

Creating a lifestyle that lasts a lifetime.

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dedicated circuit.

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Be sure to locate the Registration Form at the back of this owner's manual. Please fill it out and send it to Strong Pools and Spas immediately.

Failure to return the registration card and a photocopy of the sales receipt within 30 days of purchase voids all warranties provided by Strong Pools and Spas

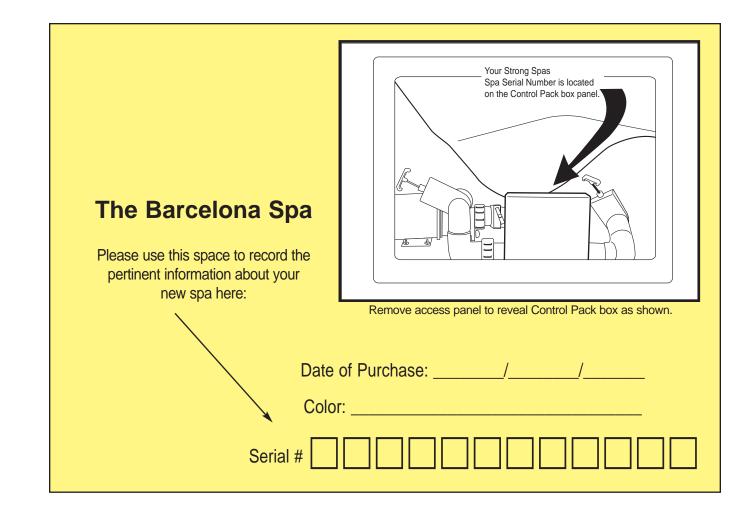
Introduction

Congratulations on your purchase of the finest, Rotational Molded resin base with acrylic insert whirlpool spa on the market today. We at Strong Pools & Spas are excited to assist your family in "Creating a Lifestyle that Lasts a Lifetime".

With proper care, operation and maintenance, your spa will provide your family many years of comfort and pleasure. Please take time to read all the instructions before you install your Strong Pools & Spa, "Barcelona" spa.

This manual explains safety precautions, installation instructions, operating directions and maintenance procedures. If you have any questions after reading this manual, please call your dealer or Strong Pools & Spas service representative at 1-800-787-6649.

Read and understand all safety instructions, operating instructions and all warnings and cautions before adding water or attaching electrical power.



Spas are known for their helpful qualities such as hydrotherapy and arthritic relief. But spas are not only a toy, there are several health concerns which the owner must be aware of such as the following:

WARNING People with infectious diseases should not use a spa.

The use of alcohol, drugs or medication before or during spa use may lead to unconsciousness with the possibility of drowning.

Do Not use the spa immediately following strenuous exercise.

Persons suffering from heart disease, diabetes, high or low blood pressure or any other serious illness and pregnant women should consult with their physician before using the spa.

Excessive water temperature can be dangerous. Before entering the spa, the user should measure the water temperature with an accurate thermometer, since the tolerance of the water temperature regulating devices may vary as much as $\pm/-3^{\circ}C(5^{\circ}F)$ The Water should never exceed 40°C (104°F) and lower water temperature is recommended for extended use (exceeding 10-15 minutes) and for young children.

Long exposure at higher temperature can result in dizziness and/or hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98°F (36.7°C). The symptoms of hyper-thermia include dizziness, fainting, drowsiness or lethargy.

The affects of hyperthermia include:

- Unawareness of impending hazard
- Failure to perceive heat
- Failure to recognize the need to exit the spa
- Physical inability to exit the spa
- Fetal damage in pregnant women
- Unconsciousness resulting in a danger of drowning

Children should be supervised at all times.

DO NOT OPERATE SPA WITHOUT CORRECT WATER LEVEL!

Keep all jets under water with exception of "neck jets".

Actual features included in spa's descriptions and photos are subject to change without notice.

Spa Location:

Improper installation may result in equipment damage and will void the warranty. Your spa must be placed on a flat, level surface.

The space you choose to install your spa is a very important decision, you should consider all of the listed suggestions.

Check your local code office for understanding of building, fencing, gates, electrical, plumbing and enclosure required codes.

A location should be selected to compliment your lifestyle, the view from your house and the ability to supervise the spa.

Position the spa in relation to the surroundings of trees, sunlight exposure, wind, bathroom location, landscaping and evening lighting.

The spa with water is very heavy, if the spa is placed on flooring or decking, be sure the structure is strong enough to support the weight. The necessary support should be at least 75 pounds per square foot.

Install your spa, in a way that will allow easy access to the equipment door.

Storage area for maintenance equipment and chemicals (storing chemicals inside your spa cabinet will void the warranty)

Indoor Considerations:

All of the interior of the spa location must be able to withstand high humidity. The spa chemicals may have some corrosive effect.

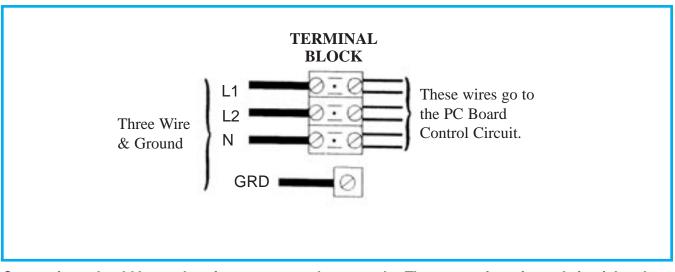
Floor drain is needed to carry off splashed water from the spa.

It is strongly advised NOT to locate a spa on second story location that may be above finished living space. It is recommended that a licensed electrician install the power to your spa, in accordance with the National Electric Code or any local electrical codes in effect at the time of installation.

Power supply installation must include a properly rated GFCI circuit breaker. The circuit breaker must be dedicated and cannot be shared with any other appliances. It should be labeled and easily accessible to users. Power supply must be hard wired into the power pack. **DO NOT USE EXTENSION OR PLUG-TYPE CORDS OF ANY KIND**. The use of a shut-off box near the spa is recommended. Metal surfaces within 5 feet of the spa must be grounded to the spa.

220V Barcelona Electrical Connections:

This change must be performed by a certified electrician.



Connections should be made using copper conductors only. The connecting wire and circuit breakers or fuses must be sized to accommodate the total ampere load as specified on the equipment module data label.

Strong Pools and Spas only makes electrical recommendations, always consult a certified electrician.

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Control Panel Identification



Mode	Mode key will change your spa - 3 different modes 1. Standard - Normal spa usage 2. Economy - Maintains temperature slightly lower than desired 3. Sleep - Keeps temperature approximately 20 ^o below set temperature for inactive use Mode is changed by pushing warm of cool keys with mode key.
Jet 1	Jet 1 controls pump 1 operation. Press firmly and then release, give time for system to react. Pump operates in three different speeds.
	 Off if temperature is reached and filter is not engaged. Low speed for filter mode. along with heating periods and any time customer prefers. High when customer prefers, stays on only for 30 minutes at a time.
Jet 2	Jet 2 key controls pump 2. Operates on three (3) speeds. OFF- LOW - HIGH
Light	There are several color options in our spas and by pressing the light button in quick suc- cession the customer can cycle through the different lighting options.
Warm	Press Warm to increase temperature. Once released, the controls will go back to the current temperature display.
Cool	Press Cool to decrease temperature. Once released, the controls will go back to the cur- rent temperature display.
Option	This key is not used to activate any operation in Strong spas.

BEFORE START UP! IMPORTANT UNION ADJUSTMENTS

There are SIX unions that require hand tightening prior to operation of your spa. When filling the spa with water, keep observing these fittings for any slight water drips. If a drip is observed, just hand tighten until dripping ceases.

Startup Preparations

- Make sure that if spa is equipped with gate valves, that valves are opened. (These gate valves are easily noticed in your access area by the distinct "T" shaped handle.)

- When filling your spa remove the filter, and place hose into filter area. This will fill the plumbing first, and hopefully reduce the chance of air lock.

- Fill your spa above top jets (excluding neck jets).
- Spa capacity: 349 gallons/1319 liters

POWERING SPA

- Power up spa, Controls will read (Pr), this indicates priming mode, which is intended to clear unwanted air. Priming mode will last less than five (5) minutes and begin normal operations.

- A Most spas do not require pump priming
- B Purge will clear lines of un-desired air pockets

C - If pump makes inconsistent sounds, "cavitations", then it will need primed (this can be done by loosening the unions)

- Top display will then read water temperature.

Due to the variations in spas and outside conditions, spas may take up to 24 hours to reach desired temperature.



Changing Filter Cycles

FILTRATION

Proper filtration is an important key to maintaining the clarity of your spa's water. The filter system is designed for unsurpassed effectiveness at removing debris and suspensions from the water anytime the water is circulating.

Your control panel is set to filter for two hours every twelve hours. A two speed pump is supplied with your spa that provides filtration on low speed, the low speed will shut off if the temperature creeps more than 2 degrees above the set point, it will turn back on when temperature drops to the set point.

The filter cycle begins six (6) minutes after the spa is energized. The second filter cycle begins 12 hours later. filter duration is programmable for 2, 4, 6, 8 hours of for continuous filtration (indicated by FILC). the default filter time is 2 hours.

To program, press "Warm" or "Cool" then Jets1. Press "Warm" or "Cool" to adjust. Press "Jets1" to exit programming.

The blower purges for 30 seconds at the beginning of each filter cycle. The low speed of the pump runs during filtration and the ozone generator (if installed) will be enabled.

Troubleshooting

No power to spa:

- 1. Check proper connection of to pack
- 2. Check fuse in pack.
- 3. Must have very good ground connection If none call tech support

Trips Breaker:

- 1. Make sure dedicated line:
- 2. Check breaker
- 3. First take note to how long runs before trips

Trips instantly

- 1. Mis-wired check electrical wiring
- 2. Breaker replacement
- 3. Short in Ozone unhook to check call tech support
- 4. Short in pumps unhook to check call tech support

Trip after purge

1. Heater has short - check heater - call tech support

Poor Water Flow:

- 1. Clean filter
- 2. Check if adjustable jets (are all open)
- 3. May have air lock, prime pump by loosening top pump union.
- 4. If water diverted valves are present make sure they are all the way open.
- 5. If gate valves are present, make sure they are all the way open.
- 6. If none of this works possible line obstruction or impeller loose on pump drive shaft

No water or air flow to jet:

- 1. If adjustable jets, probably in off position. (At times can lock into position, may require some effort.)
- 2. Pinched line, cutting off flow before reaching spa.
- 3. Water diverter valve if present may be closed.

Air controls not working:

- 1. Remove cap on air valve, (with flat head screw driver) and make sure not broken or improper alignment.
- 2. If internals are broke, call tech support

Problem: No message on display. Power has been cut off to spa.

Solution: The control panel will be disabled until power returns. Spa settings will be preserved until next power up.

- Problem: Temperature unknown.
 Solution: After the pump has been running for 2 minutes, the temperature will be displayed.
- **Problem:** "Overheat" The spa has shut down. One of the sensors has detected that 110°F/43°C at the heater.
 - Solution: DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. Once the heater has cooled reset by pushing any button. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
- **Problem:** "Overheat" The spa has shut down. One of the sensors has detected that the spa water is 110°F/43°C.
 - Solution: DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. At 107°F/42°C, the spa should automatically reset. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
- **IF F** Problem: "Ice" Potential freeze condition detected.
 - **Solution:** No action required. The pump and blower will automatically activate regardless of spa status.
- **5**¬¬¬
 Problem: Spa is shut down. The sensor that is plugged into the Sensor "A" jack is not working.
 Solution: If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)
- **5nb Problem:** Spa is shut down. The sensor that is plugged into the Sensor "B" jack is not working.

Solution: If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)

5n5Problem: Sensors are out of balance. If alternating with spa temperature, it may just be a temporary condition. If flashing by itself, spa is shut down.

Solution: If the problem persists, contact your dealer or service organization.

Troubleshooting

- HFL Problem: A significant difference between temperature sensors has been detected. This could indicate a flow problem.
 - Solution: Check water level in spa. Refill if necessary. If water level is okay, make sure the pumps have been primed. If problem persists, contact your dealer or service organization.
 - **Problem:** Persistent low flow problems. (Displays on the fifth occurrence of "HFL" message within 24 hours.) Heater is shut down, but other spa functions continue to run normally.
 - **Solution:** Follow the action required for "HFL" message. Heating capability of the spa will not reset automatically; you may press any button to reset.
- **Problem:** Possible inadequate water, poor low, or air bubbles is detected in the heater. Spa is shut down for 15 minutes.
 - Solution: Check water level in spa. Refill if necessary. If water level is okay, make sure the pumps have been primed. Press any button to reset, or this message will automatically reset within 15 minutes. If problem persists, contact your dealer or service organization.
- **Problem:** Inadequate water detected in heater. (Displays on third occurrance of "dr" message. Spa is shut down.
 - Solution: Follow action required for "dr" message. Spa will not automatically reset. Press any button to reset.

Warning! Shock Hazard! No User Serviceable Parts.

Do not attempt to service the control system. Contact your dealer or service organization for assistance. Follow all owner's manual power connection instructions. Installation must be performed by a licensed electrician and all grounding connections must be properly installed.

Freeze Protection

If the temperature sensors detect a drop to below 44°F/6.7°C within the heater, the pump will automatically activate to provide freeze protection. The equipment stays on until 4 minutes after the sensors detect that the spa temperature has risen to 45°F/7.2°C or higher.

Spa Maintenance

The maintenance and care of your spa is simple and easy to carry out, and if performed regularly as scheduled, problems will be minimal. It is important that the following procedures be read through and carried out on a regular basis for the best, long term, overall performance of your spa.

The filtering cycle of your spa should be operated at least two hours or more a day (whether or not the heater is heating) to remove impurities and to prevent disposition of contaminants in your spa. The filtering system works automatically. Keep the spa covered when not in use to reduce the loss of heat and to keep debris from settling in the water.

Maintaining the spa's proper water chemical balance is essential to the comfort and safety of the user. Water mineral content varies constantly and is directly affected by evaporation and the use of cleaning and maintenance chemicals, which will increase mineral content, when added. If the mineral content deviates from prescribed pH level (7.2-7.8) deposits on the spa walls, filter, electric heating element or gas heater manifold and piping may adversely affect the condition of your spa equipment.

Since the water capacity of your spa is far less than that of a swimming pool, the chemical reaction caused by the presence of one or more persons in the spa is more rapid and pronounced. In other words, it is much more difficult to maintain the proper pH balance in a spa than in a swimming pool. For these reasons, it is important to check frequently, the total alkalinity of the water, the pH level, and the sanitize level, then add prescribed chemicals as necessary to maintain the proper chemical balance. Failure to maintain a proper balance of chemicals in your spa will result in an early, premature failure of your spa parts including, but not limited to, the spa cover, piping, certain electrical components in the spa, electrical control box and topside panel, thus voiding the warranty.

ESSENTIAL CHEMICALS AND THEIR USE

The following information on chemical use for spa maintenance is provided strictly as a guide for the spa owner and may or may not be appropriate to maintain your spa correctly and may, under certain conditions, be harmful to your spa and/or persons using the spa. Always check with your pool and spa dealer to determine which chemicals and/or procedures they recommend to maintain your spa correctly. STRONG and POOLS SPAS does hereby claim no responsibility or liability for use of and quantities of the chemicals listed.

CONCENTRATED CHLORINATING GRANULES - The minimum chlorine level in the spa should be at least 2PPM (parts per million). Chlorine level should be tested frequently and the chemical added to maintain a safe level of 2PPM. This type of chemical can be added in quantities of 0.5 ounce per 500 gallons of spa water. Check the chlorine level at least seven hours or more after adding to determine the full effect of the added chemical. Liquid chlorine is not recommended.

Spa Maintenance (continued)

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ORGANIC POLYMERS - are used in various forms. These chemicals clear up cloudy or dirty water appearance and prevent calcium deposits on the inside spa finish, plumbing and heating equipment. Use as recommended by the manufacturer.

METAL GON - or its equivalent is a chemical that will prevent iron in the spa water from staining the spa finish. This chemical is added to the spa water when the spa is filled for the first time or when refilled. Use as recommended by the manufacturer.

SILICONE EMULSION - quickly and effectively disperses foam and is completely compatible with the other chemicals listed. Use as recommended by the manufacturer.

SPA WATER - should be changed periodically, depending upon frequency of use and other conditions that may affect water suitability. Typically 60 to 90 days is a satisfactory interval under normal conditions. With heavy usage, the interval between water changing should be less.

SPA FILTER CARTRIDGE - should be cleaned every 2 to 4 weeks depending on the frequency of use. Rinse the filter cartridge with a pressure hose and re-install filter cartridge in the filter housing. When changing spa water it is good practice to soak the filter cartridge in filter cleaner. The filter cleaner is specially made to remove accumulation of oils and other contaminates which will ensure good, sanitary water and extended filter cartridge life.

ADDING CHEMICALS - to your spa water: Add to the center of the spa with the pump and the air blower (bubbles) operating simultaneously. Make sure the water is heated. Never add chemicals to cold water, as this will effect chemical action. Also, never add chemicals directly into the skimmer.

Store all chemicals in a cool, dry place and in such a way as to prevent children and pets from contacting.

WINTERIZING

Before draining, power must be turned off at the GFCI circuit breaker. Attach a garden hose to the faucet and open it. Water will start to drain. You can use the water to water the garden. You can also siphon the water from the spa. The drain faucet will not remove all the water. You may have to remove a small amount of water by hand, using a towel. You must also use a wet-vac to remove the water from the lines by suction and/or blowing. Water left in the line and jets might freeze and damage them. To adequately clean out the lines, place the wet-vac over each jet face for 10-15 seconds. Remove the filter cartridge and do the same to the filter cavity. also, let the water drain from the heater tube by loosening the black split nuts on each side of the heater tube. Remember to retighten the split-nuts when completed. Use the wet-vac to vacuum up any water that may have drained on the spa floor area.

Note: Damage caused by improper winterizing will not be covered under warranty. You may want to contact a professional for proper winterizing.







WARRANTIES

Spa Structure: 10 years

Strong Spas warrants the original retail purchaser the structural integrity of the spa shell against water loss due to defects in material or workmanship for as long as the customer shall own the spa. (repair or replacement)

Spa Surface: 7 years

Strong Spas warrants the original retail purchaser the surface integrity of the spa against blistering or delaminating as a result of defects in material or workmanship for a period of 7 years. (repair or replacement)

Plumbing: 5 years

Strong Spas warrants the original retail purchaser the integrity of the spas plumbing against leaks as a result of defects in material or workmanship for a period of 5 years. (parts and labor)

Equipment: 5 years

Strong Spas warrants the original retail purchaser the integrity of the spas Equipment Pack (pumps, heater, control system) to be free from defects in material and workmanship for a period of 5 years from the date of the original retail purchase. (parts and labor)

Cabinet Structure: Lifetime

Strong Spas warrants the original retail purchaser the integrity of the spas cabinet structure to be free from defects in material and workmanship for as long as the customer shall own the spa. (repair or replacement)

Warranty Specifics

Ozonators - Strong Spas warrants the original retail purchaser that the factory installed ozonators will not malfunction due to defects in workmanship for a period of 1 year from the date of the original retail purchase.

Cabinet Structure - Strong Spas warrants the original retail purchaser that the factory installed Renaissance Series Cabinet will have a lifetime warranty on the integrity of the spa cabinet.

LED Lighting - Strong Spas warrants the original retail purchaser that the factory installed LED Lighting System will have a 1year warranty to be free from defects in workmanship and materials from the date of the original retail purchase.

Exclusions

This limited warranty is enforceable only by the original retail purchaser. Fuses, covers, light bulbs, light lenses, spa pillows, seals on pump and motor, and any dealer installed accessories are specifically excluded from this limited warranty.
All warranties are null and void if any of the following occur:

- the spa has been subject to alteration, neglect, misuse or abuse.
- any damages caused by failure to install, maintain, and operate the spa in accordance with the recommendations contained in Strong Spas Owners Manual.
- any and all costs of spas removal and replacement including but not limited to removal and transportation, damages to landscaping, house structures.
- the spa has been used in a non-residential application or an application in which it was not designed.
- spa shell damage caused by excessive heat build-up due to failure to cover the spa while empty of exposure to direct sunlight.
- any damages caused by improper maintenance of spa water chemistry or by any undissolved spa chemicals which may cause bleaching of the spa shell and erosion or discoloration of stainless jets.
- any repairs that are done by any one other than authorized Strong Spas agent, or anyone without expressed written permission by Strong Spas warranty department.

DISCLAIMERS

ALL IMPLIED WARRANTIES ARE NULL AND VOID IF THE RETAIL PURCHASER FAILS TO RETURN THE SPAS WARRANTY CARD BACK TO THE MANUFACTURER SUPPLIED WARRANTY ADDRESS WITHIN 30 DAYS FROM DATE OR PURCHASE.

STRONG SPAS AND ITS AUTHORIZED AGENTS SHALL NOT BE LIABLE FOR ANY NJURY, LOSS, COST OR OTHER DAMAGE, WHETHER INCIDENTAL, CONSEQUENTIAL, SPECIAL OR PUNITIVE, ARISING OUT OF ANY DEFECT COVERED BY THIS LIMITED WARRANTY, INCLUDING WITHOUT LIMITATION, LOSS OF USE OF THE SPA AND COST FOR REMOVAL OF DEFECTIVE PRODUCT, EVEN IF STRONG SPAS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE, THE LIABILITY OF STRONG SPAS UNDER THIS LIMITED WARRANTY, IF ANY, SHALL NOT EXCEED THE ORIGINAL AMOUNT PAID FOR THE DEFECTIVE PRODUCT. COVERAGE UNDER THIS LIMITED WARRANTY SHALL COMMENCE AS OF THE ORIGINAL DATE OF PURCHASE AND THE DURATION OF SUCH COVERAGE SHALL NOT EXTEND FOR ANY REASON WHATSOEVER BEYOND THE STATED TIME PERIOD. THESE DISCLAIMERS SHALL BE EQUALLY APPLICABLE TO ANY SERVICE PROVIDED BY STRONG SPAS OR ITS AUTHORIZED AGENTS.

LIMITATIONS

THIS LIMITED WARRANTY IS NON-TRANSFERRABLE AND ONLY APPLIES TO THE ORIGINAL PURCHASER. THIS LIMITED WARRANTY SUPERCEEDS THE PLACE OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, IN FACT OR AT LAW, INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. ALL WARRANTY SERVICE MUST BE AUTHORIZED BY STRONG SPAS AND PERFORMED BY ITS AUTHORIZED AGENT. NO DEALER, DISTRIBUTOR, SERVICE COMPANY, OR OTHER PARTY IS AUTHORIZED TO CHANGE, MODIFY, OR EXTEND THE TERMS OF THIS LIMITED WARRANTY IN ANY MANNER WHATSOEVER.

For current update changes on warranties, consult our website at www.strongspas.com

SAFETY PRECAUTIONS / DANGER - RISK OF INJURY

- 1. Please use the Hot Tub when others are present.
- 2. Children should be supervised at all times.
- 3. To avoid the risk of drowning, keep the filter clean and unclogged. Do not remove the suction drain cover. Do not modify the suction or filtration systems.
- 4. Exercise caution when entering or leaving the Hot Tub. When changing positions, be sure of your footing before applying your full weight as water refraction can be misleading.
- 5. Do not stay in the water for extended periods of time. Set reasonable time limits. Leave the Hot Tub, cool down, take a shower, relax, then return for another stay.

FOR YOUR RECORDS:

For future use, it is advisable that you write down some information pertaining to the model of the spa you have purchased. If you are unsure of the model name, frame size, etc., contact your dealer immediately to acquire the information needed. When making a warranty claim or just purchasing replacement parts, it is necessary to know the following information.

PURCHASE DATE:			
Failure to return this registration card and a photocopy of the sales receipt within 30 days of purchase voids all warranties provided by Strong Pools and Spas			
REGISTRATION CARD			
I have read and fully understand the warranties given to me by accordance with THIS INSTRUCTION BOOKLET. Furthermore warranty card. I am returning this card and a copy of my sales accordance with your warranties, within 30 days of purchase.	, I have read the POINTS ON SPA SAFETY at the top of this		
Purchaser's Name:	Purchase Date:		
Address:	Model Name:		
City, State, Zip:	Serial Number:		
Telephone No.:	Dealer's Name:		
	Address:		
Signature:			
Comments:			

RETAIN THIS BOOKLET FOR FUTURE REFERENCE: FOR ANY MISSING PARTS, PROBLEMS OR QUESTIONS CALL: MONDAY THROUGH FRIDAY 8:30 AM - 5:00 PM E.S.T. (570) 275-2700

GIVE YOUR NAME	QUANTITY AND TYPE OF PARTS
TELEPHONE NUMBER (AREA CODE)	REASON FOR REQUEST
NAME OF SPA	A. DAMAGED
NAME OF MODEL	B. DEFECTIVE

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STRONG POOLS & SPAS

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