

PHOENIX ELITE

ZLIT1230 10/20/03

SPECIAL OPERATING INSTRUCTIONS

THREE PUMP SYSTEM (2 water/1 air)

Total No. of Jets 38
No. of Water Jets 22
No. of Air Jets 16
Total Horsepower..... 5
Control System..... 2000D

LEGEND

All features not available on all models.

○ Air Jet	● Laser Jet	⊕ Pulsator Jet
⊖ Whirlpool Jet	● Shoulder Jet	⊕ Swirl Jet
⊕ Therapy Jet 1	● Therapy Jet 2	☀ Light
⊖ Therapy Control Valve	⊕ Ozone-ready Jet*	
⊕ Blower Control Valve	⊕ Suction Fitting	
⊕ Main Control Panel	* Ozone is optional	

ELECTRICAL REQUIREMENTS

240 V, 50 AMPS
3 WIRE (Line 1, Line 2, & ground)

PRIMARY PUMP

Operates WHIRLPOOL JET ⊖ and/or section 1.
By rotating outer ring of WHIRLPOOL JET ⊖, you can divert full power to water jets in section 1 or the WHIRLPOOL JET ⊖ (see spa illustration above). Or, if you wish, you can regulate the water pressure to the WHIRLPOOL JET ⊖ or section 1 jets by rotating the outer ring of WHIRLPOOL JET ⊖ until you find the therapy level you desire.

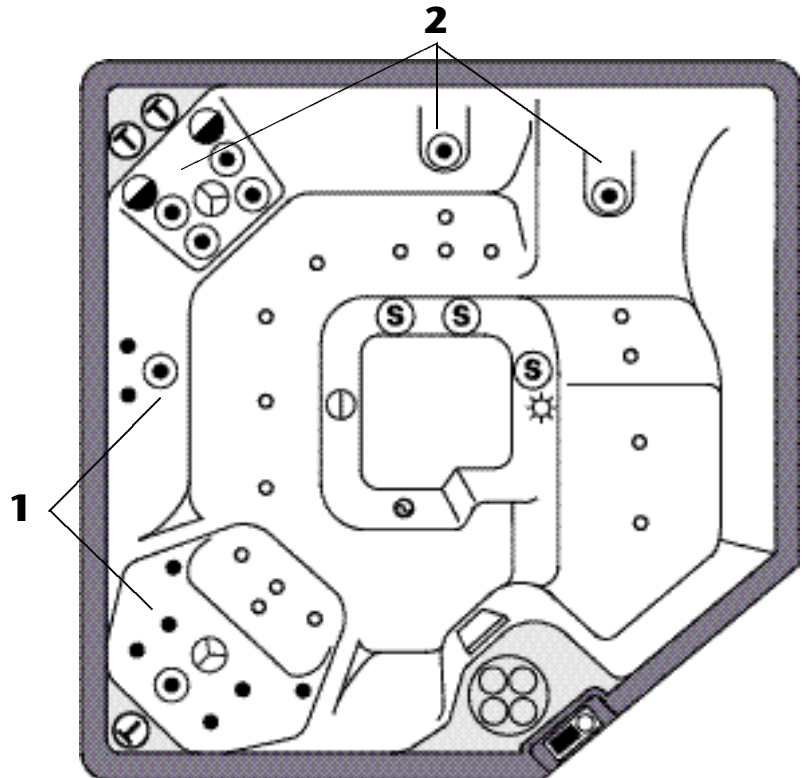
TO ACTIVATE THE PRIMARY WATER PUMP—

Press pump button on control panel. This will activate the primary pump to LOW SPEED. Pressing pump button a second time will turn your primary pump to HIGH SPEED. To TURN OFF, simply press pump button again.

SECONDARY PUMP

Operates water jets in section 2.
TO ACTIVATE THE SECONDARY WATER PUMP – Press pump button (2) on control panel. This will activate the secondary pump to HIGH SPEED.

To TURN OFF, simply press pump button (2) again.



AIR PUMP

To activate the air pump, simply press the blower button on the control panel. The air pump will provide stress-relieving bubbles to all the air jets.

THERAPY CONTROL VALVES

The THERAPY CONTROL VALVES ⊖ in your hot tub allow you to increase or decrease the intensity of the hot water therapy by providing control of the water and air mixture. Simply by rotating your THERAPY CONTROL VALVE ⊖ counterclockwise, you can increase the therapeutic action. To decrease the therapeutic action, rotate the THERAPY CONTROL VALVE ⊖ clockwise. THERMOSPAS provides a THERAPY CONTROL VALVE ⊖ usually within easy reach providing convenient, total control therapy. For maximum hot tub efficiency, be sure to close all THERAPY CONTROL VALVES ⊖ when you are finished using your hot tub.

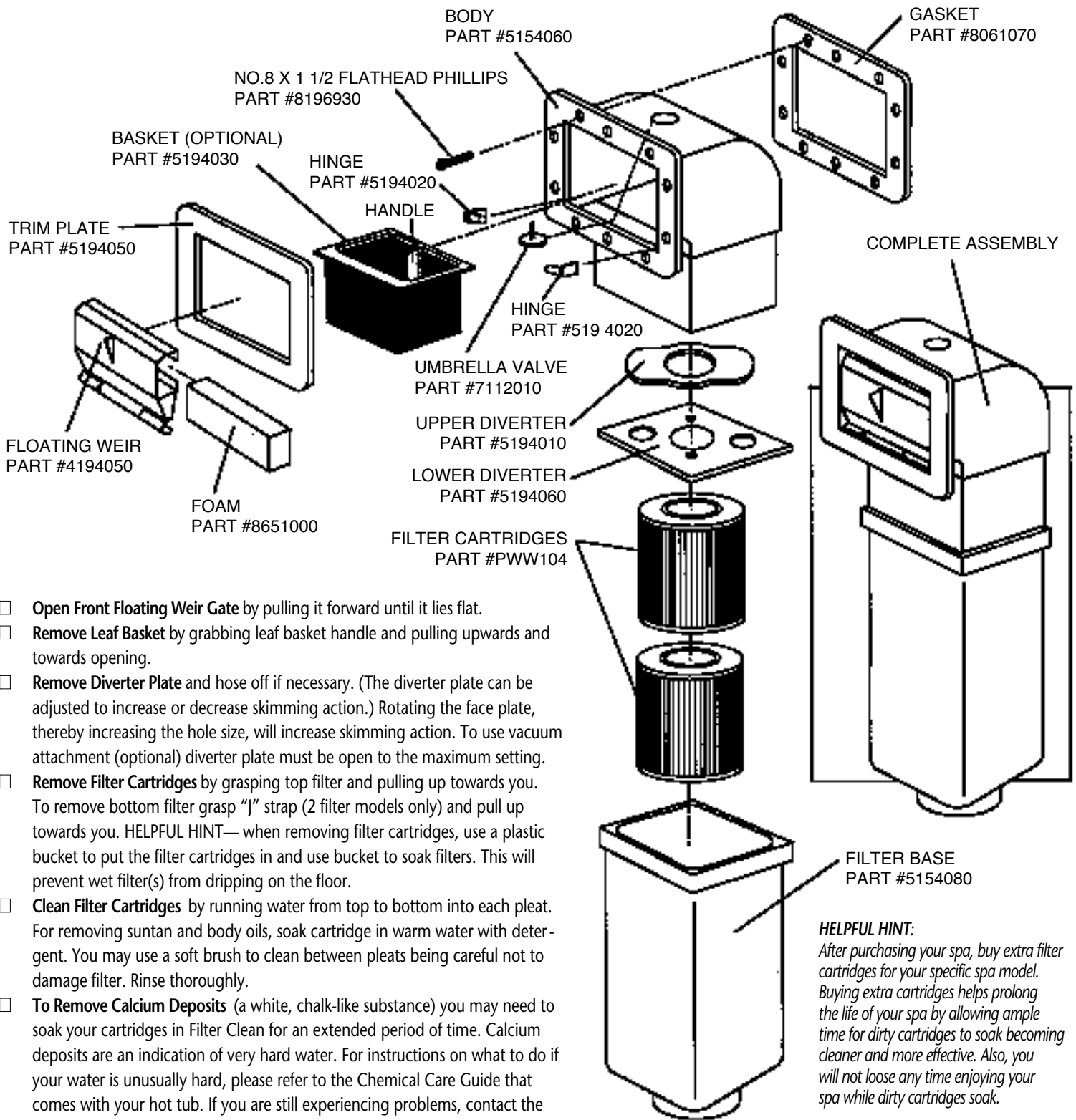
(OPTIONAL) BLOWER CONTROL VALVE

The optional BLOWER CONTROL VALVE ⊕ allows you to regulate the intensity of the air bubbles. Simply rotate your BLOWER CONTROL VALVE ⊕ to find your desired level of bubbles.

SKIM FILTER

SKM FIL-000830

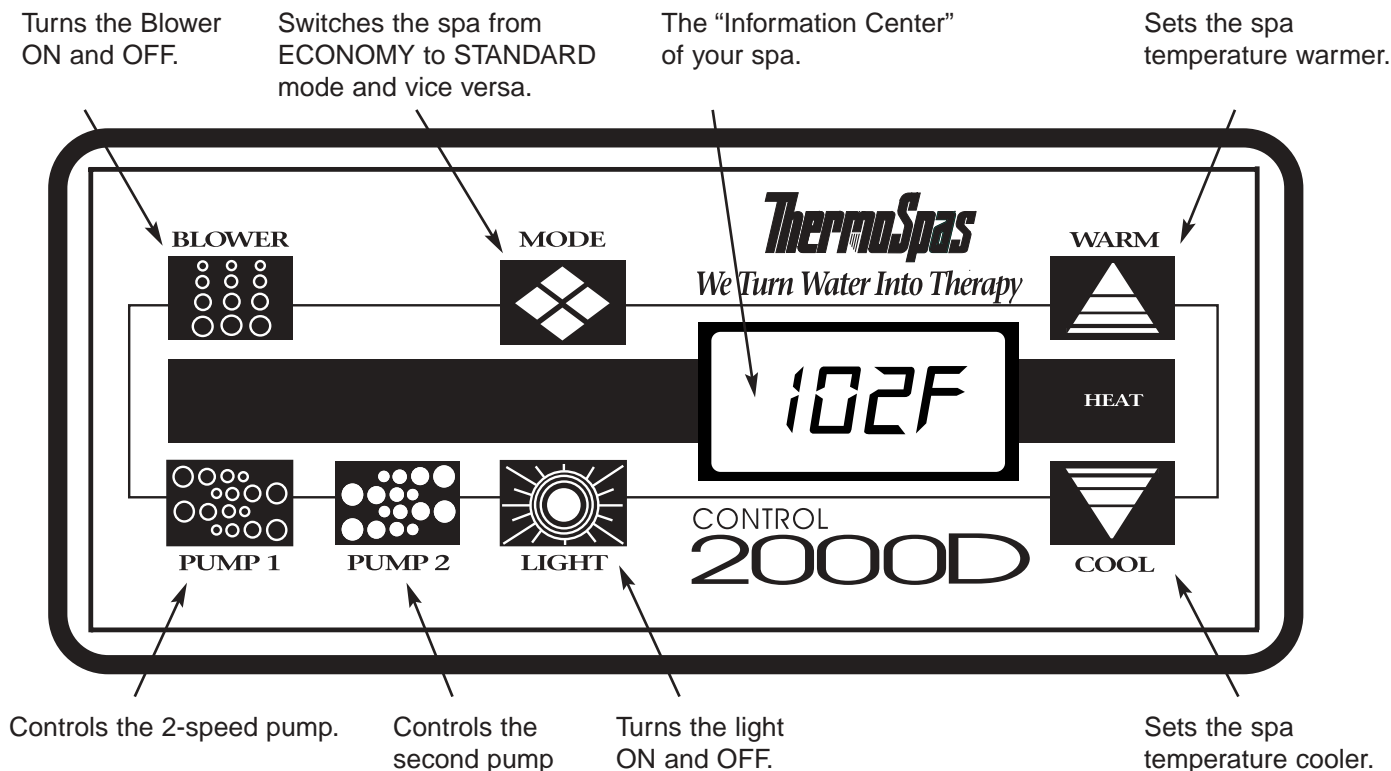
FILTER MAINTENANCE



- Open Front Floating Weir Gate** by pulling it forward until it lies flat.
- Remove Leaf Basket** by grabbing leaf basket handle and pulling upwards and towards opening.
- Remove Diverter Plate** and hose off if necessary. (The diverter plate can be adjusted to increase or decrease skimming action.) Rotating the face plate, thereby increasing the hole size, will increase skimming action. To use vacuum attachment (optional) diverter plate must be open to the maximum setting.
- Remove Filter Cartridges** by grasping top filter and pulling up towards you. To remove bottom filter grasp "J" strap (2 filter models only) and pull up towards you. **HELPFUL HINT**— when removing filter cartridges, use a plastic bucket to put the filter cartridges in and use bucket to soak filters. This will prevent wet filter(s) from dripping on the floor.
- Clean Filter Cartridges** by running water from top to bottom into each pleat. For removing suntan and body oils, soak cartridge in warm water with detergent. You may use a soft brush to clean between pleats being careful not to damage filter. Rinse thoroughly.
- To Remove Calcium Deposits** (a white, chalk-like substance) you may need to soak your cartridges in Filter Clean for an extended period of time. Calcium deposits are an indication of very hard water. For instructions on what to do if your water is unusually hard, please refer to the Chemical Care Guide that comes with your hot tub. If you are still experiencing problems, contact the ThermoSpas Customer Care Department at (800) 876-0158.
- Allow Filter Cartridges to Dry Completely** before reinstalling. To install filters, first insert "J" strap then install top filter making sure that the "J" strap comes up through the middle of the top filter. Install diverter plate by pressing down notch sides into center of top filter. Insert basket by aligning the flat of the basket with the basket locks. Press down and rotate clockwise.

HELPFUL HINT:
After purchasing your spa, buy extra filter cartridges for your specific spa model. Buying extra cartridges helps prolong the life of your spa by allowing ample time for dirty cartridges to soak becoming cleaner and more effective. Also, you will not loose any time enjoying your spa while dirty cartridges soak.

ThermoSpas
Hot Tubs • Chemicals • Service
185 EAST STREET • WELLSFORD, VT • 05682



Advanced microprocessor technology has been combined with solid state electronic switches to produce the Serial Standard Digital Control. Technologically sophisticated, yet very easy to understand and use, every spa function is conveniently located at your fingertips. A backlit, highly reliable liquid crystal display gives you the spa's temperature and important system messages any time of the day or night. Temperature setting, as well as control of the lights, jets, and blower are all instantly available from spa side. All this and more with the simple touch of a finger.

Your Serial Standard Digital Control has been constructed to give years of trouble-free service. Safety is assured through design concepts and materials which meet, or exceed, the most stringent requirements of recognized safety agencies. Field proven through years of testing and evaluation, every feature has been optimized for maximum utilization of your spa. Relax and enjoy your spa experience—you deserve the break!

Warning! Shock Hazard! No User Serviceable Parts!


Do not attempt service of this control. Contact your dealer or service organization for assistance. Follow all owner's manual power connection instructions. Installation must be performed by a licensed electrician and all GROUNDING connections must be properly installed.


Initial Start Up

Your spa control has been specifically designed so that by simply connecting the spa to its properly grounded source, the spa will function properly and safely and 100°F. When your spa is first actuated, the LCD will alternately flash "ECON", the current spa temperature, and "COOL" until the spa water is less than 15°F cooler than the set temperature. During each filter cycle, the spa will heat to the set temperature.

Your Serial Standard Digital Control consists of three main parts:

1. Control Pads—

Temperature
 The current temperature is constantly displayed on the LCD. When either pad is pressed, the set temperature will appear. (The set temperature is designated by a triangle.) Each time either pad is pressed again, the set temperature will increase or decrease depending upon which pad is pressed. After 3 seconds, the LCD will automatically display the current spa temperature.

Pumps
 Touch the PUMP 1 pad once to activate the low-speed pump. Touch again to start the high speed pump. Press the pad again to deactivate the pump. The low speed pump starts automatically when the heater is turned ON, when a filter is activated, or when a freezing condition is detected. If automatically activated, the low speed pump cannot be disabled from the front panel; however, the high speed pump may be started.

The low speed pump will automatically turn OFF after 2 hours. The high speed pump will turn OFF after 30 minutes.

Touch the PUMP 2 pad to operate the 1 or 2 speed second pump. The pump will automatically turn OFF after 30 minutes.



Blower

Activates or deactivates the BLOWER for aeration in the spa. The BLOWER will automatically cease after 30 minutes.



Light

Operates the HIGH, MEDIUM and LOW spa light settings. The light will automatically turn OFF after 4 hours.

2. Liquid Crystal Display—



Continually displays the spa temperature, as well as the various monitoring functions.

3. Mode Selection—



The spa may be switched from economy to standard and vice versa by pressing the “MODE” pad. When in economy mode, the display will alternately flash “ECON” with the current temperature, and maintain 20°F below the set temperature. When in standard mode, the spa will maintain the set temperature.

Temperature Lock and Panel Lock—

Press the WARM or COOL button, then press the MODE button to lock the temperature. The display will show LOCF alternately with the temperature. Press the WARM or COOL button, then press the LIGHT button to lock the panel. The display will show LOC alternately with the temperature. Press the WARM or COOL button, then press the MODE button to unlock the temperature or panel.

Preset Filter Cycles—

Your spa will automatically filter itself twice each day. The first filter cycle will begin one minute after the spa is energized. The second filter cycle will begin twelve hours after the start of the first filter cycle. The blower will activate for 30 seconds at the start of the first filter cycle to clean out the air channel. The low-speed pump will constantly run during the filter times (unless the high-speed pump is on) and the heater will be enabled. The filter duration is set by your dealer for 2 or 5 hours depending upon your use pattern. Contact your dealer if a different value is required.

NOTE: To properly clean and maintain your spa, filtering time of at least 4 hours per day (total of both cycles) is recommended.

WARNING

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instruction, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a class B computing device in accordance with the specifications in subpart J of part 15 of the FCC rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference, which can be determined by turning the equipment ON and OFF, the user is encouraged to try to correct the interference by one or more of the following measures: • Reorient the receiving antenna. • Relocate the receiver with respect to the spa. • Move the receiver away from the spa. • Plug the receiver into a different outlet so that the receiver and spa are on different branch circuits. • If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. • The user may find the following booklet prepared by the Federal Communications Commission helpful—“How to Identify and Resolve Radio-TV Interference Problems”. This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.



ECONOMY

The spa is in ECONOMY mode. “ECON” is flashed alternately with the current temperature and “COOL” until the spa water is less than 15°F cooler than the set temperature.



OVERHEAT PROTECTION

(Spa is deactivated)

If a malfunction occurs and the spa water reaches 112°F, the system will completely shut down. In such a condition, DO NOT ENTER THE WATER. Turn OFF all power to the spa and contact your dealer or service organization. Overheating may also occur if the filter duration is set too long at the time of the installation. If this happens, remove the spa cover and allow the spa to cool to below 110°F. Touch any pad to reset the system. If the water is still too hot, press the BLOWER pad.



FLASHING ALTERNATELY WITH TEMPERATURE

- 1— The filter may be plugged. Remove the filter and clean.
- 2— The amount of water flow may be inadequate. Make sure the spa is filled correctly.
- 3— A pressure switch may have malfunctioned. Contact your dealer or service organization.



CONSTANT

A pressure switch had malfunctioned. Contact your dealer or service organization.



TEMPERATURE SET BACK

The heater will activate to provide freeze protection when the spa water is more than 20°F cooler than the set temperature. This is a normal spa function.—no corrective action is necessary.



FREEZE PROTECTION

If a freeze condition is detected, the pumps are automatically activated. This is a normal spa function—no corrective action is necessary. Freeze protection is enabled regardless of the spa's status.



OPEN SENSOR (Spa is deactivated)

The high limit temperature sensor is non-functional. This must be repaired only by a dealer or service organization.



OPEN SENSOR (Spa is deactivated)

The main sensor is non-functional. This must be repaired only by a dealer or service organization.