Owner’s Manual

Life’s Better in a SpaBerry

My SpaBerry:

Model Name: ___________________________ Serial Number: ___________________________
Date Purchased: ________________________ Date Installed: __________________________

Notes:
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IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY

When installing and using this electrical equipment, basic safety precautions should always be followed, including:

- **Risk of Accidental Drowning.** Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use or approach the spa unless they are supervised at all times.

- **Risk of Serious Injury or Death.** The suction fittings in this SpaBerry are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible. Never operate the SpaBerry if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.

- **Risk of Electric Shock.** Install at least 5 FEET (1.5 m), from all metal surfaces. As an alternative, a SpaBerry may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum No. 8 AWG (8.4 mm²) solid copper conductor attached to the wire connector on the grounding lug, inside the equipment compartment on the equipment can.

- **Risk of Electric Shock.** Do not permit any electrical appliance, such as a light, telephone, radio, television, etc. within 5 ft/1.5m of a SpaBerry. Never operate any electrical appliances from inside the SpaBerry or when you are wet.

- The electrical supply for this SpaBerry must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with section 680-42 of the National Electrical Code, ANSI/NFPA 70-1993. The disconnect must be readily accessible and visible to the spa occupant but installed at least 5 feet (1.5 m), from the SpaBerry’s water.

- A grounding wire connector is provided on the SpaBerry to connect a minimum No. 8 AWG (8.4 mm²) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5 m) of the spa.

- Do not attempt to remove the light housing cover without lowering the water level below the light housing cover.

- **To Reduce the Risk of Injury:** The water in a SpaBerry 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 the SpaBerry’s use exceeds 10 minutes.

- **To Reduce the Risk of Injury:** 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 spa water temperatures to 100°F (38°C).

- **To Reduce the Risk of Injury:** Before entering a SpaBerry, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices may vary as much as +/- 5°F/2°C.

- **To Reduce the Risk of Injury:** The use of alcohol, drugs, or medication before or during SpaBerry use may lead to unconsciousness with the possibility of drowning.

- **To Reduce the Risk of Injury:** Pregnant women, the elderly, infants, or persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes, should consult a physician before using a SpaBerry. Pregnant or possibly pregnant women should not enter water warmer than 100°F (38°C).

- **To Reduce the Risk of Injury:** Persons using medication should consult a physician before using a SpaBerry since some medication may induce drowsiness, while other medication may affect heart rate, blood pressure, and circulation.

- Observe a reasonable time limit when using the SpaBerry. Long exposures at high temperatures can cause high body temperature. Symptoms may include dizziness, nausea, fainting, drowsiness, and reduced awareness. These effects could result in possible drowning.

*We do not recommend the use of Hydrogen Peroxide based products. The Spa Warranty will become void if Coast Spas or any of its retail selling dealer or servicing agents determines that Hydrogen Peroxide has been used in the Spa.*
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- Enter and exit the SpaBerry slowly. Wet surfaces can be very slippery.
- Proper chemical maintenance of SpaBerry’s water is necessary to maintain safe water and prevent possible damage to spa components.
- Use the SpaBerry straps and clip tie downs to secure the cover when not in use. This will help to discourage unsupervised children from entering the SpaBerry and keep the SpaBerry cover secure in high wind conditions. There is no guarantee that the cover, clip tie downs, actual locks will prevent access to the SpaBerry.

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS (CANADA)
(CSA SAFETY INFORMATION)

In addition to the preceding safety instructions, Canadian owners should read and understand the following information from the Canadian Safety Association:

READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY

- A green colored terminal or a terminal marked G, GR, Ground, Grounding, or the 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 a continuous copper wire equivalent in size to the circuit conductors supplying this equipment.
- IEC Publication 417, Symbol 5019.
- 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 SpaBerry to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG.
- All field-installed metal components such as rails, ladders, drains or other similar hardware within 3 meters of the SpaBerry shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 6 AWG.
- Children should not use a SpaBerry without adult supervision.

AVERTISSEMENT: NE PAS LAISSER LES ENFANTS UTILISER UNE CUVE DE RELAXATION SANS SURVEILLANCE.

Do not use a SpaBerry unless all suction guards are installed to prevent body and hair entrapment.

AVERTISSEMENT: POUR ÉVITER QUE LES CHEVEUX OU UNE PARTIE DU CORPS PUISSENT TRE ASPIRÉS, NE PAS UTILISER UNE CUVE DE RELAXATION SI LES GRILLES DE PRISE D’ASPIRATION NE SONT PAS TOUTES EN PLACE.

- People using medications and/or having adverse medical history should consult a physician before using a SpaBerry.
- People with infectious diseases should not use a SpaBerry.
- To avoid injury, exercise care when entering or exiting the SpaBerry.
- Do not use drugs or alcohol before or during the use of a SpaBerry to avoid unconsciousness and possible drowning.

AVERTISSEMENT: POUR ÉVITER L’ÉVANOUISSEMENT ET LA NOYADE EVENTUELLE, NE PRENDRE NI DROGUE NI ALCOOL AVANT D’UTILISER UNE CUVE DE RELAXATION NI QUAND ON S’Y TROUVE.
Pregnant or possibly pregnant women should consult a physician before using a SpaBerry.

**AVERTISSEMENT:** LES FEMMES ENCEINTES, QUE LEUR GROSSESSE SOIT CONFIRMÉE OU NON, DEVRAIENT CONSULTER UN MéDECIN AVANT D’UTILISER UNE CUVE DE RELAXATION.

Water temperature in excess of 38° C may be injurious to your health.

**AVERTISSEMENT:** IL PEUT TRE DANGEREUX POUR LA SANTÉ DE SE PLONGER DANS DE L’EAU À PLUS DE 38°C.

Before entering the SpaBerry, measure the water temperature with an accurate thermometer.

**AVERTISSEMENT:** AVANT D’UTILISER UNE CUVE DE RELAXATION MESURER LA TEMPÉRATURE DE L’EAU À L’AIDE D’UN THERMOMÈTRE PRÈCIS.

Do not use a SpaBerry immediately following strenuous exercise.

**AVERTISSEMENT:** NE PAS UTILISER UNE CUVE DE RELAXATION IMMEDIATEMENT APRÈS UN EXERCICE SATIGANT.

Prolonged immersion in a SpaBerry may be injurious to your health.

**AVERTISSEMENT:** L’UTILISATION PROLONGÉE D’UNE CUVE DE RELAXATION PEUT TRE DANGEREUSE POUR LA SANTÉ.

Do not permit electric appliances (such as a light, telephone, radio, television, etc.) within 1.5m of this SpaBerry.

**AVERTISSEMENT:** NE PAS PLACER D’APPAREIL ÉLECTRIQUE (LUMINAIRE, TÉLÉPHONE, RADIO, TÉLÉVISEUR, ETC.) À MOINS DE 1.5 M DE CETTE CUVE DE RELAXATION.

Maintain water chemistry in accordance with manufacturer’s instructions.

**ATTENTION:** LA TENEUR DE L’EAU EN MATIERÈS DISSOUTES DOIT TRE CONFORME AUX DIRECTIVES DU FABRICANT.

The use of alcohol or drugs can greatly increase the risk of fatal hyperthermia in a SpaBerry.

**AVERTISSEMENT:** LA CONSOMMATION D’ALCOOL OU DE DROGUE AUGMENTE CONSIDÈRABLEMENT LES RISQUES D’HYPERTHERMIE MORTELLE DANS UNE CUVE DE RELAXATION.

**SAVE THESE INSTRUCTIONS**

**Hyperthermia**

Prolonged immersion in hot water may cause hyperthermia. A description of the causes, symptoms, and effects of hyperthermia are as follows: Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6° F, or 37° C. The symptoms of hyperthermia include dizziness, drowsiness, lethargy, and fainting. The effects of hyperthermia include:

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

**Safety Do’s and Don’ts**

- **DO** read all operating instructions.
- **DO** read, understand and follow all Safety, Danger and Warning instructions before use.
- **DO** test water temperature with your hand before entering to be sure that it’s comfortable.
- **DO** keep the SpaBerry cover closed when the SpaBerry is not in use. This is important for safety and for economical spa operation.
- **DON’T** block the equipment compartment vents. Blockage may cause damage to the SpaBerry equipment and will void the warranty.
- **DON’T** block or sit on the filter recess area.
- **DON’T** allow horseplay or unsupervised use of your SpaBerry.
- **DON’T** allow anyone to tamper or play with any of the safety or suction fittings of your SpaBerry.
Warning Signs

Each SpaBerry has been provided with a Warning Sign, Important Notice label and a Freezing Warning.

Always Attach Spa Cover and lock cover clips after each use.

This label outlines safety precautions. This sign should be permanently placed in a location that is visible to the SpaBerry user. Replacement signs can be obtained from:

www.thespaberry.com
Features of the SpaBerry

Congratulations on the purchase of your SpaBerry! Take the time to read these instructions carefully. If installed and maintained properly your spa will provide many years of enjoyable, trouble-free operation. Read all of the instructions for further reference on SpaBerry operation.

The following features are included on your SpaBerry:

- Tested to UL 1563
- 110 Volt Operation, convertible to 220V by a licensed electrician
- Completely self-contained
- Built-in, automatic freeze protection
- Two person capacity
- Designed for indoor or outdoor use
- Top access, easy to clean filter system
- Water level referencing Weir Skimmer
- Long life, dual speed pump
- 35 sq. ft. of filtration

Installation

Location and Setup

Before attempting to install or use your SpaBerry, please read these instructions thoroughly. Because your SpaBerry is completely self-contained, you can install it just about anywhere you wish... on a deck, patio, or even indoors. Just be sure to position it above ground, in an area with good drainage and on a level surface that fully contacts the bottom of the SpaBerry.

A concrete slab is best but not required. You may choose to install it on a wood deck. If you choose to install your SpaBerry on a raised deck or indoors, we recommend you contact a licensed contractor to confirm the surface will hold a SpaBerry filled with water. Movement of your deck or slab may result in damage to the SpaBerry, which is not covered by warranty. Wherever you plan to install your SpaBerry, be sure the surface is flat and solid. Locate your SpaBerry so that the equipment is above grade and not subject to flooding. Water should always drain away from the SpaBerry. If you are placing your SpaBerry next to an obstacle, such as a fence or wall, be sure that you place the SpaBerry with the equipment compartment facing forward for easy equipment access.

NOTE: If you install the SpaBerry indoors, the surrounding area should be waterproof or water resistant. Water may splash out during normal usage and when entering or exiting the SpaBerry. SpaBerry is not responsible for any water damage, humidity damage to any indoor location for any reason. SpaBerrys are equipped with a locking cover that meets or exceeds ASTM F1346-51 Safety Standard for Covers,” but is not an adequate safety measure to prevent unsupervised entry.

IMPORTANT! LOCKING HARDWARE ENCLOSED

Parts Installation Instructions:

1.- Place cover on spa. Be sure it is correctly positioned.
2.- Position the tie-down hardware (attached to the straps of your cover) on the side of the spa so they are easily reached by the cover tie-downs straps.
3.- With the straps pulled taut (not overly tight) mark the location for screw placement.
4.- Attach hardware with the screws provided.
5.- Keep cover fastened down at all times when not in use. Locking hardware may be locked with a key (provided).

WARNING

AVOID DROWNING RISK

FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN INJURY OR DROWNING.
NON-SECURED OR IMPROPERLY SECURED COVERS ARE A HAZARD. REMOVE COVER COMPLETELY BEFORE ENTRY OF BATHERS. ENTRAPMENT POSSIBLE. KEEP COVER ON SPA AND LOCKED WHEN NOT IN USE.
**Owner’s Manual**

**Electrical Connections and Filling**

Do not turn on electrical power to your SpaBerry until told to do so later in this manual.

To hook up your SpaBerry, follow these instructions:

1. Remove the filter cartridge outer lock ring by turning counterclockwise and then lift up to remove it. Lift the center float up and out to expose the filter cartridge.

2. Remove the filter cartridge by turning the cartridge counterclockwise 2-3 rotations. Lift cartridge out of the canister.

It is very important that you read the **Water Care Guide** section before filling your SpaBerry

***WARNING: Do NOT fill spa with water in freezing conditions. When below 0°C/32°F, the water will freeze. Damage due to freezing is NOT a warrantable defect.***

NOTE

3. Place a hose in the empty skimmer receptacle and fill the SpaBerry from 1” above the highest jet to 5” from the top of the spa. Always use cold water when filling spa to prevent shell damage.

4. Connect the power cord, coming from under the SpaBerry to a properly rated outlet. A dedicated 15 amp circuit should be used for premium performance of spa. This means no other plugs on this circuit.

5. Once the SpaBerry is filled, replace the filter and turn on the power at the GFCI circuit interrupter. Push the JETS button twice to turn the pump on to high speed. Let the system run for 30-45 seconds to prime the pump. Then push the button again to shut the pump off. If the jets do not start, there is air trapped in the plumbing lines. To eliminate the trapped air, turn the pump on and off several times to force the trapped air through the pumps. If you are finding this difficult there is an air bleed valve in the equipment area. Shut the pump off and then open this valve until water starts to come out. Close the valve and turn the pump on again. Repeat if necessary.

6. Within 4-6 minutes after the power is turned on, the SpaBerry will automatically begin its first one-hour filtration cycle (this cycle may be interrupted if the jet pump is being turned on and off at the time). If there is no jet action during the filter cycle, repeat the pump priming steps described in step 6 above. Once the jets are working properly, turn the power off and on again at the GFCI to reset the Start Time of the filtration cycle, which will begin 4-6 minutes after the power is turned back on.

7. The SpaBerry will automatically filter itself twice each day. During each filter duration cycle, the pump will run on low-speed for the duration of the cycle. The second filter cycle will begin 12 hours after the start of the first. To set a different start time for the filter cycles, you can turn the power to the SpaBerry off then back on using the GFCI breaker at the time of day you would like the cycle to run.

8. Now set the water temperature by pushing the UP/DOWN Buttons until the desired water temperature (called the “Set Temperature”) appears in the Display Window. The SpaBerry will not allow the temperature to be set above 104°F (40° C). After a few seconds, the screen will revert to showing the current SpaBerry water temperature. Whenever the temperature falls below the Set Temperature, the SpaBerry will turn on the heater and run the pump at low speed to bring it back up to the Set Temperature.

To confirm that the heater is on the Heat Indicator light on the control panel will glow.

NOTE

9. After completing the above steps, see the Water Care Guide section to ensure proper water chemistry

10. Place the SpaBerry cover on the SpaBerry to conserve energy and keep it ready for use.

**DO NOT ENTER THE WATER** if the water temperature is in excess of 104°F. Always test your water temperature with an accurate thermometer.
Initial Start-up

IMPORTANT: About the GFCI Circuit Interrupter — The GFCI (Ground Fault Circuit Interrupter) is an electrical safety switch that automatically shuts off power to the SpaBerry in case of an electrical malfunction. The GFCI should be OFF before the SpaBerry is filled. Manually turn off power to the SpaBerry any time by using the GFCI. Just push the switch to the TEST position. After turning off the GFCI, make sure the control panel display window is blank, to know the power is off. When the power is ready to turn back on, reset the GFCI by pressing the RESET button. Do not use your SpaBerry unless you understand the operation of the GFCI. SpaBerry owners should test gfcf monthly to ensure protection. To do this, press the Test button and verify the spa shuts down.

The GFCI is in the 110V cord. The cord comes out of the equipment base on the left side. The outlet that you connect the SpaBerry to must be rated at 110 volts and 15 amperes.

Note: SpaBerry is convertible to 220V. If you choose to convert to 220V, you must install a 30 or 40 amp GFCI breaker. It is recommended that this be done by a licensed electrician. Minimum wire size is #8. All connections must conform to local electrical codes. Power connections, and control jumper settings are contained in the wiring diagram inside the control panel cover. ***By converting the spa to 220V you will have increased heater performance from 1Kw to 4Kw. This will also allow the heater to run while the pump is in high speed.***

1. Locate the equipment compartment
2. Check that the pump unions (in illustration) are hand tight to prevent the possibility of leakage.
Operation

Before using your SpaBerry you should read and become totally familiar with content of this section.

Location of SpaBerry Components

The SpaBerry components consist of two seats, two Poly Rotator jets, two Poly Directional jets, two Poly Massage jets, one Front access light, water feature with on/off valve, two suction fittings, one Weir skimmer, and an equipment compartment. The following three photographs show the location of these components.

The direction of the Poly Directional jet is adjustable by turning the nozzle in the desired direction. Also, it may be turned on or off. To do this, simply turn the outer part (or face) of the jet clockwise to shut it off and counterclockwise for the fully on position.

The Poly Rotational jet will rotate in a circular motion as the water passes through it. Also, it may be turned on or off. To do this, simply turn the outer part (or face) of the jet clockwise to shut it off and counterclockwise for the fully on position.

The Poly Massage jet will rotate in a circular motion as the water passes through it. Also, it may be turned on or off. To do this, simply turn the outer part (or face) of the jet clockwise to shut it off and counterclockwise for the fully on position.

If the heater is on and the pump is turned to high speed, the heater will turn off. This feature keeps the control system within the 15 ampere limit.

Special Feature
On/Off Valve for the Water feature

The On/Off valve (left) will control the waterfall in your SpaBerry. Once you have turned the jets on, turn the valve to adjust the water flow from this waterfall.

Suction Fitting

The Suction Fittings are located near the bottom of the SpaBerry and allow the water to be pulled from the SpaBerry and sent to the pump for re-circulation.

Weir Skimmer

This device removes floating debris from the water surface. This device provides a water return path to the SpaBerry’s equipment and flow through the filter element. See Filter Cleaning for cleaning the filter.

Equipment Compartment

The equipment compartment contains the pump, heater, control box, and temperature regulator. See Operation for more information on these components.
Control Panel Operation

Control the functions of your spa using the topside Control Panel. Understand the following information before starting up the spa.

1. Display Window
   The Display Window shows the current status of the SpaBerry: its monitoring functions, self-diagnostics, or programming messages. By default this will show the SpaBerry’s water temperature.

2. FILTER Indicator Light
   This light glows when a filter cycle is in progress.

3. SET Indicator Light
   This light glows when you are changing any of the settings.

4. HEAT Indicator Light
   This light glows when the heater is on.

5. JETS Button
   Pushing the JETS Button once starts the pump on LOW speed. Pushing it a second time turns on HIGH speed. Pushing it a third time turns the pump off. If there is a need for heat the pump will remain on in low gear.

6. LIGHT Button
   Your SpaBerry is equipped with an LED main light. Pushing the Light Button once turns the LED on. Pushing it a second time turns the LED off. For more information about the programming functions of your LED, please consult the LED section of this manual.

7. TEMPERATURE Buttons
   Control the water temperature with the Up (+) and Down (-) Buttons. Push a button once to change the temperature by one degree, or hold it down to rapidly change it by many degrees. The temperature can be set no higher than 104 °F (40° C). After the desired temperature is set, the Display Window will revert to showing the actual water temperature. The SpaBerry will heat to the new Set Temperature automatically.

8. PROGRAM Button
   Push PROGRAM to begin the process of programming the SpaBerry functions. See the section on “Programming the SpaBerry Functions” for details.
Programming the SpaBerry Functions

Heat Modes (via the Program Button)

**Standard Mode:** maintains the desired temperature. Note that the last measured spa temperature displayed is current only when the pump has been running for at least 1 minute. “STD” will appear on the display momentarily when you switch into Standard Mode.

**Economy Mode:** heats the spa to the set temperature only during filter cycles. “ECN” will alternate with the temperature when the temperature is current. “ECN” will alternate with “- - -” when the temperature is not current.

Pressing “Jets” while in economy mode puts the spa in Standard-In-Economy-Mode, (“SE”) which operates the same as Standard Mode, then reverts to economy mode after 1 hour. During this time, pressing and releasing “Program” will revert the mode to Economy immediately.

**Sleep Mode:** heats the spa to within 20°F/11°C of the set temperature only during filter cycles. “SLP” will alternate with the temperature when the temperature is current. “SLP” will alternate with “- - -” when the temperature is not current.

The Program button is used to switch between Standard, Economy, and Sleep modes. Press and release “Program” to enter Mode Programming, press “Down” to cycle through to desired mode (LED display flashes until confirmed), then press “Program” to confirm selection.

Filter Cycles & °F vs. °C (via the Program Button)

The pump will run in low speed during filtration.

The first filter cycle (“day”) begins 6 minutes after the spa is powered on. The second filter cycle (“night”) begins 12 hours after the first one. Filter duration is programmable for 0.5-6.0 hours (“F0.5”-“F6.0”). The default filter duration is 2 hours.

The Program button is used to set filtration cycles. Hold down “Program” for at least 3 seconds. When Filter Duration appears, press “Down” or “Up” to select the filter duration. Press “Program” to select the number of filter cycles. The display will show “dn” (both “day” and “night” cycles); “d” (“day” cycle only); or “n” (“night” cycle only). Press “Down” or “Up” to adjust.

The Program button is also used to change between °F and °C. After filtration is set, press “Program” to select Fahrenheit (“F”) or Celsius (“C”). Press “Down” or “Up” to adjust. Press “Program” again to exit the programming mode.

The “Filter” LED indicator lights when either filter cycle is running.

**CAUTION:** Long and/or numerous filter cycles could cause overheating of the SpaBerry, especially in hot climates.

Control Panel Display Messages

The following messages may appear in the Display Window:

“- - -” – Temperature Unknown

After the pump has been running for 1 minute, the current water temperature will be displayed

“OHH or OHS” – Overheat Warning

DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. At 107°F/41.7°C, the spa should automatically reset. If spa does not reset, shut off the power to the spa and go to www.thespaberry.com and complete a service request form.
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**Dynamic L.E.D Light**
SpaBerry is equipped with a main LED light that controls the colors by pushing the light button on the keypad. To Operate Light Functions:

- Press **Light** key once and the first color pattern sequence will be displayed.
- To activate the next color pattern, press **Light** key again. Light will turn off, then press **Light** key within 3 seconds to activate the next color sequence.

The Color Pattern Sequences are:

- Fade (Blue-Green)
- Solid White
- Solid Pink
- Solid Purple
- Solid Blue
- Solid Dark Blue
- Solid Teal
- Solid Green
- Slow Fade
- Quick Fade
- Quick Change
- Fast Stobe

**Light Bulb replacement instructions from inside the SpaBerry**

1. Use front access light wrench to unscrew lens cover and remove LED.
2. Insert new LED in light socket until it holds firmly into position (use tab to insert).
3. Screw lens back in ensuring water-proof gasket is correctly positioned.

**Control Panel Display Messages cont.**

- **“SNA or SNB or SNS” – Sensor not working or out of balance**
  Reset power to spa, if problem persists go to [www.thespaberry.com](http://www.thespaberry.com) and complete a service request form.

- **“LF or HFL” – Low water flow in heater**
  Significant difference between heater sensors was detected. Check to ensure that the water level in the spa is 5” from the top and that the filter is clear and free of debris. All jets need to be in the open position and no air locked in pumps. If you are have adequate flow through the jets and the problem still persists, go to [www.thespaberry.com](http://www.thespaberry.com) and complete a service request form.

- **“DR or DRY” – Inadequate water in heater**
  If water level is normal, make sure all pumps have been primed. Press any button to reset. This message will reset within 15 minutes. If problem persists, go to [www.thespaberry.com](http://www.thespaberry.com) and complete a service request form.

- **“ICE” – Potential Freeze condition detected**
  No action is required. All equipment will activate regardless of the spa status. The equipment stays on for 4 minutes after the sensors detect that the spa water has risen to 45°F/7.2°C or higher. If problem persists, go to [www.thespaberry.com](http://www.thespaberry.com) and complete a service request form.

- **“Std, or Ecn or SE or SLP” – Heat Mode Messages**
  Reference “Programming the SpaBerry Functions” Section of this manual.

- **“PSt or CrC or CFE” – Error Message in software**
  Reset power to spa, if problem persists go to [www.thespaberry.com](http://www.thespaberry.com) and complete a service request form.
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Water Care for your SpaBerry

Water Start-Up Procedure
Never add any chemicals until all occupants are out of the water. Chemicals coming in contact with humans can cause skin or eye irritation.

All chemical dosages in this section are based on treating 100 gallons (379 liters) of water. To calculate the appropriate amount to use, multiply the dosage per 100 gallons by your spa’s capacity in gallons divided by 100. For example, to administer a 2 ounce per 100 gallons dose to a spa, multiply the 2 ounces by (375 gallons / 100), or 3.75, which equals 7.5 ounces.

One ounce (29.6 ml) is approximately equal to two tablespoons or six teaspoons.

Test Your Water
The procedures in this section must be followed anytime you drain or fill your SpaBerry, including when you first install your spa. Additionally, if your source water changes, you must test the new source in this manner before running the spa as the chemical makeup of the water may have changed.

Recording Test Results
Record your test results in this table for future reference. This table can then be used for future water changes or major refills without retesting – unless you move or something changes your local source water.

<table>
<thead>
<tr>
<th>SpaBerry Model</th>
<th>Volume of Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>SpaBerry 2.0</td>
<td>125 US Gallons/473 Litres</td>
</tr>
<tr>
<td>SpaBerry 3.0</td>
<td>125 US Gallons/473 Litres</td>
</tr>
<tr>
<td>SpaBerry 4.0</td>
<td>125 US Gallons/473 Litres</td>
</tr>
<tr>
<td>Tublicious by SpaBerry</td>
<td>132 US Gallons/500 Litres</td>
</tr>
<tr>
<td>MiBerry</td>
<td>78 US Gallons/295 Litres</td>
</tr>
<tr>
<td>MiBerry Edge</td>
<td>125 US Gallons/473 Litres</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Ideal</th>
<th>Your Water</th>
<th>Necessary Adjustments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium</td>
<td>200-400 ppm</td>
<td>_________ ppm</td>
<td>Add __________ of __________</td>
</tr>
<tr>
<td>TDS</td>
<td>300-2000 ppm</td>
<td>_______ ppm</td>
<td>Add __________ of table salt</td>
</tr>
<tr>
<td>Metals</td>
<td>0 ppm</td>
<td>_______</td>
<td>Add __________ of</td>
</tr>
</tbody>
</table>
Check Your Water

Total Alkalinity
Total Alkalinity (TA) is a measurement of the water’s ability to resist changes in pH. TA affects and buffers the pH of the water. If TA is above 120 ppm, pH becomes difficult to adjust. If TA is below 80 ppm, pH becomes unstable and is more difficult to keep in the ideal range. Proper TA levels also allow other chemicals to perform optimally.

pH Level
All bodies of water have a pH level, which is a measurement of the hydrogen ion concentration in the water. A pH reading of 7.0 is considered neutral; a lower reading is considered acidic and a higher reading is considered basic. Your spa’s pH level should be between 7.2 – 7.8.

How To Test Your Water
Test the Total Alkalinity (TA) and pH utilizing Spa Test Strips, which are available at www.thespaberry.com. Be sure to turn the jets off when testing. Follow the directions on the Test Strips container to ensure an accurate reading. TA should read between 80 - 120 ppm, and pH should read between 7.2 - 7.8.

Adjust Total Alkalinity first. When TA is in the proper range, adjust the pH. Finally, check and adjust the sanitizer level.

Total Alkalinity Control
Use the following guidelines if you need to make adjustments.
1. Total Alkalinity is above 120 ppm
   - Turn the jets off and then add 1 ounce (29.6 ml) of pH/Alkalinity Decreaser into the center of the water.
   - Wait 1 minute, then turn the jets on at high speed for at least 5 minutes.
   - Turn jets off and retest.
   - Repeat this procedure until the TA reads close to 80 ppm.

   NOTE: When Total Alkalinity is above 120 ppm the pH will change slower than the Total Alkalinity.

2. Total Alkalinity is below 80 ppm
   - Add 1 ounce (29.6 ml) of pH/Alkalinity Increaser with the jets turned on at high speed.
   - Continue running the jets at high speed for at least 5 minutes.
   - Turn the jets off and retest.
   - Repeat this procedure until the TA reads close to 80 ppm.

   NOTE: When Total Alkalinity is below 80 ppm the pH will change faster than the Total Alkalinity.
Check Your Water cont.

**pH Control**
High pH (above 7.8) can reduce sanitizer efficiency, cloud the water, promote scale formation on surfaces and equipment, and interfere with filter operations. When pH is too high, add pH/Alkalinity Decreaser. Low pH (below 7.2) is equally damaging and can cause equipment corrosion, irritating water and rapid sanitizer dissipation. When pH is too low, add pH/Alkalinity Increaser.

First, test and adjust Total Alkalinity per the instructions in the Total Alkalinity section. Test the pH level only after you have adjusted the Total Alkalinity. Use the following guidelines if you need to make adjustments.

- **pH above 7.8**
  - Add 1 ounce (29.6 ml) of pH/Alkalinity Decreaser with the jets turned to high speed.
  - Continue running jets on high for at least 5 minutes.
  - Turn the jets off and retest.
  - Repeat procedure until the pH reads between 7.2 – 7.8.

- **pH below 7.2**
  - Add 1 ounce (29.6 ml) of pH/Alkalinity Increaser with the jets turned to high speed.
  - Continue running jets on high for at least 5 minutes.
  - Turn jets off, retest and repeat procedure until the pH reads between 7.2 – 7.8.

**Water Testing**
We recommend testing your water before each use with a Spa Test Strip. These are available from at www.thespaberry.com.

**Total Alkalinity**
Total Alkalinity (TA) should be in the 80-120ppm range. If it is not in the acceptable range, refer to the Check Your Water section for details on bringing your TA back to normal.

**pH Control**
The acceptable range for pH is between 7.2 and 7.8. If it is not in the acceptable range, refer to the Check Your Water section for details on bringing your pH back to normal.

**Risk of Accidental Drowning.** Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use the SpaBerry unless they are supervised at all times.

**DANGER**

**Draining Your SpaBerry**
The SpaBerry is gravity-drained, without the need for a pump. To drain the spa, locate the hose bib, which is located in the equipment compartment. Remove the cap from the hose bib and screw a garden hose onto the hose bib, put the other end of the hose in a safe place for water run-off, and then turn the valve on the side of the hose bib ninety degrees to release the flow of water. Do not forget to close the valve again and replace the cap before re-filling the SpaBerry.
Filter Cleaning
Always turn off the power to the SpaBerry before cleaning the filter elements. Your SpaBerry is equipped with one top access filter cartridges. We recommend that you clean the filter every month as preventative maintenance.

Remember to power down the spa before removing the filter. To clean the skimmer filter cartridge, lift out center float of the skimmer assembly. Turn the top of the center float counterclockwise to access basket area. Rinse away any large debris. Next, remove the Filter cartridge by turning the cartridge counterclockwise. Then lift the filter out of its canister. Clean the cartridge with a high-pressure garden hose. Every other cleaning, soak the cartridges in cartridge cleaner, rinse it thoroughly, and reinstall. After cleaning, run the pump for a few minutes at high speed then return to the heating mode.

SpaBerry Surface Care

It is recommended that a “cheesecloth” rag, or other soft rag, is used to clean the entire shell surface with Water Line Cleaner or a similar product from your SpaBerry dealer. Or use ph/Alkalinity Increaser or a 50/50 solution of denatured alcohol and water. Be sure to thoroughly rinse the shell after cleaning. Do not use citrus-based cleaners on the shell surface.

SpaBerry Vinyl Covers

To maintain a “nearly original” appearance on your vinyl cover, it is recommended that a protectant with a high SPF (sun protection factor) is applied per instructions of the protectant.

Special Cold Weather Instructions

All SpaBerry’s are designed for year-round use. They are insulated for energy efficiency and to protect the plumbing and equipment when the system is operational. The system has a “Smart Winter” freeze protection mode to circulate water during freezing weather, assuming the system has electrical power and the proper water level. Therefore, keeping your system operational is your best defense against freeze damage.

However, if there are freezing conditions present and shutting down the SpaBerry for the winter is unavoidable, or where conditions may get too cold for the SpaBerry’s “Smart Winter” mode to prevent freezing, the SpaBerry should be winterized by a professional authorized service provider. Draining the SpaBerry will not prevent freeze damage, because small amounts of water in the plumbing can expand and damage the system.

Winterizing the SpaBerry is specifically not covered by the warranty. This is why only a professional should be allowed to winterize your SpaBerry if it becomes necessary.

The system is equipped with automatic freeze protection. However, a power outage can cause the equipment to freeze quickly. During freezing conditions, check the system frequently to ensure proper operation. Always check the system after any power failure to ensure that it is operational.
Owner’s Manual

Springtime Startup of a Winterized System

If the SpaBerry has been winterized, it is highly recommended that you contact an authorized service provider to restart it. The following is an outline of the procedures involved.

- Make sure o-rings for pumps are in place and undamaged.
- Make sure all the fittings that loosened are re-tightened.
- Replace all jet fittings, pump drain plugs, hose bib drains, and bleeder valves.
- Fill the system with water in the normal way.
- Turn the power back on.
- Run the jets on high speed for about 15 minutes.
- Drain the water.
- Put the filter(s) back in.
- Refill the system and treat chemically as one would after a normal water change.

For more information about Winterizing the system, or restarting a Winterized system, please go to www.thespaberry.com and complete a service request form.

During freezing conditions, check your SpaBerry frequently to ensure proper operation. Always check your SpaBerry after any power failure to ensure that it is operational.

Warranty Information

Register your new SpaBerry online at www.thespaberry.com at your convenience! Timely product registration will allow for enhanced communication and prompt service under the terms of your warranty, should the need arise. Registration is a requirement before any service can be authorized and/or performed.

ONE YEAR LIMITED WARRANTY

This warranty is available to the original purchaser only when purchased in the United States or Canada. The SpaBerry warranty is non-transferrable. SpaBerry is not to be used in commercial applications.

SpaBerry shell is warranted against cracks, blisters, delamination and waterloss through the shell (due to workmanship or manufacturing defects) for one year from the original date of delivery. A crack is defined as a break in the shell that goes all the way through the shell. Equipment, fittings and internal plumbing lines are warranted against leaking due to defects in materials or workmanship for one year from the original date of delivery. The SpaBerry cover is warranted for one year. No charge will be made for parts. All labor and service fees are the responsibility of the SpaBerry owner.

SpaBerry will repair or replace any component found to be defective under the terms and conditions of this warranty. SpaBerry reserves the right to substitute a 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. SpaBerry must authorize the return of all defective parts. Customer will bear all freight costs for parts or SpaBerrys returned for repair or replacement.

Spaberry entertainment system is warrantied against defects in material and workmanship for one year from the original date of delivery. Failure to maintain water chemistry and/or neglect in cleaning the stainless steel components could escalate the chemical attack on the stainless. Due to environmental conditions out of our control, we are unable to warranty discolorations or corrosion on stainless steel parts. The following items are not included in this warranty but are warranted to be free from defects in material or workmanship at the time of delivery to the original purchaser: SpaBerry filter, BerryPure, dirty filter, air locks, incorrect water chemistry, loose unions, pinched or misaligned gaskets, pump seals, closed jets and fuses.
EXCEPTIONS TO WARRANTY
The following items are specifically excluded from any warranty coverages:
SpaBerry is not liable for the following: removal and/or installation of the SpaBerry, the SpaBerry surface damage or discoloration, cosmetic scratches, gouges or crazing damage caused by: failure to follow procedures defined in the Owner’s Manual/Guides, improper or incorrect electrical hook-up, scratches and damage caused by normal use, improper installation or installing the SpaBerry on unstable surface, moving the SpaBerry, including, but not limited to use of a crane, use of sanitizers such as Tri-Chlor (tablets or sticks), calcium hypochlorite, sodium hypochlorite, and any chemical that may dissolve or remain undissolved on the SpaBerry shell, damage or staining caused by mineral or chemical content of the SpaBerry’s water. Avoid use of citrus-based cleaning solutions, they can cause shell crazing. SpaBerry does not assume any responsibility for incidental or consequential damages, use of SpaBerry in a non-residential application, acts of nature, accidents, or other causes beyond the control of SpaBerry. A SpaBerry, when empty of water and left in direct sunlight without the hot tub cover in place, are vulnerable to ultraviolet or solar damage. Temperatures generated by sunlight can become concentrated in the shell surface causing the shell material to delaminate. This occurrence is considered abuse and may result in surface blisters, bubbles, or large layer delamination. This occurrence is not covered under warranty. The SpaBerry cover must be kept on the SpaBerry while empty of water. All SpaBerry accessories including, but not limited to, SpaBerry’s “BerryWrap™” appliqués, BerryPure™. Accessories may be covered by other warranties. This warranty gives you specific legal rights and you may also have other rights which vary from state to state or province to province.

Troubleshooting Guide
Please go to www.thespaberry.com and complete a service request form.

Heating System

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Problem</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Does not heat</td>
<td>Temperature setting is too low</td>
<td>Turn up the thermostat</td>
</tr>
<tr>
<td></td>
<td>Dirty Filter</td>
<td>Clean the filter</td>
</tr>
<tr>
<td>Too Hot</td>
<td>Temperature setting is too high</td>
<td>Turn down the thermostat</td>
</tr>
<tr>
<td>Temperature erratic</td>
<td>Water Level</td>
<td>Fill hot tub to 5” from the top of the spa</td>
</tr>
</tbody>
</table>

Electrical System

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Problem</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will not turn on in any mode</td>
<td>No power</td>
<td>Check circuit breaker and/or GFCI</td>
</tr>
<tr>
<td>Turns on by itself</td>
<td>Normal automatic daily filtration cycle</td>
<td>No action required</td>
</tr>
<tr>
<td>Pump shuts down unexpectedly</td>
<td>Motor over-heated and automatic protective device has shut down pump</td>
<td>If pump will not restart when JETS button is pushed wait 1 hour and try again</td>
</tr>
<tr>
<td>while in use</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Water System

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Problem</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pulsating jets</td>
<td>Water level too low</td>
<td>Fill with water to 5” from top of spa</td>
</tr>
<tr>
<td>No Jet Action or action/flow is</td>
<td>Jets are turned off</td>
<td>Open jets by turning clockwise</td>
</tr>
<tr>
<td>low</td>
<td>Dirty Filter</td>
<td>Clean filter</td>
</tr>
<tr>
<td></td>
<td>Air Lock</td>
<td>Loosen pump union to allow air bleed</td>
</tr>
</tbody>
</table>