUT WATER. Water acts as a coolant and lubricant for the mechanical shaft seal. NEVER run pump dry. Running pump dry may damage seals, causing leakage, flooding, and voids warranty. Fill strainer housing with water before starting motor.

⚠ **ATTENTION** – Do NOT add chemicals to pool/spa system directly in front of pump suction. Adding undiluted chemicals may damage pump and voids warranty.

⚠ **ATTENTION** – Before removing strainer cover:

1. STOP PUMP before proceeding.
2. CLOSE VALVES in suction and outlet pipes.
3. RELEASE ALL PRESSURE from pump and piping system using filter manual air relief valve. See filter owner's manual for more details.
4. Remove strainer cover and fill strainer housing with water.
5. Clean and lubricate strainer cover O-ring with "Jack's 327" if necessary.
6. Replace strainer cover on strainer housing.
7. OPEN VALVES in suction and outlet pipes.

Note: Tighten strainer cover (lock ring or hand knobs) by hand only. Do not use tools or wrenches.

Turn on power and wait for pump to prime, which can take up to ten (10) minutes. Priming time will depend on vertical length of suction lift and horizontal length of suction pipe. If pump does NOT prime within 10 minutes, stop motor and determine cause. Be sure all suction and discharge valves are open when pump is running. See Troubleshooting Guide.

Pump Control and Programming

The XE Pump user interface consists of a single push button with an LED indicator ring as shown below.

The push button allows the user to:

- Program the daily schedule
- Enter Manual Override mode
- Clear motor/drive errors

Button function quick reference:

Operating Mode	Button Press	Action
Normal Operation	Quick Press	Start manual override
	Press and hold 4 seconds	Start programming mode
Manual Override	Quick Press	Change manual override speeds
	Press and Hold 4 seconds	Exit manual override

The LED indicator communicates operating mode and pump status.

Operating Mode or Status	LED Behavior
Normal Operation	Solid Green
Manual Override	Slow Flashing ON/OFF
Programming – Interval 1	Quick Flashing - One Blink
Programming – Interval 2	Quick Flashing - Two Blinks
Programming – Interval 3	Quick Flashing - Three Blinks
Press & Hold Confirmation	Three Rapid Flashes
System Errors	See Table on page 15

Operating Speeds

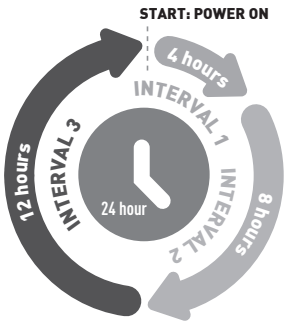
There are six speeds available on the XE pumps. When programming the Daily Schedule (page 11), refer to this information.



Normal Operation – The Daily Schedule

The XE pump will operate on a 24 hour daily schedule which runs continuously and restarts every 24 hours. This 24 hour schedule is split into 3 time intervals which are each programmable to one of several different speeds. The default schedule from the factory is shown below:

	24 Hour Daily Schedule - Default		
	Interval 1	Interval 2	Interval 3
Duration	4 Hours	8 Hours	12 Hours
Speed	50%	50%	50%



To prime the system, the pump will run for 8 minutes at maximum speed whenever power is first applied.

The daily schedule starts as soon as power is applied to the pump. After priming, the pump will run at the speed programmed in Interval 1 for four hours, and then it will change to the speed programmed in Interval 2 for eight hours, and finally the speed of Interval 3 for twelve hours. After the end of Interval 3, the pump will return to the start of Interval 1. This daily schedule will run continuously until power is removed from the pump.

In order to ensure the pump operates throughout the day at the desired speed, apply power to the pump at a time suitable for the application.

If it is desired that the pump run at 50% at all times, apply power to the pump and use the default schedule. If different speeds are desired, program the daily schedule as shown on page 11.

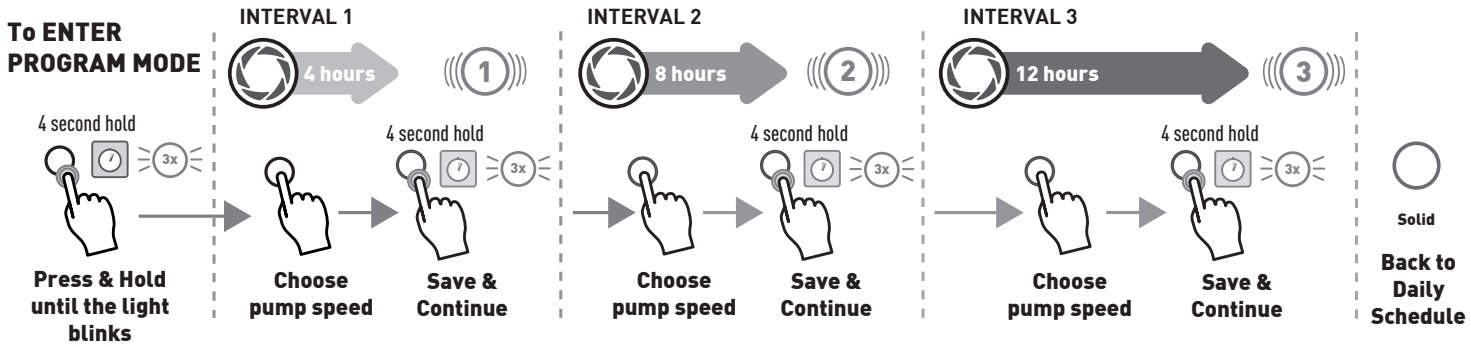
Important: Any time power is removed and re-applied to the pump, such as turning off a switch or breaker, the pump will restart the daily schedule at the beginning of Interval 1. The start of the daily schedule will always be the time at which power is applied to the pump. Note that when power is removed from the pump, the LED will blink for a short period and you must wait for the LED to fully turn off before reapplying power. This may take up to 30 seconds. If power is applied while the LED is still blinking, the motor will not start for 6 minutes. This delay can be overridden if the button is pressed.

Programming the Daily Schedule

The daily 24 hour schedule can be programmed using the push button on the motor drive housing. Each of the three time intervals can be programmed to one of the pump's available speeds. In the programming information and diagrams below, they are represented as "Speed 1, Speed 2, etc.", moving from fastest to slowest. "STOP" is also a selection if you want the pump be off during an interval. Note that exact pump speeds may vary due to input voltage and system conditions.

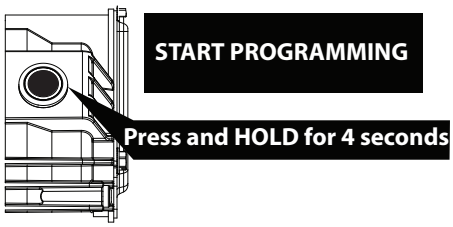
- Speed 1 (fastest)
- Speed 2
- Speed 3
- Speed 4
- Speed 5
- Speed 6 (slowest)
- STOP

Programming the pump follows a simple process of pressing the button to cycle through available speeds (from fastest to slowest), and pressing and holding the button to save the speed to a given interval. An overview is shown below.

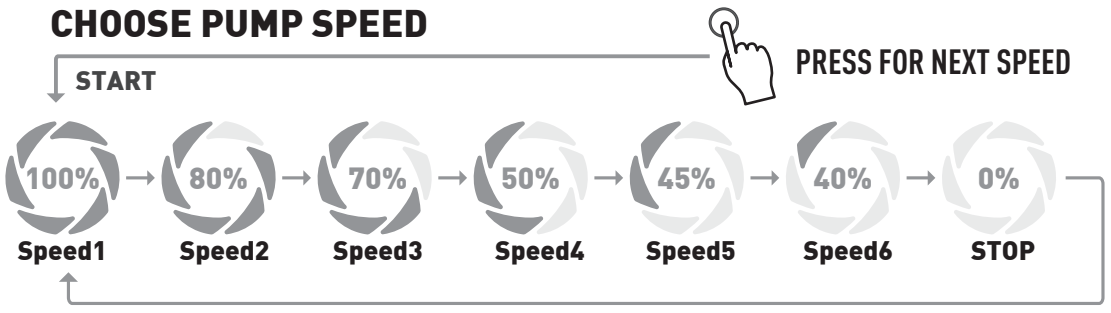


Detailed Programming Procedure

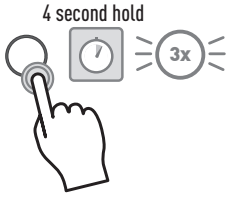
1. While power is applied to the pump, press and hold the button for 4 seconds. When the button has been held long enough, the LED ring will rapidly flash 3 times, at which point the button may be released and the pump will enter programming mode.



2. Once in programming mode, the LED ring will communicate which interval is being programmed. The first interval is Interval 1, and the LED ring will repeatedly flash one time, followed by a pause.
3. To save a speed to Interval 1:
   a. Adjust the speed of the pump to the desired speed by pressing the button. The first press always brings you to maximum speed (Speed 1=100%) and each press after will decrease the speed until it reaches STOP and then the cycle will repeat. Refer to the diagram below.



b. Once the desired speed is reached, press and hold the button for 4 seconds to save the speed. The LED will flash 3 times to confirm.



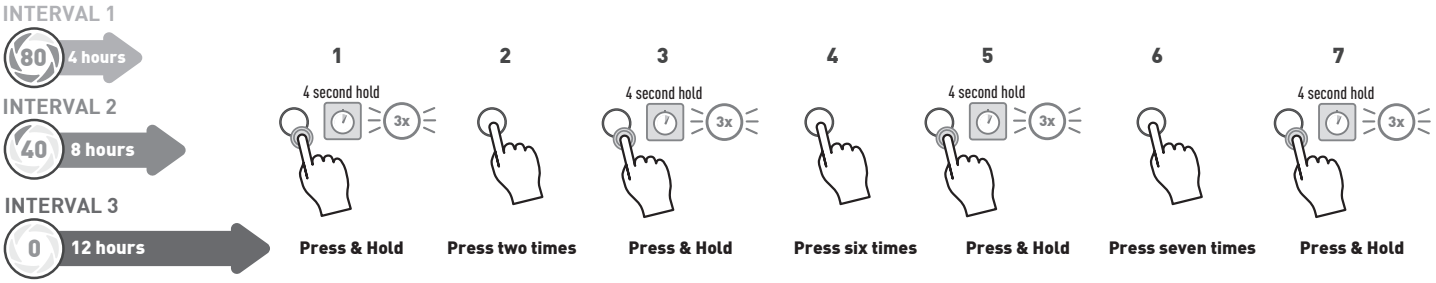
Press & Hold

4. After saving a speed to Interval 1, the process will continue for programming Interval 2. The LED ring will repeatedly flash twice followed by a pause to indicate that the user is currently programming Interval 2.
    a. The initial speed for Interval 2 will be the speed that was programmed for Interval 1. If this is desired, press and hold for 4 seconds. If not, follow the same procedure as step three to cycle through the available speeds, first press brings you to Speed 1, each additional press advances until the desired speed is reached. Press and hold the button for 4 seconds to save the desired speed to Interval 2.
5. Once Interval 2 has been saved, programming mode will continue to the last interval and the LED will repeatedly flash 3 times followed by a pause to indicate that the user is currently programming Interval 3.
    a. The initial speed for Interval 3 will be the speed that was programmed for Interval 2. If this is desired, press and hold for 4 seconds. If not, follow the same procedure as above. Once a speed has been selected, press and hold the button for 4 seconds to save the speed to Interval 3.
    b. Once Interval 3 has been saved, the pump will exit programming mode and will restart.
    c. The pump will be stopped for a few seconds while it restarts.
6. After the pump has restarted, the new schedule will take effect.
7. The new schedule will retain the same 24 hour cycle as the previous schedule.
    a. Example: if the previous schedule started at 8:00AM, the new schedule will also start at 8:00AM regardless of when the programming occurred.
    b. If the desire is to change the start time of the schedule, simply remove and reapply power to the pump using a switch or breaker. The schedule will then start from when power was reapplied to the pump.

Example Program

Desired schedule starting at 8:00AM every day (apply power at 8:00AM to start program) - 80% for 4 hours, 40% for 8 hours and OFF for 12 hours

80% for 4 hours / 40% for 8 hours / 0% for 12 hours



Important: If power is lost/removed from the pump during programming, any changes made to the schedule will not be saved. While in programming mode, if no commands are entered by using the button within 2 minutes, then the pump will default to normal operation. In this case, any change made to the schedule WILL be saved.

For the schedule to start at 8:00AM, remove and reapply power at 8:00AM.