Owner’s Manual
Congratulations on your purchase of a Mark III Hydro Spa!

Owner’s Manual

This Owner’s Manual will acquaint you with the operation and general maintenance of your new Hydro Spa Mark III Spa. Please keep this manual available for reference.

If you have any questions about any aspect of your spa’s set up procedures, operation or maintenance, contact your authorized Hydro Spa dealer.

Date Purchased: __________________________

Date Installed: __________________________

Dealer Name: ____________________________________________

Dealer Address: ____________________________________________

Dealer Telephone: __________________________

Spa Model and Serial Number: __________________________
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**IMPORTANT:** Hydro Spa, Reserves the right to change specifications, or design, without notification and without incurring any obligation.
IMPORTANT SAFETY INSTRUCTIONS

Read and follow all instructions carefully.
When installing and using this electrical equipment, basic safety precautions should always be followed, including:

WARNING SIGN MUST BE POSTED
The Warning sign (RED) is packed with your new Hydro Spa. This sign must be posted in a prominent place in close proximity to the spa installation site immediately upon completion of spa installation.

- **WARNING**: To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
- **WARNING**: A grounding wire connector is provided on this unit to connect a minimum No. 8 AWG (8.4mm²) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5m) of the unit.
- **DANGER**: Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use a spa or hot tub unless they are supervised at all times. Cover spa and use safety locks to prevent accidents.
- **DANGER**: Risk of Injury. The suction fittings in this hot tub are sized to match the specific water flow created by pumps. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible. Never operate the hot tub if the suction fitting is broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.
- **DANGER**: Risk of Electric Shock. Install at least 5 feet (1.5m) from all metal surfaces. As an alternative, a hot tub may be installed within 5 feet of metal surfaces if each metal surface is permanently connected (bonded) by a minimum No. 8 AWG (8.4mm²) solid copper conductor attached to the wire connector on the grounding lug, inside the equipment compartment on the equipment box.
- **DANGER**: Risk of Electric Shock. Do not permit any electrical appliance, such as a light, telephone, radio, television, etc. within 5 feet (1.5m) of a hot tub unless such appliance are built-in by the manufacturer.
- **ELECTRICAL SUPPLY**: The electrical supply for this product must include a suitable rated switch or circuit breaker to open all ungrounded supply conductors to comply with section 422-20 of the National Electrical Code, ANSI/INFPA 70. The disconnect must be readily accessible and visible to the hot tub occupant but installed at least 5 feet (1.5m) from the hot tub water.
WARNING: To reduce The Risk of Injury:
1. The water in a 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 young children and when hot tub use exceeds 10 minutes.
2. Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit hot tub water temperatures to 100°F (38°C). If pregnant, please consult your physician before using a hot tub.
3. Before entering the hot tub, the user should measure the water temperature with an accurate thermometer since the tolerance of the water temperature-regulating devices may vary as much as a +/- 5° F (+/-2°C).
4. The use of alcohol, drugs, or medication before or during hot tub use may lead to unconsciousness with the possibility of drowning.
5. Persons suffering from obesity or a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a hot tub.
6. Persons using medication should consult a physician before using a hot tub since some medication may induce drowsiness, while other medication may affect heart rate, blood pressure, and circulation.

IMPORTANT CANADA SAFETY INSTRUCTIONS
When using this electrical equipment, basic safety precautions should always be followed, including the following:
1. Read and follow all instructions.
2. A green colored terminal or a terminal marked G, Gr, Ground, Grounding or the ground symbol is located inside the supply terminal box or compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with continuous copper wire equivalent in size to the circuit conductors that supply this equipment.
3. At least two lugs marked "Bonding Lugs" are provided on the external surface or on the inside of the supply terminal box/compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the hot tub to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG.
4. All field-installed metal components such as rails, ladders, drains or other similar hardware within 10 feet (3m) of the hot tub shall be bonded to the equipment grounding buss with copper conductors not smaller than No. 6 AWG.

SAVE THESE INSTRUCTIONS.

WARNING: Children should not use spa without adult supervision.

WARNING: Do not use hot tub unless all suction guards are installed to prevent body and hair entrapment.

WARNING: People with infectious diseases should not use a hot tub.

WARNING: To avoid injury, exercise care when entering or exiting the hot tub.
IMPORTANT SAFETY INSTRUCTIONS

WARNING: Do not use drugs or alcohol before or during the use of a hot tub to avoid unconsciousness and possible drowning.

WARNING: Pregnant or possibly pregnant women should consult a physician before using a hot tub.

WARNING: Water temperature in excess of 40°C (104°F) may be injurious to your health.

WARNING: Before entering the hot tub, measure the water temperature with an accurate thermometer.

WARNING: Do not use a hot tub immediately following strenuous exercise.

WARNING: Prolonged immersion in a hot tub may be injurious to your health.

WARNING: Do not permit electric appliances (such as lights, telephone, radio, television, etc.) within 5 feet (1.5m) of this hot tub unless such appliances are built-in by the manufacturer.

CAUTION: Maintain water chemistry in accordance with manufacturer's instructions.

WARNING: The use of alcohol or drugs can greatly increase the risk of fatal hyperthermia in hot tub.

HYPERTHERMIA
Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F (37°C). The symptoms of hyperthermia include drowsiness, lethargy, and increase in the internal temperature of the body.

Prolonged immersion in hot water may induce hyperthermia. A description of the causes, symptoms, and effects of hyperthermia are as follows:

CAUTIONS

1. Persons suffering from heart disease, diabetes, high or low blood pressure, and any condition requiring medical treatment, pregnant women, the elderly, or infants should consult with physician before using a spa.
2. The water temperature in a spa should not exceed 104°F (40°C). Immersion in water in excess of 104°F (40°C) can be hazardous to your health.
3. Observe a reasonable time limit when using the spa. Long exposure at higher temperatures can cause high body temperature. Symptoms may include dizziness, nausea, fainting, drowsiness, and reduced awareness. These effects could possibly result in drowning.
IMPORTANT SAFETY INSTRUCTIONS

4. Do not use the spa under influence of alcohol, narcotics, or other drugs. Use of the spa under these conditions may lead to serious consequences.

5. Always test the spa water temperature before entering the spa. Enter and exit the spa slowly. Wet surfaces can be very slippery.

6. Never bring any electrical appliances into or near the spa. Never operate any electrical appliances from inside the spa or when you are wet unless such appliances are built-in by the manufacturer.

7. Proper chemical maintenance of spa water is necessary to maintain safe water and prevent possible damage to spa components.

8. Use the straps and clip tie downs to secure the cover when not in use. This will help to discourage unsupervised children from entering the spa. Keep the spa cover secure in high-wind conditions. There is no representation that the cover, clip tie-downs, or actual locks will prevent access to the spa.

9. A warning sign is packed with your new spa. Please install it a location near your spa, where it is visible to the user of the hot tub. For additional or replacement signs please contact our Service Department.

For all spas equipped with audio components:

ぷ Caution - Risk of Electric Shock.
Do not leave audio compartment door open

ぷ Caution - Risk of Electric Shock
Replace audio components only with identical components.

ぷ Warning - Prevent Electrocution.
Do not connect any auxiliary components. For example, cable, additional speakers, headphones, etc. to the system.

IMPORTANT: Because of the combined weight of the spa, water and users, it is extremely important that the base upon which the spa rests be smooth, flat, level and capable of uniformly supporting this weight, without shifting or settling, for the entire time the spa is in place. If the spa is placed on a surface which does not meet these requirements, damage to the skirt and/or the spa shell may result. Damage caused by improper support is not covered under warranty. It is the responsibility of the spa owner to assure the integrity of the support at all times.

Manufacturer recommends a poured, reinforced concrete slab with a minimum thickness of 4 inches (10cm). Wood decking is also acceptable provided it is constructed so that it meets the requirements outlined above. The spa must be installed in such a manner as to provide drainage away from the spa. Placing the spa in a depression without provisions for proper drainage could allow rain, overflow and other casual water to flood the equipment and create a wet deck. Install so as to permit access to the equipment, either from above or below, for servicing. Make certain that there are no obstruction which would prevent removal of the cabinet side panels and access to the jets components, especially on the side with the equipment bay doors.
CHOOSING A LOCATION

Outdoor Location
In selecting the ideal outdoor location for your spa, we suggest that you take into consideration:

1. The proximity to changing area and shelter (especially in colder weather conditions).
2. The pathway to and from the spa (free of debris, dirt, leaves as not to be tracked into spa).
3. The closeness to trees and shrubbery (leaves and birds could create extra work).
4. A sheltered environment (less wind, weather exposure resulting in lowered operation and maintenance costs).

Indoor Location
Be sure your spa will fit into the space you have chosen. Proper access into the home is needed to move the spa into place. Ventilation may be needed because of the humidity from the spa. In most cases, a spa cover is sufficient. Be sure to check the load carrying capabilities of the floor on which you will be installing your spa. Most homes meet the requirement of 125lbs per square foot. Insure you have proper drainage in the event of a leak. In case of maintenance problems; leave enough room around the spa to work.

POWER REQUIREMENTS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTS</th>
<th>GFCI AMPS</th>
<th>EL RATING AMPS</th>
<th>MARKING</th>
<th>APPLICATION</th>
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</thead>
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<tr>
<td>Millennium</td>
<td>240</td>
<td>50</td>
<td>40</td>
<td>3 Wire #6 + Grd 3</td>
<td>Balboa HS200</td>
</tr>
<tr>
<td>Omni</td>
<td>240</td>
<td>50</td>
<td>40</td>
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<td>Balboa HS200</td>
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<tr>
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<td>40</td>
<td>3 Wire #6 + Grd 3</td>
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<tr>
<td>Lexxus</td>
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<td>50</td>
<td>40</td>
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<td>Balboa HS200</td>
</tr>
<tr>
<td>Tiara</td>
<td>240</td>
<td>50</td>
<td>40</td>
<td>3 Wire #6 + Grd 3</td>
<td>Balboa HS200</td>
</tr>
</tbody>
</table>

Our spas are designed to provide optimum performance and flexibility of use when connected to their maximum electrical service listed in the table below.

US/Canada 60Hz Model: 240vac/40A (50A GFCI breaker)

If you prefer, our Service Department can assist you with a minor circuit board modification ("S1" switch "mode operation" ON/OFF in Controller) that allows the spa to operate on a different electrical service.

Electrical Service Options for all Mark III models:

<table>
<thead>
<tr>
<th>Voltage</th>
<th>240vac</th>
<th>240vac</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number and size of wires</td>
<td>3wires #6+GR</td>
<td>3wires #6 +GR</td>
</tr>
<tr>
<td>Frequency</td>
<td>60Hz</td>
<td>60Hz</td>
</tr>
<tr>
<td>Circuit breaker (2-Pole)</td>
<td>40A**</td>
<td>50A*</td>
</tr>
<tr>
<td>S1 position</td>
<td>ON</td>
<td>OFF</td>
</tr>
</tbody>
</table>

* In this configuration, the heater will operate while both jets pumps and blower are running
** In this configuration, the heater will not operate while either jets pump is running or when the blower is running

For details See Wiring Diagram Fig. 1 Page 6, and GFCI Wiring Diagram Fig. 2 Page 7.
Figure 2

GFCI SUB PANEL (2-Pole GFCI)

SPAC CONTROLLER

HOUSE BREAKER BOX

ALL 240VAC SPAS MUST BE PERMANENTLY CONNECTED (480V WYE) TO THE POWER SUPPLY.

STANDARD WIRING PRACTICES (US/CANADA 240VAC, 60HZ).
Important Notice:
When installed in the United States, the electrical wiring of this spa must meet the requirements of the National Electric Code (NEC) and any applicable state or local codes. The electrical circuit must be installed by an electrical contractor and approved by a local building/electrical inspector.

1. All Dedicated 240vac spas must be permanently connected (hard wired) to the power supply. No plug-in connections or extension cords are to be used in conjunction with operation of this spa. See specific power supply requirements by model. Supplying power to the spa which is not in accordance with these instructions will void both the independent testing agency's listing and the manufacturer's warranty.
2. The power supplied to the spa must be a dedicated circuit.
3. To determine the current, voltage and wire size required for the spa configuration to be connected, refer to Power Supply Requirements in the Owner's Manual.
   - Wire size must be appropriate per NEC and/local codes, and do not use rating size less than shown on page 5 chart.
   - Wire size is determined by length of run from breaker box to spa and maximum current draw.
   - We recommend copper wire with THHN insulation
   - All wiring must be copper to ensure adequate connections. Do not use aluminum wire.
   - When using wire larger than #6 (10mm2), add a junction box near the spa and reduce to short lengths of #6 (10mm2) wire between the junction box and the spa.
   - The Electrical supply for the spa must include a suitable rated switch or circuit breaker. The disconnecting means must be readily accessible to the spa's occupant but installed at least 5 feet (1.5m) from the spa water. Check with local municipalities for additional code requirements.
   - The electrical circuit for the spa must include a suitable ground fault circuit interrupter (GFCI) as required by NEC Article 680-42.

4. To gain access to the spa's power terminal strip, remove the wooden/plastic cabinet panel on the side of the spa under the control panel. After removing the cabinet panel, remove the metal control box cover screws and metal control box cover. See Fig. 3, 4.
5. An inlet is provided to allow the power supply to enter the equipment area from the left of the hot tub near the base. Select the inlet, then feed the power cable through to the control box. If necessary you can drill a cable hole through either the bottom, back or right side of the spa cabinet to meet cable connection to control box. See Fig. 3.
6. Install power cable through the large opening provided on the left side of the metal control box.
7. Connect wires, color to color, on the terminal block and tighten securely. See Spa controller box drawing for details. See Fig. 4, 5.
8. Secure the metal control box door by installing its screws, then re-install the cabinet panel under the control panel. Electrical installation is now complete. See Fig. 3, 4.

Important safety notice for all models!
Proper grounding is extremely important. A pressure securing wire connector (bonding lug) is provided on the outside of the spa controller to permit connection of a bonding wire between the spa and any metal within 5 feet (1.5m) of the spa. Bonding wire must be at least #8 AWG (8.4mm2) solid copper wire. For Canada use bonding wire # 6AWG.
START-UP INSTRUCTIONS

FOR BEST RESULTS, READ EACH STEP IN ITS ENTIRELY BEFORE PROCEEDING WITH STEP.

1. Prepare The Hot Tub For Filling
   - Clear all debris from the hot tub.
   - Remove filter lid. Place the end of your garden hose into the empty weir filter and begin filling with clean water.
   - Note: Never fill with water from a water softener. If your water is extremely "hard", it is preferable to fill half way with hard water and the rest of the way with softener water. Or, you may fill entirely with hard water if you use special water additive available from your dealer.
   - Fill hot tub until water level is 3" above of bottom of filter housing. See Fig. 6, 7.
   - Do not overfill.

   Note: Always fill your spa through the filter bucket. See Fig 7. Failure to do so may cause air to be trapped in circulation pump, preventing the pump from circulating water.
   - Remove the hose and re-install lid

2. Turn on power to hot tub at the home circuit breaker GFCI. The GFCI circuit breaker must be tested before each use of your spa. Press the “TEST” button on the breaker, the circuit breaker should go to the tripped position. Reset the GFCI and ensure it stays set.

   The heater and circulation pump will automatically activate. Ozone will be on. One minute after start up blower purges for 30 seconds and pump 1 and pump 2 purge for one minute.

3. Add Start-Up Chemical as recommended by your dealer. Refer to Page 19 for general guidance.

4. Place Cover On Hot Tub
   - Keeping the insulating cover in place anytime the hot tub is not in use will reduce the time for heating, thereby minimizing operating costs.
   - The time required for initial heat-up will vary depending on the starting water temperature.
START-UP INSTRUCTIONS

Figure 6
- Air Control
- Pillow
- Aux Control
- Water Level 3” Above Bottom Of Filter Housing
- Air Control
- Jets
- Air Control
- Air Control
- Light

Figure 7
- Filter Bucket
- Skimmer Float
- Assy and Basket
- Filter Cartridge
- Water Fall
- Water On/Off Valve
- Filter Lid & Cup Holder
- Spa Side Control
- Aromatherapy
Your spa is equipped with a Topside control panel, air control knobs, on-off waterfall valve and aroma-therapy canister. Some models are equipped with an auxiliary control panel. All controls located on the top rail of the spa. These controls let you operate many of the special functions on your spa. The main control panel controls all of the spa functions and uses indicator LED lights, LCD display to aid the user to determining the status of the spa. Auxiliary control panel (if equipped) is conveniently located on top rail so that a user inside of spa can operate the both pumps. By familiarizing yourself with following information, you will be able to gain the full benefit afforded by the various functions of your spa.

1. **Main Control Panel** (Fig. 8)
The main control panel provides quick visual check on the spa’s status, and allows the user to adjust the temperature set, activate the pumps, blower, light, control of the spa status. The control panel activates functions at the touch of a button. The panel will also display diagnostic messages which enable you to easily operate your spa and the spa’s condition. See "Display Message for details" Page 15.

    **Temperature Adjustment**
To adjust your spa temperature by pressing the WARM or COOL button pad. When the pad is pressed, the display will show the set temperature. Pressing the WARM button will cause the set temperature to increase or pressing the COOL button pad to decrease. The temperature adjustment range is 80°F-104°F. Default setting is 100°F. Any interruption of power will cause the unit to reset and revert to the default programming of 100°F set point.
**OPERATING INSTRUCTIONS**

Jets 1 control
Your spa is equipped with a two speed motor on pump 1. Depress the JETS1 pad to turn on pump 1 (low speed), depress the JETS1 pad second time to turn on pump 1 (high), and depress the JETS1 pad again to turn pump1 off. Corresponding spa jets will operate when pump 1 is on (low or high). Anytime Pump1 has been manually turned on, it will automatically turn off after approximately 15 minutes on high speed and 4 hours for low speed. LED light JETS1 is on when the pump 1 is on.

Aux. control (if spa equipped with pump 2)
If your spa is equipped with a two speed motor on pump 2, depress the AUX pad to turn on pump 2 (low speed), depress the AUX pad a second time to turn on pump 2 (high), depress the AUX pad again to turn pump2 off. Corresponding spa jets will operate when pump 2 is on (low or high). Anytime Pump 2 has been manually turned on, it will automatically turn off after approximately 15 minutes on high speed or low speed. LED light AUX is on when the pump 2 is on.

Blower control (if equipped with Air blower)
If your spa is equipped with an Air Blower depress the BLOWER pad to turn on the Blower. Depress the BLOWER pad a second time to turn the Blower off. Corresponding air jets will operate when the Blower is on. Anytime the Blower has been manually turned on, it will automatically turn off after approximately 15 minutes.

Mood Light control
If your spa equipped with a Mood Light, depress the LIGHT pad to turn on the Light. Depress the LIGHT pad a second time to turn the Light off. The spa mood is light preprogrammed with assortment of lighting effects. When you turn the Light off, and turn on within 5 seconds it advances to the next effect. When you turn the Light off for more than 5 seconds, it remembers that last effect you selected. The next time you turn on the Light, it will display the same effect. The Light will automatically turn off after approximately 4 hours.

For Standard Light application every time you depress the LIGHT pad the Light will turn on and off.

Spa Mode selection
Depressing the MODE pad will allow you to select either "Standard" or "Economy" mode.

In Standard mode the water temperature is held to the set temperature at all times. After the set temperature is reached, the heater turns off and the 24 hour circulation pump and ozone generator continue to operate to oxidize and sanitize the spa water.

In Economy mode the 24 hour circulation pump and ozone generator continues to operate and the heater will turn on only during a programmed filter cycles. See the circulation pump for details.

Circulation Pump
Your system is equipped with a 24-hour circulation pump which provides 24 hours continuous water circulation and filtration. The spa’s entire contents is completely filtered 70-120 times each day. It works like this: a dedicated, energy efficient, quite circulation pump constantly draws water from the spa, runs it through the filters and the heater (heating only when necessary), then back through return jets to the spa. The ozone output is on whenever the circulation pump is running.
OPERATING INSTRUCTIONS

Once a day the pumps and blower turn on to prevent the spa water from becoming stagnant in the plumbing lines of the therapy jets and blower lines when the spa used very little and improves the skimmer action to remove debris and suspensions from the water surface, once per day at the start first “filtration” cycle the blower purges all air lines for 30 seconds and pumps purge all plumbing lines and agitate water for 5 minutes.
In a 24 hour circulation system the “filtration cycle” program operates only on limited base. In economy mode, when actual water temperature of the spa is below the set temperature the heater will turn on only during the “filtration cycle”. The default setting of the filtration cycle is 2 hours, twice per day.

—heater—
Your spa is equipped with an electrical heater. By setting your thermostat to the desired temperature, your heater will automatically turn on and off as needed. The temperature set point (set temperature) can be adjusted from 80°F to 104°F/26°C-40°C). To raise the set temperature press the “Warm” button. To lower the set temperature, press the “Cool” button. The start up temperature is set at 100°F/37.5°C.

"Simplified freeze protection"
If a freeze condition is detected (temperature of heater enclosure is less than 44° F, the pump(s) are automatically activated until the temperature of the heater enclosure reaches 45° F. If this occurs contact your dealer.

2. Air Volume Control
Your spa is equipped with Air Volume Controls. Each jet system has its own air control. These controls allow you to regulate the amount of air which is mixed with the water entering through the jets. Counterclockwise rotation adds more air and clockwise rotation reduces air flow. To minimize heat loss, these controls should be closed when the hot tub is not in use.

3. Waterfall control
Turn the waterfall valve clockwise to decrease or turn off waterfall output. It takes four full revolutions to change the waterfall from full off to a full on flow rate.

4. Adjusting Jets
All jets in your new spa can be adjusted for high and low impact massage, providing an ultimate massage. Each jet has its own water volume and directional or oscillating flow adjustment.
To adjust jets:
Turn outer dial counterclockwise to increase water volume. Turn outer dial clockwise to decrease water volume or to shut jet off.
For adjustment of the directional jets move the nozzle of jet to any angle.

5. Aromatherapy
Simply remove the Aromatherapy injector cap, drop in the injector basket of your favorite scented beads. When the Air blower is activated, the scent will be released into the spa vapor through the air injectors. See your dealer for replacement of scented beads.
Panel messages are very helpful to the user about the status of the spa and gives a quick clue toward solving a variety of problems. Here are the most common messages you may see on the Display and what they mean.

**ECON**- The spa is in economy mode. ECON flashed alternately with the current spa water temperature.

**OH**-Overheat (spa is deactivated)
The spa control is at a high-limit condition and the spa is deactivated.

**DO NOT ENTER IN THE SPA WATER.**
Either the water temperature sensor detected that the spa water temperature is above or equal to 112°F or high-limit sensor detected at least 118°F at the heater. Remove the spa cover and allow water to cool. Adding cool water may be necessary. If the water is still hotter than the set temperature, press the blower button to cool the spa water. If the water temperature sensor detected temperature above 112°F and the spa water temperature drops to 110°F, the spa should automatically reset. If the High limit sensor located on heater enclosure detected a temperature above 118°F, a manual reset required. Push any button on the top side control or turn off the power to the spa and then power on again. If the spa does not reset, then shut off power to the spa and call your dealer or service representative.

The following is a list of most probable causes of this message.

- Check the position of the slice-valves. Make sure that they are fully open.
- Make sure that the cartridge filter has no blockage.
- Make sure that temperature sensor is fully inserted into the thermo well and that the sensor mount is properly insulated with foam.
- Check the water level. Water level should be 3" above the filter well.
- Check the water temperature with an accurate thermometer

**SN- Sensor failure detection**
This indicates that the high-limit sensor or temperature sensor is open or faulty. The spa is deactivated.

- Check the sensor wires for cracks or damage.
- Inspect the connections of both sensors to the circuit board. The plugs must be clean.
- If the problem continues after following the above steps, then replace the sensor set.

**COOL**-The Display shows COOL
The water is more than 20°F cooler than the set temperature. The heater will automatically activate to provide freeze protection. COOL message will disappear once the temperature reaches the set temperature.

**ICE**- The Display shows ICE.
When the high-limit sensor reads a temperature below 44°F, the system provides freeze protection. It automatically activates all of pumps to circulate water and warm the plumbing. Freeze protection is enabled regardless of the spa status. Consult with a service technician.
Draining Your Spa

To drain your spa, perform the following steps:
1. Turn the power off. (Turn breaker off).
2. Select a safe, suitable drainage area capable of safely assimilating 300 plus gallons of water, which may contain both unsanitary contaminants and chemical residue that could cause harm to plants or grass.
3. Locate drain valve at front of the spa or outside of pan bottom. See Fig. 3,10. Hold the rear body to prevent it from turning, then loosen and remove the front cap to expose male hose threads.
4. Attach garden hose to the exposed threads.
5. Twist the drain fitting 1/3 turn counterclockwise to unlock the drain valve and pull it outward to open completely. The spa water will drain by gravity flow.
6. After the spa drains, perform steps 3-5 in reverse order to close the drain prior to refilling spa.
7. After refilling, turn on the power to the spa and follow the steps listed under “Start-Up Instructions.”
Filter Cleaning and Cartridge Replacement

The filter(s) in your spa should be cleaned at least every month, depending on spa usage. This will ensure that the water is being filtered properly, and there is no restriction in the filter due to dirt and grease build-up. Turn off the spa, remove filter lid and set aside. Remove the filter skimmer basket by turning it counterclockwise. Remove the filter element and replace or clean. Reinstall skimmer basket turning it clockwise and turn the spa back on.

Cleaning the filter can be done easily using a Filter Degreaser solution and following the directions on the bottle. Soak filter in a degreaser and power wash with a garden hose. It is recommended to have a second filter, which can be cleaned between filter changes. This will enable you to quickly exchange the dirty filter with a clean filter and immediately re-start your spa.

Care Of The Exterior

Spa Shell
Your spa shell is made of acrylic. Stains and dirt generally will not adhere to the surface. A soft rag or a nylon scrubber should easily remove most dirt. Most household chemicals are harmful to your spa's shell. See your dealer for the best product to use. The only products which have passed the manufacturer's test are Soft Towel and Windex. Sodium bicarbonate (baking soda) can also be used for minor surface cleaning. Always thoroughly rinse off any spa shell cleaning agent with fresh water.

NOTES: Iron and copper in the water can stain the spa shell if allowed to go unchecked. Ask your Hydro Spa dealer about a stain and scale inhibitor to use if your spa water has a high concentration of dissolved minerals.

The use of alcohol or any household cleaners other than those listed to clean the spa shell surface is NOT recommended. DO NOT use any cleaning products containing abrasives or solvents since they may damage the shell surface. NEVER USE HARSH CHEMICALS! Damage to the shell by the use of harsh chemicals in not covered under the warranty.

IMPORTANT: Some surface cleaners contain eye and skin irritants. Keep all cleaners out of the reach of children and use care when applying.

Maintenance Free Cabinet
Spas consist of a rigid polymer that combines the durability of plastic with the beauty of a redwood or gray cabinet. The spa cabinet will not crack, peel, blister or delaminate. Cleaning consists of simply spraying the cabinet with a mild soap and water solution to remove any stains and residue.
SPA CARE AND MAINTENANCE

Care Of Spa Cover
To clean and condition the vinyl cover:
Remove the cover from the spa and gently lean it up against a wall or fence.
Using a garden hose, spray the cover to loosen and rinse away any dirt or debris.
Using a sponge and/or a soft bristle brush, and using a very mild soap solution (one teaspoon dishwashing liquid with two gallons of water), or baking soda (sodium bicarbonate), scrub the vinyl top in a circular motion. Do not let the vinyl dry with a soap film on it.
Scrub the cover’s perimeter and side flaps. Rinse clean with water.
Rinse off the underside of the cover with water only (use no soap), and wipe it clean with a dry rag.
To condition the cover after cleaning, apply a thin film of vinyl cleaner to the surface and buff to a high luster.

Important reminders:
DO NOT walk or stand on top of cover.
DO remove snow buildup to avoid breakage of the foam core from the additional weight of the snow.
DO lock cover locking straps to secure the cover when the spa is not in use.
DO NOT drag or lift the spa cover using either the flaps, or the cover lock straps.

Vacation Care Of Spa
Following these instructions to ensure that the water quality of your spa is maintained:

For Short Periods (3 to 5 days)
Adjust the pH
Sanitize the water
Lock cover for safety

For Long Periods (5 to 14 days)
Set temperature to its lowest level approximate water temperature of 80°F.
Adjust the pH
Sanitize the water
Lock cover for safety

Return Procedures
Sanitize the water following shock procedures
Return water temperature to original setting
Insure chlorine level had dropped below 5.0 ppm

NOTE: If you plan on not using your spa for periods exceeding 14 days, you may ask a family member or neighbor to assist with your spa maintenance, and if not available you will need to drain or winterize spa.

Winterizing Your Spa
During the cold weather you may not wish to use your spa outside. In this case you may move it to a heated area, or leave it until the weather warms up.

WARNING: Allowing your spa water to freeze will cause severe damage to the spa shell, equipment, and plumbing and WILL VOID THE WARRANTY.
SPA CARE AND MAINTENANCE

The following steps should protect your spa from freezing:

Disconnect the spa from the power supply.
Remove the screws holding your spa access panel door.
Open the valve and the spa will drain by gravity flow.
Remove the filter cartridge, then clean and store in a dry place.
Attach a wet/dry shop vac (capable of blowing air as well as vacuuming) into the filter housing.
Turn blower on and allow it to blow out any water remaining in the plumbing lines. (Should take no more than 5 minutes).
Reinstall the filter housing.
Use the shop vac to remove water inside spa blown through jets.
Use a shop vac and clean towel and remove any remaining water from bottom of spa until dry.
Vacuum water from blower injectors.
Leave the drain open.
Close the spa cover and fasten with tie down safety locks.

WATER QUALITY AND MAINTENANCE

Your Water In Your Spa
The quality of your water in your spa is important. Your dealer can guide you through the process of achieving and maintaining perfect water in your spa in your given local conditions. Your program will vary depending on your water’s mineral content, and how often you use your spa, and the amount of people using it.

Here are our suggested step-by-step procedures:

General Information - The three fundamental areas of water maintenance.
* Water Filtration   * Chemical Balance/pH Control   * Water Sanitation

A water sanitizer will chemically control the bacteria and viruses present in the water introduced during the use of the spa. Bacteria and viruses can grow quickly in undersanitized spa water.

The water’s chemical balance and pH control are also your responsibility. You will have to add chemicals to maintain proper levels of Total Alkalinity (TA), Calcium Hardness (CH) and pH. Proper water balance and pH control will minimize scale buildup and corrosion of metals, extend the life of the spa, and allow the sanitizer to work at maximum efficiency.

Methods For Testing Spa Water
Accurate water testing and analysis are an important part of effectively maintaining your spa water. You must have the ability to test for:

Total Alkalinity (TA)
pH
Calcium Hardness (CH)
Sanitizer
Basic Chemical Safety
When using chemicals, always read the labels carefully and follow directions. Though chemicals protect you and your spa when used correctly, they can be hazardous in concentrated form. Observe the following guidelines:

- Allow only a responsible person to handle spa chemicals. KEEP OUT OF THE REACH OF CHILDREN.
- Accurately measure the exact quantities specified, never more. Do not overdose your spa.
- Handle all containers with care. Store in a cool, dry well ventilated place.
- Always keep chemical containers closed when not in use. Replace caps on their proper containers.
- Don’t inhale fumes or allow chemicals to come in contact with your eyes, nose, or mouth. Wash your hands immediately after each use.
- Follow the emergency advice on the product label in case of accidental contact or if the chemical is swallowed. Call a doctor or the local Poison Control Center. If a doctor is needed, take the product container along with you so that the substance can be identified.
- Don’t let chemicals get on surrounding surfaces or landscaping.
- Never smoke around chemicals. Some of the fumes can be highly flammable.
- Don’t store chemicals in the spa equipment compartment.

Balancing Total Alkalinity (TA)

The recommended Total Alkalinity (TA) for your spa water is 125-150 ppm. Total Alkalinity is measure of the total levels of carbonates, bicarbonates, hydroxides, and other alkaline substances in the water. TA is referred to as the water’s “pH buffer”. It’s a measure of the ability of the water to resist changes in pH level.
- If the TA is too low, the pH level will fluctuate widely from high to low. Fluctuations in pH can cause corrosion or scaling of spa components. Low TA can be corrected by adding pH/Alkalinity UP (sodium hydrogen carbonate).
- If the TA is too high, the pH level will tend to be high and may be difficult to bring down. It can be lowered by adding pH/Alkalinity down (sodium bisulfate).
- Once the TA is balanced, it normally remains stable, although the addition of more water with a high or low alkalinity will raise or lower the TA reading of the water.
- When the Total Alkalinity is within the recommended range, proceed.

Balancing Calcium Hardness (CH)

The recommended Calcium Hardness (CH) level for your spa is 150-200 ppm. Calcium Hardness is a measure of the total amount of dissolved calcium in the water. Calcium helps control the corrosive nature of the spa’s water. That’s why calcium-low water (commonly know as “soft” water) is not recommended. It is very corrosive to the equipment, and can cause staining of the spa shell. If the calcium level is too low, we recommend using Calcium Increaser to bring the calcium hardness level to within the recommended range.
- If the CH is too high (commonly know as “hard” water), formation of scale on the spa’s shell surface and equipment can result. CH can be decreased by dilution - a mixture of 75% hard and 25% soft water will be a good starting point. If soft water is not available, or practical for you, a stain and scale control such as Scale Defense should be added to the spa water, according to instructions on its label.
WATER QUALITY AND MAINTENANCE

Once the CH is balanced, it normally remains stable, although the addition of more water with a high or low calcium content will raise or lower the CH reading of the water. When the Calcium Hardness is within the recommended range, proceed.

Balancing The pH

The recommended pH level for your spa water is 7.4-7.6. The pH level is the measure of acidity and alkalinity. Values above 7 are alkaline; those below 7 are acidic.

Maintaining the proper pH level is extremely important:

- Optimizing the effectiveness of the sanitizer.
- Maintaining water that is comfortable for the user.
- Preventing equipment deterioration.

If the spa water's pH level is too low, the following may result:

- The sanitizer will dissipate rapidly.
- The water may become irritating to spa users.
- The spa's equipment may corrode.

If the pH level is too low, it can be increased by adding pH/Alkalinity Up (sodium hydrogen carbonate) to the spa water.

If the pH level is too high, the following may result:

- The sanitizer is less effective.
- Scale will form on the spa shell surface and the equipment.
- The water may become cloudy.
- The filter cartridge pores may become obstructed.

If the pH is too high, it can be decreased by adding pH/Alkalinity Down (Sodium bisulfate) to the spa water.

NOTE: After adding pH/Alkalinity Up (sodium hydrogen carbonate) or pH/Alkalinity Down (sodium bisulfate), wait at least two hours before testing the water for pH. Measurements taken too soon may not be accurate.

It is important to check the pH on a regular basis. The pH will be affected by the bather load, the addition of new water, the addition of various chemicals, and the type of sanitizer used. When the pH is within the recommended range, proceed.

Maintaining Sanitizer Level
WATER QUALITY AND MAINTENANCE

Sanitizer is extremely important for killing algae, bacteria and viruses, and preventing unwanted organisms from growing in the spa. At the same time, you don’t want too high a sanitizer level, or it can irritate your skin, lungs, and eyes. Always maintain the sanitizer level in your spa at the recommended level for each type of sanitizer.

Ozone
The Ozonation System in your spa drastically reduces the need for chemicals in the water.

Reagent: A chemical material in liquid, powder, or tablet form for use in chemical testing.
Sanitizer: Sanitizers are added and maintained at recommended residuals to protect bathers against pathogenic organisms which can cause disease and infection in spa water.

Water Terminology

Bromamines: Compounds formed when bromine combines with nitrogen from body oils, urine, perspiration, etc. Unlike chloramines, bromamines have no pungent odor, and are effective sanitizers.
Bromine: A halogen sanitizer (in the same chemical family as chlorine). Bromine is commonly used in stick, tablet, or granular form.
Chloramines: Compounds formed when chlorine combines with nitrogen from body oils, urine, perspiration, etc. Chloramines can cause eye irritation as well as having a strong odor. Unlike bromamines, chloramines are weaker, slower sanitizers.
Chlorine: An efficient sanitizing chemical for spas.
Chlorine (or Bromine) Residual: The amount of chlorine or bromine remaining after chlorine or bromine demand has been satisfied. The residual is, therefore, the amount of sanitizer which is chemically available to kill bacteria, viruses and algae.
Corrosion: The gradual wearing away of metal spa parts, usually caused by chemical action. Generally, corrosion is caused by low pH or by water with levels of TA, CH, pH or sanitizer which are outside the recommended ranges is 7.4 to 7.6. Below 7.0 (considered neutral), the spa water is too acidic and can damage the heating system. Above 7.8, the water is too alkaline and can result in cloudy water, and scale formation on the shell and heater.
Scale: Rough calcium-bearing deposits that can coat spa surfaces, heaters, plumbing lines, and clog filters. Generally, scaling is caused by mineral content combined with high pH. Additionally, scale forms more readily at higher water temperatures.
<table>
<thead>
<tr>
<th>Problem</th>
<th>Probable Causes</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cloudy Water</td>
<td>Dirty Filter/s</td>
<td>Clean filter or replace.</td>
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<tr>
<td></td>
<td>Excess oils / organic matter</td>
<td>Shock spa with sanitizer.</td>
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<tr>
<td></td>
<td>Improper sanitization</td>
<td>Add sanitizer.</td>
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<tr>
<td></td>
<td>Suspended particles / organic matter</td>
<td>Adjust pH and/or alkalinity.</td>
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<tr>
<td></td>
<td>Overused or old water</td>
<td>Run jet pump(s) and clean filter.</td>
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<tr>
<td></td>
<td></td>
<td>Drain and refill spa.</td>
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<tr>
<td>Water Odor</td>
<td>Excessive organics in water</td>
<td>Shock spa with sanitizer.</td>
</tr>
<tr>
<td></td>
<td>Improper sanitization</td>
<td>Add sanitizer.</td>
</tr>
<tr>
<td></td>
<td>Low pH</td>
<td>Adjust pH to recommended range.</td>
</tr>
<tr>
<td>Chlorine Odor</td>
<td>Chloramine level too high</td>
<td>Shock spa with sanitizer.</td>
</tr>
<tr>
<td></td>
<td>Low pH</td>
<td>Adjust pH to recommended range.</td>
</tr>
<tr>
<td>Musty Odor</td>
<td>Bacteria or algae growth</td>
<td>Shock spa with sanitizer - if problem is visible or persistent, drain, clean and refill spa.</td>
</tr>
<tr>
<td>Organic buildup / scum ring</td>
<td>Build-up of oils and dirt</td>
<td>Wipe off scum with clean rag - if severe, drain the spa, use a spa surface and tile cleaner to remove the scum, and refill spa.</td>
</tr>
<tr>
<td>around spa</td>
<td></td>
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</tr>
<tr>
<td>Algae Growth</td>
<td>High pH</td>
<td>Shock spa with sanitizer and adjust pH.</td>
</tr>
<tr>
<td></td>
<td>Low sanitizer level</td>
<td>Shock spa with sanitizer and maintain sanitizer level.</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>Low pH</td>
<td>Adjust pH.</td>
</tr>
<tr>
<td></td>
<td>Low sanitizer level</td>
<td>Shock spa with sanitizer and maintain sanitizer level.</td>
</tr>
<tr>
<td>Skin Irritation / Rash</td>
<td>Unsanitary water</td>
<td>Shock spa with sanitizer and maintain sanitizer level.</td>
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<tr>
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<td>Free chlorine level above 5 ppm</td>
<td>Allow free chlorine level to drop below 5 ppm.</td>
</tr>
<tr>
<td>Stains</td>
<td>Total alkalinity and/or pH too low</td>
<td>Adjust total alkalinity and/or pH.</td>
</tr>
<tr>
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<td>High iron or copper in source water</td>
<td>Use a metal deposit inhibitor.</td>
</tr>
<tr>
<td>Scale</td>
<td>High calcium content in water - total alkalinity and pH too high</td>
<td>Adjust total alkalinity and pH - If scale requires removal, drain the spa, scrub off the scale, refill the spa and balance the water.</td>
</tr>
</tbody>
</table>
# SPA CARE & MAINTENANCE RECORD

<table>
<thead>
<tr>
<th>Date</th>
<th>Drain &amp; Clean Spa</th>
<th>Spray Clean or Sink Filter Element</th>
<th>Winterize Spa</th>
<th>Clean &amp; Condition Vinyl Cover</th>
<th>Clean Cabinet</th>
<th>Service</th>
</tr>
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**NOTES:**

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WARRANTY

Hydro Spa warrants the Poseidonite Mark III Series spa shell structure against the loss of water through the fiberglass laminate of the shell caused by defects in materials and workmanship for as long as the original purchaser owns the spa.

Hydro Spa warrants the Mark III series plumbing manifolds to be free of defects in materials or workmanship for as long as the original purchaser owns the spa.

Surface Warranty - 10 year Limited

Hydro Spa warrants the Mark III series interior acrylic spa surface against blisters, cracks, or delaminating resulting from a defect in the acrylic surface material for a period of 10 years from the date of purchase. This limited warranty is based on the following formula: Retail cost divided by months covered (10 years = 120 months), multiplied by months owned, equals spa owners’ replacement cost. Surface warranty issues should be notified to Hydro Spa by certified mail to warranty department within 30 days of finding defect or warranty will become void. Shipping and installation costs of the substitute hot tub unit are the responsibility of the spa owner making the claim. Unit to be replaced must have electrical detached and placed on ground in an area convenient for pick-up.

Electrical Equipment - 2 years

Hydro Spa warrants the Mark III series electrical equipment and components to be free of defects in materials and workmanship for a period of 2 years from date of purchase.

The Warranty Coverage’s are covered by the terms of the Hydro Spa "Warranty Performance and Coverage."

Warranty Performance and Coverage

Please register your spa within 30 days of delivery by mailing in your warranty registration card found in this manual or by registering at www.hydrosa.com/owners.html. Hot tubs not purchased through an authorized Hydro Spa Dealer are specifically excluded from warranty coverage of any kind. Hydro Spa will, at its sole option, repair or replace any hot tub or component found to be defective under the terms and conditions of this warranty. Hydro Spa reserves the right to substitute a hot tub or component of equivalent value, either new or factory reconditioned and any such repair or replacement shall assume as its warranty only the remaining portion of the warranty on the original product. Labor service shall run concurrent with the "Electrical Equipment" warranty and no charge will be made for parts or labor. Hydro Spa or Hydro Spa Authorized Technicians/Dealers who perform labor service to a spa owner beyond 30 miles of the registered service location may subject spa owner to reasonable travel costs.

The cost of shipping warranty parts to the spa owner is the responsibility of Hydro Spa. Spa owner must return defective part(s) to Hydro Spa within 30 days of the noted defect and Hydro Spa may collect spa owner credit card information to secure defective part(s) return. Failure to return defective parts will result in a charge on spa owner’s credit card. Hot tub surface repairs will be made to function satisfactorily and an exact color match may not be possible. Non-defective replacement parts required to perform or complete warranty repairs will be covered from the original spa purchase date. Contact your dealer if you have questions concerning warranty issues, prior to contacting Hydro Spa. In the absence of a local Authorized Hydro Spa Dealer, to obtain warranty service, either the complete the web link at http://www.hydrospa.com/service_request.html or notify in writing "Hydro Spa, Attention Warranty Service, 13055 49 Street N., Clearwater, FL 33762," or call 727-573-9611 within 30 days of the time the problem becomes apparent. Hydro Spa must preauthorize the return of all defective spas and parts. Hydro Spa always reserves the right to inspect any spa.

Exceptions to Warranty

The following items are specifically excluded from any warranty coverage:

1. Damage caused by failure to follow procedures in the owner’s manual.
2. Damage caused by improper installation or installing the hot tub on unstable surface, or by moving the hot tub.
3. Hydro Spa hot tubs when empty of water and left in direct sunlight without the hot tub cover in place are vulnerable to ultraviolet or solar damage. Temperature generated by sunlight can increase the temperature of the shell by up to thirty degrees Fahrenheit.
4. Any alterations, misuse, abuse, or if any repairs are attempted by anyone other than an authorized representative of Hydro Spa except with the express verbal or written permission from Hydro Spa warranty or technical personnel.
5. Hot tub surface damage or discoloration or discoloration of spa jets or pillows resulting from improper maintenance including but not limited to: the use of sanitizers such as Tri-Chlor, calcium hypochlorite, sodium hypochlorite, and/or any chemical that may dissolve or remain undissolved on the hot tub shell or cabinet surface. Damage or stain caused by mineral or chemical content of the hot tub water.
6. The hot tub cover is not manufactured by Hydro Spa and any warranty claim must be made through the cover manufacturer.
7. The hot tub cover must not be used as a seat. In extreme cases the lid could crack and break. This occurrence is not covered under warranty.
8. Damage caused by improper or incorrect electrical hook-up. In all cases the electrical hook-up directions in the owner’s manual should be followed NOT those on the spa electrical box.
9. Hot tub pillows, hot tub light bulb and lenses, hot tub filter element, outside cabinet panels, fuses, and hot tub jets, and stereo fuses. These items are only warranted at the time of spa delivery.
10. Damage resulting from operating the hot tub at a water temperature outside the range of 33 degrees F to 118 degrees F (0.5 C to 48 C) for any reason.
11. Damage caused by normal use.
12. Use of hot tub in a non-residential application.
13. All hot tub accessories including but not limited to, spa steps, cover lifter, chemical kits, and add-on jet accessories.
14. Cracks are defined as a break in the shell that goes all the way through the shell. Scratches and cosmetic gouges are not considered cracks.
15. Acts of nature, accidents, or other causes beyond the control of Hydro Spa.

Disclaimers

The spa owner is required to provide adequate access to the spa for any repair or inspection. Hydro Spa shall not be liable for loss of use of the spa or other incidental or consequential costs, expenses, or damages, which may include but are not limited to water damage, or the removal of a deck or custom fixture. Under no circumstances shall we or any of our representatives be held liable for injury to any person or damage to any property, however arising. This warranty gives you specific legal rights and you may have other rights. No Agent, Dealer, Service Company, or other party is authorized to change, modify, or extend the terms of this warranty in any manner whatsoever. Warranty coverage is extended to the original consumer purchaser for personal, family or household use, from the date of original purchase within the boundaries of United States and cannot be assigned or transferred by the original purchaser to any person or entity.
Since 1975, Hydro Spa has been designing and building the finest quality spas on the market. Handmade by skilled technicians, using only the finest materials available, you can take comfort knowing that our reputation is only as solid as your satisfaction with our products.

Rated 5-Stars, Best Of Class,” by Poolandspa.com, customers all over the country have spent over the last two decades discovering how good it feels to enjoy the comfort and quality of a Hydro Spa.

Our Mark III Series offers the ultimate combination of luxury amenities, ease of use and intuitive design. Each Mark III Series model is backed by the Hydro Spa name, reputation and warranty.

WARRANTY REGISTRATION
You may process your warranty registration by logging on to Hydro Spa at www.hydrospa.com. Click on the “Owners” button on top of the home page and complete and submit the online registration form. You may also register your warranty by cutting out the registration form below and mailing it to the Hydro Spa warranty department. The form is pre-addressed on the reverse side of this page.

| SPA MODEL: ______________________ |
| SPA SERIAL NO.: __________________ |
| DEALER: ___________________ CUSTOMER NAME: ____________________ |
| ADDRESS: ___________________ CUSTOMER ADDRESS: ____________________ |
| CITY: ___________________ CITY: ___________________ STATE: ___ ZIP: _____ |
| STATE: _______ ZIP: _______ CUSTOMER PHONE NO.: ____________________ |
| DEALER PHONE NO.: _______ CUSTOMER SIGNATURE: ____________________ |
| DATE OF PURCHASE: ____________________ |