Please record the following information about your spa purchase here and store it in a safe place so it is readily available in the event you need to file a warranty claim or need to contact your dealer to service in the future. Most of this information can be found on your original purchase receipt.

Spa Model

Spa Serial Number

Date of Purchase

Dealer Name

Approximate Date of Spa Installation

Read, Save and Follow All Instructions!
Safety Information

DANGER!
Risk of Electrocution

All electrical connections must be made by a licensed electrician.

Ground Fault Circuit Interrupter installed in compliance with section 680-42 of the National Electrical Code, ANSI/NFPA 70-1993 is required for user safety and equipment protection. You should inspect the Ground Fault Circuit Interrupter before each use to be sure it is functioning properly, in good condition and that the wiring is connected properly. To ensure the spa functions properly and that your warranty is not compromised by improper installation, a licensed electrician must install all electrical components and make electrical connections. Connect only to a grounded source a minimum of five feet (1.5m) from any metal surface. Solid copper bonding conductors must be in compliance with local ordinances and located between the ground terminal inside the spa control box and any metal equipment, including pipes, electrical equipment enclosures, and conduit within five feet (1.5m) of the spa. To prevent death or serious injury from electrocution that can occur if an appliance falls into the spa, do not permit any electrical appliances, such as lights, telephones, mp3 players, radios or televisions to be within five feet (1.5m) of the spa unless they were installed by the manufacturer.

- Disconnect the spa from the power supply before draining and servicing components.
- Test the Ground Fault Interrupter(s) before each use.
- Replace damaged wires and cords immediately to reduce the risk of electric shock. Failure to do so may result in death or serious permanent injury by electrocution.
- Do not bury wire without electrical conduit approved for underground use.
- Equipment compartment doors must be properly installed before using the spa.
- Replace components with components identical to components supplied by the manufacturer.
- Do not operate the audio or television equipment while you are inside the spa.
- Unless it was installed and provided by the manufacturer, audio and video equipment and other electrical appliances should not be used within 5 feet (1.5m) of the spa. Do not connect auxiliary components (i.e. headphones) to the system.
- Do not open the spa control box unless instructed to do so by your dealer.

Extreme caution must be used to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use the spa unless they are supervised at all times. To reduce risk of injury, do not allow children to use this product unless they are closely supervised at all times. To reduce the risk of injury, lower water temperature when spa is used by children. Lower water temperatures are recommended since children are especially sensitive to hot water.

- Make sure child resistant locks on the spa cover are engaged after use. The spa cover that comes with your spa meets the ATSM F1346-91 Standard for Safety Covers. However, use of the cover, locking clips or actual locks will not prevent access to the spa, so children should not be left unattended.
- Children are especially sensitive to hot water. Lower water temperatures are recommended for children. Test the water temperature with a thermometer or your hands to be sure it’s comfortable before allowing children to enter the spa.
- Remind children that wet surfaces are slippery. Make sure that children are careful when entering and exiting the spa.
- Check with local authorities regarding fencing requirements for spas in your area.
- Keep children and pets off the spa cover. Most spa covers have a maximum weight load of 20 lbs. They will not support the weight of people or pets. Sitting on the cover may cause the foam inserts to break.
- Children should always be in the company of a responsible adult and should not have unattended access to the spa.

Keep clothing, hair or hanging jewelry away from suction fittings, rotating jets or other moving components. Never operate the spa if the filter(s), filter lid(s), skimmer(s), or skimmer assembly(ies) are missing. Do not remove basket(s) or filter(s) while spa is running. The suction fittings have a specific water flow rating. Replacement suctions fitting must be compatible with the flow rate marked on the original suction fitting. Never operate the spa if the suction fittings are broken or missing. Please contact your local dealer for service and replacements or repair.

Prolonged immersion in hot water can result in HYPERTHERMIA, a dangerous condition occurring when the internal temperature of the body reaches a level above normal (98.6°F). The symptoms 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, and unconsciousness resulting in a danger of drowning. The use of alcohol, drugs or medication can greatly increase the risk of fatal hyperthermia.

- The Consumer Products Safety Commission has stated that the water in the spa should never exceed 104°F (40°C). Water temperatures between 100°F (38°C) and 104°F (40°C) are considered safe for a healthy adult.
- Lower water temperatures are recommended for extended use (exceeding 10 minutes) and for young children. Extended use at higher temperatures can cause hyperthermia.
- Pregnant or possibly pregnant women should consult a physician before using a spa.
- Pregnant women should reduce the water temperatures to no more than 100°F (38°C). Failure to do so may result in permanent injury to your baby.
WARNING! Adverse Affects with Certain Medical Conditions
You should consult your physician if you are pregnant or possibly pregnant, obese, have a medical history of heart disease, low or high blood pressure, circulatory problems, infectious diseases, immune deficiencies, infectious diseases, infections skin irritations, or diabetes.

WARNING! Increased Side Effects of Medication
The use of drugs, alcohol, or medication before or during spa use may lead to unconsciousness with the possibility of drowning. Anyone using medication should consult a physician before using a spa; some medication may cause a user to become drowsy, while other medication may affect the heart rate, blood pressure or circulation. Anyone taking medications which induce drowsiness, such as tranquilizers, antihistamines or anticoagulants should not use a spa.

WARNING! Maintaining Well Balanced Water Chemistry
To reduce the possibility of contracting a waterborne illness, always maintain water chemistry within the parameters in this manual. Keep the water clean and sanitized with correct chemical balance to help maintain safe water and prevent possible damage to spa components and bathers. If other bathers are negatively affected, discontinue use and consult a physician. The recommended levels for your spa are:

- Free Available Chlorine (FAC): 3.0 to 4.0 ppm
- Free Available Bromine (FAB): 2.0 to 4.0 ppm
- Total Alkalinity: 80 to 120 ppm
- Water pH: 7.2 to 7.8
- Calcium Hardness: 150 to 250 ppm

• Always shower before and after using a spa.
• Refer to Water Chemistry and Maintenance section for further information and complete instructions about water and spa care.
• When adding chemicals, turn the primary pump on for at least 15-30 minutes after adding any spa chemicals.
• Replace or clean the filter cartridge regularly to remove debris and mineral buildup which may affect the performance of jets, limit the water flow, or trip the high limit thermostat which will automatically turn off the entire spa to prevent further damage to the spa.
• Stay out of the spa if you have open wounds or an infectious disease.

IMPORTANT SAFETY REMINDERS
• Wet surfaces can be slippery. To reduce the risk of injury, exercise care when entering and exiting the spa. Give children instructions about how to safely enter and exit the spa.
• Remove all jewelry and put long hair in a bathing cap or hair tie before you enter the spa.
• Measure the water temperature with an accurate thermometer before entering the spa to verify the topside control displays the correct temperature. The tolerance of regulating devices may vary as much as +/- 5°F (2°C).
• Test the water with your hand to be sure it’s comfortable before entering the spa.
• Remove debris from filter baskets and suction drains.
• Do not allow glass, sharp or other breakable objects in or near the spa area.
• Do not use alcohol or drugs before or during spa use. Drink plenty of water to stay well hydrated. If you have had diarrhea in the last 14 days you should not enter the spa.
• If you are going to be in the spa for more than 10 minutes, you should reduce the temperature of the spa to 100°F (40°C) or lower.
• Do not use the spa immediately after strenuous exercise.
• Never use your spa when you are alone.
• Stay out of the spa if you have open wounds or an infectious disease.
• Consult a physician if you are pregnant, have a medical condition or are taking medication before using a spa.
• Never leave the spa unattended if the cover is not locked securely in place whether it is empty or filled with water. Exposure to sunlight, rain, snow and high temperatures may cause permanent damage to the spa.
• Leave the cover partially open for 15-30 minutes when adding chemicals to allow chemical vapor to escape.
• Do not leave the spa unattended when the cover is off.
• Brush heavy snow loads off the cover with a soft brush. Spa covers are not designed to hold weight loads of more than 20 pounds.
• Reinforce your cover with wind straps during periods of high wind. The tie downs sewn on the cover will not hold your cover in place if wind speeds are excessive.
• Use only approved and recommended accessories, chemicals and cleaners.
• Never allow children or pets to sit or stand on the spa cover.
• Always lift or carry the cover by using the handles, not the skirt or tie downs.
• It is not recommended to use the spa for more than 30 minutes at any one time without getting out and allowing your body temperature to cool.
• Temperature should never exceed 104°F
• Cynuric acid levels should never exceed 100 ppm
**Site Preparation, Delivery & Installation Recommendations**

**CHOOSING A LOCATION**

Choosing the right location for your spa requires careful consideration of esthetics and convenience in addition to the care and maintenance that is required over the life of your spa. Planning and preparation are critical, but following a few basic guidelines will ensure a lifetime of enjoyment.

### Site Selection Considerations

- Make sure the installation meets your local codes, covenants and restrictions. Many communities require that spa installations be done with the same security precautions, like fences with locking gates, as swimming pools.
- Make sure the location is free of obstacles that may interfere with delivery and installation. The overall dimensions are an important consideration when planning for delivery & installation. A clear pathway from the curb to the installation site makes delivery a breeze. The pathway should be free of obstruction from things like walls, fences, tree limbs, heat pumps, and power lines. Check to be sure gate openings are wide enough for the spa to pass through without damaging the spa.
- Normal use of your spa will mean lots of splashing. Choose a location that allows water to easily drain away from the base of the spa rather than pooling around the spa. Close proximity to a water hose will allow you to easily top off the spa after each use.
- Consider the proximity to the doors of the house, especially in cold weather. Be sure there is a pathway to the spa that can be easily maintained in inclement weather.
- Keep your spa away from landscaping sprinklers, roof overhangs, guttering, and powerlines. Adequate drainage that prevents standing water near the foundation of the spa is critical.
- But you should also consider the negative effects of wind, exposure to the sun and the location of trees to minimize the effects of falling debris, excessive sunlight and shade.
- Choose a location that allows easy access for maintenance and repairs. You should leave 24” of clearance on the side of the spa with the electronics and 18” of clearance on all other sides to allow easy access for maintenance and repairs. Some periodic maintenance steps require access to the electrical equipment area.

**MANUFACTURER’S RECOMMENDED GENERAL INSTALLATION INSTRUCTIONS**

It's very important to follow the manufacturer's guidelines for site preparation, installation and leveling of your new spa. Failure to follow these instructions may result in structural damage to the spa that is not covered under your warranty.

### SITE PREPARATION FOR OUTDOOR SPAS

- The manufacturer recommends that you hire a qualified, licensed professional to install a level, concrete pad reinforced with steel bars that will adequately support the weight of the spa when it's filled with water and all of the bathers.
- Before you begin, contact your local gas, electric, water and cable companies to be sure there are no underground lines in the site you have chosen. For best results, site preparation should begin with digging an area that is at least 8’ wider and longer than the overall dimension of the spa. The site should be level and 6” to 8” deeper than the final desired elevation of the spa. Depending on the depth of the site, the area should be filled with between 3” and 4” of crushed stone, followed by 3/8” steel reinforcement bars on a 16” grid, then 3” to 4” of poured concrete. Level the concrete and finish with a course broom to ensure it is slip resistant.
- If you live in a climate with freeze/thaw zones or prone to ground shift because of the kind of dirt or low/high water tables, we recommend installing poured concrete footings that extend below the freeze line or water table prevent the possibility of shifting.
- Make sure the site is away from areas that are prone to flooding or standing water and there is adequate drainage away from the spa. Never backfill the sides of the spa with dirt. If necessary, you should incorporate a retaining wall into the site design that will help ensure the cabinet and electrical components remain dry at all times.
- If your site plan includes decking to give the appearance the spa is recessed, you should choose slip resistant materials for everyone’s safety. Water splashing onto the surrounding surface is a normal and should be taken into consideration when choosing decking materials. You should also design the deck to include removable or locking, hinged panels to allow easy access on all four sides for maintenance and service. Remember, making the spa accessible for service is not covered under the warranty.

### SITE PREPARATION FOR INDOOR SPAS

- If you are placing your spa indoors you should plan well in advance to prevent the delivery and installation issues that may occur when attempting to get the spa indoors.
- A licensed contractor should confirm the load bearing capacity of the floor is adequate, make modifications like widening the entry point if necessary, installing a floor drain to eliminate standing water, and add a convenient water supply so the water level can be properly maintained.
- Floor coverings should be slip resistant with some ability to grip when the floor is wet.
- The location and floor covering must be able to handle draining all of the water which is part of routine maintenance.
- You should consider installing a ventilation system. Humidity and moisture should be considered. If floor coverings trap water or the drainage is inadequate, wood, paper, and drywall, may get damp creating mold and mildew.
- Some spa chemicals may have an adverse reaction to some household metals. Again, adequate load bearing capacity for the weight of the spa when filled with water and bathers is vital.
Site Preparation, Delivery & Installation Recommendations

PREPARING FOR THE DELIVERY AND OFF LOADING YOUR SPA

- It is important to speak with your sales representative about what to expect at the time of delivery well in advance of the delivery date so you can plan and be prepared on the day of delivery. Failing to adequately prepare in advance will result in delayed delivery. Your spa leaves the manufacturing facility wrapped with protective materials, shrink wrapped with the bottom of the spa banded to a wooden pallet.
- If you arranged for delivery at the time of purchase, you should discuss potential delivery obstacles like steps, fences and small gate openings with your sales representative in advance so the delivery agent arrives properly equipped and prepared to place your spa without delay.
- If your spa is shipping from the manufacturing facility, it will arrive in a 53’ common carrier closed box trailer. The carrier is responsible only for curbside delivery to an address that is accessible not removal or placement of your spa. You will need several people to help remove the spa from the truck on the day of delivery.
- If the prepared site is accessible, hiring a local towing service with a tilting flat bed is a convenient and affordable way to place your spa. You may want to consider meeting the towing service at the destination terminal to inspect the spa and allow the carrier to move the spa onto the flat bed. This is typically an efficient way to coordinate a convenient delivery schedule for everyone and eliminates additional expenses other service providers may charge if the carrier is late for the delivery appointment.
- If placing your spa requires a crane, choose a reputable crane service with spa experience. If the spa is not properly stabilized or the straps are too tight or improperly placed, the spa components and structure may be compromised or broken, even if there is no visible damage at the time. Crane services who are familiar with spa placement know how to properly place spreaders and straps, ensuring the frame is adequately supported.

NEVER PUT THE SPA ON ITS TOP OR ITS SIDES.
NEVER FLIP THE SPA END OVER END.

When moving the spa on its side, the side that was against the pallet during transit must be facing down to prevent damage to the structure, the acrylic and the components.

The manufacturer’s warranty does not cover damage that is the result of improper removal or installation of the spa.

LEVELING YOUR SPA

- You should verify the spa is completely level when it has been positioned into place.
- Do not use shims. Shims may create pressure points and damage the spa.
- Damage caused by improper installation is not covered under the warranty.
**DANGER!**

**Risk of Electrocution**

*All electrical connections must be performed by a qualified licensed electrician in accordance with the National Electric Code (NEC) following state and local electrical codes in effect at the time of the installation.*

- Connecting the spa to an improperly wired circuit will eliminate many of the spa’s built-in safety features which may result in fire, electrocution, or other risk of injury. Damages to the spa which are the result of improper wiring are not covered under the manufacturer’s warranty and will terminate all listings from independent listing agencies.
- The electrical supply for your spa must be housed in a weatherproof junction box and include a suitably rated switch and Ground Fault Circuit Interrupter between the main service entrance and the spa to open all ungrounded supply conductors in compliance with Section 422-20 of the National Electrical Code/USA, ANSI/NFPA/70 and in compliance with independent listing agencies. This might be used as a shut off switch, and must be installed so that it is accessible to the spa occupants, but not within 5 feet (1.5m) of the spa.
- The wiring specifications in this manual are for standard installations where the main power supply is within 40 feet of the spa. If the main power supply is more than 40 feet away, the electrician must make appropriate modifications.
- The electrical instructions and diagrams contained in this manual and inside the spa control box are included as a guideline for the licensed electrician installing the electrical connections and vary by model. Please refer to the wiring diagram inside the spa control box for model specific connection instructions. All wiring connections must be watertight.
- All connections must be made using copper conductors only. Do not use aluminum wire. Connection wires, circuit breakers, and/or fuses, must all be sized to accommodate the Total Ampere load.
- Never turn power on to the spa when it is not filled with water. **DO NOT** connect power to the empty spa. When power is supplied to the spa, it automatically activates critical components within the spa, such as the pumps, controls and the heating. If power is supplied to the components before it is filled with water, the components may be damaged instantly. Damage that occurs to the spa because power was supplied before it is filled with water is not covered by the manufacturer’s warranty.
- Prior to performing any service, turn OFF all primary electrical equipment at the main circuit breaker or disconnect panel.
- Your spa must be permanently connected (hard wired) to a power supply that is protected by a Ground Fault Circuit Interrupter (GFCI). Power supplied to your spa must be a dedicated circuit with no other appliances, lighting, or other electronic components powered by the circuit.
- Do not permit any electrical appliances like lights, telephones, mP3 players, radios or televisions within five feet (1.5m) of the spa unless they were built in by the manufacturer. Failure to maintain a safe distance may result in death or serious injury from electrocution if the appliance should fall into the spa.
- Do not use head phones while using the spa.
- All metal components or accessories that are permanently installed, like handrails, ladders, drains and hardware that are within 5 feet (1.5 m) of the spa must be bonded to the equipment grounding bus with copper conductors no smaller than No. 6 AWG.

**WIRING REQUIREMENTS FOR 240V SPAS**

- The minimum wire size for 40 and 50 amp systems is # 6/3 c/w ground (6 gauge/4 conductor) if the main power supply is within 40 feet of the spa. If the main power supply not within 40 feet, your electrician should make the appropriate modifications.
- The spa must have dedicated 240V service from the main power supply. Do not attempt to share service with other appliances. Use only a class ‘A’ double-pole Ground Fault Circuit Interrupter (GFCI).
- To access the spa controls, remove the cabinet panel and store it safely. Do not replace the access panel until the spa is filled with water and you are sure it is operating properly.

### Electrical Service Requirements

<table>
<thead>
<tr>
<th>Number of Pumps</th>
<th>Voltage</th>
<th>Breaker</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>120V</td>
<td>20 amp</td>
<td>Plug In</td>
</tr>
<tr>
<td>1</td>
<td>240V</td>
<td>40 amp</td>
<td>Hard Wired</td>
</tr>
<tr>
<td>2</td>
<td>240V</td>
<td>50 amp</td>
<td>Hard Wired</td>
</tr>
<tr>
<td>3</td>
<td>240V</td>
<td>50 amp</td>
<td>Hard Wired</td>
</tr>
</tbody>
</table>
**Electrical Requirements and Recommendations**

**240V ELECTRICAL CONNECTIONS**

Installation of the GFCI and circuit breaker, including ampere sizing and selection of conductor size and type must be performed by a qualified, licensed electrician in accordance with the National Electrical Code, and all Federal, State and Local codes and regulations in effect at the time of installation. *All wiring schematics are provided as a reference and are intended only for use only by qualified, licensed electricians.*

**MODEL SPECIFIC HARD WIRING INSTRUCTIONS ARE LOCATED INSIDE THE SPA CONTROL BOX.**

Correct wiring of the electrical service box, GFCI box and pack terminal block is required. Your spa requires a 4-wire, 40 or 50 amp (depending on the spa model), 240 volt sub feed in non metallic pipe to the spa equipment compartment.

Installation instructions for your GFCI vary by manufacturer. It is imperative that your GFCI be installed in accordance with the installation instructions provided by the manufacturer of the GFCI you purchased. The GFCI wiring diagrams included with this manual are included as a reference only and illustrate installation variances between GFCI manufacturers.

Hard wire the spa controls following the model specific diagram inside spa control box lid. In most models, the spa controls are inside the access panel underneath the spa's top side control pad.

**120V ELECTRICAL REQUIREMENTS AND INSTALLATION**

*Outlet must be installed in accordance with the National Electric Code (NEC), state and local electrical codes in effect at the time of the installation.*

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaker</td>
<td>Dedicated 20 Amp</td>
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<tr>
<td>Poles</td>
<td>2</td>
</tr>
<tr>
<td>Wires</td>
<td>3</td>
</tr>
</tbody>
</table>

**DANGER - Risk of Electric Shock**

Connecting the spa to an improperly wired circuit will eliminate many of the spa's built in safety features which may result in fire, electrocution, or other risk of injury. Damage to the spa that is the result of improper electrical installation is not covered under the manufacturer's warranty and will terminate all listings from independent listing agencies.

- An appropriately rated GFCI cord is attached and shipped from the manufacturer inside the cabinet panel under the top side controls.
- Electrical appliances including audio and video equipment should not be used within 5 feet (1.5m) of the spa.
- Never touch or come into contact the electrical cord or any electrical accessory when your body is wet.
- Do not operate the audio or television equipment while you are inside the spa.
- Test the GFCI on the cord before each use.
- Never alter the plug.
- Do not bury the cord.
- Replace damaged cords immediately to reduce the risk of electric shock. Failure to do so may result in serious permanent injury or death by electrocution.
- Keep the cord away from lawn mowers, weed eaters and other equipment that may damage the cord.

**THIS SPA MUST BE FILLED WITH WATER BEFORE IT IS PLUGGED IN.**

Plugging in the spa automatically activates critical components such as the pumps, controls and the heating. Supplying power to the components before the spa is filled with water damages the components instantly. Damage that occurs to the spa because it was plugged in before it was filled with water is not covered by the manufacturer's warranty.

- The power supplied to your spa must be a dedicated circuit with no other appliances, lighting, or other electronic components shared by the circuit.
- This spa must be plugged directly into the outlet. Do not use an extension cord or surge protector. Low voltage may cause damage that is not covered under the manufacturer's warranty.
- Do not unplug this spa under normal conditions. Your spa is engineered for optimal energy efficiency and is equipped to automatically perform routine maintenance cycles that require a permanent connection to the power supply.

**THIS SPA MUST BE UNPLUGGED BEFORE DRAINING, PERFORMING MAINTENANCE OR SERVICING.**

- Do not open the spa control box without the assistance of your dealer.
- To access the spa controls, remove the cabinet panel and store it safely. Do not replace the access panel until the spa is filled with water and you are sure it is operating properly.
- Never use the spa with the equipment compartment door removed. Equipment compartment doors and cabinet panels must be properly installed before using the spa.
- Replace components with components identical to those supplied by the manufacturer.
The Spa Pack is the computer that controls the spa functions. Not only does the pack respond to user commands a button on the topside control is pressed, it's also programmed to automatically take care of many of the maintenance and safety features so you don't have to. For example, when it's time for the filtration cycle to begin, the spa pack turns the pumps on automatically to circulate the water and automatically turns them off when the cycle is complete.

Diagnostic Testing

The spa pack is programmed to run and retain the results of diagnostic testing, ensuring your spa is operating efficiently. If a problem is detected, an error message will be displayed on your topside control making you aware that your spa requires attention. Error messages can often be resolved simply by turning the GFCI “OFF” for 30 minutes and turning it back “ON”, known as a System Reset. If an error message is displayed after resetting the system, please refer to the troubleshooting guide in this manual or call your local dealer for additional assistance. **ALWAYS turn the GFCI “off” before performing service or repairs.**

The Topside Control is like the keyboard for a computer. Pressing a button on the topside control relays a command to the spa pack to perform a specific function. Water temperature, filtration cycles, lighting, energy saving features and jet functions are all controlled by pressing buttons on the topside control. In addition to controlling the functions, the topside control also relays diagnostic and error messages to alert you if a problem is detected.

Primary and User Controlled Functions

During heating, filtration and other maintenance cycles some of the buttons on the topside control are disabled. For example, if the water temperature falls below the programmed temperature allowance while you’re using the spa, a heating cycle will begin automatically and the water will circulate on low speed until the correct temperature is reached. Pressing the “pump” button will not turn the pump off or change the circulation speed when the heater is on. Because the pack is programmed to prioritize safety and maintenance functions, any user controlled functions that interfere are disabled until they are completed.

The Spa Heater warms the water. Once your temperature settings have been programmed your water temperature will be maintained automatically. When the water temperature falls below the temperature allowance, the spa pack will turn the heater and pump(s) on and off automatically when the correct temperature is reached.

High Water Temperatures During Warm Weather

During warm summer months, it’s a good idea to reduce your water temperature settings. Spas are designed to retain heat, and aren’t equipped to cool the water. When the ambient temperature is high and it doesn’t get cold enough for your water temperature to fall, your water temperature may be higher than the temperature you programmed. Reducing your programmed temperature not only resolves this, it also conserves energy and reduces operating costs. If you want to reduce the water temperature quickly, remove the cover for a short time allowing some of the heat to escape or drain some of the warm water from your spa and replace it with cool water. If you drain water from your spa, turn the GFCI “off” and follow the instructions when refilling it and balancing your water chemistry.

The Spa Pump(s) push the water through the plumbing lines and into the spa. The pump(s) are turned on and off by pressing the button(s) on the topside controls. The number and speed of the pumps varies by spa model.

Air in the Plumbing Lines and Pumps

The pumps are designed to pump water, not air. Air trapped the pump or the plumbing lines prevents circulation of the water. Letting your pumps run with an air lock will instantly destroy the pump(s). Following the manufacturer's instructions to fill your spa properly and soaking new filters for 30 minutes before powering the spa on will help prevent air locks. If you hear a “humming” sound, if the jets don’t work or if the jets only work in part of the spa when you press the jets button, it is likely you have an air lock and need to prime the pump. **Never allow a pump that is not primed to run for more than 2 minutes.**

Using the Air Release Screw to Bleed Air from the Pumps

1. Insert a screw driver into the air release screw located on the pump
2. Loosen the air release screw. Turn counter clockwise until water begins to trickle. **DO NOT REMOVE SCREW!**
3. When water is trickling steadily, turn the screw clockwise to tighten the screw and stop the flow of water.
Getting to Know Your Spa

The Plumbing Components

The Slice Valves (Gate Valves, “T” Stems) allow the spa to be serviced without draining the water. Slice valves or “T” stems are installed in the plumbing lines near the electronic components. Pushing the “T” stem down creates a seal between the “T” stems. When service is complete, the “T” stems are raised and locked in the up position allowing water to flow again. Slice valves must be locked in the “up” position before power is applied to the spa. Applying power to the spa when the slice valves are closed can damage the spa immediately. Each time you change the water in the spa, make sure the locks are in good condition; replace the locks if they will not hold the “T” stem in the “up” position. Do not use the spa until they have been replaced.

The Plumbing Unions connect the plumbing lines to the components. Unions can become loose in transit and when seasons change. During the initial installation and each time you drain your spa, you should hand tighten all plumbing unions. The main cause of leaks inside the spa cabinet is plumbing unions that need to be tightened or seals that need to be re seated or replaced. Do not use tools or overtighten plumbing unions.

The Filter Assembly consists of the filter, the filter basket and the cover. The filter basket catches large debris, the filter catches fine particulates and oil. You should check the filter assembly on a regular basis making sure the basket is free of debris and the filter is clean and in good condition. Flow will be restricted if the filter assembly is obstructed or the filters are dirty which can damage the spa. Using the spa without the filter assembly in place is a drowning hazard. If any part of the filter assembly is damaged, do not use the spa until it has been replaced. Please call your local dealer for replacement parts. Before removing the filter assembly to fill the spa or change the filter, manually power the GFCI “OFF”. Turn the filter cover counter clockwise until it stops. Lift the cover, raise and remove the basket. Lift the filter from filter housing. Replace the filter, basket and cover. Turn the cover clockwise until it stops and is locked in place. The manufacturer recommends that you replace the filter every three months. Soak new filters in water for 30 minutes before installing to prevent air in the plumbing lines.

The Suction Drain Covers are on the sides in the foot well of the spa. They are caps that cover the suction lines, reducing the risk of drowning and debris entering the plumbing lines. If the suction drain covers are obstructed, flow is restricted which can damage your spa. Keep hair, clothing and children away from the suction drains when using the spa. It is important to check them on a regular basis making sure they are good condition. Do not use the spa if they need to be replaced. Replacement parts can be obtained by contacting your local dealer. You should avoid contact with the suction drain covers when the GFCI is powered “on”.

Air, Diverter, and Waterfall Valves

The appearance of air, water and diverter will vary depending upon the model purchased.

The Air Valve is a small rotating dial on the acrylic surface that looks like a smaller diverter valve that increases or decreases air flow through the jets. Increasing air flow creates “bubble action” in the spa. When the air valve is positioned in the center, there is moderate air flow with moderate “bubble action”. When the air valve is turned to one direction, or closed, there is less air flow and fewer bubbles. If the air valve is turned fully to the opposite direction, the air valve is fully open creating the most bubbles. The air valve rotates right and left.

The Diverter Valve is a large rotating dial on top of the acrylic surface that controls the flow of water in seating areas serviced by the same pump. When the diverter valve is positioned in the center, water flow will be spread evenly throughout each seat sharing that pump. Turning the diverter valve all the way to one side will restrict the water flow from one section and force all of the flow into the other section. Turning the diverter valve all the way to the other side will reverse the flow of water to the opposite side of the spa.

The Waterfall Valve is used to increase and decrease flow through the waterfall. The waterfall valve rotates right and left. When the waterfall valve is placed in the center, there is moderate flow through the waterfall. If the valve is turned all the way in one direction, there is no flow through the waterfall. If the valve is turned all the way in the opposite direction, the flow is increased to allow maximum flow through the waterfall.

Difficulty Turning Waterfall & Diverter Valves

When the jets are turned on, excessive pressure in the plumbing lines can make rotating the air, waterfall and diverter valves difficult. Turn the jets off and rotate the valves back and forth to the desired position and turn the jets back on. Do not force the valves past the natural stopping point. Forcing them to rotate beyond the built in “stop” or when there is excessive pressure in the lines will damage the spa.

The Drain Valve is used to remove the water from the spa. The drain valve is in the base of the spa near one of the corners. When you fill your spa, make sure it’s completely closed and no water is draining from it.
Filling your Spa with Water

Your spa has been tested during the manufacturing process and some water may remain in the plumbing lines after testing leaving spots on the acrylic or cabinet. Wipe the spa and cabinet with a clean soft rag. Do not use household cleaners that contain bleach or ammonia (including most glass cleaners) because they will have an adverse effect on the surfaces and do not mix with chemicals used to maintain water chemistry. Never use abrasive cleaners on the cabinet, cover or acrylic surface. They may do permanent, irreversible damage. To remove incidental dust, dirt and debris that may have accumulated in the plumbing lines during shipping and installation, open the drain bib and remove the filters, and run water through the filtration canister and jet lines until the water coming from the drain bib runs clear. Never attempt any kind of service or cleaning when power is applied to the spa. Each time you remove the spa cabinet for any reason, manually turn the GFCI off. Never leave the spa unattended while the exterior panels or cover are off the spa.

**Step by Step Instructions to Fill the Spa with Water**

1. Remove all of the screws that attach the access panel to the spa frame. In most models, the access panel is on the same side as the topside controls.
2. Check for obvious signs of damage inside the cabinet including loose wires or broken pipes. If you see damage inside the spa cabinet, call your local dealer for assistance.
3. Hand tighten the plumbing unions and check to be sure the slice valves are locked and in the “up” position. If they aren’t, pull the “T” stem all the way up until you hear a “click” and attach the clip locks. Never operate the spa when the slice valves are closed. Damage that occurs because the spa was powered on when the slice valves were closed is not covered by the manufacturer’s warranty.
4. Remove the filter cover and basket from the filter assembly and store in a safe place.
5. Place a garden hose in the empty filter canister. Turn the water on. Filling the spa through the filter canister fills the pumps and internal plumbing lines with water, reducing the risk of an air lock in the pumps(s) when power is applied. When the lower plumbing lines are filled, water will begin flowing into the foot well, moving upward inside the spa. Continue filling the spa until the water level is approximately one inch over the highest jets, excluding jets that are designed for neck and shoulder massages. Failure to add enough water prevents adequate flow which will damage the pumps and heater. Damage that occurs because the spa is not filled properly or from improper water levels is not covered under the manufacturer’s warranty.
6. Place the filter(s) inside the foot well while the spa fills with water. Never install dry filters in your spa.
7. Remove the garden hose and turn the water off.
8. Check the drain valve to be sure no water is leaking from it and that it’s properly sealed.
9. Replace the filter, skimmer basket and filter cover.
10. Check for leaks inside the spa cabinet, especially at the plumbing unions near pump(s), and pack. Hand tighten unions if necessary. If the spa is leaking and the unions are tight **DO NOT** turn the GFCI on. Call your local dealer for assistance and repair before applying power to the spa.
11. If there are no visible leaks inside the cabinet, turn the GFCI “on”
12. When power is applied to the spa, the spa controls will immediately begin a self check cycle, which can take up to 30 minutes.

**Do not touch the buttons on your topside controls until “PR” appears on the topside display!**

Make sure water is circulating through all jets, that the air controls, diverter and waterfall valves are functioning properly. If the spa is functioning properly and there are no leaks inside the spa cabinet, reinstall the cabinet access panel.

**The Water Level**

There’s a fine line between too much water and not enough. If the water level is too low, air is sucked into the plumbing lines which causes serious damage to the spa. If the water level is too high, lighting and audio components become submerged causing them to fail prematurely. So how do you know when enough is actually enough?

It’s important to pay attention to the water level as bathers enter and exit the spa. The number of gallons displaced by one person is lower than the number of gallons displaced by six people and the number of gallons displaced by six children who weigh 50 pounds is lower than the number of gallons displaced by six adults who weigh 150 pounds. What may be the perfect water level for six children may cause the spa to overflow with six adults, but six children might splash out more water than six adults displace. You should expect to add or remove water depending upon use. Every time you exit the spa, check the water level and add water if necessary. The water level will vary depending upon the spa model you purchased. As a general rule, when the spa is empty the water level should be at least 4 inches over the filter basket and below the perimeter lighting and audio components.

**Disposing of Water**

Follow State, Local and Community requirements when disposing of the water in your spa. Because heavily treated water may be harmful to the environment and some areas are prone to flooding some communities regulate or restrict the disposal of the water from your spa. Typically, if the pH & chemical levels are correct, you can drain the water on your own lawn provided it does not enter storm drains and there is no potential of erosion or flooding to surrounding properties.
Re-Filling your Spa with Water

Follow these step by step instructions every time you re-fill the spa to ensure successful start up. If you need to replace the screws on the cabinet, use stainless steel screws which do not rust.

THE IMPORTANCE OF GOOD WATER CHEMISTRY

For your health and safety, it is imperative to have clean, clear, water. Water maintenance will vary depending on many things like the base water quality, how often the spa is used and how many people use the spa. Remember, when it comes to water chemistry, filtration is not the same as sanitation. Following a regular schedule will help you achieve and maintain good water chemistry. Bacteria and viruses grow quickly in water when it is not properly maintained. Maintaining your water is necessary not only for proper sanitation, but preventing buildup and deposits that will harm your spa.

A leading preventable cause of spa malfunction is poor water chemistry. Too many chemicals will cause the components, acrylic surface and the spa cover to deteriorate. Not enough sanitation allows impurities to accumulate, which will hinder performance and can permanently damage the spa. Water can become unsanitary very quickly if chemicals are not used to adequately sanitize. Incorrect pH or calcium levels can lead to corrosion and scale build up on integral spa components.

The following guidelines have been established for spas by the Association of Pool and Spa Professionals:

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<table>
<thead>
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</thead>
<tbody>
<tr>
<td><strong>pH</strong></td>
<td>7.2 to 7.8</td>
</tr>
<tr>
<td>Free Chlorine</td>
<td>3.0 to 4.0 ppm</td>
</tr>
<tr>
<td>Free Bromine</td>
<td>2.0 to 4.0 ppm</td>
</tr>
<tr>
<td>Total Alkalinity</td>
<td>80 to 120 ppm</td>
</tr>
<tr>
<td>Calcium Hardness</td>
<td>150 to 250 ppm</td>
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COMMON SENSE WATER CHEMISTRY

Without chemicals, the warm water in your spa is the perfect environment for germs, bacteria and other living organisms. Chemicals added to your spa water are utilized as they destroy the bacteria from dead skin cells, sweat and other bodily fluids. Routine addition of sanitizers kept at constant levels keep your water clean and safe to use. Maintaining water chemistry is different in every spa and for every spa user. Your water chemistry changes constantly. When the water in your spa evaporates, dissolved solids like calcium, salt and metal remain, they do not evaporate with the water. Adding more water adds more dissolved solids which may leave deposits on the acrylic surface and inside the spa components. When the cover is off, pollen, dust and dirt change the water chemistry. A spa once a day will require more chemicals than the same spa filled with water from the same source that’s only used once a week. What it takes to balance your water chemistry in January will be different in July.

The major considerations in water chemistry are:
- The base water quality
- The number of gallons of water in the spa
- The number of people using the spa
- The number of hours the spa is being used

Base Water Quality

What’s in your water? The answer is different for just about everyone. Water provided by public utility systems must meet strict standards requiring chemical treatment before it flows through your faucets. Even though quality standards are similar regardless of where you live, the treatment required to meet that standard, and the residual chemicals that remain in your water after treatment can vary greatly. Water flowing from faucets in Washington State is different than the water flowing from faucets in Oregon, Texas and Florida. Water delivered directly from a well is untreated and water that passes through a softening system receives an additional treatment. Whether your water is treated or untreated, filtered or unfiltered, all water delivers trace amounts of something that can negatively affect the performance of your spa.

Do not use hot water when you fill your spa.
Do not use water that has passed through a water softener system.
Using well water is not recommended. Well water often has higher mineral, metal and bacterial content that will damage the spa components and makes water chemistry maintenance difficult. If you must use well water to fill your spa, you should get professional assistance.
If you are having difficulty with your water chemistry, you should consider having your water tested locally to determine the appropriate treatment.
Maintaining Water Quality

_In short, more water used by more people for longer periods will require more chemicals._

**TESTING AND TREATING YOUR WATER**

Whether you have used your spa or not, you should test your water twice a week. Regular testing lets you to make adjustments before your water chemistry is out of control. When it comes to chemicals, more is not better. Adding chemicals changes the pH. Fluctuations in the pH change the way chemicals react. The addition of too many chemicals may mean your only option is to drain the spa and start over. Depending on how many people use the spa and how often the spa is used, you should replace the water every four to six months to ensure your comfort and safety. Replacing the water will also help protect the spa components from damage caused by dissolved solids that build up over time.

**Ozone Generators**

Your spa may have come with an ozone generator which will help reduce dissolved solids and increase oxygen in the water, but it will not sanitize the water without chemicals. You must use a sanitizer in tandem with the ozone generator. The ozone generator is designed to make chemicals more efficient and maintaining good water chemistry easier.

**Chlorine Generators**

Your spa may have come with an optional salt system, also known as a chlorine generator. This system is designed to maintain water chemistry by converting salt into sanitizer without using any chemicals. Since the system does not create any residual chlorine, testing water with strips will not provide an accurate assessment of sanitation levels. Test strips can only be used to test and maintain adequate levels of alkalinity, pH and water hardness when you have a chlorine generator.

**BREAKING DOWN THE BASICS**

Each step of a water maintenance program is dependent upon the previous steps. Omission of any step or failing to reach the recommended ranges may cause an imbalance in water chemistry. Unbalanced water may cause damage to the spa components and create discomfort for bathers. To measure the quality of your water, immerse a test strip in water following the instructions on the container. Do not touch the test strips as it may affect the results. Compare the test strip and the label to determine the condition of the spa water.

**Step 1.) Balancing Total Alkalinity (TA)**

The recommended total alkalinity levels are between 80 and 120 ppm. The Total Alkalinity is the measurement of carbonates, bicarbonates, hydroxides and other alkaline substances in the water. TA is referred to as the water’s “pH buffer”. It is a measure of the water’s ability to resist changes in the pH level. If the TA is too low, the pH level will fluctuate quickly, easily and greatly. Changes in pH can cause corrosion or scaling on the spa components. You can correct low Total Alkalinity by adding sodium hydrogen carbonate (pH/Alkalinity Up).

**Step 2.) Balancing Calcium Hardness (CH)**

The recommended calcium hardness (CH) level for your spa is 150-250 ppm. Calcium Hardness is a measurement of the total amount of dissolved calcium in the water. Calcium helps control the corrosive nature of the spa’s water. Calcium-low water (commonly known as “soft” water) is not recommended. It is highly corrosive to the components and can stain the acrylic surface. If the CH is too high (commonly known as “hard” water), formation of scale on the spa and the components can result. CH can be decreased by using a mixture of 75% “hard” water and 25% “soft” water; this will usually yield a reading of the correct range. If “soft” water is not available or practical for you, a stain and scale inhibitor should be added to the water according to the label instructions. If CH is too low, add a CH increaser. Once the CH is balanced, it normally remains stable. Adding small quantities of water should not change the CH level. When the Calcium Hardness is within recommended range, proceed to the next step.

**Step 3.) Balancing the pH**

The pH level is the measure of how basic or acidic. It is imperative to have a slightly alkaline pH level between 7.2 and 7.8. Problems become proportionately more severe the further outside this range the water gets. Values above 7 are alkaline; those below 7 are acidic. Maintaining proper pH level is extremely important for optimizing the effectiveness of sanitizer, maintaining water comfort for the users, and prevention of equipment deterioration. If the pH level in the water is too low, the sanitizer will dissipate rapidly, the water may become cloudy and pores in the filter cartridge will become clogged and obstructed. If the pH is too high, it can be decreased by adding sodium bisulfate (pH/Alkalinity Down) to the spa water. Wait two hours after adding sodium hydrogen carbonate or sodium bisulfate before testing the pH levels again. It is important to check the pH level on a weekly basis. The pH will be affected by the bather load, the addition of new water, the addition of chemicals and the type of sanitizer used. When the pH is within the recommended range, proceed to the final step.

**Step 4.) Maintaining the Sanitizer Levels**

Sanitizer is extremely important. It kills algae, bacteria and viruses while preventing unwanted organisms from growing in the spa. At the same time, if the sanitizer levels are too high it may cause irritation to the skin, lungs and eyes. Always maintain the sanitizer level in your spa at the recommended levels specified for each type of sanitizer. You should check the your sanitizer and pH levels before each use and at least twice each week even if the spa is not in use.
WARNING!
Risk of Chemical Reaction and Noxious Fumes

- Handle Spa Chemicals with Care
- Never pre mix dry chemicals
- Always follow instructions on the label
- Always wear safety goggles and gloves to prevent injury.
- High levels of sanitizer can cause discomfort to eyes, lungs and skin.
- Never enter the spa if chemical levels exceed the recommendations.

Do not use tri-chlor chlorine, bromo-chlor-dimethyl-hydantoin (BCDMH) or any type of compressed bromine or chlorine, acid or any sanitizer not recommended by your dealer.

**Step by Step Instructions to Add Chemicals to Your Spa**

1. The water temperature must be at least 80°F before adding chemicals to prevent damage to the acrylic surface.
2. Remove the cover.
3. Fill a large bucket (minimum 2 gallon capacity) with warm water from the spa. Use care not to splash chemicals onto the spa cabinet, or the acrylic surface of the spa.
4. Carefully measure the recommended amount of each chemical, one at a time, following the instructions on the label. Replace the lid on the chemical container.
5. Thoroughly mix the chemical with the bucket of warm water from the spa. Remove the filter basket assembly and filter.
6. Press the Primary Pump button to turn the pump on high speed.
7. With the pump running on high speed, being careful not to get too close, add warm water and chemical mixture into the filtration canister.
8. Repeat this procedure with each chemical you add.
9. When all chemicals have been added and with the cover off the spa, run the pumps on high speed for ten minutes.
10. After 10 minutes, reduce the pump speed to low for one full cycle.
11. When the jet cycle is complete, replace the filter and the filter assembly.
12. Replace and lock the cover. Never leave the spa unattended when the cover is off.

**HEAVY CLEANING OR DECONTAMINATION**

On occasion, it may be necessary to “Super Sanitize” your spa. If algae develops, simply replacing the filter, draining and refilling the spa will not kill the algae. It will be necessary for you to decontaminate the spa before it can be used safely.

**Warning!**
Risk of Chemical Reaction and Noxious Fumes

- During the decontamination process, excessive chemical vapors are produced.
- Wear gloves and a protective mask during the decontamination process.
- Keep children and pets away from the spa.
- Remove the spa cover, all pillows and cover the plastic valves to protect them.
- If your spa is indoors, open the windows and doors. Use a fan to circulate the air and force the vapors out of the room.

**Step by Step Instructions to Decontaminate your Spa**

1. Remove the filter basket assembly, filter and spa pillows. Before adding chemicals, make sure all pumps are operable. Check to be sure all jets and air valves are open. Cover the diverter, air and waterfall valves are covered to protect them from splashes.
2. Rotate the waterfall valve for maximum flow and the diverter valves to the center position for even circulation throughout the entire spa.
3. Turn all pumps on low speed. Fill a large bucket (at least 2 gallon capacity) with warm water. Carefully add 2.5 ounces of sodium dichlor for every 100 gallons of water in the spa and mix thoroughly. For example, if there are 400 gallons of water in your spa, add 10 ounces of sodium dichlor to the large bucket filled with warm water. Turn all of the pumps on low speed. Gently pour the warm water and chemical mixture into the filter housing. After all of the sodium dichlor mixture has been added, turn all pumps on their highest speed and allow the water to circulate for one hour. Do not replace the cover over the spa during decontamination. Never leave the spa unattended while it is uncovered.
4. After the spa has been allowed to run for one hour, turn off all of the pumps and manually turn the GFCI “off”. Drain the spa. Follow the instructions to fill the spa. Remember to put a new filter in the foot well of the spa allowing it to saturate as the spa fills with water.
5. Add chemicals as needed to maintain proper water chemistry.
Filter Care and Replacement

The filter catches debris that is too small for the filter basket, like hair, lotion and body oil. A dirty filter means dirty water. Filters are made of compressed fibers that decompress over time. After the fibers break down and become saturated with dirt and oil allowing contaminants and debris to enter the spa, causing unnecessary strain on the pumps and damaging the components. You should have a supply of replacement filters on hand, in addition to chemicals used to maintain your water. Extra filters are affordable, can be purchased from your local dealer. Your filter needs to be cleaned or replaced when:

- You notice reduced flow from the jets
- The water is hazy, cloudy or discolored
- The heater is running more frequently but the water is not heating evenly or normally

Cleaning your filter

Your filters should be cleaned every two to four weeks, depending on use. Manually turn the GFCI “off.” Following the steps to remove the filter assembly, remove the filter. With a garden hose equipped with a high pressure spray nozzle, rinse the filter making sure to spray between each pleat.

Deep Cleaning your Filter

Filter cleaners may help remove some collected dirt, lotion and body oils that rinsing won’t remove. Following the instructions on the bottle of filter cleaner, carefully place the filter in the cleaning solution. Let the filter soak in the solution following the instructions on the cleaner label. Remove the filter and thoroughly rinse making sure to spray between each pleat. Allow the filter to dry completely. When the filter is dry, brush between each pleat with a fine hair brush. After brushing between the pleats, place the filter in a bucket filled with water or in the spa until the filter is saturated. Replace the filter and reassemble the filter assembly.

- Never use a wire brush on the filter.
- Never put your filter in the dishwasher.
- Never put a dry filter in the filter housing.

Replacement Filter Cartridges

Deep cleaning dirty filters is time consuming, requires the use of additional chemicals and may not remove all residual dirt, body oil and bacteria if not done properly. Depending on use and bather load, the manufacturer recommends that you replace your filters every 3 months.

IMPORTANT SAFETY REMINDERS

- Wash your hands after handling chemicals. In case of accidental contact, follow the emergency advice on the product label. If a doctor is needed, take chemical containers with you to the hospital so the substances can be identified.
- Clean up spilled chemicals immediately using water from a water hose. Saturate the surrounding area thoroughly, especially areas used by children and pets to ensure safety.
- Keep chemicals in their original container with the lid replaced properly after using. Keep containers closed when not in use.
- Keep chemicals away from children and pets. Allow a responsible person to handle spa chemicals; use care when handling chemicals.
- Store chemicals in a cool, dry, well ventilated place.
- Follow local laws when disposing of the water in your spa.
- Never allow the water drained from your spa to run into public water sources.
- Add chemicals when the water temperature is 80°F or higher
- Never smoke when handling chemicals. Some of the chemicals are highly flammable and smoking can lead to serious injury.
- Do not store chemicals in the spa cabinet
- Never expose spa chemicals to extreme temperatures or bright light.
- Do not allow anyone in the spa while adding chemicals. Inhaling fumes or contact with your eyes, nose or mouth is very dangerous.
- Never use swimming pool chemicals, muriatic acid or household bleach, or chlorine tablets (trichlor) in your spa. It can be extremely corrosive. Damage caused by use of trichlor is not covered under the manufacturer’s warranty.
- Never use a vacuum cleaner to clean up chemical spills
- Immediately remove chemical spills from surrounding surfaces and landscaping.
Caring for Your Spa

Your spa was manufactured with the highest quality materials and care available in the spa industry, making sure you spend more time enjoying your spa than you do taking care of it. Just as a healthy body requires an occasional check up, a healthy spa requires some maintenance and attention. Developing a regular routine of care ensures your spa’s health and your peace of mind.

Caring for the Acrylic Surface

Your spa was cast from Lucite® Acrylic making it durable and resilient. It is dirt and stain resistant. Using household cleaners and detergent may leave a dulling residue. When needed, wipe the surface with warm water and a soft cloth. Never use abrasive, ammonia or citrus based cleaners because they will damage the acrylic. Chemicals in some cleaners may have react negatively with the chemicals used to maintain water chemistry.

Caring for the Cabinet Panels

Your spa cabinet is water and weather resistant. It is virtually maintenance free. You will never need to wax, paint or seal the cabinet. When necessary, rinse the cabinet with water from a water hose equipped with a moderate pressure nozzle. More stubborn dirt can be removed by rubbing with a damp, soft cloth. Never use abrasive cleaners or a high pressure hose which may scar the cabinet.

Caring for the Lights

The lense cover over the underwater light is permanently installed. Do no attempt to remove the lense cover. When the spa has been drained, wipe the light lense with a cloth designed for cleaning eye wear to prevent scratching the lense cover. If the other side of the large underwater light is also dirty, remove the cabinet panel, remove the bulb from the lamp holder and wipe with a cleaner and cloth designed for cleaning eye wear. Replace the bulb. Make sure the bulb was properly replaced and the light works before reinstalling the cabinet panel. If you need a replacement bulb, please call your local dealer. Do not attempt to clean the back sides of the perimeter lighting lense covers.

Caring for the Jets

Many of the jets are interchangeable with other jets that are the same size and can be turned on and off when the jet is rotated. To prevent damage that can occur when excessive pressure builds up in the plumbing lines, it’s a good idea to leave all of the jets open. When jets become difficult to rotate, they should be cleaned. With the GFCI in the “off” position, rotate each jet counter clockwise until it reaches its built in “stop” and gently pull the jet outward, removing it from the jet housing. Place all of the jets in a bucket filled with equal parts water and white vinegar overnight. Rinse with warm water. Stubborn dirt on the white part of the jet body can be removed with a soft bristle brush. Do not use steel wool or a wire brush. You should clean your jets each time you drain your spa. If the white jet body on the back of the jet is damaged it should be replaced. Replacement jets are available from your local dealer.

Caring for the Spa Cover

The foam cores in your spa cover are designed to protect your spa from the elements, reduce heat loss, keep unwanted debris out of the spa, and to prevent evaporation. You should clean the vinyl with a small amount of mild dish soap diluted in warm water and a soft sponge 3 or 4 times a year. Allow to dry and wipe with an oil free, non-alcohol based vinyl protector. Many vinyl protectors are oil based and should be avoided. Using oil based products will adversely affect water clarity and chemistry which can be difficult to correct. If you are not using your spa for a prolonged period, pillows should be removed from the spa, dried off and stored. If the vinyl is punctured and the foam is exposed they should be replaced. Replacement pillows are available from your local dealer.

Caring for the Acrylic Surface

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The lense cover over the underwater light is permanently installed. Do no attempt to remove the lense cover. When the spa has been drained, wipe the light lense with a cloth designed for cleaning eye wear to prevent scratching the lense cover. If the other side of the large underwater light is also dirty, remove the cabinet panel, remove the bulb from the lamp holder and wipe with a cleaner and cloth designed for cleaning eye wear. Replace the bulb. Make sure the bulb was properly replaced and the light works before reinstalling the cabinet panel. If you need a replacement bulb, please call your local dealer. Do not attempt to clean the back sides of the perimeter lighting lense covers.

Caring for the Jets

Many of the jets are interchangeable with other jets that are the same size and can be turned on and off when the jet is rotated. To prevent damage that can occur when excessive pressure builds up in the plumbing lines, it’s a good idea to leave all of the jets open. When jets become difficult to rotate, they should be cleaned. With the GFCI in the “off” position, rotate each jet counter clockwise until it reaches its built in “stop” and gently pull the jet outward, removing it from the jet housing. Place all of the jets in a bucket filled with equal parts water and white vinegar overnight. Rinse with warm water. Stubborn dirt on the white part of the jet body can be removed with a soft bristle brush. Do not use steel wool or a wire brush. You should clean your jets each time you drain your spa. If the white jet body on the back of the jet is damaged it should be replaced. Replacement jets are available from your local dealer.

Caring for the Spa Cover

The foam cores in your spa cover are designed to protect your spa from the elements, reduce heat loss, keep unwanted debris out of the spa, and to prevent evaporation. You should clean the vinyl with a small amount of mild dish soap diluted in warm water and a soft sponge 3 or 4 times a year. Allow to dry and wipe with an oil free, non-alcohol based vinyl protector. Many vinyl protectors are oil based and should be avoided. Using oil based products will adversely affect water clarity and chemistry which can be difficult to correct. Using alcohol or chlorine based cleaning products will cause the stitching to deteriorate and damage the UV inhibitors built into the vinyl. The locking tie downs are not designed to keep the cover in place in heavy winds. You should consider using wind straps to stabilize the cover and protect the spa. Use the handles to remove and replace the cover. The cover is sturdy but should never be dragged and is not designed to hold heavy weight loads. Heavy snow loads should be brushed off with a clean soft bristle broom. Never stand on or allow children or pets on the spa cover. When the spa is not in use, the cover should be locked in place with the tie downs.
Caring for the spa in cold weather

Your spa is well insulated to make it economical to operate even in the coldest climate. As long as it is filled with water and power is supplied, the spa will function in January just as it did in July. Keeping your spa fully operational at all times is the best way to protect it from damage that can occur during cold weather. The manufacturer does not recommend draining your spa and disconnecting the power supply in the winter. If you choose to shut your spa down for winter because you live in an extremely cold climate or an area where power outages are common and the spa is subjected to freezing temperatures, you are encouraged to hire a professional to winterize your spa safely. ALL of the water must be removed from the filter housing, pumps, heater, jets and plumbing lines. Simply draining the water as you would for normal maintenance will not provide adequate protection from freezing. Damage that occurs if the spa freezes is not covered under the warranty.

Step by Step Instructions to Safely Winterize your Spa

1. **Unplug the spa from the electrical outlet.** 115V SPA: Unplug from the electrical outlet. 240V SPAS: Turn the GFCI off.
2. Follow the instructions on page 21 to drain all of the water from the spa being careful to properly dispose of the water.
3. When the spa is empty, drain the water from the heater, each pump by loosening the plumbing unions on both sides.
4. Remove the filter cover, basket and filter from the spa. With the wet dry vacuum set to blow, not vacuum, put the hose inside the filter canister and blow all of the water out of the filter canister. DO NOT REINSTALL WET FILTER!
5. Place the hose over each suction fitting for 30 seconds to blow out water in the suction lines.
6. Open all of the jets. Moving in a clockwise direction and starting at the top of each seat working down, blow each jet until all of the water is removed. Repeat this process at least twice, moving all the way around the spa from the top to the bottom of each seat until all of the water is removed.
7. Vacuum all standing water in the seats, foot well, and inside the spa cabinet.
8. Clean the surface thoroughly with a soft cloth and wipe down until completely dry,
9. Replace the drain cap, close the drain, and tighten the plumbing unions on both sides of each component.
10. Allow the cabinet to air dry before replacing the cabinet panel.
11. Replace and lock the cover, securing it in place. Cover the spa to protect it from harsh weather and debris.

* The manufacturer does not recommend using antifreeze which may damage your spa. Even with thorough flushing, residual antifreeze may irritate skin and eyes and make water chemistry difficult to balance when the spa is refilled.

** When the spa is empty, o-rings and seals dry out. When the spa is refilled, inspect plumbing unions for leaks. Re seat and/or replace damaged seals.

System Failure During Freezing Temperatures

If you experience system failure and the spa is exposed to freezing temperatures, your spa may function normally after you manually turn the GFCI “off” for 30 minutes before turning it back on again. If that fails, call your local dealer. If the system failure occurs after normal business hours and your pumps will not circulate the water, you should place a low wattage space heater inside the cabinet near the spa equipment to help prevent freezing. **To avoid the risk of fire or injury, do not leave the spa unattended when the heater is inside the cabinet. If you leave home, turn the heater off.**
<table>
<thead>
<tr>
<th>Problem</th>
<th>Could be Caused By</th>
<th>Could be Solved By</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Will Not Balance</td>
<td>Well, Untreated Municipal, Softened, or Old Water</td>
<td>SEEK LOCAL PROFESSIONAL ASSISTANCE. The manufacturer does not recommend filling the spa with well, untreated or softened water.</td>
</tr>
<tr>
<td>Cloudy Water</td>
<td>Dirty Filter</td>
<td>Replace Filter</td>
</tr>
<tr>
<td></td>
<td>Excessive Organic Matter</td>
<td>Add Shock</td>
</tr>
<tr>
<td></td>
<td>Bacteria on Cover Dripping into Spa</td>
<td>Clean Cover with Approved Cleaner</td>
</tr>
<tr>
<td></td>
<td>Improper Sanitization</td>
<td>Add Sanitizer</td>
</tr>
<tr>
<td></td>
<td>Suspended Organic Matter</td>
<td>Clean or Replace Filter, Add Shock, Run Jets</td>
</tr>
<tr>
<td></td>
<td>End of Water Life / Calcium pH Imbalance</td>
<td>Drain &amp; Refill Spa, Replace Filter</td>
</tr>
<tr>
<td>Green or Brown Water</td>
<td>Excessive Metal /Algae</td>
<td>Add Metal Sequestering Agent</td>
</tr>
<tr>
<td>Excessive Foam</td>
<td>Accumulation of oil, cosmetics and detergent</td>
<td>Add Defoamer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clean or replace filter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Run extra rinse cycle when washing swim wear</td>
</tr>
<tr>
<td>Water has Bad Smell</td>
<td>Excessive Organic Matter - Bacteria Growth</td>
<td>Add Shock</td>
</tr>
<tr>
<td></td>
<td>Improperly Sanitized</td>
<td>Add Sanitizer</td>
</tr>
<tr>
<td></td>
<td>Low pH</td>
<td>Adjust pH</td>
</tr>
<tr>
<td></td>
<td>Chloramines</td>
<td>Add Oxidizing Shock</td>
</tr>
<tr>
<td>Smells Musty</td>
<td>Bacteria Growth</td>
<td>Add Shock. If the problem persists, perform Spa Decontamination</td>
</tr>
<tr>
<td>Ring Around Spa</td>
<td>Build Up of Oil &amp; Dirt</td>
<td>Wipe surface with cloth, drain and refill spa.</td>
</tr>
<tr>
<td>Algae</td>
<td>High pH / Leaving Cover Off</td>
<td>Add pH Reducer</td>
</tr>
<tr>
<td></td>
<td>Low Sanitizer Level</td>
<td>Add Shock &amp; Sanitizer</td>
</tr>
<tr>
<td>Eye or Skin Irritation and/or Rash</td>
<td>Improper Sanitation</td>
<td>Test Water. Add Shock &amp; Sanitizer as Needed</td>
</tr>
<tr>
<td></td>
<td>Combined Chlorine</td>
<td>Add Water Causing Sanitizer Levels to Drop</td>
</tr>
<tr>
<td></td>
<td>Too Much Chlorine</td>
<td>Clean or Replace Filter</td>
</tr>
<tr>
<td></td>
<td>Dirty Filter or pH Imbalance</td>
<td>Clean or Replace Filter</td>
</tr>
<tr>
<td>Stains on Acrylic Surface</td>
<td>High Alkalinity or Low pH</td>
<td>Adjust Alkalinity and pH Accordingly</td>
</tr>
<tr>
<td></td>
<td>High Mineral Content</td>
<td>Use Stain &amp; Scale Reducer</td>
</tr>
<tr>
<td></td>
<td>High Metal Content</td>
<td>Use Metal Sequestering Agent</td>
</tr>
<tr>
<td>Scale Build Up</td>
<td>High Calcium Levels</td>
<td>Adjust Alkalinity; Use Stain and Scale Reducer</td>
</tr>
</tbody>
</table>
Spa Troubleshooting Guide

THE FIRST STEP IN THE TROUBLESHOOTING PROCESS IS TO CHECK THE TOPSIDE CONTROLS FOR DIAGNOSTIC MESSAGES.

If you do not see the solution to your problem, please call your local dealer for assistance.

*Always turn the GFCI “off” before servicing or draining your spa.*

<table>
<thead>
<tr>
<th>Problem</th>
<th>May be Caused By</th>
<th>Might Be Solved By</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Display is blank</td>
<td>Power is off or fuse is blown</td>
<td>Reset GFCI and Main Service. Replace blown fuses</td>
</tr>
<tr>
<td>Spa Will Not Power Off</td>
<td>Spa is heating</td>
<td>Lower temperature settings</td>
</tr>
<tr>
<td></td>
<td>Spa is filtering</td>
<td>Normal function of spa</td>
</tr>
<tr>
<td>Spa Leaking</td>
<td>Loose unions</td>
<td>Hand tighten unions</td>
</tr>
<tr>
<td>GFCI Tripping</td>
<td>Improper wiring</td>
<td>Get Electrician to check neutral wiring connections at GFCI</td>
</tr>
<tr>
<td>Pump(s) Not Working</td>
<td>Air Lock</td>
<td>Bleed the pump(s)</td>
</tr>
<tr>
<td></td>
<td>Pump Cycle has ended</td>
<td>Press button to turn pump on</td>
</tr>
<tr>
<td></td>
<td>Slice Valves Closed</td>
<td>Open Slice Valves</td>
</tr>
<tr>
<td></td>
<td>No Power</td>
<td>Check pump connection in spa control box</td>
</tr>
<tr>
<td></td>
<td>Blockage in line</td>
<td>Clear obstructions in filter assemblies</td>
</tr>
<tr>
<td>Pump(s) run hot</td>
<td>Pump running dry</td>
<td>Call your local dealer</td>
</tr>
<tr>
<td></td>
<td>Flow restricted</td>
<td>Remove debris from filter basket and suction valves.</td>
</tr>
<tr>
<td>Pump Surges</td>
<td>Water level too low</td>
<td>Add water</td>
</tr>
<tr>
<td></td>
<td>Blockage or restriction</td>
<td>Empty filter basket and clean suction drain covers</td>
</tr>
<tr>
<td>No or Low Heat</td>
<td>Spa is at correct temperature</td>
<td>Normal function of spa</td>
</tr>
<tr>
<td></td>
<td>Operating Mode</td>
<td>Check to be sure the spa is not in Economy Mode</td>
</tr>
<tr>
<td></td>
<td>Temperature Setting</td>
<td>Check LED display to see if Heater Icon is illuminated</td>
</tr>
<tr>
<td></td>
<td>Breaker(s) off</td>
<td>Reset GFCI and Main Breaker</td>
</tr>
<tr>
<td></td>
<td>Dirty Filter</td>
<td>Change filter</td>
</tr>
<tr>
<td></td>
<td>Air Lock or Closed Slice Valve</td>
<td>Make sure slice valves are open and pumps are not air locked</td>
</tr>
<tr>
<td></td>
<td>Improper Line Voltage</td>
<td>Have an electrician check voltage</td>
</tr>
<tr>
<td>Heats, but not High Enough</td>
<td>Thermostat turned down</td>
<td>Increase temperature setting</td>
</tr>
<tr>
<td></td>
<td>Dirty filter</td>
<td>Change filter</td>
</tr>
<tr>
<td></td>
<td>Slice valve closed</td>
<td>Open slice valves</td>
</tr>
<tr>
<td></td>
<td>Spa cover shifted</td>
<td>Reposition spa cover</td>
</tr>
<tr>
<td>Over Heat Message on LED</td>
<td>Filtration settings</td>
<td>Reduce number and duration of filtration cycles</td>
</tr>
<tr>
<td></td>
<td>Outside temperature high to allow cooling</td>
<td>Temporarily remove cover and/or add cold water</td>
</tr>
<tr>
<td>Lights Don’t Work</td>
<td>Bulb or fuse burned out</td>
<td>Replace bulb or fuse</td>
</tr>
<tr>
<td></td>
<td>Loose, dirty connection</td>
<td>Check light connections</td>
</tr>
<tr>
<td>Jets Don’t Work</td>
<td>Air lock in pump(s)</td>
<td>Bleed pump(s)</td>
</tr>
<tr>
<td></td>
<td>Slice valve(s) closed</td>
<td>Open slice valves</td>
</tr>
<tr>
<td></td>
<td>Diverter valve closed</td>
<td>Rotate diverter until desired pressure is achieved</td>
</tr>
<tr>
<td></td>
<td>Jet Closed</td>
<td>Rotate outer rim of jet clockwise to open</td>
</tr>
<tr>
<td></td>
<td>Dirty Filter</td>
<td>Change filter</td>
</tr>
<tr>
<td>Low Water Flow</td>
<td>Spa heating or filtering</td>
<td>Normal spa function</td>
</tr>
<tr>
<td></td>
<td>Diverter valve position</td>
<td>Rotate diverter valve to increase flow</td>
</tr>
<tr>
<td></td>
<td>Air valve closed</td>
<td>Rotate air valve to open</td>
</tr>
<tr>
<td></td>
<td>Dirty filter</td>
<td>Clean or replace filter</td>
</tr>
<tr>
<td></td>
<td>Slice valve(s) closed</td>
<td>Open slice valves</td>
</tr>
<tr>
<td></td>
<td>Improper Line Voltage</td>
<td>Have an electrician check voltage</td>
</tr>
</tbody>
</table>
Manufacturer's Limited Warranty for Catalina Spas

Spa Warranty Policies and Procedures

Important Notice: The following are not actual warranties, but detailed descriptions of our warranty policies and procedures. Certain exclusions and disclaimers may apply to these descriptions. Be sure you read and understand the spa warranty. These policies and procedures are subject to change at any time and without notice. Throughout this document, Catalina Spas shall be referred to as the “MANUFACTURER”. Each spa warranty is given to the original consumer only and terminates upon transfer of ownership. Any commercial applications are excluded from all warranties.

Labor Warranty

Labor is described as the work completed by a technician. MANUFACTURER will be responsible for the costs associated for labor for all warranty repairs for twelve (12) months from the original date of purchase, not to exceed fifteen (15) months from the MANUFACTURER’S original ship date. THIS WARRANTY IS GIVEN TO THE ORIGINAL CONSUMER AND TERMINATES UPON TRANSFER OF OWNERSHIP. COMMERCIAL APPLICATIONS ARE EXCLUDED FROM THIS WARRANTY. It is the responsibility of the spa owner to ensure that the spa is accessible for repairs. MANUFACTURER is not responsible for any cost associated with making spa accessible for repairs. If parts are required for repair, MANUFACTURER is not responsible for the cost of shipping parts under the terms of this warranty agreement.

Warranty Procedures

THE CATALINA SPAS WILL WORK TOWARD RESOLVING YOUR WARRANTY REQUEST AS QUICKLY AS POSSIBLE. TO ENSURE THE EFFICIENT PROCESSING OF YOUR WARRANTY CLAIM, PLEASE FOLLOW THESE STEPS:

1. The MANUFACTURER relies upon the dealer to assist in warranty claims and how best to work toward the consumer’s satisfaction. Consumers with questions concerning a claim should call their dealer for assistance.

2. To determine the validity of a warranty claim, the dealer may need to submit to Catalina Spas the proof of purchase, photographs of the spa, wiring configurations, components and the surrounding area where the spa is supported. Catalina Spas will determine the proper solution for repairing the spa. Warranty requests must include the following information:

   * Spa Model     * Name & Address     * Spa Serial Number     * Phone number of Dealer     * Date of Delivery
   * Dealer Name     * Date of Installation     * Date of Purchase     * Photographs of the area of concern     * Thorough Description Problem

   MOST OF THIS INFORMATION IS ON THE ORIGINAL PURCHASE INVOICE.

3. Upon receipt of all of the requested information, Catalina Spas will evaluate it and decide how the claim will be resolved. Repair or replacement is at the MANUFACTURER’S discretion. In all situations, a repair is considered the appropriate course of action. If the spa cannot be repaired in the field and must be returned to the factory, approval must be obtained from Catalina Spas. Cost for removal of the defective spa, delivery and installation of the replacement spa are the responsibility of the consumer and will not under any circumstances be covered by the MANUFACTURER. It is the responsibility of the spa owner to ensure that the spa is accessible for repairs. MANUFACTURER is not responsible for any cost associated with making spa accessible for repairs. If parts are required for repair, MANUFACTURER is not responsible for the cost of shipping parts under the terms of this warranty agreement.

4. Partial documentation submissions will not be considered and do not constitute filing a warranty claim. MANUFACTURER is not responsible for delays caused by failure to submit all of the information in a timely manner.

Surface Warranty

The spa surface is defined as the exposed material finish. The MANUFACTURER warrants the spa surface to be free from defects in material and workmanship, such as blistering, cracking, or delamination, under normal use and maintenance for a period of five (5) years from the original date of purchase, not to exceed 63 months from the MANUFACTURER’S original ship date. The spa must be placed on a level concrete slab sufficiently engineered to support the entire length and width of the spa when filled to capacity. Standard building practices must be followed. Damage caused by failure to have a properly leveled and supported foundation under the spa is not covered under warranty. The MANUFACTURER does not warrant against problems associated with prolonged standing water, prolonged exposure to sunlight and/or use of any sanitation or ozone system not approved by the MANUFACTURER. Damage to the spa surface caused by leaving the spa uncovered and/or empty of water with direct exposure to sunlight will terminate this warranty. Any alteration to any system, including but not limited to electrical, plumbing, or mechanical, improper water chemistry, or any other problems caused by any external source are not covered under warranty. Other exclusions may apply. Normally, problems associated with material and workmanship can and will be repaired. If the spa surface is repaired, the repair is limited to the affected area only, and there is no guarantee against discoloration or fading. The decision to repair will be made by the MANUFACTURER and its field representative after review of the facts, pictures, or any other data presented by the dealer or the consumer. In all cases, pictures of the affected area and foundation of the spa must be provided before any decisions to repair or replace will be made. In the unlikely event a spa is replaced, all warranties (including but not limited to shell, acrylic, equipment and plumbing) date back to the original date of purchase. If it is determined that the shell is to be replaced, the same conditions and terms as outlined in the shell warranty section apply. It is the responsibility of the spa owner to ensure that the spa is accessible for repairs. MANUFACTURER is not responsible for any cost associated with making spa accessible for repairs. If parts are required for repair, MANUFACTURER is not responsible for the cost of shipping parts under the terms of this warranty agreement.

Structural Support (Fiberglass) Warranty

The MANUFACTURER warrants the structural support or fiberglass to be free from defects in material and workmanship under normal use and maintenance for a period of ten (10) years from the original date of purchase, not to exceed 123 months from the MANUFACTURER’S original ship date. Damages to the spa structure and frame, including but not limited to dry rot that occurs as the result of failure to reinstall or replace damaged cabinet, wet rot that is occurs as the result of prolonged exposure to standing water, damage that occurs as the result of relocation after initial installation, insect or rodent damage, neglect, misuse, abuse, improper care or maintenance, or Act of God will not be covered under this warranty. This is not an all inclusive list. The spa must be placed on a level concrete slab sufficiently engineered to support the entire length and width of the spa when filled to capacity. Standard building practices must be followed. Damage caused by failure to have a properly leveled and supported foundation under the spa is not covered under warranty. Any alteration or any other problems caused by any external source are not covered under warranty. Normally, problems associated with material and workmanship can and will be repaired. If the spa structure and frame are repaired, the repair is limited to the affected area only. The decision to repair will be made by the MANUFACTURER and its field representative after review of the facts, pictures, or any other data presented by the dealer or the consumer. In all cases, pictures of the affected area and foundation of the spa must be provided before any decisions to repair or replace will be made. In the unlikely event a spa is replaced, all warranties (including but not limited to shell, acrylic, equipment and plumbing) date back to the original date of purchase. If it is determined that the structural frame is to be replaced, the same conditions and terms as outlined in the structural frame warranty section apply. It is the responsibility of the spa owner to ensure that the spa is accessible for repairs. MANUFACTURER is not responsible for any cost associated with making spa accessible for repairs. If parts are required for repair, MANUFACTURER is not responsible for the cost of shipping parts under the terms of this warranty agreement.
Components Warranty
The components may be defined as the electrical items (i.e., pumps, equipment packs, heaters, topside, etc.) The MANUFACTURER warrants all components to be free from defect in material and workmanship for five (5) years, not to exceed 63 months from the MANUFACTURER’S original ship date. This is a full warranty for the first three (3) years and shall be prorated for the remaining period with the original owner responsible for the following percentages of the replacement or repair: 50% for year 4, and 65% for year 5. THIS WARRANTY IS GIVEN TO THE ORIGINAL CONSUMER ONLY AND TERMINATES UPON TRANSFER OF OWNERSHIP. COMMERCIAL APPLICATIONS ARE EXCLUDED FROM THIS WARRANTY.
Some factory installed components including, but not limited to the ozonator, salt system, jet faces, skirting, Blowers and related components, Mister, Lighting, Audio and video components, speakers and related parts, the spa cover and pillows are warranted to be free from defects in materials and workmanship for one (1) year. Some items, including, but not limited to pump seals are a maintenance item and are covered for manufacturing defects only. Damage caused by weather, poor water chemistry, standing water and/or improper maintenance will not be covered under this warranty. Alterations or replacement of components installed in the spa that are not purchased and/or approved by the MANUFACTURER will terminate the spa warranty. It is the responsibility of the spa owner to ensure that the spa is accessible for repairs. MANUFACTURER is not responsible for any cost associated with making spa accessible for repairs. If parts are required for repair, MANUFACTURER is not responsible for the cost of shipping of parts under the terms of this warranty agreement.

Plumbing Warranty
The plumbing may include all piping, jets and valves. The MANUFACTURER warrants all plumbing parts to be free from defect in material and workmanship for five (5) years, not to exceed 63 months from the MANUFACTURER’S original ship date. This is a full warranty for the first three (3) years and shall be prorated for the remaining period with the original owner responsible for the following percentages of the replacement or repair: 50% for year 4, and 65% for year 5. THIS WARRANTY IS GIVEN TO THE ORIGINAL CONSUMER ONLY AND TERMINATES UPON TRANSFER OF OWNERSHIP. COMMERCIAL APPLICATIONS ARE EXCLUDED FROM THIS WARRANTY.
Jet internals, valve and diverter handles are not covered under this warranty. Damage caused by weather, poor water chemistry, standing water, and/or improper maintenance will not be covered under this warranty. It is the responsibility of the spa owner to insure that the spa is accessible for repairs. MANUFACTURER is not responsible for any cost associated with making spa accessible for repairs. If parts are required for repair, MANUFACTURER is not responsible for the cost of shipping of parts under the terms of this warranty agreement.

Components and Plumbing Warranty Procedures
Catalina Spas will work with the dealer to make the process as easy as possible. For fast & efficient processing of components and plumbing claims, please follow these steps:
1. Your dealer & Catalina Spas must determine whether or not damage is due to MANUFACTURER’S defect. If the damage is due to MANUFACTURER’S defect, the MANUFACTURER will warrant the defective part during the warranty period. This does not include any travel or trip charges, troubleshooting or diagnostic charges. Consumers living outside the technician’s travel area need to be aware that trip charges are their responsibility.
2. Dealer must return for defective parts to receive credit for replacement parts supplied by Catalina Spas for the repair.
3. To be considered for reimbursement, warranty claims must be submitted within 45 days of parts shipment and include proof of delivery for returned parts.
4. Catalina Spas will process warranty claim(s) within fifteen (15) working days (if claim is received in the proper time frame and all required information is submitted with the claim). Processing of claims submitted late or without the proper documentation will be delayed. It is the responsibility of the spa owner to ensure that the spa is accessible for repairs. MANUFACTURER is not responsible for any cost associated with making spa accessible for repairs. If parts are required for repair, MANUFACTURER is not responsible for the cost of shipping of parts under the terms of this warranty agreement.

Items Not Covered Under the Warranty
The following is a general overview of non-warranty items and work. This is NOT an all-inclusive list:
* Shipping Charges  * Diagnostic Services  * Chemical Abuse  * Valve Handles  * Light bulbs of any kind  * Seals  * Filters
* Damage caused by improper installation  * Removal and/or Replacement  * Any part not purchased from Catalina Spas
Fuses, valve handles, cabinet finish, and filters are warranted to be free of defects in workmanship and materials at the time of delivery. Any alterations that have not been PRE-APPROVED by the MANUFACTURER will void all warranties. If an alteration is approved by the MANUFACTURER, it is the consumer’s responsibility to verify that the alteration is covered under warranty. Not all service request is considered a warranty call. For example, moving the tub to access the problem is not considered a warranty call.

The MANUFACTURER understands that some problems take longer than the allowed time to correct. An authorization number will be required to extend warranty coverage for service calls requiring additional time. If you need re-authorization from the MANUFACTURER, a detailed description must be included with the warranty claim for approval.

Limitations
The Catalina Spas warranty is terminated if the spa has been subject to alteration, misuse, or abuse. Misuse or abuse is defined as but not limited to: use of spa in non-residential situations, water temperatures outside the ranges of 32 to 110°F (0 to 43° C), damage caused by clogged or dirty filters, damage caused by the absence of a hard cover, damage caused by failure to adequately maintain water chemistry, use of any type of acid, water left standing, or chemical imbalance. The spa owner is required to provide adequate access to the spa for any repairs or inspections. This warranty is terminated if any extra components area installed without the MANUFACTURER’S prior approval and consent or if any repairs have been attempted or made by anyone who has not received prior authorization from Catalina Spas.

Disclaimer
Your sole and exclusive remedy and the MANUFACTURER’S entire liability, if any, is limited to repair or replacement of the defective part, at the MANUFACTURER’S discretion, in accordance with the terms of this limited warranty. There are no additional warranties, express or implied, which extend beyond the terms of this written warranty. Catalina Spas makes no warranty of merchantability of the goods or the fitness of goods for a particular purpose. No agent, dealer, service company, technician or other parts representative is authorized to change, modify, or extend the terms, make any promise of performance or make any other representation including implied warranties for merchantability and fitness for a particular purpose as well as non-infringement in any manner so ever that are not included in the written warranties that accompany each Catalina Spa.

The MANUFACTURER’S liability, if any, shall not exceed the original amount paid for the original product. Under no circumstances shall the MANUFACTURER or any of its representatives be liable for injury, loss, injury to person or damage to property, however arising, including indirect, punitive, special, incidental or consequential costs, expenses or damages, which may include, but are not limited to, loss of use, water damage, the removal of a permanent deck or other custom fixture whether the claim for such injury, loss, or damage is based on breach of contract, breach of warranty or tort, even if the MANUFACTURER has previously been advised of the possibility of damages. This limited warranty gives you specific legal rights and you may have other rights which vary from state to state. Any disputes arising from the purchase of a Catalina Spa or this warranty are governed by the laws of the State of Tennessee.
The primary cause of component failure in spas is an improperly installed Ground Fault Circuit Interrupter.

For the health and safety of your family and your spa, it is IMPERATIVE that all of your wiring and electrical connections be installed correctly by a qualified licensed electrician and that a properly rated Ground Fault Circuit Interrupter is installed between your main power supply and your spa. If your spa is not connected properly, the safety features built in to prevent the risk of death by electrocution or fire may be disabled and the electronic components in your spa may be damaged beyond repair. Damage to your spa that occurs because it wasn’t connected properly is not covered under your warranty.

GFCIs are readily available at home improvement, hardware, and electrical supply stores nationwide and can be also be purchased online. The wiring diagrams from some of the most commonly purchased brands illustrate that the input and output locations along with the locations of grounding lugs, neutral blocks and wiring connections vary by manufacturer.

**ALWAYS FOLLOW THE INSTALLATION INSTRUCTIONS THAT ARE INCLUDED WITH THE GFCI YOU PURCHASE.**