

**IMPORTANT SAFETY INSTRUCTIONS**

**VITA<sup>®</sup>**  
**SPA**

**L500 SERIES**  
**L530, L560, L580**

**OWNER'S MANUAL**

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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, operation, or maintenance, contact your Authorized Vita Spa Dealer.

### OWNER'S RECORD

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

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

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

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

\_\_\_\_\_

\_\_\_\_\_

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

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

To contact our Customer Service Department, please write to Vita International, 2320 NW 147 Street, Miami, FL or call 1-800-VITA-SPA, or 1-305-685-5739, during normal business hours, Monday through Friday, 8am to 5pm, E.S.T.

The Serial Number is located within the equipment compartment. Please verify that the serial number is noted on your dealer's purchase contract .



# IMPORTANT SAFETY INSTRUCTIONS

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

READ AND FOLLOW INSTRUCTIONS.

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

**2. DANGER • RISK OF ACCIDENTAL DROWNING.** Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use a hot tub or spa unless they are supervised at all times.

**3. 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 (1.5 m) of the unit.

**4. DANGER** - To reduce the risk of injury to persons, DO NOT remove suction fittings. The suction fittings in 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.

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

**6. 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 (8.42mm<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.

**7. 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.

**8. 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 or hot tub temperatures 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.



## DO'S AND DON'TS

- DO** Make sure the spa is connected to a Ground Fault Interrupter (GFCI) protected circuit. This GFCI is required by the National Electrical Code (NEC) and must be installed by a licensed electrician. Test 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.
- 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 spa without water. Turn 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 hot tubs and spas.

Persons taking medications which 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.

SAVE THESE INSTRUCTIONS.



# INSTALLATION INSTRUCTIONS

## **SITE SELECTION/PREPARATION:**

The spa must be installed on a structurally strong, solid and reasonably level surface. 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. Refer to spa equipment/cabinet access addendum.

## **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 and spa area clean and safe.

## **PRIVACY AND WIND SHIELDING:**

A sheltered environment can result in lower operating and maintenance costs.

Your VITA SPA dealer is your best resource to answer any questions or provide suggestions for your spa installation.

# ELECTRICAL REQUIREMENTS AND INSTALLATION

**IMPORTANT:** All electrical wiring to the spa must meet the requirements of the National Electrical Code (NEC) and any applicable state or local codes. The electrical circuit must be installed

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by a qualified, LICENSED electrical contractor

and approved by a local building/electrical inspection authority.

1) The spa must be permanently connected (hard-wired) 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 which 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 off this circuit.**

3) Refer to the wiring diagram to determine the current, voltage and wire size requirements for this spa.

THHN type wire is recommended.

Wire size for the distance of the wire run must conform to NEC and local electrical codes.

Use copper conductor only to ensure proper connections. **DO NOT USE ALUMINUM WIRE.**

4) To obtain access to the spa's power terminal strip, remove equipment access door and remove the control box cover.

5) Feed supply conductors through power supply inlets provided on spa and install into control box.

6) Connect wires to terminal block (TBI) color for color. All wires must be connected or damage may result. **TIGHTEN SECURELY!**

7) A separate #8 (.4mm<sup>2</sup>) solid copper ground wire should be connected between the spa grounding lug and a recognized grounding rod that is fully driven into the ground. **NOTE:** Do not turn power on to the spa until the start-up instructions have been followed.



# OPERATION INSTRUCTIONS

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

## 1) FILL YOU 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. 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 level 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.


## 2) INITIAL START UP

### L500 SERIES SELECTRON SPA SIDE




Your L500 Series spa has been factory programmed for your convenience. Once properly connected, the filtration pump and heater will automatically come on and heat the spa to 102°F. Initial temperature, day, time and filtration cycles can be set and changed by following the instructions shown below.

### 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:

3. Press "VIEW" to show the day of week. Notice the clock icon  flashing
4. 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 I & 3.

### C. Setting Current Time:

5. Press "VIEW" to show the Hour. Observe the PM indicator. No indicator means AM.
6. Press "UP" or "DOWN" to select the current hour.
7. Press "VIEW" to show the minutes.
8. Press "UP" and "DOWN" to select the current minute.  
Note: To change current time at any time, do step 1, 3, 5, 6, 7 & 8.

### D. Setting Filtration Cycles

- Filtration cycles have been preset at the factory from 9AM to 11AM and from 4PM to 6PM. They can be changed as follows:
9. Press "VIEW" to show the filter cycle schedule. Notice the filter icon  flashing.
  10. Press "UP" and "DOWN" to change the hour.
  11. Press "PROG" button to change the filter from "-" (Off) to "F" (On) or vice versa.  
Note: Filtration cycles can be changed directly at any time by doing steps 1, 3, 5, 9, 10 & 11.

### E. Returning To Regular Display:

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


## 3) 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 provides soft Relaxation Therapy and the power-mode provides vigorous Power Therapy.

JET Button: 

Relaxation Therapy Icon: 

Power Therapy Icon: 

Notice the Jet Icons as you switch pump modes. Each pump mode is indicated by its own icon.

### SINGLE PUMP SYSTEM: L530

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


### DUAL PUMP SYSTEM: L560 - L580


1. Press "JET" to activate the Relaxation Therapy mode. Both pumps will turn on to service every seat.
2. Press "JET" to activate the Power Therapy mode. Pump # 1 will turn on.
3. Press "JET" to active pump #2 in Power Therapy mode. Both pumps will be on.

4. Press "JET" to de-activate pump # 1. Pump #2 will remain in Power Therapy mode.
5. 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. Reactivate any therapy mode as indicated above.


## D. Air Injection Therapy Air Button:

Air Button: 

Air Icon: 

Your spa is equipped with a 2-mode air therapy blower. The first touch of the blower button activates the power-mode for normal air bubble action. A second touch activates the soft-mode for softer action. Touching the blower button a third time will turn it off. For safety, the blower will automatically turn off after 30 minutes. To reactivate, start sequence over.

## E. Turning on the Light

Light Button: 

Light Icon: 


Your spa has an underwater light with two levels of brightness. The first touch of the Light button turns the light on at full brightness. A second touch reduces the light to half its brightness for mood setting. A third touch turns it off. If left on, the light will automatically turn itself off after 6 hours.

## F. Standard and Economy Mode

Your spa has been designed to operate in two heater control modes: STANDARD and ECONOMY. In the STANDARD 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 STANDARD mode. The spa water will be automatically heated to the temperature you chose, 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 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. To switch to the ECONOMY mode, press the "MODE" button. Observe that the clock  icon will show in the display window, indicating that your spa is running under "Clock" control, in the ECONOMY mode. To revert to STANDARD mode, press the "MODE" button again.

#### 4) SPECIAL FEATURES

##### A. Automatic Blower and Jets Purge

Twice each day, at 10 AM and 6 PM, 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. The display will show "bJ 2P" while this takes place. You can manually stop the purge cycle by pressing any button.

##### 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 lighting or other interference, like your PC at home, your spa system can be simply reset by holding down the "PROG" button for 5 seconds. The system will be reset, maintaining all the settings you had in memory.

##### D. Inverting Display




The Selectron 500 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 hold down the "DOWN" arrow button for 5 seconds. To change back, hold down the "DOWN" button for 5 seconds again. Note that the icons cannot be inverted.

##### E. Panel Lock

The Selectron 500 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..

##### F. 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 "Lock Panel" position only. Follow the "Lock Panel" 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.

##### G. Freeze Protection

If the 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.

##### H. 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.

##### I. Overheat Protection

If the water temperature inside the spa reaches 110°F, the display will show "HILI" (High Limit). and the heater will be disabled. If the water temperature continues to rise and reaches 112°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. If the "HILI" message returns, call for service.

### J. Ozone Generator Monitor

If your spa is equipped with a VitaZone ozone generator, the ozone bulb is monitored by the spa controller. Should the bulb burn out, or should the ozonator fail, the message "03" will appear on the display, signaling the need for service.


## 5) ADVANCED FEATURES

### A. "F" Fahrenheit or "C" Celsius Degrees

Your spa has been preset to show the temperature in "F" degrees. If you desire, you can change to "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.

### 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.
2. With the temperature showing and the heater icon flashing, hold down the "PROG" button for 5 seconds and the current heat day (H1, H2 ... etc.) will appear.
3. Press the "PROG" button to advance to the next heat day and to the heat day you would like to change the temperature from the originally set temperature.
4. With the heat day showing, press the "UP" arrow button to display the set temperature for that day.

5. Then press the "UP" or "DOWN" arrow buttons to select the temperature for that day.
6. Repeat steps 3, 4 & 5 to select any other temperature for any other day.
7. To exit procedure, wait 30 seconds or press any button except "PROG", "UP" and "DOWN"

### Example:

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

1. Press "PROG".
2. Hold down "PROG" for 5 seconds.
3. Press "PROG" as many times as needed to display H2 (Monday).
4. Press "UP" to display temperature.
5. Hold down "DOWN" button to lower temperature to 80°F.
6. Repeat steps 3, 4 & 5 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.

## 6) 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.

## 7) 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.

### THREE-WAY POWER DIVERTER VALVE

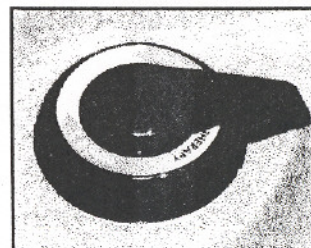


Illustration 2

This feature is only available on spas equipped with the L560 or L580 series equipment (Romance, Elan, Allure and Essence). This valve is functional when the



primary, two speed pump is operating. Water may be diverted to two individual sections of jets or a combined operation of both sections. By turning the valve to the left, water will be diverted to section "A" jets giving them the maximum output. Rotating the valve completely to the right will give section "B" the maximum output and when its turned to the center position, both "A" and "B" sections will operate simultaneously. (See specific spa spec sheet insert for details on how to use 3-Way Diverter).

### DIRECTIONAL & ROTATIONAL MASSAGE JETS

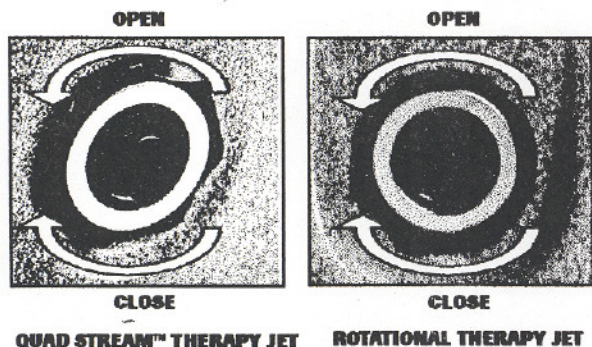


Illustration 3

When the pump is on and the turbo massage jet is in the off position, the directional & rotational massage jets will be operational. 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.

### EURO MASSAGE JET

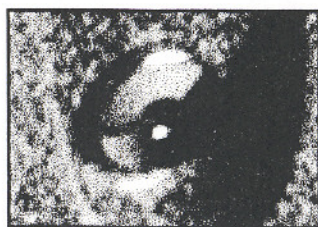


Illustration 4

These Euro jets are used in various models for various purposes. In cluster configuration for back and neck massage, they deliver a firm pinpoint jet stream of massaging action.

The Euro jet is not directional, but can be pressure controlled by rotating the jet face, or adjusting the air control.

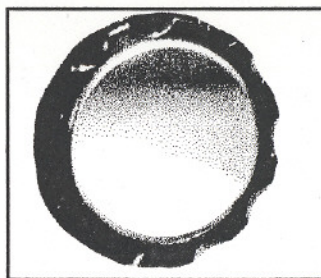


Illustration 5

### AIR CONTROLS

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.

### FOUR WAY TURBO MASSAGE DIVERTER JET

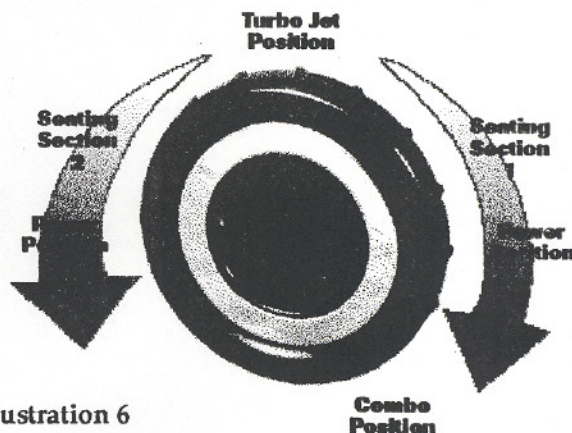


Illustration 6

This jet is operational when the auxiliary pump is on (for spas with 2 pumps), or whenever the pump is activated (single pump systems). Water is diverted to various jet regions by rotating the outer rim to assorted clock positions. When the jet is turned to the three o'clock position, sector "A" jets will operate. At nine o'clock, sector "B" jets will function. At six o'clock, both "A" and "B" sectors will perform simultaneously. And at the twelve o'clock, the water is routed through the turbo massage jet itself. (See specific spa spec sheet insert for details on how to use the 4-Way Turbo Diverter).

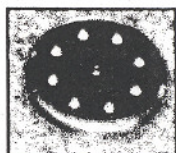


Illustration 7

### FINGER MASSAGE JETS

Located at various points in the spa. They create a "finger massage" action when blower is turned on.



# 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.

## 1. 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, cause 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:

- A. Turn the power off at the GFCI breaker.
- B. Attach a garden hose to the yellow hose bib located under the filter housing inside the equipment area and route the outlet of the hose to an appropriate draining area. 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. Drain the water pump by removing the pump plug. Then reinstall the valves and pump plug. Sponge out any residual water and make sure that the acrylic surface is completely dry.

- C. Remove the filter and clean as required. Store it in a dry place.
- D. Remove the plug from the antifreeze line between the two pumps and utilizing a shop/vacuum, extract all remaining water from the plumbing system.
- E. Apply silicon to the antifreeze plug and securely re-install the plug to the antifreeze line.
- F. Inspect the spa shell and clean as required.
- G. Refill the spa BEFORE restoring power to it.

## 2. WINTERIZING YOUR SPA

Your VITA SPA has been designed and engineered for year-round use in any climate.

- A. If the spa will not be used, drain

it completely following the instructions on "DRAINING THE SPA."

- B. If you intend to use the spa during the winter, keep the spa warm. Even though your spa is equipped with automatic freeze protection (See "Freeze Protection"), accidental freezing could result due to prolonged power failures. It is recommended to operate your spa under the "STANDARD" mode during the winter (See "Standard vs. Economy Mode"). Always check your spa frequently during freezing conditions and after any power failure.

## 3. 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 spa without filter)

- A. 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.
- B. 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.
- C. Use a rag to remove any debris at the bottom of the filter housing. Replace the cartridge.
- D. 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.

## 4. REDWOOD CABINET MAINTENANCE

Your VITA SPA cabinet is made with a high quality redwood. It is factory stained and sealed. Depending on the location and exposure of the spa to the rain and sun, it is recommended to seal the redwood cabinet once or twice a year with a



wood sealant. Vita's specially formulated red-wood sealer is available at your VITA SPA dealer.

### 5. MARINE VINYL COVER

Your cover is manufactured from a durable marine grade, U.V. resistant material. Even so, monthly cleaning and periodic conditioning is recommended to maintain its beauty. To clean and condition the vinyl cover:

- A. Lightly spray the cover with a garden hose to rinse it and remove the debris.
- B. 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.
- C. Condition the vinyl after cleaning by applying a thin film of vinyl conditioner such as ArmorAll. 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.

## 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 regular 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:**

1. Sanitizing and maintaining a safe level of sanitizer in the spa water.
2. Balancing the pH and maintaining the recommended mineral content level.
3. 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 recommended 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 these chemicals, or improper use of any chemical, is not covered under the spa warranty.

### OPTIONAL VITAZONE WATER PURIFICATION SYSTEM

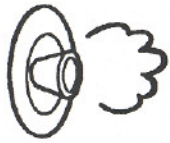
If you have elected to equip your spa with the optional VITAZONE ozone water purification system, you will find that your water stays fresh and clean with significantly less usage of chemical sanitizer and you will also be able to go longer between spa draining. Read and follow the instructions included with your VITAZONE ozone water purification system to determine how to adjust your chemical usage and filter cycles.



# ICON REFERENCE CHART

## ICON

## MEANING



Jet Therapy Soft-mode On



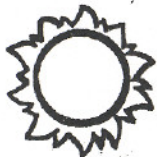
Jet Therapy Power-mode On



Air Injection Blower On



Light On



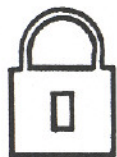
Still: Heater is on

Flashing: Temperature Adjustment Mode



Still: Economy Mode (No Timer Icon means Standard Mode)

Flashing: Day and Time Adjustment Mode



Still: Heater adjustment is locked

Flashing: Panel lock. All buttons are deactivated



Still: Filter is On

Flashing: Filter Adjustment Mode



# L500 SERIES DISPLAY MESSAGES

## SYMPTOM

## MEANING

## ACTION

Spa inoperative

Power Failure outside of Spa

Check power source Breaker and GFCI; Reset breaker /GFCI. Call Electrician if it will not reset.

Spa Side Inoperative

Spa side could be locked

If lock icon is visible, unlock by holding down "UP" button for 5 seconds.

## MESSAGE

BJ2P

Plumbing line purging

Normal for 1 minute at 10AM & 6PM.

FLO

Lack of flow. Heater disabled.

Remove filter. If FLO disappears, clean filter. If FLO remains, call for service.

HILI

Overheating detected. Heater off at 110°F. Pumps off at 112°F  
DO NOT USE SPA

Let water temperature cool down to 104F and reset by holding HEATER switch for 5 seconds, or until display returns to normal. If HILI message returns, call for service.

ICE

Plumbing temperature below 50°F

No action required. Pump will come on first, then heater second, if needed to heat to 60°F.

BLO

Blower inoperative

Call for service.

H1 or H2

Heater inoperative

Call for service.

HS1

Pump 1 High speed inoperative

Call for service.

HS2

Pump 2 High speed inoperative

Call for service.

LI

Light inoperative

Call for service.

LS1

Pump 1 low speed inoperative

Call for service.

LS2

Pump 2 low speed inoperative

Call for service.

O3

No light reading at ozonator

Call for service.

LS=0 or LS=S

Water temp. sensor malfunction

Call for service.

SS=0 or SS=S

High-limit sensor malfunction

Call for service.