



# VITA *Spa*®

## OWNER'S MANUAL

VITA INTERNATIONAL  
2320 N.W. 147th Street Miami, Florida 33054

h e a l t h   a n d   r e l a x a t i o n   f o r   l i f e

# OWNER'S MANUAL

**VITA INTERNATIONAL**  
2320 N.W. 147th Street Miami, Florida 33054

## OWNER'S RECORD

DATE PURCHASED: \_\_\_\_\_

DATE INSTALLED: \_\_\_\_\_

DEALER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

\_\_\_\_\_

TELEPHONE: \_\_\_\_\_

\* SERIAL #: \_\_\_\_\_

MODEL #: \_\_\_\_\_

To contact our Technical Service Department, please write to Vita International, 2320 NW 147th Street, Miami, FL 33054 or call 305-908-8187, during normal business hours, Monday through Friday, 8:30 am to 5pm, EST. Please have Serial Number when calling.

\*The Serial Number is located along the base of the spa. Please verify that the serial number is noted on your dealer's purchase contract.

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## **Congratulations!**

Thank you for the purchase of your new VITA SPA. You are now the proud owner of one of the most comfortable and therapeutic spas in the world.

This Owner's Manual has been designed to familiarize you with your Vita Spa operations and general maintenance. We suggest that you take some time to carefully review it. Please keep this manual available for reference.

If you have any questions regarding your Vita Spa set-up, operations, or maintenance, please contact your Authorized Vita Spa Dealer.

Consumer satisfaction is important to us. We welcome your comments and suggestions. Please share them with us via telephone, letter, or E-mail us at [vitaspa@dmindustries.com](mailto:vitaspa@dmindustries.com).

Sincerely,

*Eric Dormoy,*

President

**DM Industries, Ltd.**

## **IMPORTANT SAFETY INSTRUCTIONS**

### **WHEN INSTALLING AND USING THIS ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:**

**WARNING** – To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

**DANGER – RISK OF ACCIDENTAL DROWNING.** Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children can not use the spa unless they are supervised at all times.

**A ground terminal** (pressure wire connector) is provided on the control box inside the unit to permit connection of a minimum No. 8 AWG (8.4 mm<sup>2</sup>) solid copper bonding conductor between this point and any metal equipment, metal water pipe, metal enclosures of electrical equipment, or conduit within five feet (1.5m) of the unit.

**DANGER** – To reduce the risk of injury to persons, DO NOT remove suction fittings. The suction fittings on this spa 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 spa 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.

**Install the spa** – so proper drainage is provided for the compartment containing electrical components.

**DANGER – RISK OF ELECTRICAL SHOCK** – Install at least 5 feet (1.5 m) from all metal surfaces. (A spa may be installed within 5 feet of a metal surface if each metal surface is permanently connected by a minimum No. 8 AWG (8.42 mm<sup>2</sup>) solid copper conductor attached to the wire connector on the terminal box that is provided for this purpose). National Electrical Code ANSI/NMFP A70-1993.

**DANGER – RISK OF ELECTRICAL SHOCK-** Do not permit any electrical appliances, such as a light, telephone, radio, or television within 5 feet (1.5 m) of the spa.

#### **WARNING – TO REDUCE THE RISK OF INJURY:**

- A.** The water in a spa should never exceed 40 degrees Celsius (104 degrees F). Water temperatures between 38 degrees C (100 F) and 40 degrees C (104 F) are considered safe for a healthy adult. Lower water temperatures are recommended for extended use (exceeding 10 minutes) and for young children.
- B.** 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 temperature to 38 degrees C (100 F).
- C.** Before entering a spa, the user should measure the water temperature with an accurate thermometer, since the tolerances of water temperature regulating devices vary.
- D.** The use of alcohol, drugs, or medication, before or during spa use, may lead to unconsciousness with the possibility of drowning.
- E.** Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulation system problems, or diabetes, should consult a physician before using a spa.
- F.** Persons using medication should consult a physician before using a spa since some medication may induce drowsiness, while other medication may affect heart rate, blood pressure and circulation.

## **SAVE THESE INSTRUCTIONS**

## **DO'S AND DON'TS**

- DO** — Make sure the spa is connected to a Ground Fault Circuit Interrupter (GFCI) protected circuit. This GFCI is required by the National Electrical Code (NEC) and must be installed by a licensed electrician. Test the GFCI monthly.
- DO** — Test the water with your hand before entering the spa to be sure it is comfortable.
- DO** — Remember that wet surfaces can be slippery. Take care when entering and exiting the spa. Only enter by way of the steps in the spa. Do not step on spa edges or filter lids.
- DO** — Use the thermal cover when the spa is not in use, empty or full.
- DO** — Take steps to prevent the intrusion of sand and dirt into the spa.
- DO** — Maintain proper water chemistry.
- DO** — Clean the filter cartridge weekly.
- DON'T** — Use the spa for long periods of time at temperatures over 104° F.
- DON'T** — Operate the spa without water. Turn the circuit breaker off before emptying the spa and while it is empty.
- DON'T** — Store chemicals in the spa's equipment compartment.
- DON'T** — Open the electrical box. There are no user serviceable parts inside.
- DON'T** — Operate the pump(s) on hi-speed for extended periods of time with the cover on. Extended hi-speed pump operation will cause a slow heat build-up due to water friction, which could trip the spa's hi-limit thermostat.

## **WARNINGS**

Prolonged immersion in water that is warmer than normal body temperature can result in a dangerous condition known as HYPERTHERMIA. The causes, symptoms, and effects of hyperthermia may be described as follows: Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6 degrees F. The symptoms of hyperthermia include dizziness, fainting, drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include (1) unawareness of impending hazard, (2) failure to perceive heat, (3) failure to recognize the need to exit the spa, (4) physical inability to exit the spa, (5) fetal damage in pregnant women, and (6) unconsciousness resulting in a danger of drowning.

**WARNING** — The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia in spas. Persons taking medications that induce drowsiness such as tranquilizers, antihistamines or anticoagulants should not use the spa. Pregnant women and persons with a medical history of heart disease, circulatory problems, diabetes or high blood pressure should consult their physician before using the spa.

Children are especially sensitive to hot water. At no time should children have unsupervised access to the spa. The use of elevated decking may encourage children to climb onto the thermal cover — **IT IS NOT DESIGNED AS A SAFETY OR CHILD RESISTANT COVER!**

Every Vita Spa comes with a thermal cover which is provided with locking straps. **Install the locks for your child's safety.**

## **INSTALLATION INSTRUCTIONS**

### **SITE SELECTION / PREPARATION:**

The spa must be installed on a structurally strong, solid and reasonably level surface. The majority of the weight of the spa is placed under the footwell area of the spa. This area must be firmly supported at all times. The site should allow for drainage away from the equipment compartment in which the electrical components are housed. Take into account the following when considering prospective sites.

Vita Spas have a loading capacity in the range of 57lbs/sq ft to 83 lbs/sq ft. Refer to your actual model for exact loading requirements at <http://www.vitaspa.com>

### **LOCAL CODES:**

There may be certain restrictions and/or requirements that are particular to your locality.

### **DELIVERY PASSAGEWAY:**

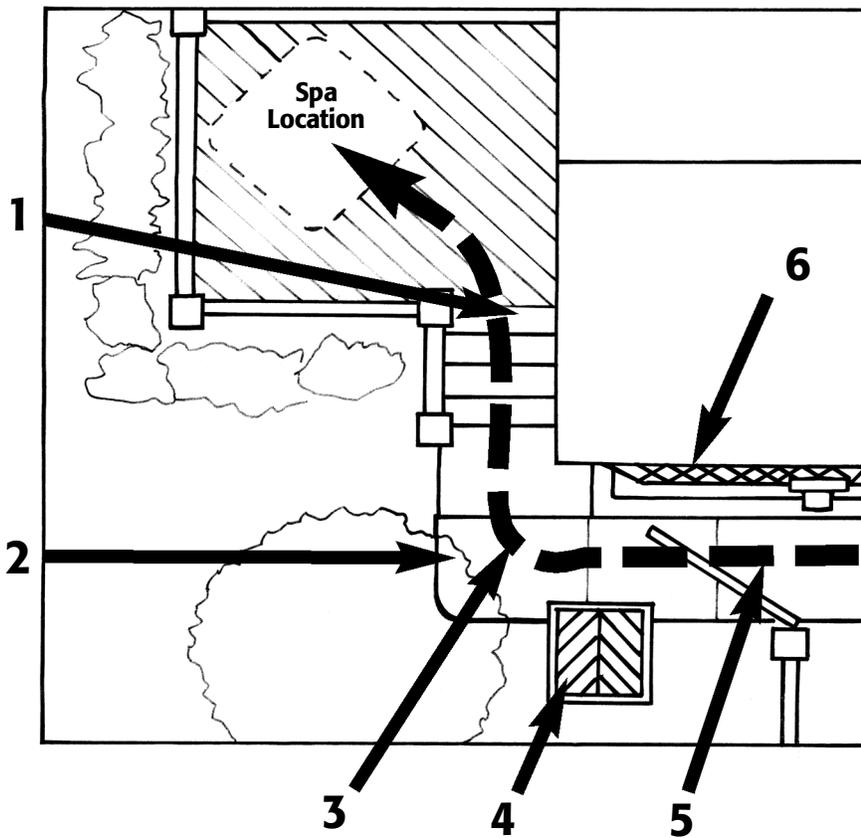
Doors, halls, stairs, etc. may pose obstructions to deliver the spa to its intended site.

### **MAINTENANCE:**

Trees, lawn, placement surfaces, etc. can create extra work in keeping your spa area clean and safe. Please be advised that placing your spa on dirt or grass may increase the amount of debris inadvertently brought into the spa water on the feet of users or by the wind. The intrusion of this debris into the spa water may cause harm to your equipment as well as the spa surface and is not covered under warranty.

### **PRIVACY AND WIND SHIELDING:**

A sheltered environment can result in lower operating and maintenance costs. You may also want to take into consideration your privacy during times of the year when trees may be barren, having the spa located where you have a view of a peaceful sunset, where you may be able to catch soothing breezes, or your view and the view of your neighbors may also be something that you should address prior to the final installation of your spa.



## CLEARANCES

CHECK THE FOLLOWING AREAS PRIOR TO SPA DELIVERY

1. STEPS - We suggest no more than six without a landing.
2. TREE BRANCHES - Clearance for spa passage.
3. TIGHT CORNERS - Make sure there is space to maneuver.
4. STORAGE SHEDS, DOG HOUSES, WOOD PILES - Remove out of the way.
5. GATES: CLEARANCE FOR PASSAGE OF SPA - Does gate need to be removed from hinges?
6. OVERHANGS AND GUTTERS - Anything overhead, as well as drain pipe locations, must allow for spa passage.

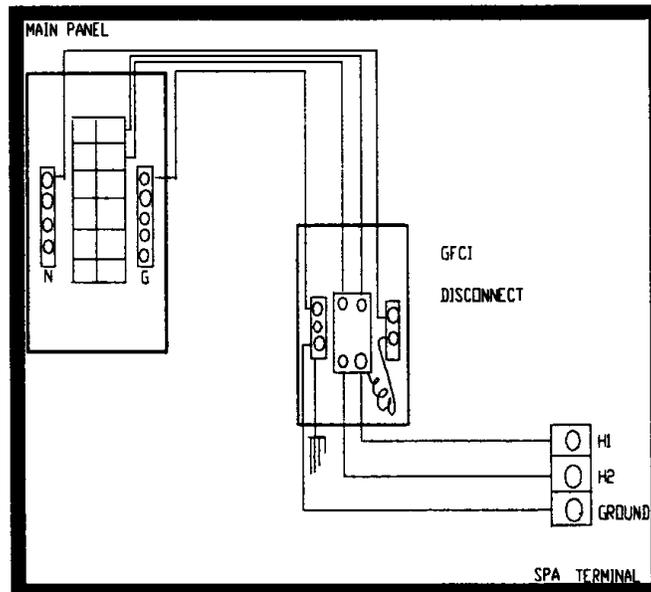
## **ELECTRICAL REQUIREMENTS AND INSTALLATION**

### **WIRE YOUR SPA PER ONE OF THE DIAGRAMS MOST SIMILAR TO YOUR HOUSE PANEL**

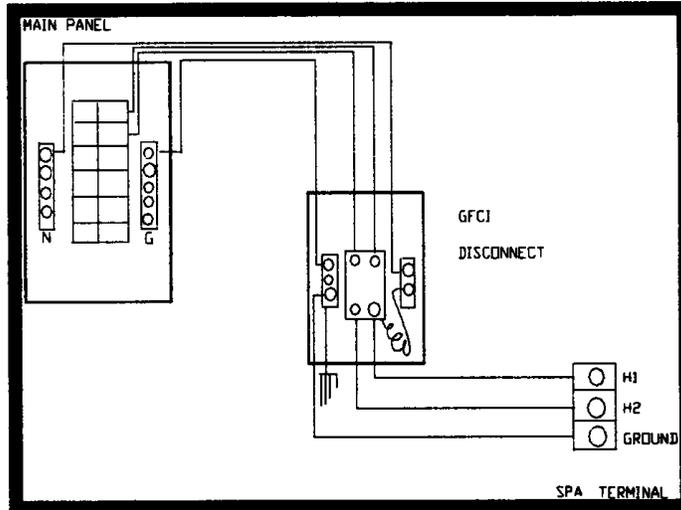
ALL WIRES FEEDING THE SPA ARE TO BE THE SAME GAUGE. GROUND WIRES ARE TO BE INSULATED AS WELL. WHEN USING A GROUND ROD, THE GROUND WIRE TO THE ROD SHOULD BE #6 BARE COPPER.

ALL SPAS REQUIRE THE USE OF AN ISOLATED GFCI PROTECTED CIRCUIT. THE INSTALLATION OF A DISCONNECT IS REQUIRED NO MORE THAN TEN (10) VISUAL FEET FROM THE SPA AND NOT LESS THAN FIVE (5) FEET.

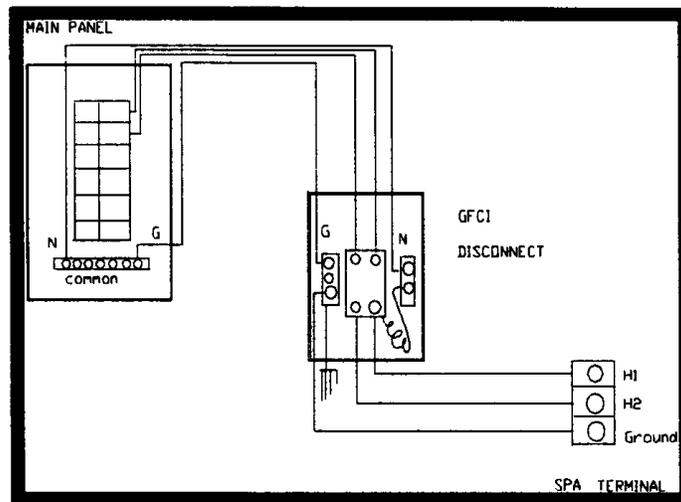
THIS REQUIREMENT IS TO ASSURE THAT WHEN POWER IS DISCONNECTED FROM THE SPA, POWER CAN NOT BE INADVERTENTLY TURNED BACK ON.



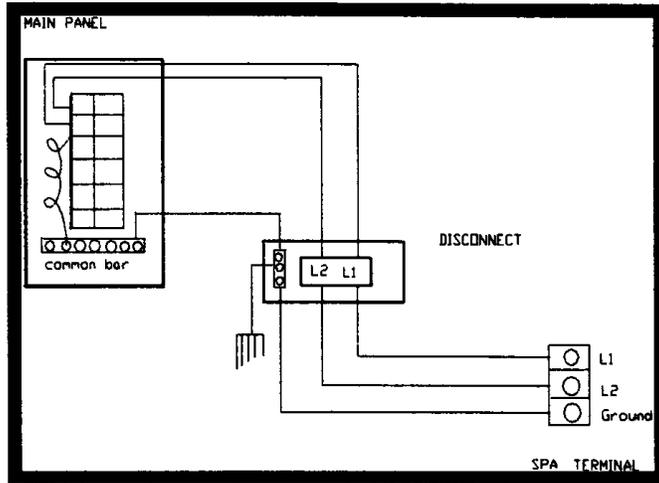
### **SEPARATE NEUTRAL & SOLID GROUND**



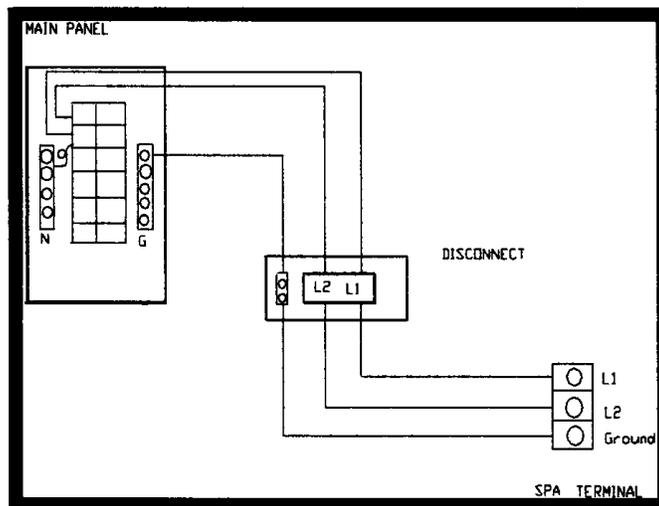
**SEPARATE NEUTRAL & WEAK  
GROUND OR ROMEX WIRE USED TO  
FEED GFCI WITH UNDERSIZED  
GROUND WIRE**



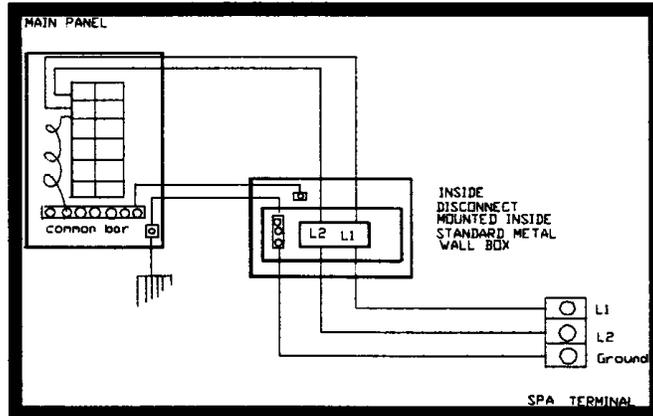
**COMMON NEUTRAL GROUND BAR  
IN MAIN**



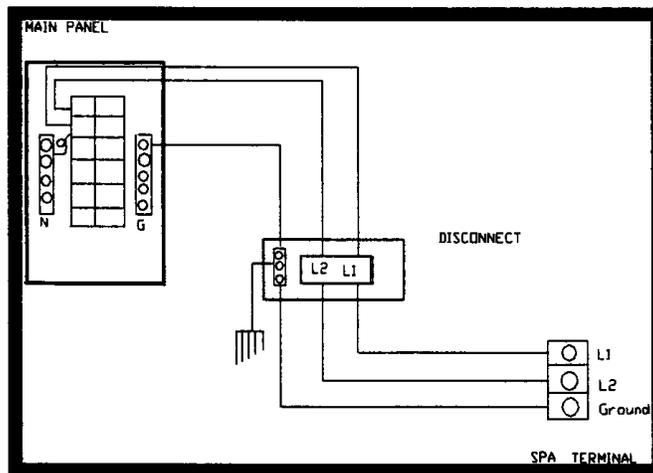
**GFCI IN PANEL WITH COMMON NEUTRAL BAR AND/OR ROMEX WITH UNDERSIZED WIRE USED TO FEED DISCONNECT.**



**GFCI IN PANEL WITH SEPA RATE NEUTRAL AND SOLID GROUND TO PANEL**



**GFCI MOUNTED IN PANEL AND DISCONNECT MOUNTED INSIDE TO COMMON WALL WITH METAL STUDS OR WITH METAL MOUNTING BOX.**

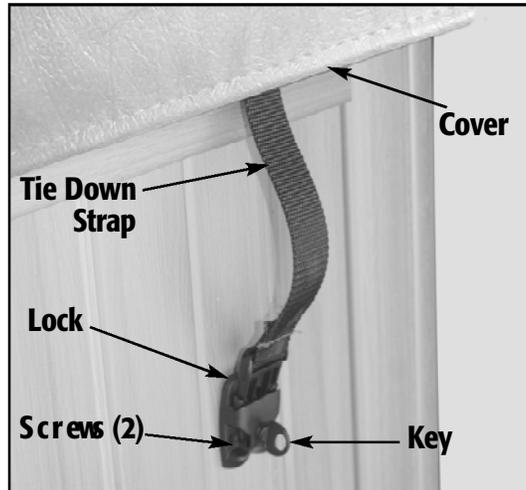


**GFCI IN PANEL WITH WEAK GROUND OR ROMEX WITH UNDERSIZED GROUND WIRE USED TO FEED DISCONNECT**

**ALL WIRING TO THE SPA SHOULD BE IN ACCORDANCE WITH ALL LOCAL AND NATIONAL ELECTRICAL CODES. ALL WIRING SHOULD BE PERFORMED BY A LICENSED ELECTRICIAN KNOWLEDGEABLE IN THE OPERATION AND WIRING OF A GFCI PROTECTED SYSTEM.**

1. The spa must be permanently connected (hardwired) to the power supply. No extension cords or plug-type connections are to be used in conjunction with the operation of the spa. Failure to supply power to the spa that is not in accordance with these instructions could create a potential health hazard and will void both the manufacturer's warranty and the independent testing agency listing.
2. **The National Electrical Code (NEC) requires that the power supply to this spa must be a dedicated, ground fault circuit (GFCI) protected circuit with no other appliances or lights sharing power on this circuit.**
3. Refer to the wiring diagram posted inside the electrical equipment door to determine the current, voltage, and wire size requirements for your spa.
4. THHN type wire is recommended. The wire size for the distance of the wire run must conform to NEC and local electrical codes.
5. To ensure proper connections use copper conductors only.  
**DO NOT USE ALUMINUM WIRE.**
6. The spas' power terminal strip is located within the electrical control box.
7. **Feed supply conductors through power supply inlets provided on the spa and install into the control box. Modifications to the electrical equipment box are not permitted. Drilling holes in the electrical control box to provide access for wires in areas other than those provided for will void the manufacturer's warranty and the independent testing agency listing.**
8. Connect wires to terminal block (TBI) color for color. All wires must be connected or damage may result. **TIGHTEN SECURELY!**

## **COVER INSTALLATION**



### **INSTALLING THE SPA COVER**

1. Position the cover squarely over the spa.
2. Position the locks for the tie-downs on the sides of the spa. You should allow approximately 1/2" to 3/4" slack in the straps for ease of insertion into the locks and to allow for material shrinkage during temperature changes.
3. Using the screws provided, attach the locks and insert the cover tie-down straps. Utilizing the cover anytime the spa is not in use will reduce heat loss and thereby reduce the amount of running time required to make up that loss by the heating system.

Keep cover fastened down at all times when not in use.

### **DANGER - RISK OF INJURY**

To reduce the risk of potential injury:

1. **Never leave a spa uncovered or unattended.**
2. **Never leave a spa cover unlocked.**
3. **Do not stand, sit, or lie on the cover.**

**ALWAYS REMOVE SNOW FROM THE COVER. THE COVER HAS NOT BEEN DESIGNED TO SUSPEND THE WEIGHT OF WET SNOW.**

# L100



(L)



(L)



(K)



(G)



(F)



(J)



(E)



(H)



(G)

*[Jet operations on page 31-32]*

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## OPERATING INSTRUCTIONS

**NOTE:** For best results, read each step carefully and entirely before proceeding to the next.

### FILLING YOUR SPA

Wipe the interior of the spa with a damp, soft cloth to remove any residue that may be on the surface. Fill with a garden hose by inserting the nozzle of the hose in the filter inlet. (After filling is complete, remember to put the filter cartridge in place prior to starting the spa.) As the spa is filling, check in the equipment access area for any leaks. On occasion, it may be necessary to hand tighten a union fitting that may have come loose during transit. Also check that the gate valves are pulled out to the open position and that the hose bib is closed. Continue to fill to the water line.

**WATER LINE** \_\_\_\_\_

**NOTE:** If your water is extremely hard, it is preferable to fill the spa halfway with hard water and the rest with softened water. Never fill the spa entirely with softened water.

### INITIAL START UP

Your spa has been programmed for your convenience. Once properly connected, the pump and heater will automatically come on, heat the spa to 102 F. Initial temperature, day, and time can be set and changed by following these instructions.

### A. SETTING TEMPERATURE:

1. Press **"PROG"** to display water temperature.
2. Press **"UP"** or **"DOWN"** arrows to choose the desired temperature. Notice the heater icon flashing.
3. Wait 30 seconds or press any function buttons (**"Jet"** or **"Light"**) to exit the programming mode.

### "F" FAHRENHEIT OR "C" CELSIUS DEGREES

Your spa has been preset to show the temperature in Fahrenheit "F" degrees. If you desire, you can change to Celsius "C" degrees by entering the temp set routine (Display temperature and then touch the up or down arrow). Then while the numbers are flashing, hold the light button for 10 sec. When the "F" or "C" appears, use the "PROG" button to toggle. To exit this procedure, wait 30 seconds or press any button.

### B. AUTO HEAT AND ECONOMY MODE (NOT AVAILABLE ON MODELS WITH OPTIONAL CIRCULATION PUMP)

Spas that do not have the optional circulation pump have been designed to operate in two heater control modes: **AUTO HEAT ("AH")** and **ECONOMY ("ECO")**. In the **AUTO HEAT** mode, the pump and heater will turn on whenever the water temperature falls 1 degree below the chosen temperature. Your spa has been preset to start upon activation in the **AUTO HEAT** mode. The spa water will be automatically heated to the temperature you choose or to the preset temperature of 102 F.

In the **ECONOMY** mode, the pump and heater will only come on during programmed hours. (See "Setting Filtration Hours"). Note that, if at the end of filtration cycle the water is not at the chosen temperature, the pump and heater will not continue to run until that temperature is reached. This mode is used for energy conservation, the same way you would control your heat or air conditioning in your house. The clock icon will be displayed when in **ECONOMY** mode.

To switch to the **ECONOMY** mode:

1. Press and hold the **"PROG"** button for 5 seconds to enter the programming mode. **"AH"** will flash on the display.
2. Press **"UP"** or **"DOWN"** button to change between **ECONOMY (ECO)** and **AUTO HEAT (AH)**. Observe the clock icon when in **ECONOMY** mode.
3. Wait 30 seconds or press **"Light"** button to exit the programming mode.

#### **C. SETTING CURRENT TIME**

1. Press and hold the **"PROG"** button for 5 seconds to enter the programming mode. **"AH"** will flash on the display. If you are already in the programming mode, go to step 2 directly.
2. Press **"PROG"** one more time to show the Hour. Observe the flashing clock icon and PM indicator. No indicator means AM.
3. Press **"UP"** or **"DOWN"** to select the current hour.
4. Press **"PROG"** one more time to show the minutes.
5. Press **"UP"** or **"DOWN"** to select the current minute.
6. Wait 30 seconds or press the **"Light"** button to exit the programming mode.

#### **D. SETTING FILTRATION CYCLES**

Filtration cycles have been preset at the factory from 8 AM to 10 AM and from 4PM to 6 PM. They can be changed as follows.

1. Press and hold the **"PROG"** button for 5 seconds to enter the programming mode. **"AH"** will flash on the display. If you are already in the programming mode, go directly to step 2.
2. Press **"PROG"** three times to show the filter cycle schedule. Notice the flashing filter icon.
3. Press **"UP"** and **"DOWN"** to change the hour.
4. Press **"JET"** button to change the filter from **"-"** (Off) to **"F"** (ON) or vice versa.
5. Wait 30 seconds or press the **"Light"** button to exit the programming mode.

### **USING YOUR SPA**

#### **A. DISPLAYING TIME OR TEMPERATURE**

Pressing the **"PROG"** button will switch the display between current time and current water temperature.

#### **B. WATER JET THERAPY**

Your spa is equipped with one or two therapy pumps that can be activated as follows.

Jet Button:

##### **SINGLE PUMP SYSTEM**

1. Press **"JET"** to activate the Relaxation Therapy mode.
2. Press **"JET"** to activate the Power Therapy mode.
3. Press **"JET"** to turn pump off

##### **DUAL PUMP SYSTEM**

1. Press **"JET"** to activate the Relaxation Therapy mode.
2. Press **"JET"** to activate pump #1 Power Therapy mode.
3. Press **"JET"** to activate pump #2 Power Therapy mode.
4. Press **"JET"** to de-activate pump #1.
5. Press **"JET"** to de-activate pump #2.

Note that for safety, all jet modes will automatically turn off after 30 minutes. Reactivate any therapy mode as indicated above.

## **SPECIAL FEATURES**

### **C. TURNING ON THE LIGHT**

Your spa is equipped with an underwater light. Press the light button to activate and de-activate the light. If left on, the light will automatically turn itself off after 3 hours.

### **B. MEMORY**

All settings that are entered into your spa controller will be permanently retained in its solid-state memory. In the event of a power failure, the time will be captured and held until power returns. All settings existing at the time of the power failure will be restored when power returns.

### **C. SYSTEM RESET**

Anytime there is reason to believe that your spa electronic system is not operating properly, perhaps as a result of lightning or other interference, like your PC at home, your spa system can be simply reset by holding down the **"DOWN"** arrow button for 5 seconds while in the time display mode. The system will be reset, maintaining all the settings you had in memory.

### **D. PANEL LOCK**

The spa panel can be locked to keep children or others from using any of the spa functions. To deactivate all buttons, make sure **"Time"** is displayed. Use **"PROG"** button to change to "Time" display if needed. Then hold the **"UP"** arrow button for 5 seconds. Notice the flashing lock icon. The panel is locked. To unlock the panel, hold the **"UP"** arrow button for 5 seconds again. The flashing lock icon will disappear and all spa functions will be accessible.

### **E. FREEZE PROTECTION**

If temperature in the spa plumbing falls below 50 degrees Fahrenheit (10 degrees Celsius) the water pump(s) will turn on soft-mode and run for at least one minute. The display will show "ICE". After one

minute, if the water is still below 50 degrees F (10 degrees Celsius), the heater will turn on and raise the water temperature 10 degrees F.

### **F. FLOW PROTECTION**

If the flow of water through the heater is insufficient, the spa controller will automatically turn the heater off to prevent overheating. The display will show "FLO", indicating a flow restriction caused by a clogged filter, shut gate valves or by a malfunction in the pressure switch. Call for service if you cannot pinpoint the cause.

### **G. OVERHEAT PROTECTION**

If the water temperature inside the spa plumbing reaches 112 F, the display will show **"HILI"** (High Limit), the heater will be disabled, and the pumps will be turned on low speed. If the water temperature continues to rise and reaches 115 F due to friction in the pumps and plumbing system, the entire system including all pumps will be disabled. In **"HILI"** condition, DO NOT ENTER THE WATER. Remove the cover and allow the water temperature to cool down to 104 F. Then, reset the system by holding down the "PROG" button for 5 seconds while in time display mode. If the **"HILI"** message returns, call for service.

### **H. ADD START UP CHEMICALS**

Carefully follow the directions and add the start-up chemicals recommended to you by your dealer. Contact your dealer to clarify any questions you may have.

Your spa comes ready for the Vita exclusive **"Sparkle Clear"** natural mineral purification cartridges. Combined with an ozonator, "Sparkle Clear" will aid in reducing the need for Bromine or other chlorine sanitizers. Sparkle Clear and ozone will make your spa look cleaner, smell cleaner, feel softer and eliminate skin or eye irritation. Ask your dealer about Vita Spa's "Sparkle Clear" sanitizing alternative.

## I. DIAGNOSTIC

When in temperature set mode (  Heat Icon Flashing ), then slowly press the **"PROG"** button three times. When the screen reads P=2 or P=1 press the **"PROG"** button once again.

S=3 Indicates that the heater will stay on when the pumps are on at anytime. High or Low speed.

S=2 Indicates that the heater will shut off if either of the large pumps are turned on high speed

S=1 Indicates that the heater will only run when the primary pump is on low speed. Since the heater is associated with the HEET pump system, the primary pump does not need to be on for the heater to operate. Yet in an effort to control the amperage draw and conserve electricity, the heater will run if the primary pump is turned onto low speed but then shut off while the primary pump goes to high speed or if the secondary pump is turned on high. Once the power level has been set, this does not have to be set each time. It will be entered into the system memory.

Press the **"PROG"** button once again. The diagnostic test will commence and run for the next three and a half minutes. Anytime during the first minute of testing, you can stop the test by pressing the **"PROG"** button once.

Upon completion of the test, if everything is operating correctly, the message GOOD will be displayed for 30 seconds.

## OPTIONAL FEATURES

### A. CIRCULATION PUMP (OPTION)

#### SETTING CIRCULATION PUMP

You are given the choice between 12 forced hours of circulation or 24 forced hours, regardless of water temperature.

1. Press **"PROG"** until **"AH"** flashes
2. Press **"PROG"** 4 times **"C=12"** appears.
3. Press **"UP"** or **"DOWN"** buttons to change.
4. Press **"LIGHT"** button to clear or wait 30 seconds.

### B. SKIM-AWAY (ONLY AVAILABLE WITH OPTIONAL CIRCULATION PUMP)

Skim-Away is an automatic skimming action which takes place each day from 8am until 8:30am each morning and from 4pm until 4:30pm each afternoon. The primary and secondary pumps will activate in low speed mode. This will pull all surface oils and debris into the filter well cavity. This setting permits the skim-away feature to operate for 30 minutes each morning and afternoon for a total of 1 hour each day.

1. Press and hold **"PROG"** until **"AH"** flashes.
2. Press **"PROG"** three times to show **"SA=1"** which is the factory setting.
3. Pressing the **"UP"** or **"DOWN"** arrows, you can change the skim-away time to 2, 4, or 6 hours each day.

The total selected time will be split between morning and afternoon.

#### Econo Package / LC Upgrade:

Your spa has been full foamed at the time it was manufactured and is equipped with a circulation pump. After the first twelve hours of operation each day, as a protection against overheating, the pump will turn off if the water temperature exceeds the desired temperature. The pump will come back on when the water temperature falls 1 degree Fahrenheit under the desired temperature. This will then activate the heater.

## **OPTIONAL FEATURES**

### **C. AIR INJECTION THERAPY AIR BUTTON**

This option equips your spa with an air therapy blower. Press the "AUX" to activate and de-activate the air therapy blower. For safety, the blower will automatically turn itself off after 30 minutes.

#### **AUTOMATIC BLOWER AND JET PURGE**

Once each day, at 10 AM the jet pump(s) will automatically run for one minute to circulate potential stale water in the piping. This is a normal function of the spa. The display will show "BJ2P" while this takes place.

### **D. FRESH WATER MISTERS**

#### **Connection**

Connect garden hose or supplied adapter and Poly Hose kit from fresh water source to spa "Inlet"

#### **Activation**

Turn on water source.

To activate misters, open valve located within spa filtration compartment or top of spa depending on model. Spa does not need to be operating to operate misters.

#### **Maintenance**

Periodically Flush or replace in line filter. Located inside panel (same side as water source inlet). See your dealer for availability or replacement

If Mister heads become clogged unscrew (counterclockwise) and clean using a small probe such as a needle

Discoloring of the mister heads may occur if local water supply has iron content. Cleansing the heads with a stainless steel brush or a chemical cleanser. Make sure not to allow overspray onto the acrylic surface of the spa or into the spa water.

## E. VITA TUNES

### Country Code Setting

Advance the programming sequence to the minute set position.

Hold down the **"PROG"** for 5 seconds and observe that the screen shows CO=X (where X is either U for USA, E for Europe, or J for Japan)

Use the **"UP"** or **"DOWN"** buttons to change the country, as required

### Stereo Access and Volume Control

To access the stereo, press **"UP"** and **"DOWN"** buttons on the spa control pad simultaneously. The stereo will turn on, and you will automatically be taken to the volume control.

Your volume range is L0 through L8 (L=00 equal off and L=08 is the loudest).

To adjust the volume level press **"UP"** or **"DOWN"** arrows.

### Bass

While in the volume mode, press **"PROG"**

Bass range is B00 through B08

### Frequency Source

From Bass Mode, press **"PROG"** to select source.

S=A equals A.M., S=F equals F.M., S=L equals line input.

After source is selected, press **"PROG"** to exit selection or use **"UP"** or **"DOWN"** keys to scan stations.

In S=L you can connect optional Vita CD player, or any other personal stereo device, such as a walkman or MP3.

The **"PROG"** button can be pressed to escape the stereo mode.

## F. DIGI-CHROMIUM (Optional)

The Digi-Chromium option is activated by pressing the Light button on the spa side control.

To program the lights, press and hold the Light button for 5 seconds.

Once the display reads L=XX, release the button.

Using the arrow buttons, you may select the different settings.

Review each setting to determine which is best suited for you. The selection may be changed at any time by repeating the previous steps.

L=00 Off

L=01 Diamond

L=02 Blue

L=03 Green

L=04 Red

L=05 Strobe effect Red/Green/Blue

L=06 Gradual change Red/Green/Blue

L=07 - 10 Combination Colors

L=11 - 20 Reduce Intensity 50%

L=21 - 20 Reduce Intensity 75%

The lighting system will automatically turn itself off after three (3) hours.



## LIMITED WARRANTY for L-100 SERIES WARRANTY COVERAGE

VITA International extends this limited warranty solely to the original Purchaser of any L-100 Series Vita Spa self-contained spa installed within the United States or Canada.

### 25 YEAR STRUCTURAL

**SPA SHELL:** Vita International warrants its shells against loss of water due to defects in materials and workmanship for twenty-five (25) years from the original date of purchase.

### 7 YEARS SURFACE

The acrylic surface is warranted against blistering, cracking and chipping resulting from a defect in the acrylic surface material for a period of seven (7) years from the original date of purchase.

### 3 YEAR COMPONENT WARRANTY

Vita International warrants all factory installed electrical components—pumps, blowers, heater and control system—and plumbing components—jets, air injectors, glued joints, pipes and hoses—to be free from defects in materials and workmanship for a period of three (3) years from the original date of purchase. Factory installed options, covers and ozonators are warranted as noted below.

\*Covers, as supplied by Vita Spa, are warranted to be free from manufacturing defects for a period of one (1) year.

\*Ozonators, installed at the time of manufacture, are warranted to be free from manufacturing defects for a period of one (1) year.

\*Digi-Chromium lighting systems, installed at the time of manufacture, shall be warranted to be free of any manufacturing defects for one (1) year.

\*Stereo systems, installed at the time of manufacture, are warranted to be free of manufacturing defects for a period of one (1) year.

\*Fresh Water Mister Systems, installed at the time of manufacture, are warranted to be free of manufacturing defects for a period of (1) year.

The cabinetry is warranted to maintain its structural integrity for a period of two (2) years from the original date of purchase. Wood staining and normal weathering of the surface of wood panels is excluded from coverage

\*There will be no charge for in-home service labor on factory installed options during the first 90 days.

Dealer added options are excluded from this warranty and are covered under separate warranties from their respective manufacturers. No Labor Warranty.

Wearable components such as filter cartridges, light bulbs, fuses, and headrests, are not covered under this warranty but are warranted to be free from defects in material and workmanship at the time of the original delivery.

### "NO BLAME" HEATER ELEMENT

The element in your L-100 Spa is protected by a special isolation coating that takes the worry out of maintaining water chemistry (pH). Please Note: Whereas Vita's "No Blame" element gives added protection against corrosion, improperly balanced (pH) may effect other components of the spa, or may cause harmful skin irritation. Preventive maintenance is suggested.

### WARRANTY PERFORMANCE

In the event of a defect covered by this warranty, notify your VITA SPA dealer within 10 days of the time the defect is discovered. Upon proof of purchase by dated purchase receipt, Vita

International or its authorized representative will correct the defect within the terms and conditions contained in this warranty. There will be no charge for in-home service labor during the first three years. You may be assessed reasonable repairperson travel charges. Vita International, at its sole option, may elect to substitute a spa or component of equal value, either new or reconditioned, to correct a defect. Such replacement shall assume, as its warranty, the remaining portion of the warranty on the original product. If the entire spa needs to be substituted because the repair is not feasible or the repair can not be performed in the field, reasonable costs to pick up the defective spa and return it or delivering and installing the replacement spa will be the responsibility of the spa owner.

### EXCLUSIONS

This warranty is void if Vita International or its representative determines that the spa has been subjected to any alterations or repairs by anyone other than an authorized representative of Vita International. Vita Spa's are not approved for commercial applications. Vita International will not be responsible for the cost of replacement parts or labor cost of any spa found to be used in a commercial application. This warranty shall also be voided if there is evidence that the spa has been subjected to misuses, abuses, negligence, improper installation or operations other than in accordance with the instructions in the owner's manual, including but not limited to damage to components caused by improper pH balance or other improper water chemistry maintenance, (use of chlorine based products other than dichlorine voids all warranties,) or by failure to maintain and clean the filtration system; damage to components or spa surface caused by operating the spa at water temperatures outside the range of 32 degrees F (freezing) and 120 degrees F (excessive heat); damage to the surface caused by leaving the spa uncovered while empty of water and in direct exposure to sunlight; damage caused by improper or incorrect electrical hook-up, modifications to internal electrical assembly boxes and grounding system, by electrical installations done by anyone other than licensed professionals in non-conformity with state and local codes or by power surges or spikes; or damage caused by Acts of God or conditions beyond the control of Vita International.

### DISCLAIMER

Except as expressly provided, there shall be no other warranty or obligation, expressed or implied, oral or statutory. No dealer or other person has the authority to make any warranties or representations covering Vita International or its products. Vita International and its representatives shall not be liable for any injury, loss, cost or other damage, including but not limited to, loss of use, inconvenience, costs of removal of a permanent deck, custom fixture, or any other incidental or consequential costs, expenses or damages. Under no circumstances shall Vita International or any of its representatives be held liable for injury to any person or damage to any property, however arising. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights, which vary, from state to state.

### CUSTOMER SERVICE

Contact your dealer or local authorized repair center for service. If you do not know who your local representative is, contact Vita International's Technical Service Division at the address listed below, or call (305) 685-2063.

This warranty is effective for spas manufactured after January 1, 2005.

Vita International  
Manufactured by DM Industries, Ltd.  
2 3 2 0 N W 1 4 7 t h S t r e e t ,  
M i a m i , F l o r i d a 3 3 0 5 4

# L700C



(F)



(J)



(C)



(B)



(A)



(K)



(G)



(G)



(E)



(H)



(I)

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## OPERATING INSTRUCTIONS

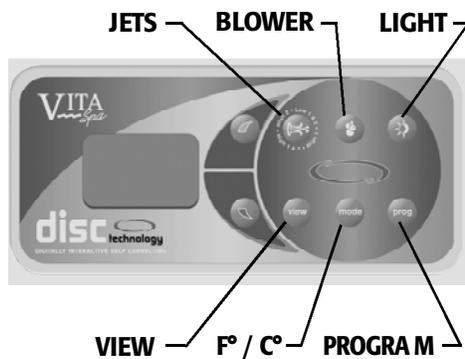
**NOTE:** For best results, read each step carefully and entirely before proceeding to the next.

### FILLING YOUR SPA

Wipe the interior of the spa with a damp, soft cloth to remove any residue that may be on the surface. Fill with a garden hose by inserting the nozzle of the hose in the filter inlet. (After filling is complete, remember to put the filter cartridge in place prior to starting the spa.) As the spa is filling, check in the equipment access area for any leaks. On occasion, it may be necessary to hand tighten a union fitting that may have come loose during transit. Also check that the gate valves are pulled out to the open position and that the hose bib is closed. Continue to fill to the water line.

**WATER LINE** \_\_\_\_\_

**NOTE:** If your water is extremely hard, it is preferable to fill the spa halfway with hard water and the rest with softened water. Never fill the spa entirely with softened water.



### INITIAL START UP

Your spa has been programmed for your convenience. Once properly connected, the H.E.E.T. circulation pump, heater and BiOzone water purification system will automatically come on, heat the spa to 102 F and introduce ozone 24 hours a day. Initial temperature, day, and time can be set and changed by following these instructions.

#### A. SETTING PERMANENT TEMPERATURE:

1. Press **"PROG"** to enter the programming mode. Notice the heater icon flashing.
2. Press **"UP"** or **"DOWN"** arrows to choose the desired temperature. **NOTE:** There is a procedure to choose a different temperature for each day of the week (See "Advanced Features—Heat Days").

#### B. SETTING CURRENT DAY:

1. Press **"VIEW"** to show the day of week. Notice the clock icon flashing.
2. Press **"UP"** or **"DOWN"** to select the current day. Choose 1 for Sunday, 2 for Monday, so on and so forth up to 7 for Saturday.

**NOTE:** To change current day directly, do step A1 & B1.

#### C. SETTING CURRENT TIME:

Press **"VIEW"** to show the Hour. Observe the PM indicator. No indicator means AM. Press **"UP"** or **"DOWN"** to select the current hour. Press **"VIEW"** to show the minutes. Press **"UP"** or **"DOWN"** to select the current minute. **NOTE:** To change current time at any time, press the **"PROG"** button and then press the **"VIEW"** button twice to display time.

#### RETURNING TO REGULAR DISPLAY:

Wait 30 seconds or press any button to exit the programming mode.

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## **USING YOUR SPA**

### **A. DISPLAYING TIME OR TEMPERATURE**

Pressing the **"VIEW"** button will switch the display between current time and current water temperature.

### **B. TEMPORARILY ADJUSTING TEMPERATURE**

If you like to temporarily change your water temperature setting, up or down, during any one day, you can do so for the current day by switching to the current temperature display (press **"VIEW"**) and by pressing the **"UP"** or **"DOWN"** arrows. The "adjusted" temperature will be in effect until midnight that day, at which point, the temperature setting will revert back to the original setting for that day. Notice the flashing heater icon while making this change.

### **C. WATER JET THERAPY**

Your spa is equipped with one or two 2-mode therapy pumps. The soft-mode (Low) provides soft Relaxation Therapy and the power-mode (High) provides vigorous Power Therapy.

#### **DUAL PUMP SYSTEMS:**

Press **"JET"** to activate the Relaxation Therapy mode. Both pumps will turn on to service every seat.

Press **"JET"** to activate the Power Therapy mode. Pump #1 will turn on.

Press **"JET"** to activate pump #2 in Power Therapy mode. Both pumps will be on.

Press **"JET"** to de-activate pump #1.

Pump #2 will remain in Power Therapy mode.

Press **"JET"** to de-activate pump #2. Both pumps will be off.

**Note that for safety, all jet modes will automatically turn off after 30 minutes. Re-activate any therapy mode as indicated above.**

### **D. AIR INJECTION/VITAROMA BUTTON**

Your spa is equipped with an air therapy pump. A touch of the pump button activates the power-mode for air bubble action and induction of air into the VitAroma (aromatherapy) system. Touching the blower button again will turn it off. For safety, the pump will automatically turn off after 30 minutes.

To reactivate, start sequence over.

### **E. TURNING ON THE LIGHT**

Your spa has an underwater light. A single touch of the Light button turns the light on. A second touch turns the light off. If left on, the light will automatically turn off after three (3) hours of continuous operation.

### **F. INVERTING DISPLAY**

The Selectron Plus display can be inverted to allow easier reading from inside the spa. To do so, first make sure **"TIME"** is displayed. Use **"VIEW"** button to change to **"TIME"** display if needed. Then press the **"DOWN"** arrow for approximately 10 seconds to invert the display. Follow the same procedure to revert the view back to its original position.

## SPECIAL FEATURES



### Factory Settings

#### A. AUTOMATIC BLOWER AND JET PURGE

Twice each day, at 10AM and 6PM, the blower and jet pump(s) will automatically run for one minute to circulate potential stale water in the piping. This is a normal function of the spa. "BJ2P" will be displayed while this takes place.

#### B. MEMORY

All settings that are entered into your spa controller will be permanently retained in its solid state memory. In the event of a power failure, the time will be captured and held until power returns. All settings existing at the time of the power failure will be restored when power returns.

#### C. FACTORY SETTINGS

To reset to factory settings, do as follows:

1. Turn off the power breaker to the spa for five minutes.
2. Turn breaker on
3. Hold down the "VIEW" button for 10 seconds. "12:00" will be displayed and all previous settings will be lost other than temperature "102°F". Time, day, and heat days will have to be programmed into the system.

#### D. PANEL LOCK

The Selectron Plus spa panel can be locked to keep children or others from using any of the spa functions. To deactivate all buttons, make sure "TIME" is displayed. Use "VIEW" button to change to "TIME" display if needed. Then hold the "UP" arrow button for 5 seconds. Notice the flashing lock icon. The panel is locked. To unlock the panel, hold the "UP"

arrow button for 5 seconds again. The flashing lock icon will disappear and all spa functions will be accessible.

#### E. HEATER LOCK

You may want to prevent anyone from changing the water temperature you have chosen, while still allowing the use of any of the spa functions. This can be accomplished from the "PANEL LOCK" position. Follow the "PANEL LOCK" procedures first and then, with the lock icon flashing, hold down the "DOWN" arrow for 5 seconds. The lock icon will be present but not flashing. All other spa functions will still operate. To unlock the "HEATER LOCK" and "PANEL LOCK" hold down the "UP" arrow button for 5 seconds. The lock icon will disappear and all spa functions, including temperature adjustment will be accessible.

#### F. FREEZE PROTECTION

If the temperature in the spa plumbing falls below 50° Fahrenheit (10° Celsius) the water pump(s) will turn on soft-mode and run for at least one minute. The display will show "ICE". After one minute, if the water is still below 50° F (10° Celsius), the heater will turn on and raise the water temperature 10° F.

#### G. FLOW PROTECTION

If the flow of water through the heater is insufficient, the spa controller will automatically turn the heater off to prevent overheating. Call for service if you cannot pinpoint the cause.

#### H. OVERHEAT PROTECTION

If the water temperature inside the spa reaches 112° F, the pumps and the heater will be disabled. If the water temperature continues to rise and reaches 118° F due to friction in the pumps and plumbing system, the entire system including all pumps will be disabled. In "HILI" condition, **DO NOT ENTER THE WATER!** Remove the cover and allow the water temperature to cool down to 104 degrees F. Then run diagnostic by pressing the "PROG" button 3 times. If the "HILI" message returns, call for service.

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## I. SELF – DIAGNOSTIC CONTROL

The topside control on your spa has the latest diagnostic control system in the spa industry. Anytime the topside control recognizes a conflict of entries by various outside influences in its software such as power fluctuations or contrary information being fed by the system sensors, it will start flashing the display.

You can initiate the diagnostic test by pressing **"PROG"** button three times. The display will initially show the software revision, then the Service Amperage Draw setting, the Pump setting, and then commence the diagnostic test which will run for three and a half minutes.

Anytime during the first minute of testing, you can stop the test by pressing the **"PROG"** button once and use the **"VIEW"** button to cycle through the programming mode.

Upon completion of the test, if everything is operating correctly, the message (→ ←) will be displayed until buttons are pushed after 15 seconds.

## J. H.E.E.T. PUMP

Each spa is equipped with Vita Spa's exclusive **High Efficiency Energy Transfer** pump. Similar to the principle of heat transfer pumps, the **H.E.E.T.** system transfers the heat generated by the circulation pump motor to the water 24 hours a day. After the first twelve hours of operation each day, as a protection against overheating, the **H.E.E.T.** pump will turn off if the water temperature exceeds the desired temperature. The 4kw-system heater will come back on when the water temperature falls 1 degree F° under the desired temperature.

You are also given the choice between 12 forced hours of circulation or 24 forced hours, regardless of water temperature.

1. Press **"PROG"** until heat icon flashes
2. Press **"VIEW"** 4 times "C=12" appears.
3. Press **"UP"** or **"DOWN"** buttons to change.
4. Press **"LIGHT"** button to clear or wait 30 seconds.

## K. SKIM-AWAY

Skim-Away is an automatic skimming action which takes place each day from 8am until 8:30am each morning and from 4pm until 4:30pm each afternoon. The primary and secondary pumps will activate in low speed mode. This will pull all surface oils and debris into the filter well cavity.

During the programming sequence, when "SA=1" is displayed, you may then adjust the Skim-A-Way feature. The display of "SA=1" is the factory setting. This setting permits the skim-away feature to operate for 30 minutes each morning and afternoon for a total of 1 hour each day. By pressing the **"UP"** or **"DOWN"** arrows, you can change the skim-away time to 2, 4, or 6 hours each day. The total selected time will be split between morning and afternoon.

**NOTE:** In climates of high heat or during the summer, it is not recommended to have the **"SKIM-AWAY"** cycle for more than 2 hours per day.

## "F" FAHRE NHEIT OR "C" CELSIUS DEGREES

Your spa has been preset to show the temperature in Fahrenheit **"F"** degrees. If you desire, you can change to Celsius **"C"** degrees by pressing the **"PROG"** button, and then holding down the **"MODE"** button for 10 seconds. **"F"** will appear in the display. Press the **"PROG"** button to switch back and forth between **"F"** and **"C"** mode. To exit this procedure, wait 30 seconds or press any button

## ADD START UP CHEMICAL

Carefully follow the directions and add the start-up chemicals recommended to you by your dealer. Contact your dealer to clarify any questions you may have.

## ADVANCED FEATURES

### A. SETTING THE SERVICE AMPERAGE DRAW

1. Press **"PROG"** to enter the programming mode. Notice the heater icon flashing.
2. Hold the **"JET"** button down for 10 seconds.
3. The display will show **"S=3"**. Use the **"UP"** or **"DOWN"** arrows to change the display.

**S=3** Indicates that the heater will stay on when the pumps are on at anytime. High or Low speed.

**S=2** Indicates that the heater will shut off if either of the large pumps are turned on high speed

**S=1** Indicates that the heater will only run when the primary pump is on low speed. Since the heater is associated with the HEET pump system, the primary pump does not need to be on for the heater to operate. Yet in an effort to control the amperage draw and conserve electricity, the heater will run if the primary pump is turned onto low speed but then shut off while the primary pump goes to high speed or if the secondary pump is turned on high. Once the power level has been set, this does not have to be set each time. It will be entered into the system memory.

#### NOTE: FOR UNITS WITH THE OPTIONAL 3rd PUMP FEATURE.

The third pump can be activated from either the topside control or the remote control. From the Topside control, one must press the **"LIGHT"** button twice to activate the third pump. The lights will remain on while the pump is in operation.

The third pump can also be activated from the remote control by pressing the **"LIGHT"** button twice or by pressing the **"JET 3"** button. By activating the pump with the **"JET 3"** button, the lights will not be turned on. Only when the **"LIGHT"** button is used to activate the pump will the lights be turned on. Either the **"LIGHT"** button or the **"JET 3"** button may be used to turn the pump off.

The Service Amperage Draw setting are not associated with the operation of the 3rd pump. Running the 3rd pump while the Service Amperage is in the S=2 or S=1 setting will not have any affect on the heater.

### B. HEAT DAYS

If your spa is located in a weekend home, or if your schedule allows utilization of the spa only on certain days of the week, you may decide for energy conservation reasons to lower the water temperature on the days you will not use the spa. To choose different temperatures for different days of the week:

1. Press the **"PROG"** button. The heater icon will start flashing. With the temperature showing and the heater icon

flashing, hold down the **"PROG"** button for 5 seconds and the current heat day (**hd=1,hd=2...etc.**) will appear.

2. Press the **"PROG"** button to advance to the next heat day or if you would like to change the temperature from the originally set temperature.

3. With the heat day showing, press the **"UP"** arrow button to display the set temperature for that day.

4. Then press the **"UP"** or **"DOWN"** arrow buttons to select the temperature for that day.

5. Repeat steps 2, 3, & 4 to select any other temperature for any other day. To exit procedure, wait 30 seconds or press any button except **"PROG"**, **"UP"** and **"DOWN"**.

**Example:** Let's assume that you have selected 100 degrees F as your desired temperature in the "Setting Permanent Temperature" procedure and Sunday as **"1."** You would now like to lower the water temperature to 80 degrees F on Mondays, Tuesdays, and Wednesdays.

Press **"PROG."**

Hold down **"PROG"** for 5 seconds.

Press **"PROG"** as many times as needed to display **"hd=2"** (Monday).

Press **"UP"** to display temperature.

Hold down **"DOWN"** button to lower temperature to 80 degrees F.

Repeat steps 2, 3, & 4 to do the same for Tuesday and Wednesday.

**Note that using the procedure outlined in "Setting Permanent Temperature" will reset all heat days to the same temperature.**

## OPTIONAL FEATURES

### A. VITA TUNES

#### Country Code Setting

Advance the programming sequence to the minute set position.

Hold down the **"PROG"** for 5 seconds and observe that the screen shows CO=X (where X is either U for USA, E for Europe, or J for Japan)

Use the **"UP"** or **"DOWN"** buttons to change the country, as required

#### Stereo Access and Volume Control

To access the stereo, press **"UP"** and **"DOWN"** buttons on the spa control pad simultaneously. The stereo will turn on, and you will automatically be taken to the volume control.

Your volume range is L0 through L8(L=00 equal off and L=08 is the loudest).

To adjust the volume level press **"UP"** or **"DOWN"** arrows.

#### Bass

While in the volume mode, press **"PROG"**

Bass range is B00 through B008

#### Frequency Source

From Bass Mode, press **"PROG"** to select source.

S=A equals A.M., S=F equals F.M., S=L equals line input.

After source is selected, press **"PROG"** to exit selection or use **"UP"** or **"DOWN"** keys to scan stations.

In S=L you can connect optional Vita CD player, or any other personal stereo device, such as a walkman or MP3.

The **"VIEW"** button can be pressed to escape the stereo mode.

### B. FRESH WATER MISTERS

#### Connection

Connect garden hose or supplied adapter and Poly Hose kit from fresh water source to spa "Inlet"

#### Activation

Turn on water source.

To activate misters, open valve located within spa filtration compartment. Spa does not need to be operating to operate misters.

#### Maintenance

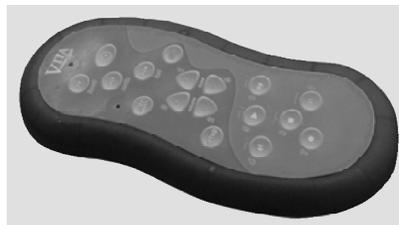
Periodically Flush or replace in line filter. Located inside panel (same side as water source inlet). See your dealer for availability or replacement

If Mister heads become clogged unscrew (counterclockwise) and clean using a small probe such as a needle

### C. REMOTE CONTROL

Your spa model may come equipped with a remote control located on the opposite side of the spa from the main spa side control. When pressing **"SOAK"** this will operate jets one and two in low speed. Pressing **"JET 1"**, **"JET 2"**, or **"JET 3"** is high speed only. The **"LIGHT"** button will activate your light. The **"AUX"** button will operate blower. It can not be used to program the spa.

**NOTE: YOUR OPTIONAL "FLOATING REMOTE" INSTRUCTION BOOK IS LOCATED IN A SEPERATE MANUAL.**



#### **D. DIGI-CHROMIUM**

The Digi-Chromium option is activated by pressing the Light button on the spa side control.

To program the lights, press and hold the Light button for 5 seconds.

Once the display reads L=XX, release the button.

Using the arrow buttons, you may select the different settings.

Review each setting to determine which is best suited for you. The selection may be changed at any time by repeating the previous steps.

L=00 Off

L=01 Diamond

L=02 Blue

L=03 Green

L=04 Red

L=05 Strobe effect Red/Green/Blue

L=06 Gradual change Red/Green/Blue

L=07 - 10 Combination Colors

L=11 - 20 Reduce Intensity 50%

L=21 - 20 Reduce Intensity 75%

The lighting system will automatically turn itself off after three (3) hours.

#### **D. WAVESEAT**

##### **Activation**

The waveseat can be activated from either the topside control or the remote control. From the Topside control, one must press the "LIGHT" button twice to activate the waveseat pump. From the Remote control one presses "JET 3". The lights will remain on while the pump is in operation.

##### **Speed Switch**

The speed switch may be used to select time between cycles. The speed switch will only function when the user has selected one of the six sequences. Default speed is the slowest, there is a 15 second delay between each step (light will blink slowly). Depressing the speed key once will delay 10 seconds. Twice will reduce another 5 seconds between cycles (light will blink rapidly). Three times, it will return the cycle delay time to 15 seconds.

##### **Pause Switch**

To interrupt your message sequence. You can stop the cycles and keep the jets working in that particular spot for as long as you like or until the main control times out after 30 minutes. To restart wave action, press the Pause switch a second time. If the Pause switch is activated, the first indicator light will stay on.

##### **Sequence Switch**

Allow the user to select the type of message they want. A total of 6 different sequences are programmed into the system including one, in which, all the valves are open. The lights on the control pad indicated which cycle is operating at the time. If all valves are open, the light indicators should be off.

The press of the switch will sequence the cycles forward. they can not be reversed or modified. The L.E.D. will flash for the corresponding cycle. There are four lights that illustrate the jet pattern. the user can preview the cycle selected at an accelerated rate for 5 seconds prior to its actual start. To accept the selected cycle, do not touch the keypad for 5 seconds. The system will then acknowledge the selected cycle and display the L.E.D.



## LIMITED WARRANTY for L700C SERIES WARRANTY COVERAGE

VITA International extends this limited warranty solely to the original Purchaser of any L700C Series Vita Spa self-contained spa installed within the United States or Canada.

### LIFETIME STRUCTURAL

**SPA SHELL:** Vita International warrants its shells against loss of water due to defects in materials and workmanship for as long as the original purchaser owns the spa.

### 10 YEARS SURFACE

The acrylic surface is warranted against blistering, cracking and chipping resulting from a defect in the acrylic surface material for a period of ten (10) years from the original date of purchase.

### 5 YEAR COMPONENT WARRANTY

Vita International warrants all factory installed electrical components—pumps, blowers, heater and control system—and plumbing components—jets, air injectors, glued joints, pipes and hoses—to be free from defects in materials and workmanship for a period of five (5) years from the original date of purchase. Factory installed options, covers and ozonators are warranted as noted below.

Wearable components such as filter cartridges, light bulbs, fuses, and headrests, are not covered under this warranty but are warranted to be free from defects in material and workmanship at the time of the original delivery.

The cabinetry is warranted to maintain its structural integrity for a period of two (2) years from the original date of purchase.

### "NO BLAME" HEATER ELEMENT

The element in your L700C Spa is protected by a special isolation coating that takes the worry out of maintaining water chemistry (pH). Please Note: Whereas Vita's "No Blame" element gives added protection against corrosion, improperly balanced (pH) may affect other components of the spa, or may cause harmful skin irritation. Preventive maintenance is suggested.

### FACTORY INSTALLED OPTIONS

Covers, as supplied by Vita Spa, are warranted to be free from manufacturing defects for a period of two (2) years.

Ozonators, installed at the time of manufacture, are warranted to be free from manufacturing defects for a period of two (2) years.

Digi-Chromium lighting systems, installed at the time of manufacture, shall be warranted to be free of any manufacturing defects for one (1) year for all components.

Stereo systems, installed at the time of manufacture, are warranted to be free of manufacturing defects for a period of one (1) year.

Symphonic Wave Seats, installed at the time of manufacture, are warranted to be free of manufacturing defects for one (1) year.

Fresh Water Mister Systems, installed at the time of manufacture, are warranted to be free of manufacturing defects for a period of (1) year.

There will be no charge for in-home service labor on factory installed options during the first 90 days.

Dealer added options are excluded from this warranty and are covered under separate warranties from their respective manufacturers. No Labor Warranty.

### WARRANTY PERFORMANCE

In the event of a defect covered by this warranty, notify your VITA SPA dealer within 10 days of the time the defect is discovered. Upon proof of purchase by dated purchase receipt, Vita International or its authorized representative will correct the defect within the terms and conditions contained in this warranty. There will be no charge for in-home service labor during the first five years. You may be assessed reasonable repairperson travel charges. Vita International, at its sole option, may elect to substitute a spa or component of equal value, either new or reconditioned, to correct a defect. Such replacement shall assume, as its warranty, the remaining portion of the warranty on the original product. If the entire spa needs to be substituted because the repair is not feasible or the repair can not be performed in the field, reasonable costs to pick up the defective spa and return it or delivering and installing the replacement spa will be the responsibility of the spa owner.

### EXCLUSIONS

This warranty is void if Vita International or its representative determines that the spa has been subjected to any alterations or repairs by anyone other than an authorized representative of Vita International. Vita Spa's are not approved for commercial applications. Vita International will not be responsible for the cost of replacement parts or labor cost of any spa found to be used in a commercial application. This warranty shall also be voided if there is evidence that the spa has been subjected to misuses, abuses, negligence, improper installation or operations other than in accordance with the instructions in the owner's manual, including but not limited to damage to components caused by improper pH balance or other improper water chemistry maintenance, (use of chlorine based products other than dichlorine voids all warranties,) or by failure to maintain and clean the filtration system; damage to components or spa surface caused by operating the spa at water temperatures outside the range of 32 degrees F (freezing) and 120 degrees F (excessive heat); damage to the surface caused by leaving the spa uncovered while empty of water and in direct exposure to sunlight; damage caused by improper or incorrect electrical hook-up, modifications to internal electrical assembly boxes and grounding system, by electrical installations done by anyone other than licensed professionals in non-conformity with state and local codes or by power surges or spikes; or damage caused by Acts of God or conditions beyond the control of Vita International.

### DISCLAIMER

Except as expressly provided, there shall be no other warranty or obligation, expressed or implied, oral or statutory. No dealer or other person has the authority to make any warranties or representations covering Vita International or its products. Vita International and its representatives shall not be liable for any injury, loss, cost or other damage, including but not limited to, loss of use, inconvenience, costs of removal of a permanent deck, custom fixture, or any other incidental or consequential costs, expenses or damages. Under no circumstances shall Vita International or any of its representatives be held liable for injury to any person or damage to any property, however arising. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights, which vary, from state to state.

### CUSTOMER SERVICE

Contact your dealer or local authorized repair center for service. If you do not know who your local representative is, contact Vita International's Technical Service Division at the address listed below, or call (305) 685-2063.

This warranty is effective for spas manufactured after January 1, 2005.

Vita International

Manufactured by DM Industries, Ltd.

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## **JET OPERATION**

Your Vita Spa is designed with a unique jet system to allow you to select a wide variety of massage patterns. The following is a description of the various types of jets and their operation you may use to tailor your spa to your specific massage needs.

### **(A) SELECT—A—SWIRL™ JETS**

The water flow direction is adjustable by rotating the directional jet nozzle. The amount of pressure can be adjusted by rotating the outer rim of the jet(s) clockwise for minimum pressure and counter-clockwise for maximum pressure. Pressure may also be varied by the use of the air control.

This jet can be removed for cleaning by turning the outer ring counter-clockwise until you feel it stop. Then slightly apply pressure in the same direction to overcome the "stop". The jet can then be pulled out of the jet body for cleaning. To install the jet, insert the jet back into the body and turn clockwise.

### **(B) PULSATOR JETS**

Interchangeable with SELECT—A—SWIRL™ and QUAD STREAM™ jets. Water pressure can be adjusted by rotating the outer rim of the jet(s) clockwise for minimum pressure and counter-clockwise for maximum pressure. Pressure may also be varied by the use of the air control.

This jet can be removed for cleaning by turning the outer ring counter-clockwise until you feel it stop. Then slightly apply pressure in the same direction to overcome the "stop". The jet can then be pulled out of the jet body for cleaning. To install the jet, insert the jet back into the body and turn clockwise.

### **(C) QUAD STREAM™**

Interchangeable with SELECT—A—SWIRL™ and PULSATOR JETS. It is one powerful jet, whose force, redirected into four different directions, results in strong, even vibrations to soothe those overworked calf muscles.

### **(D) TURBO JET**

The Turbo Whirlpool Jet is not individually adjustable. To adjust the flow, you must open or close air control valve.

The Turbo Whirlpool Jet utilizes a high flow design to create a powerful whirlpool current throughout the spa. It's great for working out the hard to relieve knot. For cleaning purposes, the Turbo Jet face can be removed by turning the face counter clockwise. Re-install by pushing the face in and turning clockwise.

### **(E) THREE—WAY POWER DIVERTER VALVE**

This valve is functional when the primary or secondary, two-speed pumps are operating. Water may be diverted to two individual sections of jets or a combined operation of both sections.

Do not adjust when pump is set at high speed.

### **(F) CLUSTER JET**

These jets work as a team, that's why they're usually found in groups of two or more. They can deliver vigorous pinpoint action for a therapeutic effect, or you can turn into soothing massage with just a twist of your finger.

### **(G) MIDI DIRECTION & MIDI SWIRL**

#### **(TENSION EASE™)**

Creates a powerful massaging action that penetrates deep into your upper back, neck and shoulders—the areas most commonly afflicted by tension. Adjust the pressure to your own comfort level.

#### **(H) AIR CONTROL**

The Air Controls are used to introduce air into the water jet stream. They allow the user to increase (open) jet pressure or decrease (close) jet pressure as desired.

#### **(I) WATERFALL OPERATIONS**

On the spas models with this feature this valve increases or decreases volume of water from the waterfall. On the some models, a second valve of this type increases or decreases the volume of water from the Colorado River Jet.™

#### **(J) FRAGRANCE INJECTORS**

These injectors blow thousands of air bubbles while at the same time allowing the VitAroma scents to be released.

### **(K) TURBO MASSAGE JET**

With the Power Diverter Valve turned to left or right depending on the spa model, the water will be delivered exclusively to the Turbo Massage Jet. The Turbo massage therapy is great for working out those hard-to-relieve muscle knots and to create swirling whirlpool effect in the spa. The Turbo Massage jet pressure can be adjusted by rotating the Power Diverter Valve between left and right positions.

#### **(L) DIRECTIONAL AND ROTATIONAL MASSAGE JETS**

When the pump(s) is on and the Turbo massage jet is in the off position, the Directional Quad jets and Rotational Therapy jets will be operational. The nozzle of the Directional Quad jets can be adjusted to direct the flow to specific part of your body. The Rotational jets provide a “swirling” type therapy. The water pressure can be adjusted in both jets by rotating the outer rim of the jet clockwise for minimum pressure and counter clockwise for maximum pressure. Water pressure can also be varied by opening or closing the air control.



## **VITAROMA**

### **INJECTION SYSTEM**

VitAroma therapy offers the unique benefits of combining Aroma and Hydrotherapy. Simply defined, aromatherapy is the practice of using pure essential oils – the highly concentrated extracts of plants, herbs, and flowers – to improve one's feelings of well being through the acute sense of smell.

Your spa is equipped with a unique "Above the Water" aromatherapy induction system. To activate VitAroma, insert one of Vita Spa's exclusive aromatherapy scents and turn on the VitAroma Induction System. The system is activated when the air blower button is depressed. This system dispenses aromatherapy through the small ports adjacent to the spa pillows and through the underwater air injection system. Experience the wonder and pleasure of aromatherapy. It will soothe your senses and invigorate your spirit.

To extend the lifespan of the VitAroma beads, it is recommended that they be removed from the spa and stored in the resealable packet after each use. VitAroma aromatherapy scents are available exclusively from Vita Spa Dealers.

## **WATER PURIFICATION SYSTEM**

### **VITAZONE**

Located in the equipment compartment, the VitaZone ozonator converts O<sub>2</sub> into O<sub>3</sub>. In such form, it acts as an oxidizer, and reduces the need for sanitation (bromine or chlorine).

### **BIOZONE**

The L700C series spas are equipped with our exclusive BiOzone purification system. BiOzone is the combination of ozone (a strong oxidizer) and Sparkle Clear, our trademarked mineral sanitation system.

### **SPARKLE CLEAR (L700C Series)**

The cartridge is housed in your filter attached to the filter cap. It works in conjunction with the Vitazone ozonation system. Sparkle Clear sanitation procedures are different than conventional means, therefore you must carefully follow the Sparkle Clear instructions.

#### **PURIFIER START UP**

Upon filling your spa, balance the water per dealer guidelines. Add 1 teaspoon of dichlor to the spa per 250 gallons.

#### **EVERY DAY**

No action required.

#### **BEFORE EACH USE**

Add 1 tablespoon of potassium peroxymonosulfate (MPS) to spa per 250 gallons

#### **ONCE A WEEK** (if required)

Per "Brand" guidelines, shock with a chlorine or bromine shock.

#### **EVERY 4 MONTHS**

Drain and refill spa.  
Replace SPARKLE CLEAR cartridge.

#### **AS NEEDED**

If water looks hazy, shock treat with 1 teaspoon of dichlor per 250 gallons.

**NOTE:** Potassium peroxymonosulfate may cause a lowering of the pH and total alkalinity of your spa water. Please monitor pH and total alkalinity at least once per week and adjust accordingly.

## SPA MAINTENANCE

Your Vita Spa is manufactured with the highest quality and most durable materials available. A spa care and maintenance program is recommended to increase your comfort, maintain the spa's reliability, and protect your investment.

### FILTER MAINTENANCE

Vita Spas are designed with the most efficient top loading filtration system in the industry. Filter maintenance is the most critical factor in keeping your spa water clean.

#### TO CLEAN THE FILTER:

(NOTE: Never run the spa without a filter installed)

Remove the cartridge and spray it with a garden hose. It will be necessary to rotate the cartridge while spraying so as to thoroughly remove the debris lodged between the filter pleats.

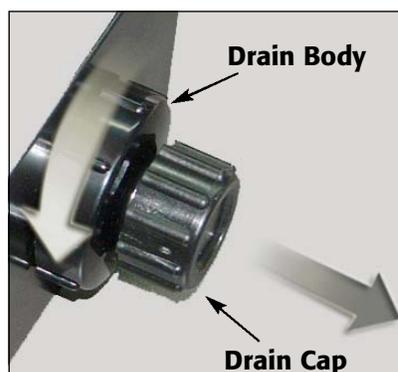
After allowing to dry, inspect the cartridge for calcium deposit (scaling) or an oil film. Rapid mineral build-up from hard water, or oil build-up from the use of oil-based water scent or body oil may coat the filter cartridge. A filter cleaner to soak the cartridge is available from your Vita Spa dealer and should be used as part of your spa maintenance. Use a rag to remove any debris at the bottom of the filter housing and inside the filter screen. Replace the cartridge in the filter housing. We recommend the use of a spare filter. This way one can be soaking and cleaning while you continue to enjoy the use of your spa.

### DRAINING YOUR SPA

Detergent residues from bathing suits as well as soap film from your body may gradually accumulate in the water. Foam inhibitors will suppress the foam but will not remove the soap from the water. Eventually, the soap build-up in the water will concentrate enough to leave an unclean feeling on the user's skin, causing sudsing and make the water impossible to clarify. Depending on the amount of soap input, the spa water should last between two and three months.

### TO DRAIN YOUR SPA

Turn the power off at the GFCI breaker. To locate drain look at the front base of the spa. Once located remove cap by turning it counterclockwise. Attach a garden hose to the bib that is located directly behind the cap, once removed. Route the outlet of the hose to an appropriate draining area. Twist body then pull. The spa will empty by gravity. Siphon or scoop out the balance of the water.



**IMPORTANT:** Spa water with a high sanitizer level may harm plants and grass. If you are draining your spa for the winter, be sure to fully drain water from the pipe by disconnecting the two unions at the gate valves found by each of the two speed pumps and the two unions found by the circulation pump. Drain the water pumps by removing the pump plug. Then reinstall the pump plugs. Remove the filter and clean as required. Inspect the spa shell and clean as required.

Refill the spa BEFORE restoring power to it.

## SPA MAINTENANCE

### WINTERIZING YOUR SPA

Your Vita Spa has been designed and engineered for year-round use in any climate. If the spa will not be used for prolonged periods of time, contact your local authorized service station to properly drain and protect your spa.

### EXCEL-PLUS CABINET MAINTENANCE

The exterior of your Vita Spa cabinet is made from a newly formulated high strength material that is factory stained and sealed. Depending on the location and exposure of the spa to nature's elements, it is recommended that you clean the cabinet once or twice a year with warm water and a mild soap.

### COVER MAINTENANCE

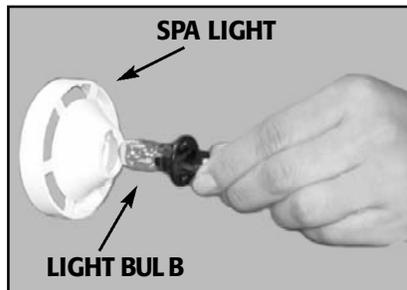
Your cover is manufactured from a durable marine grade, UV resistant material. Even so, monthly cleaning and periodic conditioning is recommended to maintain its beauty. To clean and condition the vinyl cover: Lightly spray the cover with a garden hose to rinse it and remove the debris. Using a large sponge or soft cloth and a mild soap solution (1 teaspoon dish washing liquid with 2 gallons of water), scrub lightly in circular motion. Then rinse it thoroughly with plenty of water. Condition the vinyl after cleaning by applying a thin film of vinyl conditioner. NOTE: To remove tree saps, use lighter fluid (not charcoal lighter but the kind used in cigarette lighters). Use sparingly and rinse with mild soap solution afterwards. Wipe dry.

### CARE OF ACRYLIC SURFACE

To maintain the surface of your spa, simply clean with a soft damp cloth (a mild detergent is okay) or with any glass cleaner. DO NOT clean the surface with any type of abrasive as it will dull the surface and natural luster of the acrylic. DO NOT use any type of oil based solvent. Such products can be very harmful to the surface of the spa and will void the surface warranty of the spa.

### SPA LIGHT COLORED LENS REMOVAL

In your owners packet you will find colored lenses for your spa light. They can easily be installed or removed by placing them over the spa light and gently pushing on the outer edges to install and pulling along the edges to remove.



### LIGHT BULB REPLACEMENT

1. Turn off the power to the spa.
2. Remove the front panel of the spa.
3. Locate the spa light.
4. Turn the bulb counter-clockwise 1/4 turn to remove from its socket
5. The replacement bulb is locked into place by turning it clockwise 1/4 turn
6. Close up the cabinet and turn the power back on.
7. Check the Top Side display and adjust the time.

### CARE OF SPA PILLOWS

The spa pillows will provide years of comfort if treated with care. Each pillow has been positioned above the water level to minimize the bleaching effects of chlorinated water and other spa water chemicals. It is recommended that pillows be removed and cleaned each time the spa itself is cleaned. A mild soap and warm water works best in removing body oils. ALWAYS rinse the pillows off thoroughly after applying any type of soap to assure that no residue remains. If you are winterizing your spa or do not plan on using it for a while, it is best to remove the pillows until the next use. Pillows should always be removed whenever the spa is being superchlorinated.

## SPA MAINTENANCE

### DIVERTER VALVE

Over a period of time sand or grit may intrude into your spa. The diverter valves may become difficult to turn. It is important that the debris be removed as soon as possible to avoid damage to the valve.

1. Turn off the power to the spa.
2. Remove the diverter handle by pulling upward and gently rocking it.
3. Grasp the collar and turn it counter-clockwise.
4. Lift the valve body up.
5. Wipe the valve body and interior walls of the valve with a soft cloth.
6. Inspect the valve and valve walls for any grooves caused by the debris.
7. Using a fine grit sandpaper, smooth down any deep furrows.
8. Wipe the valve and wall down with a damp cloth and remove any debris left behind.
9. Lubricate the valve body with a waterproof lubricant.
10. Reassemble the valve and restore the power to the spa.
11. Check the Top Side display and adjust for time.

### PRIMING THE PUMP

Every so often after a spa is filled or refilled a pump is operating but the water is not flowing from any of its jets. This is a sign that the pump did not properly prime.

To correct, please perform the following:

1. Turn off the power to the spa.
2. Remove the front cabinet panel.
3. Turn the power back on and locate the pump by listening to the pumps and cycling them to determine which pump is not primed.
4. Turn the power back off.
5. Locate the union on the top of the pump and loosen it to allow the air to escape. When water begins to flow out of the union, hand tighten the union.
6. Turn the power back on to the spa. Activate the pump and check to make sure that the union is tight enough to keep from leaking.
7. Reinstall the cabinet panel and adjust the Top Side display for time.

### Fountain Jet (L700C)

1. Remove cover off of Fountain Jet
2. Using a pair of needle nose pliers pinch the nozzle and pull.
3. Remove bottom of nozzle
4. Using warm soap & water to clean any debris found.
5. Put pieces back together
6. Slide nozzle into jet over the light and push as far as possible.
7. Replace cover back on jet.

## **WATER QUALITY AND MAINTENANCE**

### **GENERAL GUIDELINES FOR WATER QUALITY MAINTENANCE**

Maintaining water quality within specific limits will enhance your enjoyment and prolong the life of the spa. Safe, comfortable and clean spa water is a fairly simple task to achieve, but it does require attention because of the numerous factors that can alter it. There is no one formula to be followed because of the variables, i.e. quality of the water used to fill the spa, water temperature, user load, etc. For specific guidelines for water quality maintenance, consult your Vita Spa dealer who can assist you to develop a program based on your specific needs. Disregard for water maintenance will result in poor soaking conditions, damage your spa investment, and possibly void your warranty.

### **SPA WATER MAINTENANCE CONSISTS OF THREE SEPARATE, EASILY DEVELOPED PROGRAMS:**

Sanitizing and maintaining a safe level of sanitizer in the spa water. Balancing the pH and maintaining the recommended mineral content level. Achieving and maintaining water clarity.

#### **SANITIZING**

To destroy bacteria and organic compounds in the spa water, a sanitizer must be used regularly. The use of ozone as an oxidizer has proven to be an effective method to help maintain water cleanliness, but a residual chemical sanitizer such as bromine, the most common sanitizer used in spas, must be used in conjunction with ozone. Do not drop bromine tablets directly in the spa. The use of a floater is required to dispense safely and properly the right amount of bromine in the spa water. A bromine residual of 2 to 3 PPM is generally considered desirable. A two-part bromine system or granular chlorine (Dichlor) are also acceptable sanitizers.

#### **pH CONTROL**

pH is a measure of acidity and alkalinity of the spa water. The recommended pH for spa water is 7.4 to 7.6 PPM. Below 7.0 (considered neutral), the spa water is acidic and can cause damage to the heating system. Above 7.8 the water is too alkaline and can result in cloudy water and scale formation on the spa shell, heater and cover.

### **IMPORTANT: NEVER USE CHLORINE TABLETS (TRICHLOR) IN YOUR SPA.**

This chemical can have an extremely corrosive effect on certain materials in the spa. Also, the use of liquids, chlorine or acid, are not recommended. Damage caused by use of any chemical, is not covered under the spa warranty.

### **OZONE WATER PURIFICATION SYSTEM**

The use of Ozone has become very popular in spas as a water treatment method. In addition to being a strong oxidizer, Ozone makes spa waters easier to maintain, creates "softer" water with no skin or eye irritation, reduces chemical sanitizer by up to 70% and helps provide a pleasant, sparkling environment.

Used in conjunction with a residual chemical sanitizer such as bromine, Ozone provides the safest and most effective way to ensure maximum water quality.

Your spa comes equipped with a 24-hour BIOZONE water purification system, the most efficient and effective system to introduce ozone in spa water. After being filtered and heated, the spa water goes through a venturi ozone injector known as a "Vitazone Injector". The Vitazone Injector draws ozone from a high efficiency ozone generator and mixes it under pressure with the water. The ozonated water travels around the spa before it is discharged into the main body of water. The Vitazone injector and travel time provide optimum ozonation effectiveness with minimum undissolved ozone release.

## **IMPORTANT WATER MAINTENANCE PROCEDURES**

### **DAILY**

**3 days a week**

**Check water level.** Keep water above bottom of skimmer door and a minimum of 1" above highest jet.

**Check and adjust chlorine level to 1.0 to 3.0 ppm** if chlorine is used as sanitizer. If Sparkle Clear is used, check weekly.

### **WEEKLY**

**Once a week**

**Test the spa water** using 3-way water test strips

**Adjust pH and total alkalinity.** pH: 7.4 to 7.6 (ideal 7.6).

Total Alkalinity: 80 to 120 ppm

**Maintain 1.0 to 3.0 ppm** bromine or free chlorine.

**Add 1 ounce of additive, such as "Spa Defender," to prevent calcium build-up.**

Calcium hardness: 120 to 250 ppm.

**Spray filter element to remove loose particles.**

### **MONTHLY**

**Four to six weeks**

**Inspect and clean the spa filter cartridge.** It is important to maintain your spa filter cartridge and keep it clean and free of particles which can restrict water flow. If the filter is not cleaned on a regular basis, the filter may clog and restrict water flow, which causes improper filtration and poor jet performance. See "Filter Cleaning" instructions.

**Two to three months**

**Drain your spa.** Follow the procedures outlined in "Draining Your Spa" page 22 and clean it following the procedures on page 23. When refilling your spa, be sure to follow the procedures outlined in "Balancing Your Spa Water" on the next page.

## **WATER MAINTENANCE**

### **BALANCING THE SPA WATER**

Water treatment is an important factor in the enjoyment of your Vita Spa. Proper water sanitation is essential to your health as well as permitting years of trouble-free use of your spa. The most common water chemistry problems that can damage your spa are:

1. Improper pH maintenance. pH balance is critical to proper water maintenance. Too low of a pH level will result in corrosion of the spa's components.
2. Not pre-dissolving chemicals before adding to the water.
3. Use of improper chemicals.
4. Over chlorination. Sodium dichlor is the recommended type of sanitizer. Sodium dichlor dissolves easily and has a neutral pH, which minimizes the effect that the addition of a sanitizer has on a pH balance. Trichlor compounds are not recommended because they have a very low pH, and are very potent and difficult to dissolve.

#### **BALANCING YOUR SPA WATER**

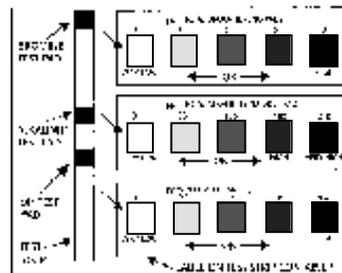
The instructions below will assist you with balancing the spa water for the first time. You will need the following items to balance your spa water.

1. "3-WAY TEST STRIPS"
2. "PH-UP" and "PH-DOWN" for pH control.
3. "MINERAL SURFACE PROTECTOR" for Calcium and Scale control.
4. "METAL INHIBITOR" for breakdown of mineral deposits.
5. "POTASSIUM PEROXY-MONOSULFATE" for shock treatment.
6. "BROMINE" or "CHLORINE" for sanitizing the spa water.

#### **Please read "WATER MAINTENANCE" then follow these easy steps:**

1. Fill your spa until the water level is 1 inch above the highest jet. It is NOT advisable to use softened water in your spa, as may become corrosive.
2. Add a 1/2 pint of Spa Metal Inhibitor to prevent iron or copper deposits from staining the finish of your spa. If your water is known to contain high concentrations of these metals it may be necessary to add an additional quantity of Spa Metal Inhibitor.

3. Use a 3-Way Spa Water Test Strip or test kit to measure the pH and Alkalinity of your water. The following instructions utilize test strips for testing. Immerse the test strip in the spa water, following the instructions on the test strip container label. Compare the strip to the label to determine the condition of the spa water.



4. If the Alkalinity is not within the acceptable range (80 to 120 ppm) it should be adjusted first. If it is low, raise the alkalinity by adding PH-UP 1 oz. at a time, retesting until the alkalinity reaches 120 ppm. If the alkalinity is high, it should be lowered by using PH-DOWN 1 oz. at a time.
5. After the alkalinity is properly adjusted, the pH is next. If the pH is above 7.8, use PH-DOWN (1 oz. at a time) to lower it to the acceptable range. It is extremely important to NEVER allow the pH of your spa water to be under 7.0, as this can severely damage your equipment and will void the warranty.
6. Add Sanitizer, either chlorine or bromine. For Chlorine: Follow the directions on the bottle. Chlorine dissolves rapidly; you should get a reading on the test strip within minutes of application. For Bromine: Follow the directions on your floating brominator. It is necessary to add sodium bromine only when the spa is being filled. Bromine tablets erode slowly, and it may take several hours before you will get a reading on the test strip. It may be necessary to adjust the floating brominator.
7. To properly maintain the chemical balance of your spa, follow the 3 day a week program outlined on pages 27 and 29.

## BALANCING THE SPA WATER

### 3 DAY A WEEK SPA CARE PROGRAM

#### MONDAY

1. TEST THE WATER USING "3-WAY SPA WATER TEST STRIPS".
2. Adjust pH and total alkalinity - Refer to pH and total alkalinity on label of "PH-UP" and "PH-DOWN".
3. Maintain 1.0 to 3.0 ppm Bromine or free Chlorine.
4. Add 1 ounce of "METAL SURFACE PROTECTOR" to prevent calcium build up.
5. Shock treat with 2 ounces of "POTASSIUM PEROXY MONOSULFATE", a non-chlorine shock, every week as needed.

#### WEDNESDAY

1. Nothing required if Bromine is used as sanitizer. Check and adjust Chlorine level if Chlorine is used.

#### FRIDAY

1. Nothing required if Bromine is used as sanitizer. Check and adjust Chlorine level if Chlorine is used.

**Note: The above table is an example only. Actual spa usage will determine the amount of chemicals required to maintain proper chemical balance.**

### ALKALINITY

VERY LOW	0	ADD SODIUM BICARBONATE TO INCREASE
ACCEPTABLE ZONE	80	IDEAL
	120	
HIGH	180	ADD SODIUM BISULFATE TO DECREASE
VERY HIGH	240	

### pH LEVEL

TOO ALKALINE	8.4	ADD pH DECREASER TO LOWER pH
SCALING ZONE	8.2	
	7.8	
COMFORT ZONE	7.6	IDEAL
	7.4	
	7.2	
TOO ACIDIC	7.0	
CORROSIVE ZONE	6.8	ADD pH INCREASER TO RAISE pH

### SANITIZER LEVEL

ppm	DO NOT USE SPA UNTIL TEST KIT READING IS BELOW 5.0 ppm
5.0-	RECOMMENDED LEVEL
4.0-	SAFE
3.0-	
2.0-	
1.0-	DO NOT USE SPA
0-	ADD SANITIZER TO REACH RECOMMENDED LEVEL

## WATER MAINTENANCE DO'S AND DON'TS

**DO** Add all chemicals slowly with the hydro jets operating in high speed.

**DO** Use care when handling chemicals.

**DO** Store granulated chlorine in a cool, dry place to maintain the chlorine's freshness. Granulated chlorine will degrade if stored improperly or for a long period of time. Do not store in sunlight.

**DO** Maintain total alkalinity level within the recommended range of 80 to 120 ppm. The calcium hardness level should be maintained in the 120 to 250 ppm range.

**DO** Maintain the pH level within the recommended range of 7.4 to 7.6.

**DO** Maintain proper chemical balance to reduce the risk of catching or spreading infection.

**DO** Use granulated chlorine/bromine produced specifically for portable spas.

**DO NOT** Use swimming pool chemicals in your spa.

**DO NOT** Use household bleach (liquid sodium hypochlorine).

**DO NOT** Use swimming pool (muriatic) acid to lower pH. Many swimming pool water care products can cause damage to spa and equipment.

**DO NOT** Allow anyone to be in the spa while chemicals are being added or dissolving.

**DO NOT** Use incorrect products such as Trichlor, which has a very low pH (2.6), dissolves very slowly, is highly concentrated, and was designed for concrete or plaster swimming pools. It will cause damage to your spa!

### CHEMICAL SAFETY INSTRUCTIONS

When using chemicals, read labels carefully and follow directions precisely. Though chemicals protect you and your spa when used correctly, they may be hazardous in a concentrated form. Observe these guidelines:

**DO** Accurately measure and use the exact quantities specified, never more.

**DO** Handle all containers with care. Store in a cool, dry, well ventilated place.

**DO** Keep chemical containers closed at all times when not in use. Replace caps on proper containers.

**DO** Allow only a responsible person to handle spa chemicals. Keep them out of the reach of children.

**DO** Follow the emergency advice on the product label in case of accidental contact, or if the chemical is swallowed. Call a doctor or local Poison Control Center. If a doctor is needed, take the product container along so that the substance can be identified.

**DO NOT** Inhale fumes or let chemicals come in contact with your eyes, nose or mouth. Wash your hands after use.

**DO NOT** Let chemicals get on surrounding surfaces or landscaping. Don't use a vacuum cleaner to clean up chemical spills.

**DO NOT** Smoke around chemicals. Fumes may be highly flammable.

## SPA WATER TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	SOLUTIONS
<b>Cloudy Water</b>	Inadequate filtration/dirty filter	Clean filter with a filter cleaner or degreaser.
	Excessive oils/organic matter	Shock the spa with "POTASSIUM PEROXY MONOSULFATE".
	Improper sanitation	Increase sanitizer to recommended level.
	High pH and/or high alkalinity	Adjust pH; add "PH-DOWN".
	Suspended particles/organic matter	Use clarifier
	Overused or old water	Drain the spa, clean and refill.
<b>Water Odor</b>	Excessive Organics Too many chloramines bromamines - insufficient free available chlorine	Shock the spa with "POTASSIUM PEROXY MONOSULFATE".
	Improper sanitation	Increase sanitizer level to recommended level.
	Low pH	Raise pH with "PH-UP".
<b>Chlorine Odor</b>	Too many chloramines-insufficient free available chlorine	Shock the spa with "POTASSIUM PEROXY MONOSULFATE".
	Low pH	Adjust pH; raise pH with "PH-UP"
<b>Musty Odor</b>	Bacterial or algae growth	Shock the spa. If problem is visible, draining and cleaning may be required.
<b>Foaming</b>	Buildup of body oils, lotion and chemicals resulting in soap or detergent	Add defoamer, or drain and refill.
	Overused or old water	Drain and refill.
	Excessive organics	Shock with "POTASSIUM PEROXY MONOSULFATE".
<b>Organic Buildup/ Scum Ring Around The Tub</b>	Body oils and dirt	Wipe off scum with a clean rag or use mild detergent. If needed, drain, refill spa, and adjust water.
	Inadequate filtration	Clean filter with a filter cleaner or degreaser.

## SPA WATER TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	SOLUTIONS
<b>Algae</b>	High pH	Shock with "POTASSIUM PEROXY MONOSULFATE", adjust pH.
	Low free chlorine/bromine	Shock with "POTASSIUM PEROXY MONOSULFATE", maintain sanitizer at recommended level.
<b>Eye Irritation</b>	Low pH	Raise pH with "PH-UP".
	Insufficient free available chlorine/bromine	Shock with "POTASSIUM PEROXY MONOSULFATE."
<b>Skin Irritation/Rash</b>	Unsanitary/polluted water.	Maintain recommended sanitizer residual at all times; super-chlorinate.
	Chlorine/bromine level too high (above 5ppm FAC).	Allow chlorine/bromine level to drop below 5 ppm before using spa.
<b>Stains</b>	pH or total alkalinity too low.	Adjust pH and total alkalinity; use sequestering agent; drain and clean with appropriate product.
<b>Scale</b>	High iron or copper in water source.	Use sequestering agent for metals; adjust water
	Too much calcium dissolved in water pH.	Adjust total alkalinity and pH levels by adding the appropriate sodium bisulfate product; with concentrated scale deposits, drain the spa, clean the liner (as outlined in Liner Clean Up), refill the spa and balance the water.

## **DIAGNOSTIC & TROUBLESHOOTING**

<b><u>SYMPTOM</u></b>	<b><u>MEANING</u></b>	<b><u>ACTION</u></b>
Spa Inoperative	Power failure outside of spa.	Check power source Breaker and GFCI; Reset breaker/GFCI. Call Electrician if it will not start.
Spa Side Inoperative	Spa Side could be locked.	If lock icon is visible, unlock by depressing the <b>"UP"</b> button for 5 seconds

**IF ANY ERRORS ARE FOUND, THE FOLLOWING REPLACEMENT MESSAGES MAY BE DISPLAYED:**

<b><u>MESSAGE</u></b>	<b><u>MEANING</u></b>	<b><u>ACTION</u></b>
BLO	Blower Error	Check fuse 3 and then verify that the blower motor is plugged in.
CP	HEET pump may be faulty.	Check that HEET pump is plugged in.
CS	Current Sensor	Check that current sensor board is plugged into circuit board.
F1 or F2	Blown Fuse	Replace fuse 1 or fuse 2
HC	Heater Error	Replace heater
HP	High Voltage	High power (voltage) observed. Check power connections and rerun diagnostic test
LB	Light Error	Replace underwater light bulb
LP	Low Voltage	Low Power (voltage) observed. Check power connections and rerun diagnostic test
O3U	Ozonator Error	Replace ozonator
P1	Pump 1 Error	Check plug for Pump 1
P2	Pump 2 Error	Check plug for Pump 2
Pb	Power Board	Check topside connection and remote panel connections to power board.
PS	Pressure Switch Error	Replace Pressure Switch or Flow Switch
LS	Water Sensor	Replace Sensor
SS	Heater Sensor	Replace Sensor
HILI	High Limit Sensor Detects Temperature Rise Above 112F	Allow Spa to Cool, Power Down Spa, Turn Power Back on and Reset Spa Side Control
FLO	Lack of Flow:Heater disabled	Remove filter. If "FLO" disappears, clean filter.

**IF ANY PROBLEMS PERSIST, CALL YOUR LOCAL VITA DEALER FOR SERVICE.**

## LCD DISPLAY GLOSSARY

<u>ICON</u>	<u>MEANING</u>
	L700C    Jet Therapy Soft-mode (Low Speed)
	L700C    Jet Therapy Power-mode (High Speed)
	L700C    Air Injection Blower On
	L700C    Light On
	L100    Still:    Heater is on L700C    Flashing: Temperature Adjustment Mode
	L100    Still:    Economy Mode (No timer Icon means L700C    Standard Mode) Flashing: Day and Time Adjustment Mode
	L100    Still:    Heater adjustment is locked L700C    Flashing: Panel lock. All buttons are deactivated
	L100    Still:    Filter is On L700C    Flashing: Filter adjustment Mode





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