FASTLANE POOL™

Fastlane Swim Unit & Platform Water Quality System

OWNER'S MANUAL

RECEIVING THE FASTLANE POOL

The Fastlane Pool is shipped via UPS and contains at least 13 packages:

1. Qty 6 – for 17' pool, qty 8 - Top 130 cm Straight Tubes, wider (See section titled, POOL POSITIONING, Part Description, Part B)
2. Qty 1 - Electric Heater (optional)
   Qty 1 - Skimmer
   Qty 1 - Plumbing & Start-Up Kit
   Qty 1 - Reinforced Fabric-Wall Pool Liner (Part A)
   Qty 1 - Vinyl bag with pins and patches
   Qty 1 - Water Quality Pump
   Qty 1 - Filter Cartridge Housing
   Qty 1 - Nature 2 Kit
   Qty 1 - PVC Water Quality System Support Base
3. Qty 1 - Solar Cover, 8' x 16'
4. Qty 4 - Top 60 cm Straight Tubes, wider (Part C)
   Qty 6 - For 17' pool, qty 8 - Straight Bottom Tubes, thinner (Part F)
5. Qty 5 - For 17' pool, qty 6 - Vertical Struts (Part G)
   Qty 4 - Top Corner Tubes, wider (Part D)
6. Qty 5 - For 17' pool, qty 6 - Vertical Struts (Part G)
   Qty 4 - Bottom Corner Tubes, thinner (Part E)
7. Qty 1 - Ready-to-Assemble Pool Ladder
8. Qty 1 - Roll of PVC Flex, 50' x 1.5" schedule 40
9. Qty 1 - Hydraulic Fluid container, 5 Gallon Bucket
10. Qty 1 - Fastlane Swim Unit Housing
11. Qty 1 - Fastlane Swim Unit Base with attached 25' Hydraulic Hoses
12. Qty 1 - Hydraulic Power Unit with Controller Box, Wireless Controllers and Antenna
13. Qty 1 - Accessory Kit, which includes:
    a. Qty 1 - Hanging Bracket
    b. Qty 1 - Top Bumper Piece
    c. Qty 1 - Extension Bumper
    d. Qty 1 - Top Section of the Fastlane Swim Unit Housing
    e. Qty 4 - Liner Grommets
    f. Qty 2 - Hydraulic Hose protective channel sections
    g. Qty 1 - Bonding Kit
    h. Qty 1 - Owner's Manual Kit, which includes:
       - Qty 1 - Fastlane Pool Owner's Manual
       - Qty 34 - 10-32, 3/4" Screws, 316L Stainless Steel, M/S, Phillips Truss
       - Qty 10 - 10-32, 1" Screws, 316L Stainless Steel, M/S, Phillips Truss
       - Qty 2 - Adapters, 8 JIC Female x 6 JIC Male
14. Additional Hydraulic Run Hose (optional) – length will vary by order
15. + Various Options Purchased (Floor Mirror, Swim Pace Display, etc.)

POOL POSITIONING

To ensure ideal operation of the Fastlane Pool, consider the following steps when selecting a location for the pool.

- Look for an area that receives maximum sunlight for increased heat and extended use.
- Find a location with minimal wind exposure to minimize heat loss.
- Be aware of the amount of trees and shrubbery around the pool to limit the amount of debris that may accumulate in the pool.
- Select a location with accessibility to water and electric sources.
- Consider privacy when selecting a location.

GROUND PREPARATION

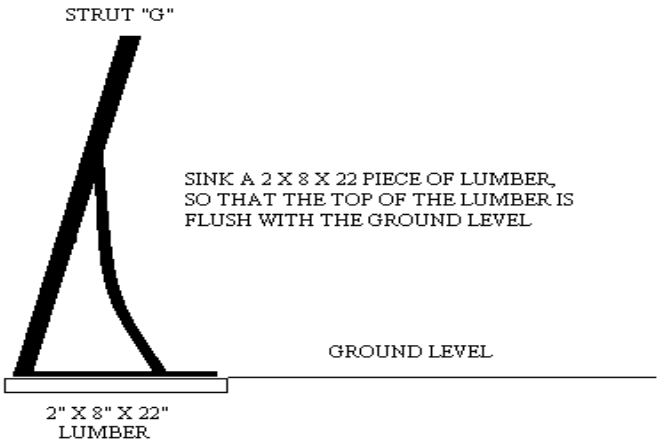
The surface the Fastlane Pool is to be assembled on must be firm and level. The Fastlane Pool must be installed as level as possible, within 2”- 3” of level (from the highest point to the lowest point of the pool). If the pool will be assembled on a sloping surface, be sure to install the skimmer on the lower side to ensure that it will not suck air into the pump. If the ground is not level and it is desired to make a more level surface, take the earth from the high area of the uneven surface; do not add earth to the low area of the surface. Once the surface is level, clear any debris or sharp objects that may be uncomfortable to walk on or could become a puncture hazard for the liner. Foam flooring may be added under the liner for additional comfort.

The pool is comprised of various parts. Therefore, before proceeding with installation, ensure that all necessary parts for the pool are present and group like parts together.

Part Description		Quantity
(A)	Liner	1
(B)	Top 130 cm straight tubes (wider)	6 (8 for Longer Fastlane Pool)
(C)	Top 60 cm straight tubes (wider)	4
(D)	Top corner tubes (wider)	4
(E)	Bottom corner tubes (thinner)	4
(F)	Straight bottom tubes (thinner)	6 (8 for Longer Fastlane Pool)
(G)	Struts	10 (12 for Longer Fastlane Pool)

The supporting legs, or struts (Part G), support much of the weight of the Fastlane Pool and may need additional support in “soft ground” installations, or in areas that may experience excess ground water. A 2”x 8” x 22” piece of lumber installed under each strut’s base and leveled with the ground is very effective. Make sure the entire base of each strut is on the 2” x 8” lumber as any over-hang may result in bending of the strut. A concrete slab of the similar dimensions may be used as well. Please note that any support(s) added under the pool structure must be recessed so that the top of the support is level with the ground surface. Lifting the struts or frame in any manner may cause excessive stress on the liner and frame, and may void the Fastlane Pool warranty. (Refer to Diagram #1: Supporting Legs / Struts.)

DIAGRAM #1: SUPPORTING LEGS / STRUTS



POOL ASSEMBLY

1. Unfold and spread out liner (Part A) on the prepared area. **NOTE: Keep in mind the desired “swim direction” when positioning the liner, because when the Fastlane Pool is fully assembled, the swim direction will be headed towards the skimmer.**

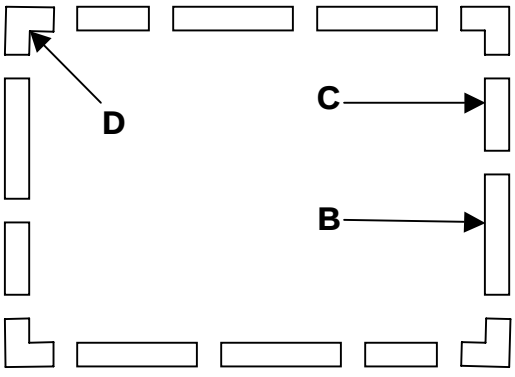
2. Align the struts (Part G) with the prepared cut outs at top of liner.

3. Connect bottom tubes (Part F) to struts (Part G) one at a time to make the four sides of the pool. Connect corner tubes (Part E) to the open ends of both struts to finish each of the four corners.

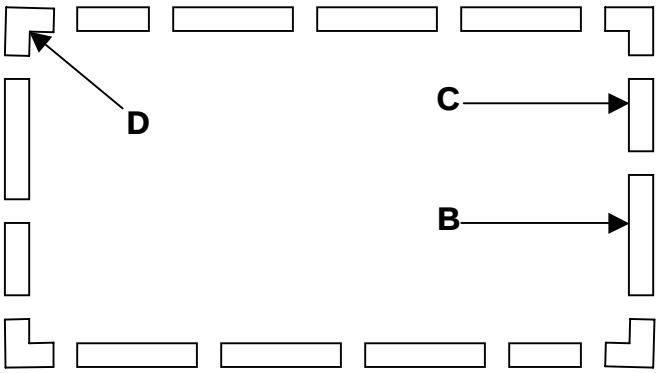
4. Connect the top tubes (Parts B and C) together. **NOTE: The shorter tube (Part C) is always the last tube on the right when facing the pool wall.** (Refer to Diagram #2: Wider Straight Tube Layout.)

DIAGRAM #2: WIDER STRAIGHT TUBE LAYOUT

Standard (9' x 13') Fastlane Pool



Longer (9' x 17') Fastlane Pool



5. Feed the connected top tubes (Parts B and C) into the corresponding sleeves of the liner. Be sure to align the top tube slots with the matching cutouts in the liner, and then insert the corresponding struts (Part G) into the top tube slots.




6. Insert and connect the top corner tubes (Part D). It may be helpful to insert both ends of corner tube into the corresponding liner sleeves, and then pull back on the corner tube to connect one end at a time to the top rails (Parts B and C).

7. Ensure that all tubes around the perimeter are completely nested in one another and properly connected, and that no parts of the frame are racked or crooked.

8. Slowly begin to fill the pool with water until the bottom of the liner is almost taught. Remove any wrinkles in the pool liner at this time, as it will be difficult to do so once there are more than just a few inches of water in the pool.

9. To prevent leaking issues, it is very important to plumb and plug both through walls before the water level reaches the two pre-cut holes in the liner. For more information, refer to the section in this Owners' Manual titled, WATER QUALITY SYSTEM, SKIMMER & THRU-WALL FITTINGS.

10. Once these holes have been plugged, assemble the Fastlane Swim Unit.

FASTLANE SWIM UNIT ASSEMBLY

1. Verify that all items have arrived. **NOTE: If using a power drill, do NOT over tighten the screws, as this will strip the thread in the PVC of the Fastlane Swim Unit.**

2. Carefully unpack the Swim Unit Housing, Swim Unit Base and its components from box numbers 10, 11 and 13 (Refer to section titled, RECEIVING THE FASTLANE POOL). Remove and verify all hardware kits from inside. Close the boxes and flip them upside down on the ground to use as a workbench or collapse the boxes and use as a smooth surface to protect the components from scratching.

3. Turn the Swim Unit Housing upside down on the box or another smooth surface. Remove the block of wood by removing the screws that attach the wood to the Swim Unit Housing. The wood is for packaging purposes only and may be discarded.

4. Remove the screws on the two sides and the front of the Swim Unit Housing that secure the throat. Set the throat and the screws aside to be used in Step 13.

5. Set the Swim Unit Base on the cardboard box with the cylinder facing up. Lay the hydraulic hoses that come pre-attached to the Swim Unit Base to each side so that they are out of the way. Flip the Swim Unit Housing over and set on top of the Swim Unit Base. Secure the Swim Unit Base to the Swim Unit Housing by using six of the 1" stainless steel screws provided (three screws on each side). **NOTE: Do not over-tighten.**

6. Carefully feed the bond wire that is attached to the Swim Unit Base up through the horizontal honeycomb grill located in the bottom of the Swim Unit Housing and up through the turning vanes. Install the grab rail using six 3/4" stainless steel screws and the six 10-32 stainless steel lock nuts provided. Secure the bond wire that has been fed up through the turning vanes under one of the six screws. Secure the other bond wire that has been pre-installed in the Swim Unit Housing under a second screw in the grab rail. **NOTE: Do not over-tighten.**

7. Run the hydraulic hose up the back of the Swim Unit Housing so that the PVC hydraulic hose protective channel will cover the hose. **Firmly secure but do NOT over tighten the eight stainless screws per channel.** Repeat for the second hose.

8. Once both protective channels are attached, pull the two hydraulic hoses tight and secure them to the top of the Swim Unit Housing using the green hose clamps provided. To accomplish this, unscrew the green hose clamps, insert the hoses, and re-screw the clamps snugly into the top of the Swim Unit Housing. Feed the bond wire (from Step 6) to the back of the Swim Unit Housing along one of the hydraulic hoses.

9. Attach the acrylic hanging bracket to the back of the Swim Unit Housing with four of the 3/4” stainless steel screws. **NOTE: Do not over-tighten.** Leave the two top screw holes unused.

10. Attach the top bumper piece (length of PVC pipe) to the Swim Unit Housing through the unused screw holes (top holes from Step 9) in the acrylic hanging bracket using two of the ten 1" stainless steel screws. **NOTE: Do not over-tighten.**

11. Attach the lower extension bumper (length of PVC flex pipe) to the rear of the Swim Unit Base using two 3/4" stainless steel screws. **NOTE: Do not over-tighten.**

12. Attach the wheels to the Swim Unit base. Slide the axle through the two holes that are marked in yellow on the intake grill in the Swim Unit base. These holes have been widened to allow the axle to pass through freely. There are a total of four large and two small washers used in the wheel assembly. Be sure that two large washers are located between each wheel and the intake grill. Secure the wheels to the axle with one smaller washer between the screw and the wheel on both sides.

13. Re-install the throat that was removed previously in Step 4.

14. Place the Swim Unit on the ground and roll it close to the Fastlane Pool location for installation. Be careful not to tip over the Swim Unit, as it is front-heavy.

15. Once the pool is nearly full and the liner is taught and wrinkle-free, carefully lift the assembled Fastlane Swim Unit into the pool at the skimmer end. Lower and position the Swim Unit so that the acrylic hanger "clips" on to the top straight tube (Part B) as shown in Step 18. The Swim Unit should be centered along the end of the pool.

16. The hydraulic hoses can be simply left hanging over the top of the pool wall to run back to the Power Unit, or they can be fed through the pool wall as described in

Steps 17 & 18. Attach the bond wire to the nearest supporting strut (Part G) using the provided self-drilling / self-tapping screw to bond the Swim Unit to the pool's structural frame.

(NOTE: Steps 17 & 18 are optional, skip to Step 19 if choosing not to feed hoses through the pool wall)

17. If a more finished look is desired, four rubber grommets have been provided to fit into holes that can be cut into the top white section of the liner. Once the Fastlane Swim Unit has been properly placed in the pool and is centered along the width of the pool, locate the holes through which the hydraulic lines will run. Using a permanent marker (while outside the pool and along the exposed side of the acrylic hanger), dot the liner with two marks, each being 1-1/2" away from the vertical edges of the hanger (away from center) and 3" down from the top of the pool. Place a rubber grommet over the marks so that they are centered in the grommet openings. Trace the INSIDE of the grommets onto the liner. Using a utility knife with a sharp blade, SLOWLY and CAREFULLY cut out the traced circles. Refer to photo in Step 18 to verify hole location before cutting. **NOTE: Cutting small curves or a circle with a utility knife can be difficult. It may be best to work in many small straight cuts for accuracy.**

18. Push the grommets into the holes so that the fabric edges tuck inside the grooves of the grommets. Repeat this process again for two more holes inside the pool. **NOTE: When complete, the hydraulic hoses and bonding wire will be passing through two layers of fabric.** It is important to feed the hydraulic hoses and bonding wire through both grommets, starting from inside the pool and then feeding them through the outer layer of fabric as shown in the photo below.

19. Install the top cover of the Swim Unit Housing using six 3/4" stainless steel screws (three screws on each side).

20. Run the hydraulic hoses back to the Hydraulic Power Unit. Using the provided bonding lug and self-drilling / self-tapping screw, fasten the bonding lug to the bottom of the same strut used in Step 16 (when the Fastlane Swim Unit was bonded to the pool's structural frame). To bond the Fastlane Swim Unit and Fastlane Pool structure to the rest of the pool equipment, run a #8 AWG bare copper wire from the bonding lug (that was just attached) to the rest of the Water Quality System equipment and Hydraulic Power Unit. Always be sure to verify any additional bonding requirements that may be dictated by local codes and ordinances.

WATER QUALITY SYSTEM, SKIMMER & THRU-WALL FITTINGS

Plumbing and Start-up Kit (See section titled, RECEIVING THE FASTLANE POOL, Box #2)

- Qty 1 - Jar PVC Cleaner
- Qty 1 - Jar PVC Glue
- Qty 4 - Pre-Plumbed pieces (Refer to section titled, ASSEMBLING THE WATER QUALITY SYSTEM, Figures 1-5, but note Figures 4 & 5 are dependent upon optional electric heater purchase.)
- Qty 1 - 1 1/2" PVC adaptor, mpt x female slip
- Qty 1 - 1 1/2" PVC pipe section, 7" length
- Qty 1 - 1 1/2" PVC street elbow, mpt x female slip
- Qty 1 - 1 1/2" PVC threaded eyeball / nozzle fitting
- Qty 2 - 1 1/2" PVC threaded plugs
- Qty 2 - 1 1/2" PVC thru-wall fitting, thread (inside) x slip (outside)
- Qty 2 - 1 1/2" PVC street elbow, male slip x female slip
- Qty 2 - 1 1/2" PVC pipe section, 2 1/2" length
- Qty 2 - 1 1/2" PVC union, female slip x female slip

Qty 1 - Roll of PVC Flex, 50' x 1.5" schedule 40 (See section titled, RECEIVING THE FASTLANE POOL, Box #8)

Additional Tools Required

- Tape measure
- Hack saw

SKIMMER ASSEMBLY

1. Slide the skimmer into the supporting skimmer pocket, making sure that the holes in the skimmer face (and face plate) align with the pre-cut holes in the skimmer pocket.

2. Align and place the skimmer faceplate on the outside of the skimmer pocket and affix it to the skimmer face by using the provided screws.

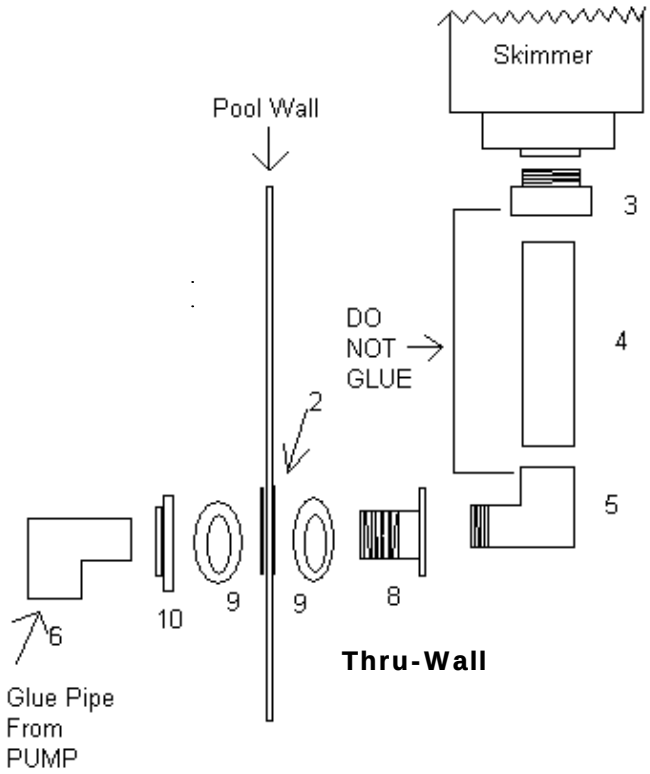
3. Snap in the weir door, add the basket and push the lid into place. Only use the included skimmer plate if using a vacuum or suction cleaning system.

CONNECTING SKIMMER / SUCTION WALL FITTING

(Refer to Diagram #3: Skimmer / Suction Thru-Wall Diagram)

- Push fitting (#8) through the wall of the pool from the inside. MAKE SURE TO USE A GASKET (#9) on both sides of the wall of the pool. Place the cork ring next to the gasket outside the pool and secure the wall-fitting nut (#10) to (#8) now sticking through the pool wall. Tighten with a large pair of channel locks. Make sure the nut is very snug but do not over-tighten, as this may crack the fitting.
- Thread the male portion of the male adaptor (#3) into the bottom of the skimmer. **NOTE: No glue or tape is necessary to complete this step.**
- Inside the pool, thread the male portion of the threaded street elbow (#5) into the thru-wall fitting (#8). **NOTE: No glue or tape is necessary to complete this step.**
- Press the connection pipe (#4) into the male adapter (#3), then press the other end of the pipe into the female end of the threaded 90 (#5). **NOTE: It may be necessary to lift slightly on skimmer to make this connection.**
- Outside the pool, glue the male portion of the street ell (#6) into the tailpiece of the thru-wall fitting (#8).
- When the water quality system equipment needs maintenance, the threaded street elbow fitting (#5) should be removed and the provided plug should be threaded into the thru-wall fitting (#8) to prevent the pool from draining.

DIAGRAM #3: SKIMMER / SUCTION THRU-WALL DIAGRAM

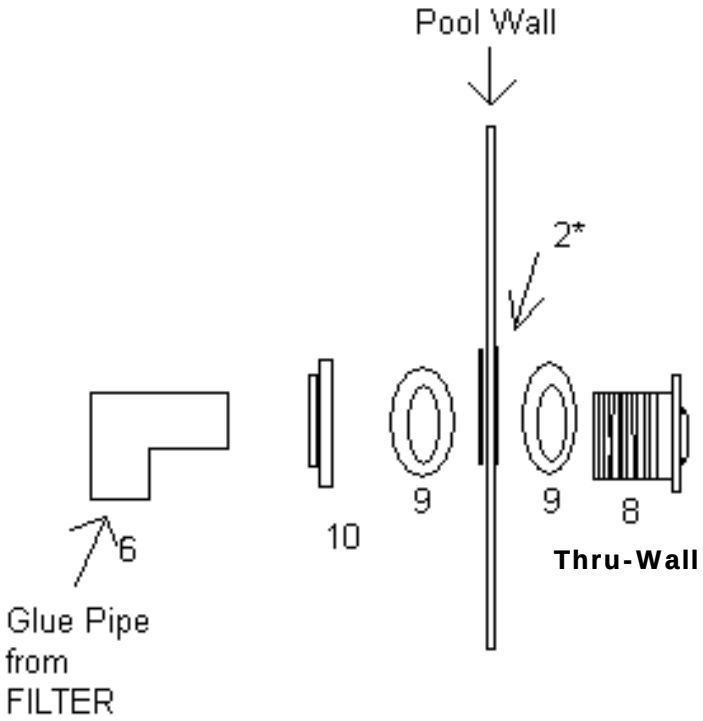


CONNECTING RETURN WALL FITTING

(Refer to Diagram #4: Return Wall Fitting Diagram)

- Push fitting (#8) through the wall of the pool from the inside. MAKE SURE TO USE A GASKET (#9) on both sides of the wall of the pool. Place the cork ring next to the gasket outside the pool and secure the wall-fitting nut (#10) to (#8) now sticking through the pool wall. Tighten with a large pair of channel locks. Make sure the nut is very snug but do not over-tighten, as this may crack the fitting.
- Outside the pool, glue the male portion of the street elbow (#6) into the tailpiece of the thru-wall fitting (#8).
- From inside the pool, thread the eyeball fitting into the thru-wall fitting (#8). Point the eyeball towards the bottom of the pool for optimal water circulation in the Fastlane Pool.
- When the water quality system equipment needs maintenance, the eyeball fitting should be removed and the provided plug should be threaded into the thru-wall fitting (#8) to prevent the pool from draining.

DIAGRAM #4: RETURN WALL FITTING DIAGRAM



Drainage

Drainage needs to be provided around the pool and near the water quality equipment. It is important to be prepared in the unlikely event of a leak. If operating the Fastlane Pool indoors, it is ideal to install floor drains in the area around the pool's perimeter, but not directly under the pool. It is worth the time and effort now to install a drainage system rather than be unprepared in the event of a mishap.

FASTLANE HYDRAULIC POWER UNIT ASSEMBLY

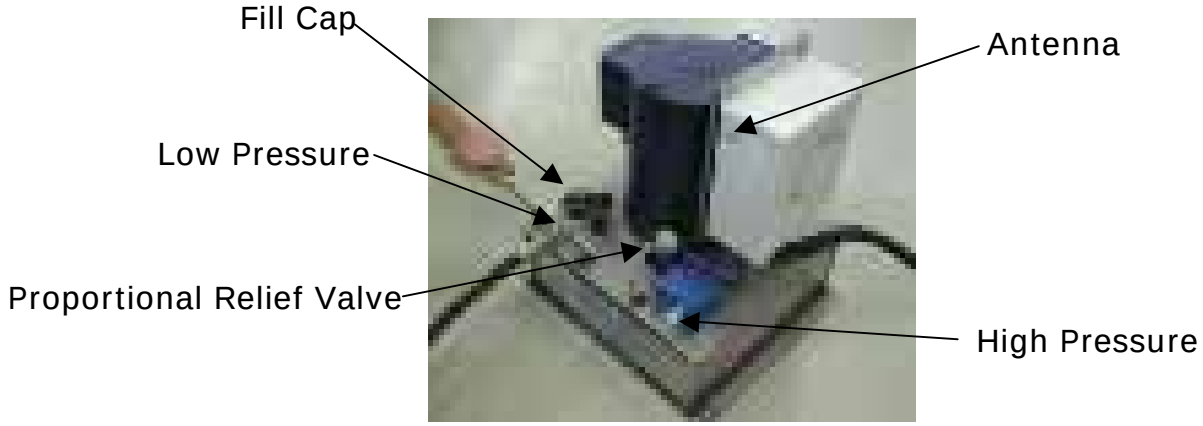
Placement Considerations

The Hydraulic Power Unit (HPU) should be elevated from the ground and placed on a flat surface that can accommodate both the HPU and the PVC Support Base for the Water Quality System (WQS). If placing the HPU outside, it is recommended the Outdoor Power Unit with Weather Guard be purchased to protect it against the everyday elements. If placing the unit indoors at a level below the pool deck, such as a basement, a floor drain is highly recommended to accommodate the unlikely siphoning of the pool through a hole in a hydraulic run hose. Whether placing indoors or outdoors, this is an air-cooled unit and must have ample ventilation. Therefore, a minimum of 12" of air space must be provided on all sides of the HPU motor. In addition, the HPU needs to be checked periodically for maintenance and should be easily accessible.

1. Carefully remove the HPU from its packaging. **NOTE: The HPU is very heavy.**

2. Place the HPU in the selected position and verify that the hose connections are pointed in the desired direction.

3. Connect the hydraulic hoses that either hang over the pool wall or go through the pool liner to the Power Unit. **NOTE: The low-pressure hose has red tape on the end.** Connect the low-pressure line to the post at the fill cap and the high-pressure line to the port with the proportional relief valve.



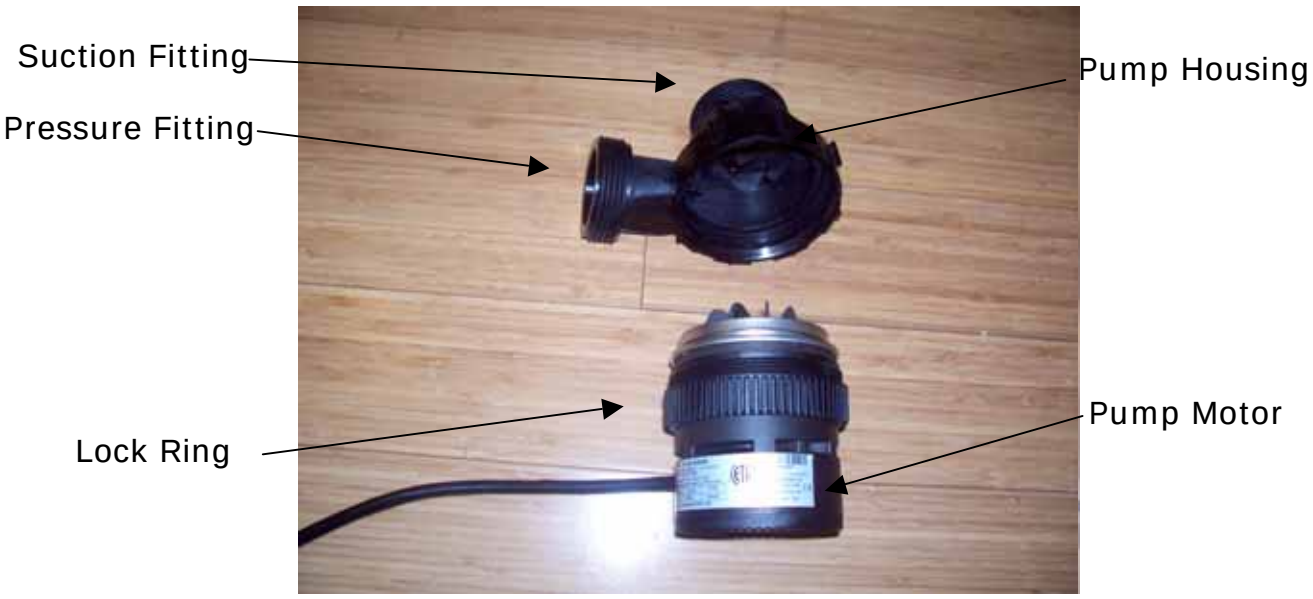
ASSEMBLING THE WATER QUALITY SYSTEM

Completely Assembled Water Quality System with Optional Electric Heater

Figure 1: Circulating Pump Foot and PVC Support Base

1. Unpack the Water Quality System box (See section titled, RECEIVING THE FASTLANE POOL, Box #2). The circulating pump foot has come pre-attached to the PVC Support Base (Refer to Figure 1). NOTE: The base is packed in its box upside down so the pump will be on the underside of the PVC Base.

2. Remove the circulating pump from its box. There is a threaded lock ring immediately behind the plumbing connections on the pump. Unthread the ring and pull the pump apart.



3. Slide the pump housing on to the foot so that the plumbing connections are facing the PVC Base's vertical support, and the pressure fitting is lining up with the arc cutout of the PVC Base's long side. Make sure that the tabs in the motor housing slide into the grooves on the pump foot.

4. Make sure that the o-ring is seated properly inside the pump housing. Insert the pump motor into the housing so that the specification plate on the motor is showing and the pump cord is on the same side as the pressure fitting. Tighten down the lock ring. If done properly, the pump cannot be removed from the foot.

5. Install the PVC support on the underside of the base. Slide the support into the groove and secure it by inserting the four provided screws through the pre-drilled holes in the base.

6. Once the Hydraulic Power Unit (HPU) is in place, remove the two reservoir bolts from the side opposite of the Controller Box that is attached to the HPU. Place the PVC Support Base “shelf” onto the reservoir so that the holes in the base align with the bolt holes that were just removed. Replace the two reservoir bolts.

7. Position the filter on the base so that the INLET of the filter is facing the large arc cutout of the PVC Support Base’s long side. The holes in the filter housing should line up with the holes in the PVC Base. Use the provided 1” screws to secure the filter to the PVC Base.

8. Attached the pre-plumbed filter connector (Refer to Figure 2) to the pump and filter.

Make certain that the o-ring in the pump union and the o-ring inside the filter union are seated properly.

Figure 2: Pre-plumbed Pump-Filter Connector

9. Slide the pre-plumbed suction assembly (Refer to Figure 3) through the access holes in the underside of the PVC Support Base. Make certain that the pump union o-ring is in place before tightening the union nut onto the pump. The ball valve will be protruding slightly from the PVC Support Base.

Figure 3: Pre-plumbed Suction Assembly

10. **NOTE: If the optional gas heater or no heater has been purchased, please proceed to Step 11.** Otherwise, attach the electric heater to the PVC Support Base by lining up the holes in the bottom flange of the heater with the holes in the PVC support base. Use the provided 3/4" screws to attach the heater to the base. The plumbing connections of the electric heater should be on the same side as the filter OUTLET. Use the provided Teflon tape on the threaded fittings of the electric heater. There is a union that is connected to the pre-plumbed filter-heater connector (Refer to Figure 4). Separate that union, and thread one half of it onto the bottom connection of the electric heater. Locate the other pre-plumbed heater outlet assembly (Refer to Figure 5), separate that union as well, and thread one half of it onto the top connection of the electric heater. Connect the black union half of the filter-heater connector to the filter and the white union half to the electric heater.

Figure 4: Pre-plumbed Filter-Heater Connector (with Electric Heater ONLY)

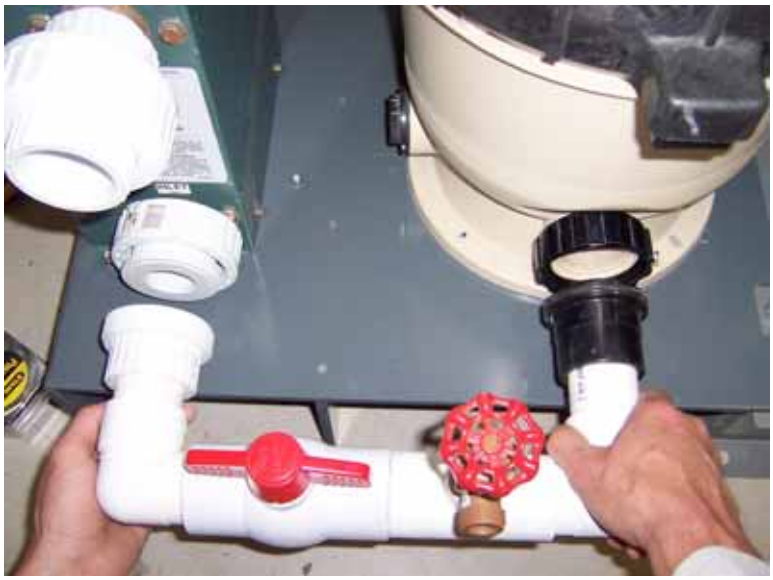


Figure 5: Pre-plumbed Heater Outlet Assembly (with Electric Heater ONLY)

11. **NOTE: This step is to be followed only if there is no heater or if a gas heater is being used.** Connect the pre-plumbed filter-return assembly (Refer to Figure 6) to the filter outlet. If there is no optional gas heater, glue the flexible PVC pipe directly into the ball valve of the filter-return assembly and glue directly into the elbow on the return fitting poolside (See section titled, CONNECTING RETURN WALL FITTING, Refer to Diagram #4: Return Wall Fitting Diagram). If the optional gas heater has been purchased, glue the flexible PVC pipe directly into the ball valve of the filter-return assembly and glue directly into the gas heater inlet line. Glue the additional length of flexible PVC pipe between the gas heater outlet and the elbow on the return fitting poolside. The location of the gas heater will be dictated by the heater manufacturer's specifications, local codes, and gas supply.

Figure 6: Pre-plumbed Filter-Return Assembly (without Electric Heater ONLY)

12. Glue another length of flexible PVC pipe into the ball valve of the pre-plumbed suction assembly (Refer to Figure 3) and glue the other end into the elbow on the skimmer / suction fitting poolside. (See section titled, SKIMMER ASSEMBLY, Refer to Diagram #3: Skimmer / Suction Thru-Wall Diagram)

Nature 2 Purification System

Parts Lists: (See section titled, RECEIVING THE FASTLANE POOL, Box #2)

- Qty 4 - Purifier Cartridges
- Qty 2 - End Caps

Description:
The Nature 2 pool purifier consists of four purifying cartridges and two end caps (Refer to Figure 6: Purifier Cartridges and End Caps). Two of the cartridges and both end caps are needed for assembly. The remaining two purifying cartridges are to be used as replacements.

Figure 6: Purifier Cartridges and End Caps

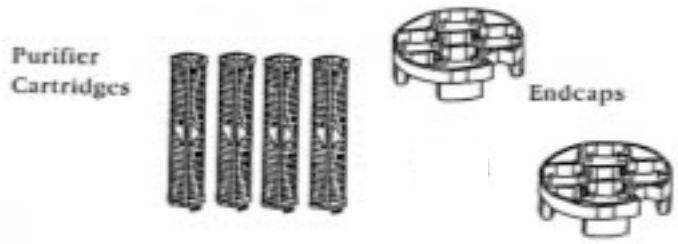


Figure 7: Tabs

NOTE: It is best to install the Nature 2 purifier into the filter canister before filling with water. Should the filter tank already be filled, call the Endless Pools Customer Service Department at 1-800-910-2714 for further instructions.

Installation Instructions:

1. Lay an end cap on a flat surface and snap only two of the cartridges into it, so that the tabs are pointing up (Refer to Figure 7: Tabs).
2. Snap on the other end cap on top.
3. Remove the lid of the filter tank. Gently remove the black center core and filter cartridge from the filter tank.
4. Place the assembled Nature 2 purifier in the middle of the filter tank. Install the black center core and filter cartridge over the Nature 2 assembly.
5. Reassemble the filter housing.

NOTE: Some of the materials supplied in the box of Nature 2 cartridges are directly from the Nature 2 manufacturer. Their recommended start-up procedures were not written specifically with the Fastlane Pool in mind and differ somewhat for what is recommended above. It is recommended to follow the installation and start-up procedures written here.

The Nature 2 purifier needs to be replaced every 6 months. Use the small stickers included in the box on a pool maintenance calendar to note the necessary change date. Replacement cartridges (after the first set) can be purchased by calling the Endless Pools Customer Service Department at 1-800-910-2714, on www.myendlesspool.com or from a local pool store (See section titled, CARING FOR THE FASTLANE POOL, Nature 2 Replacement Instructions).

ELECTRICAL REQUIREMENTS

Consider the electrical requirements for the specific installation before locating the Water Quality System and gluing the plumbing parts. Different option packages require different plumbing and electrical configurations. Further details are available in the section titled, ELECTRICAL CONNECTION FOR THE WATER QUALITY SYSTEM.

Standard Fastlane Pool package with no heater

The Hydraulic Power Unit (HPU) is shipped with a whip coming from the Controller Box mounted on the HPU. That whip is to be wired by an electrician from the power source into the LINE side of the contactor and is intended to supply power to the unit. The Water Quality System (WQS) pump comes with an electrical cord already attached. That cord will be directly wired into the LOAD side of the contactor in the Controller Box. The WQS pump will only run when the swim current is not in use.

Fastlane Pool Package with optional 5.5 kW Electric Heater

The Hydraulic Power Unit (HPU) is shipped with a whip coming from the Controller Box mounted on the HPU. That whip is to be wired by an electrician from the power source into the LINE side of the contactor and is intended to supply power to the unit. Endless Pools, Inc. provides an additional whip with an electrical junction box. During installation, this junction box will be attached to the electric heater, and the Water Quality System (WQS) pump's cord will feed into the junction box as well. The whip from the junction box is to be wired to the LOAD side of the contactor in the Controller Box so that when the swim current is not in use, the WQS pump and electric heater will be energized and available to clean and heat the pool.

Fastlane Pool Package with optional 55,000 BTU Gas or Propane Heaters

The Hydraulic Power Unit (HPU) is shipped with a whip coming from the Controller Box mounted on the HPU. That whip is to be wired by an electrician from the power source into the LINE side of the contactor and is intended to supply power to the unit. The electrical configuration for a Water Quality System (WQS) with a gas or propane heater is similar to that for an electric heater. However, the junction box is not provided by Endless Pools, Inc. and two additional electrical whips are required. During installation, one whip from this junction box will be attached to the heater, energizing the ignition switch. The WQS pump's cord will feed into the junction box as well. The second whip that feeds into the junction box that comes from the LOAD side of the contactor inside the Controller Box. The heater and the Water Quality Pump will only run when the swim current is not in use.

FASTLANE HYDRAULIC POWER UNIT ELECTRICAL

1. Using the whip(s) provided, have a licensed electrician make the necessary connections in the Controller Box of the Hydraulic Power Unit (HPU) and in the junction box for the WQS heater and pump, if necessary. In the Controller Box, the LINE whip needs to be hard wired to a disconnect box or an appropriate twist-lock plug and socket outlet. The Power Unit requires a single-phase 220 Volt, 30 Amp GFCI protected power. (Refer to Diagram #5: Power Unit Electrical Wiring)

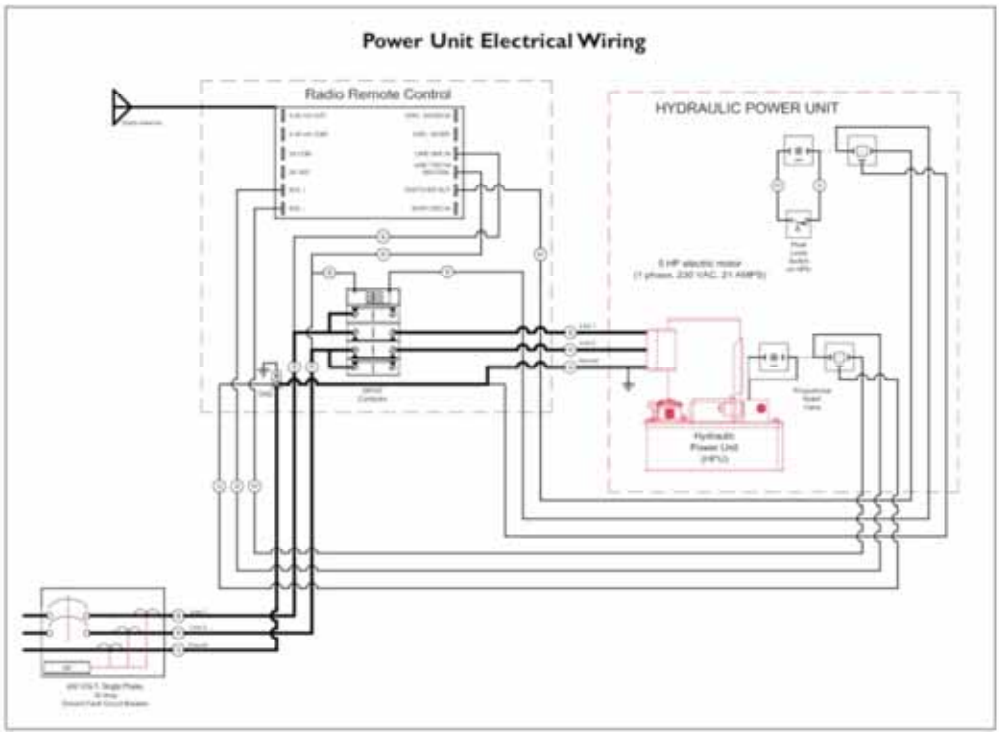
2. Turn the circuit breaker energizing the HPU to OFF. Fill the HPU with the 5 gallons of hydraulic fluid provided. **NOTE: The fill cap is at the low-pressure fitting.**

3. Remove the oil filter by lifting it out of the fill opening. Once filled with oil, replace the oil filter and cap and press firmly to ensure proper seating of the filter.

4. If extra hydraulic lines have been purchased and are of sufficient length to require additional fluid, it will be included with the hydraulic run hoses. In this case, fill to within 2 inches of the top of the reservoir and then run the HPU for one minute to fill the hydraulic run hoses. Turn off the HPU and add the additional oil. **NOTE: ONLY run the HPU with the oil fill cap secured in place.**

5. Be sure to bond the Fastlane Pool and the Hydraulic Power Unit (HPU) by connecting a #8 AWG (or larger) bare copper wire from the bonding lug located on the pool strut (see section titled, FASTLANE SWIM UNIT ASSEMBLY, Steps 16 and 20) to the bonding lug located on the HPU reservoir bolt. The bonding wire typically is run along with the hydraulic hoses from the pool to the HPU. Any other pool equipment with a bonding lug should also be bonded to the same loop as the Fastlane Pool and the HPU.

DIAGRAM #5: POWER UNIT ELECTRICAL WIRING



ELECTRICAL CONNECTION FOR THE WATER QUALITY SYSTEM

NOTE: A licensed electrician must complete all electrical connections.

If not already done so, connect the 6' electrical whip from the Controller Box to the incoming 220-volt, 30-amp GFCI electrical supply lines.

For a Water Quality System (WQS) without a heater:

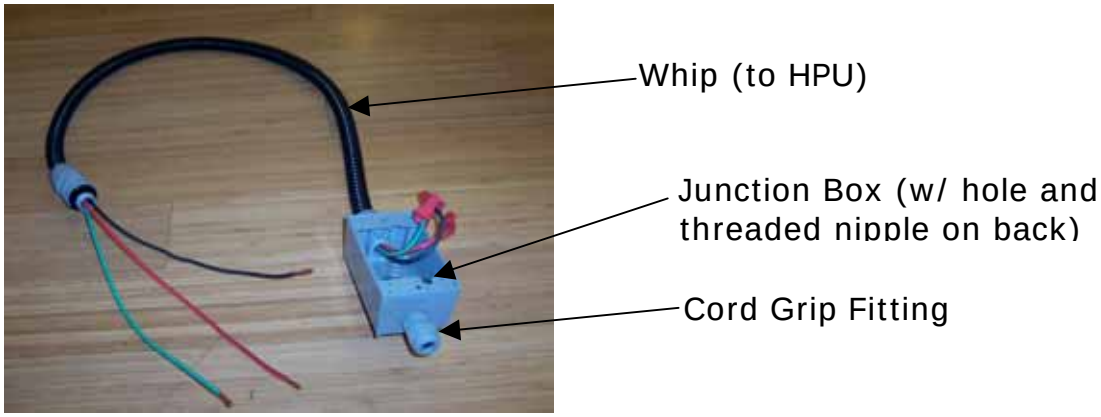
1. Remove one of the unused 1/2" knockouts in the bottom of the Controller Box that is attached to the Hydraulic Power Unit. Slide the liquid tight fitting over the cord of the WQS pump with the compression nut end first. With the liquid tight fitting still loose on the cord, push the threaded end of the fitting into that hole in the Controller Box and determine the length of cord that will need to feed into the box.

2. When the correct length is determined, tighten the compression nut on the cord. Then feed the locknut over the cord and thread the locknut onto the fitting to securely affix it to the Controller Box.

3. On the contactor located inside the Controller Box, attach the WQS pump's cord to the LOAD side of the contactor. The black wire goes to terminal R1, the white wire goes to terminal R3, and the green wire goes to the ground bus bar on the bottom of the Controller Box.

For a Water Quality System with an Electric Heater:

1. Inside the water quality system packaging, there is an electrical whip with a junction box at one end.

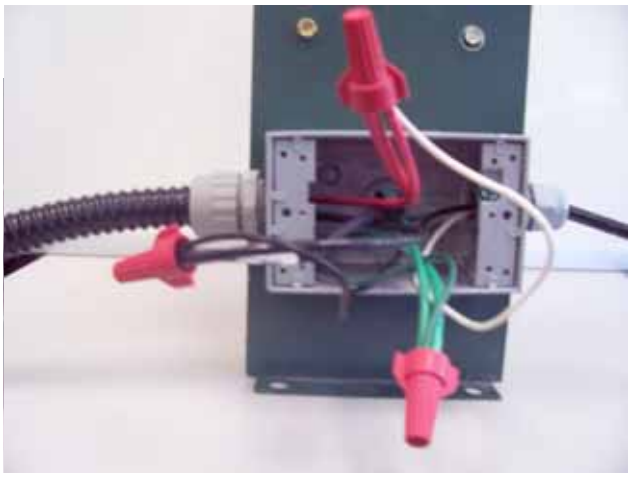


2. If not done already, install the short threaded nipple into the backside of the junction box. This is done by first threading the nipple into the junction box, and then from inside the box, threading one of the conduit lock nuts onto the nipple, thus locking the nipple onto the junction box. Slide one of the washers onto the nipple end that protrudes from the junction box. **NOTE: The washers should be positioned so that the raised portion of the washer is facing the heater box.** Remove the knockout cover from the side of the electric heater and slide the nipple with washer through the knockout. Then, from inside the heater, install the other washer and other conduit lock nut to the nipple, securing the junction box onto the side of the electric heater. When fastened to the heater, the whip connected to the junction box should be pointing towards the Hydraulic Power Unit.

3. Push the black and red wires from inside the electric heater through the nipple and into the junction box. Then insert the short green ground wire through the nipple and into the junction box, securing one side of the short green wire to the ground lug inside the field wiring box of the heater.

4. Remove the small compression nut from the cord grip fitting that is threaded into the junction box and is now pointed towards the front of the electric heater. Slide the compression nut onto the cord of the WQS pump. Then slide the cord through the cord grip fitting and tighten down the compression nut.

5. Working inside the junction box and using the provided wire nuts, connect all the black wires together, all the red and white wires together, and all the green wires together. Wrap each wire nut in electrical tape. Push all the wires back into the junction box and install the cover.



6. Run the whip over to the Controller Box that is attached to the Hydraulic Power Unit (HPU). Remove one of the unused 1/2" knockouts in the bottom of the Controller Box and remove the threaded locknut from the liquid tight fitting. First feed the wires from the whip through the knockout. Then feed the locknut back over the wires and thread it back onto the liquid tight fitting.

7. On the contactor located inside the Controller Box, attach the wires from the whip of the junction box to the LOAD side of the contactor. The black wire goes to terminal R1, the red wire goes to terminal R3, and the green wire goes to the ground bus bar on the bottom of the Controller Box.

USING THE FASTLANE SWIM UNIT

It is now acceptable to begin using the Fastlane Swim Unit. Remove and unwrap the two (one for use, one extra) wireless controllers from the Controller Box on the Hydraulic Power Unit (HPU). Press and hold the **ON/OFF** button to turn on the swim current.

The Fastlane features 52 incremental steps in speed. Press and release the **FASTER** button to increase the speed of the current one step at a time. Alternatively, press and continue to hold the **FASTER** button to ramp up the speed until the button is released or the maximum speed is achieved. Reduce the speed in the same manner using the **SLOWER** button.

Turn off the Fastlane by again pressing the **ON/OFF** button. Because the Fastlane "remembers" its speed setting when it is turned off, so the unit will return to that same setting the next time it is used. NOTE: The circuit card on the HPU is programmed to "ramp down" the speed of the current before completely shutting off. It will also "ramp up" the speed of the current when the unit is turned on.

The circuitry of the HPU is equipped with an automatic safety timer that will shut down the system thirty minutes after receiving its last command. If this happens in the middle of a swim, simply turn the unit on again and it will return to its previous setting.

INSTALLING AN ANTENNA EXTENSION

The Fastlane wireless controller transmits radio waves, similar to a garage door opener. Should the Hydraulic Power Unit (HPU) be placed too far away from the Fastlane Pool, the wireless controller may not be able to perform its functions. To operate the Fastlane more effectively, it may be helpful to install the antenna closer to the pool than the HPU, so there is less of a chance of interference occurring. A longer length of coaxial cable can be used if needed to move the antenna even closer to the pool.

Parts List

- 10' length of coaxial antenna cable
- Coaxial grounding block (antenna mount)

Instructions

- If the antenna is already installed, detach it from the upper left hand side of the Controller Box mounted on the HPU.
- Attach and finger-tighten the antenna cable.
- Attach the coaxial grounding block (antenna mount) to the surface where the electrical disconnect box is mounted.
- The antenna should be just above the height of the box so that the metal box does not interfere with the wireless controller's radio waves. **NOTE: The antenna can be placed even closer to the pool by purchasing antenna cable from a local supplier.**
- Attach and finger-tighten the antenna to the upper end of the coaxial grounding block (antenna mount).

CARING FOR THE FASTLANE POOL

Once installed, the Fastlane Pool will provide years of swimming, exercise, training, therapy and family fun with minimal maintenance required.

The Fastlane

- Clean the intake grill of the Fastlane Swim Unit of leaves as needed.
- Wipe down the stainless steel grab bar with a Scotch Brite pad and brisk rubbing.
- Clean the acrylic housing with any typical non-ammonia, non-abrasive kitchen cleanser and a soft sponge or cloth. **Do NOT use a Scotch Brite pad.**
- Periodically check all electrical and ground wire connections and test the GFI circuit breaker for proper function.
- The hydraulic motor, which is located in the Swim Unit and submerged underwater, should be checked for wear at the end of each season. It is recommended that the motor gets replaced after three to five years of usage, depending on water quality conditions.
- Change the hydraulic fluid and filter in the HPU after every 500 hours of use.

Pool Water Chemistry

- It is important for the long-term operation of the Fastlane that the pool water be properly balanced and in accordance with typical pool industry standards.
- As with any swimming pool, the Fastlane Pool requires water chemistry monitoring. The Water Quality System, which includes automated re-circulating, filtration, and optional heating will do most of the work on its own. However, balancing and maintaining the pool water is essential to the life and health of the equipment.
- **Maintain a minimal level (residual) of 0.5 ppm free chlorine in the pool at all times.** Adding 1/2 cup of Clorox a day will add about 0.5 ppm of free chlorine to a Fastlane Pool. How quickly that chlorine is consumed will depend upon the water temperature, swimmer load and the amount of direct sunlight the pool receives.
- Water test strips have been provided with the Fastlane Pool. The strips will help with monitoring the chlorine and pH requirements of the Fastlane Pool.
- **If the Fastlane Pool is located outside**, stabilized chlorine in granular form (should have an active ingredient of sodium dichlor) is recommended instead of Clorox.
- Pre-dissolve all dry chemicals before putting them into the pool. Failure to do so may result in bleaching or damaging the liner.
- Always have the pool's Water Quality System (the Swim Propulsion system is even better) running when adding chemicals, liquid or dry.
- Do not leave pool filled with water without proper chemical treatment and pool maintenance.
- **Do not leave pool set up without being full of water.**

Daily:

- Test for free chlorine after swimming, or at least a few times a week.
- Add chlorine to maintain free chlorine levels between 0.5 and 1.5 ppm.
- As one becomes familiar with the chlorine demand for the Fastlane Pool, the amount of chlorine needed to maintain the residual at a minimum level of 0.5 ppm will likely become second nature, and frequency of needing to test chlorine levels will likely decrease.

Weekly

- Check and adjust the water level. The water should completely cover the honeycomb grill where the current is produced. Water levels greater than 1/2" lower than this can create a choppy current and may cause the skimmer to draw air into the plumbing lines. Having the water level 1" or more higher than that honeycomb grill can cause more water to splash out of the pool.
- Test the pH level at least twice a week. Broadcast (i.e. pour chemical into the current) pH increaser or pH decreaser to maintain levels between 7.4 and 7.8.

Winterizing the Fastlane Pool

- Take the Fastlane Pool down and/or re-install it indoors if desired when living in an area where harsh winter weather occurs.
- "Winterizing" is specific to the climate in which the pool is located. "Winterizing" generally refers to the treatment of the water in the pool, draining the pool water below the Fastlane Swim Unit and draining the equipment, but the pool structure alone requires no special attention.
- If it is desired to winterize the Fastlane Pool, the water level must be drained below all wall fittings and below the Fastlane Swim Unit. Additionally, the plumbing fittings need to be disconnected from the pool wall at the respective unions and stored in a dry and safe place. Be careful not to lose the o-rings of the unions if doing this.
- If storing the pool, thoroughly clean and dry the liner before carefully rolling it up.
- Store the pool and Fastlane Swim Unit in a dry safe place. Store the structural parts separate from the liner (preferably in boxes) to protect the liner from damage.
- It is okay for the Hydraulic Power Unit to remain outside with the hydraulic run hoses in the wintertime, as the fluid inside will not freeze. The hydraulic run hoses will need to be capped, however, to prevent any fluid from draining out.
- Please contact Endless Pools Customer Service Department at 1-800-910-2714 with any questions or concerns.

Disassembling the Fastlane Pool

- Unhook the hydraulic hose connections at the Hydraulic Power Unit and cap all ends to prevent hydraulic fluid from draining.
- Pull the hydraulic hoses through the grommet holes (if applicable) and lift the Fastlane Swim Unit with hanger from the pool wall. Pull the Fastlane Swim Unit out of the pool carefully so as not to damage the pool liner fabric.
- Once the pool is drained, reach in each corner pocket and pull the liner away from the top rail tubes.
- Once the liner is loose from the top rail, walk around the outside perimeter of the pool moving the wall back and forth to loosen the top rail and corner pieces.
- Begin disassembling Fastlane Pool by removing the corners from the structure. **Be very careful to slowly pull the corners from the top rails. Jolting or forcing the corner out of the top rail can create a tear in the corner of the liner.**
- Once the corners are off, lift the top rails off of the struts and disassemble the remainder of the pool. Be sure the liner is clean and fully dry before storing.

Water Quality System

Filter

- After 24 hours of filtering following the addition of chlorine, bleed off any air at the filter and note the pressure (read the pressure gauge) on a test log sheet.
- If the pool has been contaminated with any debris during installation, it may be desirable to clean or exchange the cartridge filter at this time.
- Typically, the cartridge should be removed or replaced when the filter pressure rises 5 psi above the starting pressure.
- For indoor installations with little to moderate use, this may only be necessary once every few months.
- The filter pressure should be checked every two weeks.

Heater (Optional)

- It is very important to read the heater literature before operating the heater.
- During the initial 24-hour start-up period, manual adjustment of the heater's thermostat may be necessary to help achieve the desired water temperature.

Nature 2 Replacement Instructions

The Nature 2 purifier should be replaced every six months. Use the small stickers included in the box on a pool maintenance calendar to note the necessary change date. Replacement cartridges (after the first set) can be purchased by calling the Endless Pools Customer Service Department at 1-800-910-2714, visiting www.myendlesspool.com or from a local pool store.

1. Disassemble the filter. **NOTE: Remember to drain the water from the canister before unfastening the lock ring assembly.**
2. Clean or replace the filter cartridge as needed.
3. Remove the Nature 2 purifier from inside the black center core.
4. Remove the two end caps from both sides of the purifier cartridges.
5. Discard the old cartridges.
6. Reassemble the purifier using the two end caps and the two new purifier cartridges (Refer to Section titled ASSEMBLING THE WATER QUALITY SYSTEM, Nature 2 Purification System Installation Instructions, Steps 1 & 2).

PLACARDING THE FASTLANE POOL

Place the included eight ***no diving into pool/keep children supervised at all times*** stickers on all four sides of the pool, on the inside and outside top rail area of the liner, before using the Fastlane Pool.

NO DIVING into the Fastlane Pool.
Please keep children supervised at ALL times!

Endless Pools is an industry leader in customer service.
Please call the Endless Pools Customer Service Department at 1-800-910-2714 with any questions or inquiries regarding the Fastlane Pool.

FASTLANE POOL START-UP KIT

Additional water quality and swimming products are always available at www.myendlesspools.com

FASTLANE POOL™ LIMITED WARRANTY

ENDLESS POOLS, INC. WARRANTS TO THE ORIGINAL PURCHASER OF THE FASTLANE POOL MANUFACTURED BY US TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP UNDER NORMAL USE FOR TWO YEARS FROM PURCHASE.

Our obligation under the warranty shall be limited to the repair or exchange (at our option) of any part or parts which may thus prove defective under normal use within two years from date of purchase by the original purchaser, and which our examination shall disclose to our satisfaction to be thus defective. All labor costs for removal and re-installation of the defective part and all freight charges shall be paid by the purchaser and will not be reimbursed by Endless Pools, Inc. This warranty is expressly in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for use and of all other obligations or liabilities for all damages direct or consequential to person, property or business whether or not occasioned by our negligence, and we neither assume for us any other liability in connection with the sale of this Fastlane Pool.

IN ADDITION, ENDLESS POOLS, INC. OFFERS A TEN-YEAR STRUCTURAL WARRANTY ON THE POOL LINER AND METAL STRUCTURE FRAME. If a component should deteriorate beyond structural use in this ten-year period, we will repair or replace the component at our option after receipt and inspection of the defective part. The structural warranty is voided when suitable drainage is not provided, and/or parts are not properly bonded, as stipulated in the installation instructions.

THIS WARRANTY SHALL NOT APPLY TO THIS FASTLANE POOL OR ANY PART THEREOF, WHICH HAS BEEN SUBJECT TO ACCIDENT, NEGLIGENCE, FREEZING, IMPROPER INSTALLATION OR OPERATION, ALTERATION, ABUSE OR MISUSE. THIS INCLUDES, BUT IS NOT LIMITED TO, FLOW RESTRICTIONS OR OBSTRUCTIONS ON ALL WATER AND HYDRAULIC SYSTEMS AND NOT PROPERLY BONDING OR MAINTAINING PROPER WATER CHEMISTRY (pH level must be maintained between 7.4 and 7.8 and total alkalinity between 80 and 120 ppm. The total dissolved solids (TDS) must be no greater than 3,000 ppm). POOLS USING SALT CHLORINE GENERATORS MUST MAINTAIN A SALT CONTENT BELOW 4,000 ppm AND TDS WITH SALT BELOW 7,000 ppm. Your warranty does not cover problems arising in whole or part from:

- Set-up of pool more than 3”out of level or having the pool up without being full of water.
- Acts of God, abnormal weather conditions, circumstances beyond the control of Endless Pools, Inc. or damage from plants or animals.
- Bad odors emanating from the pool liner, puncture, abrasion, or cutting.
- Aesthetic tears or rips caused by any type of undue stress during assembly/disassembly.
- Aesthetic blemishes or tears not compromising structure or pools ability to hold water.
- Accident and injury or damages from diving, sliding or jumping into the pool.
- A product used for commercial or institutional purposes.

The term “original purchaser”, as used in this warranty, shall be deemed to mean the person for whom the Fastlane Pool was originally installed. This warranty shall apply only within the boundaries of the continental United States. We DO NOT warrant this machine to meet requirements of any safety code of any state, municipality, or other jurisdiction. Purchaser assumes all risk and liability whatsoever resulting from the use thereof.

In order to claim this warrant, original purchaser must promptly notify our Customer Service Department in writing of the existence of the claim and then follow our written instructions regarding the procedures for remedying the defect. Endless Pools, Inc. shall not be responsible for cartage, transportation, removal and/or reinstallation labor or any other such costs relating to performance of the warranty. In the event any portion of this warranty shall be deemed unenforceable by a court of law, the remainder of this warranty shall remain in full force and effect as if the voided portion were never included.

Prepaid returns of all Endless Pool products are accepted less a 10% restocking fee, up to 30 days from the date of purchase if undamaged and in its original shipping containers. Accessories, options and equipment that have been used are non-refundable. Before returning any product, you must call our Customer Service Department to receive proper return authorization.

Endless Pools, Inc., 1601 Dutton Mill Rd., Aston, PA 19014 800-910-2714