

Sundance Spas

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Important Hot Tub Owner Information

Your Sundance hot tub is constructed to the highest standards and is capable of providing many years of trouble-free use. However, because heat retentive materials are utilized to insulate the hot tub for efficient operation, an uncovered hot tub surface directly exposed to sunlight and high temperatures for an extended period is subject to permanent damage. Damage caused by exposing the hot tub to this abuse is not covered by warranty. We recommend that you always keep the hot tub full of water when it is exposed to direct sunlight and that you keep the Sundance insulating cover in place at all times when the hot tub is not in use. Read and carefully follow the requirements for your hot tub's support base (found in the section titled, "Locating Your Sundance Hot Tub").

Sundance Spas constantly strives to offer the finest hot tubs available, therefore modifications and enhancements may be made which affect the specifications, illustrations and/or instructions contained herein.

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: I) Rearrange or relocate the receiving antenna. 2) Increase the separation between the equipment and receiver. 3) Connect the equipment into an outlet on a circuit different from the circuit connected. 4) Consult the dealer or an experienced radio/TV technician for help. (Changes or modifications not expressly approved by the party responsible for FCC compliance could void the user's authority to operate this equipment.)

IMPORTANT SAFETY INSTRUCTIONS: READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY

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

- WARNING: To reduce the risk of injury, do not permit children to use this
 product unless they are closely supervised at all times.
- 2) WARNING: A grounding wire connector is provided on this unit to connect a minimum No. 8AWG (8.4mm2) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5m) of the unit.
- 3) DANGER: Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use this hot tub unless they are supervised at all times.
- 4) DANGER: Risk of Injury. The suction fittings in this hot tub 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 hot tub 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) DANGER: Risk of Electric Shock. Install at least 5 feet (1.5m), from all metal surfaces. As an alternative, a hot tub may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum No. 8 AWG (8.4 mm2) solid copper conductor attached to the wire connector on the grounding lug, inside the equipment com-partment on the equipment box.
- DANGER: Risk of Electric Shock. Do not permit any electrical appliance, such as a light, telephone, radio, television, etc. within 5 feet of a hot tub.
- 7) ELECTRICAL SUPPLY: The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with section 422-20 of the National Electrical Code, ANSI/NFPA 70. The disconnect must be readily accessible and visible to the hot tub occupant but installed at least 5 feet (1.5m), from the hot tub water.

8) WARNING: To Reduce the Risk of Injury:

- a) The water in a hot tub should never exceed 104°F (40°C). Water temperatures between 100°F (38°C) and 104°F (40°C) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when hot tub use exceeds 10 minutes.
- 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 hot tub water temperatures to 100°F (38°C). If pregnant, please consult your physician before using a hot tub.
- c) Before entering the hot tub, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices may vary as much as +/- 5 F (2°C).
- d) The use of alcohol, drugs, or medication before or during hot tub use may lead to unconsciousness with the possibility of drowning.
- e) Persons suffering from obesity or a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a hot tub.
- f) Persons using medication should consult a physician before using a hot tub since some medication may induce drowsiness, while other medcation may affect heart rate, blood pressure, and circulation.

IMPORTANT SAFETY INSTRUCTIONS (CSA SAFETY INFORMATION)

When using this electrical equipment, basic safety precautions should always be followed, including the following:

a) READ AND FOLLOW ALL INSTRUCTIONS.

b) A green colored terminal or a terminal marked G, Gr, Ground, Grounding or the symbol* is located inside the supply terminal box or compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors that supply this equipment.

IEC Publication 417, Symbol 5019.

- c) At least two lugs marked "Bonding Lugs" are provided on the external surface or on the inside of the supply terminal box/compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the hot tub to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG.
- d) All field-installed metal components such as rails, ladders, drains or other similar hardware within 3m of the hot tub shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 6 AWG.

e) SAVE THESE INSTRUCTIONS.

WARNING: Children should not use hot tubs without adult supervision.

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

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

AVERTISSEMENT: NE PAS UTILISER LA CUVE DE RELAXATION SI LES GRILLES DE PRISE D'ASPIRATION NE SONT PAS TOUTES EN PLACE, POUR EVITER QUE LES CHEVEUX OU UNE PARTIE DU CORPS SOIENT ASPIRES

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

AVERTISSEMENT: LES PERSONNES ATTEINTES DE MALADIES INFEC-TIEUSES NE DEVRAIENT PAS UTILISER LA CUVE DE RELAXATION.

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

AVERTISSEMENT: POUR EVITER DES BLESSURES, SOYEZ PRUDENT EN ENTRANT ET SORTANT DE LA CUVE DE RELAXATION.

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

AVERTISSEMENT: POUR EVITER L'EVANOUISSEMENT ET LA NOYADE EVENTUELLE, NE PRENDRE NI DROGUE NI ALCOOL AVANT D'UTILISER LA CUVE DE RELAXATION NI QUAND ON S'Y TROUVE.

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

AVERTISSEMENT: LES FEMMES ENCEINTES, QUE LEUR GROSSESSE SOIT CONFIRMEE OU NON, DEVRAIENT CONSULTER UN MEDECIN AVANT D'UTILISER LA CUVE DE RELAXATION.

WARNING: Water temperature in excess of 38°C (104°F) may be injurious to your health.

AVERTISSEMENT: IL PEUT ETRE DANGEREUX POUR LA SANTE DE SE PLONGER DANS DE L'EAU A PLUS DE 38° C.

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

AVERTISSEMENT: AVANT D'UTILISER UNE CUVE DE RELAXATION MESURER LA TEMPERATURE DE L'EAU A L'AIDE D'UN THERMOMETRE PRECIS.

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

AVERTISSEMENT: NE PAS UTILISER LA CUVE DE RELAXATION IMMEDI-ATEMENT APRES UN EXERCICE FATIGANT.

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

AVERTISSEMENT: RESTER TROP LONGTEMPS DANS LA CUVE DE RELAX-ATION PEUT ETRE DANGEREUX POUR LA SANTE.

WARNING: Do not permit electric appliances (such as light, telephone, radio, television, etc.) within 1.5m (5 feet) of this hot tub.

AVERTISSEMENT: NE PAS PLACER D'APPAREIL ELECTRIQUE (LUMINAIR, TELEPHONE, RADIO, TELEVISEUR, ETC.) A MOINS DE 1.5M DE LA CUVE DE RELAXATION.

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

ATTENTION: LA TENEUR DE L'EAU EN MATIERES DISSOUTES DOIT ETRE CONFORME AUX DIRECTIVES DU FABRICANT.

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

AVERTISSEMENT: LA CONSOMMATION D'ALCOOL OU DE DROGUE AUG-MENTE CONSIDERABLEMENT LES RISQUES D'HYPERTHERMIE MORTELLE DANS UNE CUVE DE RELAXATION.

SAVE THESE INSTRUCTIONS HYPERTHERMIA

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

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

- a) Unawareness of impending hazard:
- b) Failure to perceive heat;
- c) Failure to recognize the need to exit hot tub;
- d) Physical inability to exit hot tub;
- e) Fetal damage in pregnant women; and
- f) Unconsciousness and danger of drowning.

Cautions

- Persons suffering from heart disease, diabetes, high or low blood pressure, and any condition requiring medical treatment, pregnant women, the elderly, or infants should consult with a physician before using a hot tub.
- The Consumer Products Safety Commission has stated that the water temperature in a hot tub should not exceed 104°F (40°C). Immersion in water in excess of 104°F (40°C) can be hazardous to your health.
- Observe a reasonable time limit when using the hot tub. Long exposures
 at higher temperatures can cause high body temperature. Symptoms may
 include dizziness, nausea, fainting, drowsiness, and reduced awareness.
 These effects could possibly result in drowning.
- Do not use the hot tub under the influence of alcohol, narcotics, or other drugs. Use of the hot tub under these conditions may lead to serious consquences.
- Always test the hot tub water temperature before entering the hot tub. Enter and exit the hot tub slowly. Wet surfaces can be very slippery.
- Never bring any electrical appliances into or near the hot tub. Never operate any electrical appliances from inside the hot tub or when you are wet.
- 7. Proper chemical maintenance of hot tub water is necessary to maintain safe water and prevent possible damage to hot tub components.
- 8. Use the straps and clip tie downs to secure the cover when not in use. This will help to discourage unsupervised children from entering the hot tub and keep the hot tub cover secure in high-wind conditions. There is no representation that the cover, clip tie-downs, or actual locks will prevent access to the hot tub.

Locating Your Sundance Hot tub

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

We recommend a poured, reinforced concrete slab (minimum of 4 inches thick). Wood decking is also acceptable provided it is constructed so that it meets the requirements outlined above.

The hot tub must be installed in such a manner as to provide drainage away from the hot tub. Placing the hot tub in a depression without provisions for proper drainage could allow rain, overflow and other casual water to flood the equipment and create a wet condition in which it would sit.

For hot tubs which will be recessed into a floor or deck, install so as to permit access to the equipment, either from above or below, for servicing. Make certain that there are no obstructions which would prevent removal of the cabinet side panels, especially on the side with the equipment bay doors.

In selecting the ideal *outdoor* location for your hot tub, we suggest that you take into consideration 1) the proximity to change area and shelter (especially in colder weather); 2) the pathway to and from your hot tub (this should be free of debris so that dirt and leaves are not easily tracked into the hot tub); 3) the closeness to trees and shrubbery (remember that leaves and birds could create extra work in keeping the hot tub clean); 4) a sheltered environment (less wind and weather exposure can result in lowered operation and maintenance costs); and 5) the overall enhancement of your environment. It is preferable *not* to place the hot tub under an unguttered roof overhang since run-off water will shorten the life expectancy of the hot tub cover.

For *indoor* installations, be certain to make provisions for proper ventilation. When the hot tub is in use, considerable amounts of moisture will escape. This can damage certain surfaces over time.

If you have any questions regarding the placement or installation of your hot tub consult your authorized Sundance Dealer.

General Electrical Safety Instructions

Your new Sundance hot tub is equipped with the "state-of-the-art" SentryTM equipment system. It contains the most advanced safety and self-protective equipment in the industry. Nonetheless, this hot tub must be installed properly to insure dependable usage. Please contact your dealer or local building department should you have any questions regarding your installation.

Proper grounding is extremely important. Sundance hot tubs are equipped with a current collector system. A pressure wire connector is provided on the surface of the control box, located inside the equipment door (See III. 2, item 2) to permit connection of a bonding wire between this point and any ground metal equipment, metal water pipe or conduit within 5 feet (1.5m) of the hot tub, or copper clad grounding rod buried within 5 feet (1.5m) of the hot tub. Bonding wire must be at least No. 8 AWG (8.4 mm2) solid copper wire. This is a most important safety assurance feature.

Before installing this hot tub, check with the local building department to insure installation conforms to local building codes.

III. No. 1 **Equipment Area** 1. 6 2 5 6. 1. Sentry Control Box Air Blower 2. **Power Supply Entrance** 7. Pump Drain Plug(s) 3. 8. Pump #2 Pump 4. Heater (N/A Capri) 5. Hot tub Drain 9. Circulation Pump III. No. 1.2 **Terminal Block** 240V Wire Connection **TB 3 BLACK** RED **GREEN** 3 III. No. 2 **Sentry Control Box**

3. Receptacle for Ozone Purification System

4. Grounding Terminal

1. Terminal Block

2. Bonding Lug

Electrical Installation Instructions For Connection to 240V Service

IMPORTANT NOTICE: The electrical wiring of this hot tub must meet the requirements of the National Electrical Code (NEC) and any applicable state or local codes. The electrical circuit must be installed by a qualified electrician and approved by a local building/electrical inspection authority.

- This hot tub must be permanently connected (hard-wired) to the power supply. No plug-in connections or extension cords are to be used in conjunction with the operation of this hot tub. Supplying power to the hot tub which is not in accordance with these instructions will void both the independent testing agency listing and the manufacturer's warranty.
- 2. The power supplied to this hot tub *must* be a *dedicated* circuit with no other appliances or lights sharing the power provided by the circuit.
- 3. To determine the current, voltage and wire size required, refer to the power supply table on page 12.
 - Wire size must be appropriate per NEC and/or local codes.
 - We recommend type THHN wire.
 - All wiring must be copper to ensure proper connections. Do not use aluminum wire.
 - When using wire larger than #6, add a junction box near the hot tub and reduce to short lengths of #6 wire to connect to the hot tub.
- 4. The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with Section 422-20 of the National Electrical Code, ANSI/NFPA 70. The disconnecting means must be readily accessible to the hot tub's occupant but installed at least 5 feet (1.5m) from hot tub water.
- The electrical circuit supplied for the hot tub must include a suitable ground fault circuit interruptor (GFCI) as required by NEC Article 680-42.
- To gain access to the hot tub's power terminal block, remove the four screws securing the center cabinet panel on the side of the hot tub under the controls. Then open the door to the control box. (III. No. 1, item 1).
- 7. Select the power supply inlet you want to use (III. No. 1, item 2) and remove the short cabinet panel from the front of the hot tub to allow you to feed the cable through to the control box. Install the cable with connector through the large opening provided in the bottom of the control box.
- Connect wires, color to color, on terminal blocks TB1 and TB3 (III. 1.2).
 TIGHTEN SECURELY! All wires must be hooked up or damage could result.
- 9. Close the control box door and reinstall the cabinet side panels.

Table No. 1 POWER SUPPLY OPTIONS AND REQUIREMENTS

Sundance hot tubs are designed to provide optimum performance and flexibility of use when connected to the maximum electrical service as listed below. However, they are shipped configured for the most commonly preferred electrical connection – 50A, 240V

If you prefer, your Sundance dealer can perform a minor circuit board modification to allow the hot tub to accept different electrical service. The operational considerations of these modifications are listed in the footnotes below.

CAMEO, OPTIMA, MARIN and ALTAMAR MODELS

	240V/30A **	240V/50A *	240V/60A
Voltage	240 volts	240 volts	240 volts
Current Draw	24 amps	40 amps	48 amps
Number of Wires	Three	Three	Three
Circuit Breaker	30 amp dual pole	50 amp dual pole	60 amp dual pole

CAPRI

	240V/30A **	240V/50A
Voltage	240 volts	240 volts
Current Draw	24 amps	40 amps
Number of Wires	Three	Three
Circuit Breaker	30 amp dual pole	50 amp dual pole

^{*} In 50A configuration, the heater will not operate while both pumps are operating at high speed.

^{**} In 30A configuration, the heater will not operate at the same time as the high speed of either pump or the air blower.

Start Up Instructions - 850 Models CAMEO, OPTIMA, ALTAMAR, MARIN and CAPRI

FOR BEST RESULTS, READ EACH STEP IN ITS ENTIRETY BEFORE PRO-CEEDING WITH THAT STEP.

1. PREPARE THE HOT TUB FOR FILLING

- Clear all debris from the hot tub. (Although the hot tub shell has been polished at the factory, you may want to treat it with a specially formulated hot tub cleaner and wax available from your dealer prior to filling the first time.)
- Remove the filter lid (III. 3, item 3), then remove the filter cartridge by loosening the retainer nut on the pipe at one end of the filter and sliding the filter toward the nut until the other end is free. Lift the filter out as you pull it away from the filter pipe.

2. FILL THE HOT TUB

 Place the end of your garden hose into the pipe exposed when you removed the filter cartridge.

NOTE: Never fill with water from a water softener. If your water is extremely "hard", it is preferable to fill half-way with hard water and the rest of the way with softened water. Or, you may fill entirely with hard water if you use a special water additive available from your Sundance dealer.

 Fill the hot tub until the water level is midway in the skimmer opening and above all jets.

Important: Always fill your hot tub through the filter pipe after draining. Failure to do so may cause air to be trapped in the pump, preventing the pump from circulating water.

 Remove the hose and replace the filter cartridge by sliding it back onto the pipe then securing one of the protruding tabs on the other end under the retainer bracket. Tighten the retainer nut only until it is snug, do not over tighten.

3. TURN ON THE POWER

Turn on the power to the hot tub at the home's circuit breaker. The heater and the pump's low speed automatically activate and the LED display on the control panel flashes the water temperature and "COOL" (Pg. 29).

4. ACTIVATE JETS

Depress the **JETS** sensor pad on the control panel twice to activate the pump's high speed and initiate maximum water flow to certain jets.

5 ADD START-UP CHEMICALS

Add the hot tub water chemicals as recommended by your Sundance Dealer. (See the section titled WATER QUALITY MAINTENANCE for general guidance.)

6. SET HOT TUB TO HEAT

To warm the hot tub water up to a comfortable temperature, follow these steps:

- The LCD display on the control panel displays the actual temperature of the hot tub water. Press either the COOLER (Down) or WARMER (Up) sensor pad to display the "set" temperature for 5 seconds. If you want the water to heat to a different temperature, simply press COOLER or WARMER within 5 seconds. The set temperature advances or decreases by one degree each time one of these sensor pads is pressed.
- The heater will turn off when the temperature corresponding to the thermostat setting is achieved.

NOTE:

- The maximum temperature for which the hot tub can be set is 104°F (40°C) and the minimum is 80°F. (27°C)
- Setting the thermostat at maximum will not accelerate the heating process.
 This will only result in a higher ultimate temperature.
- If hot tub is hooked up to 30 amps turn off high speed pump and blower to operate heater.

7. PLACE COVER ON HOT TUB

- Keeping the insulating cover in place anytime the hot tub is not in use will reduce the time required for heating, thereby minimizing operating costs.
- The time required for initial heat-up will vary depending on the starting water temperature and the capacity of your hot tub. Smaller hot tubs heat at a rate of approximately 8 to 10 degrees per hour; larger hot tubs heat at about 4 to 6 degrees per hour.

DANGER. RISK OF INJURY. Always check water temperature carefully before entering hot tub.

Operating Instructions - 850 Models

Your Sundance hot tub has a touch-sensitive control panel, Massage Selector valves and air control knobs located on the top rim of the hot tub (See III. 3, item 2). These controls let you operate many of the special functions of your Sundance hot tub. By familiarizing yourself with the following information, you will be able to gain the full benefit afforded by the various functions of your hot tub.

VIEW

Pressing the sensor pad labeled **VIEW** inverts the main four-digit display on the Command Center's LCD screen to allow easy reading from either inside or outside the hot tub.

LIGHT

The **LIGHT** sensor pad activates both the underwater light and the light symbol on the LCD screen when touched. To reduce the brightness of the light, touch the sensor pad again. A third touch will result in an even lower level of illumination. A fourth touch turns the light off. If left on, the light will automatically turn off after one hour.

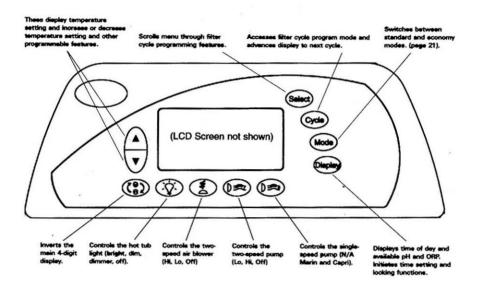
There are two colored lenses included with your hot tub which may be placed over the light lens inside the hot tub. To remove a lens, pull straight out. To install a lens, align tabs and push straight in. Your hot tub comes with clear lens installed.

AIR INJECTION

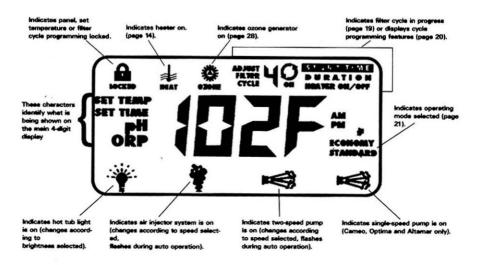
When the **AIR** sensor pad is pressed, the air blower forces air through the injectors located in the seats and footwell. When it is pressed a second time, the power of the air blower is reduced by one-third. The bubbles symbol above the sensor pad appears whenever the air blower is on. An electronic timer automatically turns the air blower off 20 minutes after it was turned on.

The air blower automatically activates for 1 minute at the start of Clean Up cycle. This clears the lines of the air injector system to help ensure that all water is exposed to sanitizer.

III. No. 2.1 COMMAND CENTER



III. No. 2.2 LCD SCREEN

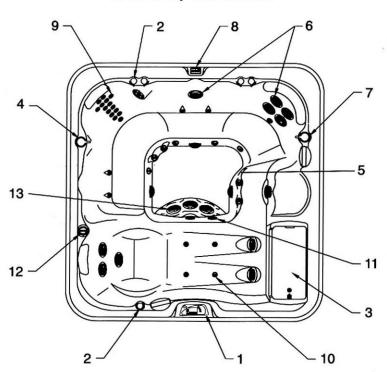


JETS

The sensor pad labeled **JETS** controls the dual-speed pump. Pressing this sensor cycles the pump from off, to low speed, to high speed, and back to off.

JETS 2 — On models with two jet pumps, **JETS 2** controls the single-speed pump.

Auto Turn Off — Anytime a pump has been manually turned on, it will automatically turn off after approximately 20 minutes. If at this time you desire more jet operation you may simply turn the pump(s) back on.



III. No. 3 Top View Hot tub

- 1. Control Panel
- 2. Air Controls
- 3. Filter
- 4. Massage Selector Valve #1
- Whirlpool Jets (N/A Capri)
- 6. Therapy Jets (Intelli-Jets)
- Massage Selector Valve #2 (N/A Capri)
- Auxiliary Control Panel (Cameo, Optima and Altamar Only)
- 9. Therapy Seat
- 10. Air Injectors
- 11. Hot tub Light
- 12. Fragrance Dispenser
- 13. Vertical Jets

(Location of features varies by model)

SELECTING THE DESIRED MASSAGE ACTION

Your Sundance hot tub is equipped to allow you to customize the massage action you desire.

Customizing the Massage

Most Sundance Models incorporate Massage Selectors which allow you to customize the massage and performance by diverting water between various jet systems.

In the Optima, Cameo and Marin, one Massage Selector controls the therapy jets and whirlpool jets. The other Massage Selector controls the therapy seat jets and vertical jets.

In the Altamar, the Massage Selector on the 1-speed pump system diverts between the therapy seat and the whirlpool jets (in the footwell and on the side wall). The 2-speed pump system powers the therapy jets in the lounge and seats of the hot tub.

Adjusting Individual Jet Flow

The water flow to the individual jets in your hot tub can be increased or decreased by rotating the outside face of the jet. (leave at least 6 jets open at all times)

ADJUSTING THE INTELLIJETS

With the nozzles of the Intelli-Jets positioned straight ahead, the jet stream will be stationary. Pushing the nozzle to one side causes the jet nozzle to rotate, moving the jet stream in a circular pattern. The speed of the rotation can be adjusted by grasping the base of the nozzle and rotating the tip.

AIR CONTROLS

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

FRAGRANCE DISPENSER

On the rim of your hot tub is a screw-off cap labeled "SunScents Dispenser" (Ill. 3, item 12). It is designed to contain packages of a specially made fragrance available from your Sundance dealer. The fragrance is carried into the hot tub water by the air coming through the injector system when the air blower is on.

IMPORTANT: Do not use this dispenser for any other type of fragrance. Always make certain that the dispenser cap is securely in place before operating the hot tub's air blower.

Automatic Filtration Cycles

FILTRATION CYCLES

Your hot tub's control system activates automatic filter cycles, during which the low speed of the hot tub's primary jet pump turns on to move water through the filter. This water movement also provides important skimming action to remove debris and suspensions from the water's surface, minimizing the "bathtub ring" effect. These filter cycles are only active when the hot tub is in the 'Standard Mode'.

When an automatic filter cycle activates, the LCD screen displays the following message:

FILTER CYCLE

ON

NOTE: After a long filter cycle, you may notice that the water temperature is greater than the temperature setting. This can happen in such a well insulated hot tub because, even though the heater turns off as intended, the transference of heat from the pump continues to add warmth to the water. If the water temperature is above 95°F (35°C) and two degrees above your set temperature, the circulation pump (and ozone generator, if equipped) will shut off until the water temperature cools to equal the set temperature.

Pre-Set Filter Cycles

Your hot tub comes with four 30-minute filter cycles already programmed in, beginning at 6:00 a.m., noon, 6:00 p.m. and midnight. You can easily change the start time, or the cycle length for any of these cycles to suit your individual needs by following the steps in the next section.

Clean Up Cycle:

Clean up cycle is once per day in both Standard and Economy mode at 12:00 PM for two minutes. This is not user programmable. Pump 2 and Blower activate for one minute to circulate any water in the plumbing. After 1 minute they both go off and Pump 1 runs for 1 minute. If the filter cycle is also set at 12:00 PM pump 1 will continue to run for the duration of the filter cycle.

Programming Instructions

ADJUSTING THE TIME OF DAY

The Sentry control system remembers the time of day even in the event of a prolonged power outage. However, it may occasionally be necessary to re-set the time of day. For example: if you are not in the Pacific Time Zone you will want to reset the time for your own time zone. (The system will automatically adjust to and from daylight savings time.)

To accomplish this, press **DISPLAY, MODE** and **DISPLAY** within five seconds each. A number representing the hour will be displayed, followed by **AM** or **PM**. The hour will advance or decrease each time **UP** or **DOWN** is pressed within five seconds. Then, press **DISPLAY** again to display the minutes. Adjust the minutes as necessary by pressing **UP** or **DOWN**. After 5 seconds, the display will return to normal.

CHANGING THE FILTER CYCLES

The Sentry Control System allows you to easily adjust two separate aspects of each of the filtration cycles (1) the time of day at which each cycle begins, (2) the duration of each cycle.

To make adjustments, first press **CYCLE** to enter the filter cycle programming mode. The LCD screen will display the following in the upper right corner:

ADJUST FILTER CYCLE

START TIME

This means the system is ready to accept your changes to the start time for filter cycle number one. Simultaneously, the large four-digit display in the center of the screen displays the currently programmed start time for that filtration cycle.

At this point, you have four options. You may:

- (1) Press UP or DOWN to adjust the start time in increments of 30 minutes.
- (2) Press **CYCLE** to progress to adjusting each subsequent filter cycle. With each press, the currently programmed status will be shown in the large four digit display. To adjust any of the programming, simply press **UP** or **DOWN**.
- (3) Press **SELECT** to move down the menu from Start Time to Duration. With each press, the currently programmed status will be shown in the large four-digit display. Press **UP** or **DOWN** to adjust the duration in increments of 15 minutes.
- (4) Press **DISPLAY** to make the filter cycle programming characters disappear from the screen and the main display return to showing the water temperature. If no sensor is pressed within 30 seconds, the screen automatically returns to normal display.

At any time, you may check the programming of any aspect of any filter cycle by first pressing **CYCLE** then moving through the menu by pressing either **CYCLE** or **SELECT.** The programming is changed only by pressing **UP** or **DOWN** during this process.

Programmable Operation Time for Circulation Pump

The Sentry control system allows you to easily adjust two separate aspects of Circulation Pump operation.

- 1. The time of day at which the Circulation Pump begins operating.
- 2. The duration of the Circulation Pump on time.

The factory default start time is 12:00AM. The default duration is 24 hours. To make adjustments, press the sensor labeled **CYCLE** <u>five times</u> to enter the Circulation Pump programming mode. The LCD screen will display

ADJUST Circ

At this time the system is ready to accept your changes. Press the **SELECT** sensor once. The previously programmed start time appears on the LCD display.

- Press UP or DOWN sensors to adjust the start time in 30-minute increments.
- Press the SELECT sensor to program duration.
- Press UP or DOWN sensors to program the duration time in 2 hour increments.
- Press DISPLAY to make the Circulation pump programming characters disappear from the screen and the main display return to showing the water temperature. If no sensor is pressed within 30 seconds, the screen will automatically return to normal display

<u>Please Note:</u> The Circulation pump automatically activates if the sparequires heat regardless of the programmed time.

LOCKING THE FILTER CYCLES

You may keep the filter cycle programs from being inadvertently altered by electronically "locking" them. To accomplish this, simply press **CYCLE** then, within 30 seconds, press **DISPLAY, MODE** and **UP,** within five seconds each. A padlock symbol will appear on the screen. In this state, the status of the cycle programming may be checked, but may not be altered.

To unlock the filter cycle programming to make changes, simply press **DIS-PLAY, MODE** and **DOWN** within five seconds each.

CHOOSING THE "STANDARD" OR "ECONOMY" MODE

Pressing **MODE** switches your hot tub between the "standard" and "economy" operating modes. The mode currently selected is displayed on the right

side of the LCD screen. By selecting the appropriate operating mode, you can ensure that your hot tub will be ready to use when you want it with the lowest possible energy consumption.

Standard/Economy Mode

In these standard/economy modes, the hot tub water temperature will always be held at the set temperature. The heater will turn on as needed to maintain the hot tub water temperature you have set with the temperature control. When the desired temperature has been achieved, the heater will turn off. In addition, when in the "standard" mode, the filter cycles will operate the low speed pump as programmed to provide skimming action and additional filtration. In the economy mode: filter cycles are turned off.

PANEL LOCK

To help prevent unauthorized use of your hot tub, the Sentry controls incorporate a unique panel locking system which disables the controls on the panel.

To Lock The Panel:

Press the **DISPLAY, MODE**, and **UP** sensor pads, in order, within five seconds. A padlock symbol will appear on the LCD screen.

With the panel locked, none of the components can be turned on and the only settings that can be adjusted are the standard/economy operating mode and changing the time of day.

All automatic hot tub functions will operate normally.

To Unlock The Panel:

Press **DISPLAY, MODE,** and **DOWN**, in order, within five seconds. The "lock" symbol will disappear. All sensor pads are now active.

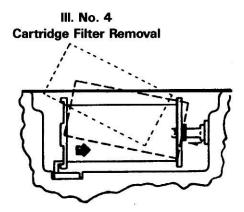
TEMPERATURE SETTING LOCK

To electronically lock the temperature setting, first enter the "temperature setting" mode by pressing **UP** or **DOWN**. Then, within five seconds, press the three sensors described under "Panel Lock" above. This will prevent the temperature setting from being changed by unauthorized persons but all other sensors will remain active.

To unlock the temperature setting so that it can be adjusted, simply follow the instructions above under "To Unlock the Panel."

Hot tub Maintenance

Proper and regular maintenance of your hot tub will help it retain its beauty and performance. Your authorized Sundance Dealer can supply you with all the information, supplies and accessory products you will need to accomplish this.



CLEANING THE FILTER

Your Sundance hot tub is equipped with a cartridge filter located in the skimmer/filter well (III. No. 3, item 3). Filtering is accomplished when the dual-speed pump, on either high or low speed, causes water to flow through the polyester mesh of the filter. As this happens, suspended particles become trapped on the filter's surface (III. No. 4).

To ensure optimum performance, it is necessary to remove and clean the filter cartridge, usually once a week, depending on usage and water quality. To accomplish this, follow these steps:

- 1. Turn off power to the hot tub at the home's breaker panel.
- 2. Remove the filter lid (III. No. 3, item 3).
- 3. Remove the filter cartridge by loosening the retainer nut on the pipe at one end of the filter and sliding the filter toward the nut until the other end is free of the retainer bracket. Lift the filter out as you pull it away from the filter pipe.
- 4. Using a garden hose with a high-pressure nozzle, rinse debris from the filter pleats beginning at the top and working your way downward. Continue, one section at a time, until you have rinsed all of the filter's pleats.

Periodically, the filter cartridge will need a more thorough cleaning to remove imbedded oils and minerals. For this, we suggest cleaning as above and then

soaking the cartridge overnight in a plastic container filled with a solution of water and a specially formulated filter cleanser available from your Sundance dealer.

Replace the filter cartridge by sliding it back onto the pipe then securing one of the protruding tabs on the other end under the retainer bracket. Tighten the retainer nut only until it is snug – **do not over tighten**.

The average life expectancy of a Sundance filter cartridge is approximately two years with proper care and water quality maintenance. A replacement cartridge may be purchased from your Sundance Dealer.

DRAINING and REFILLING

About every 3 to 6 months, you will want to replace the hot tub's water. The frequency depends on a number of variables including the amount of use, attention paid to water quality maintenance, etc. You will know it is time for a change when you cannot control sudsing and/or you can no longer get the normal feel or sparkle to the water even though the key water balance measurements are all within the proper parameters.

WARNING! READ THIS BEFORE DRAINING: To prevent damage to the hot tub's components, **turn off power to the hot tub at the circuit breaker before draining it.** Do not turn the power back on until your hot tub has been refilled.

CAUTION: There are certain precautions to keep in mind when draining your hot tub. If it is extremely cold, and the hot tub is outdoors, freezing could occur in the lines or the equipment (see "WINTERIZING", page 35). On the other hand, if it is hot outdoors, do not leave the hot tub's surface exposed to direct sunlight for long periods.

To drain your hot tub using the drain port provided, **first turn off the power** to the hot tub at the circuit breaker. Then remove the center panel from the side of the cabinet under the control panel. The drain port is secured to the base inside the door and features a white "T" handle (III. No. 1, item 5). To attach a garden hose, replace the fitting screwed into the end of the drain port with the fitting provided with your hot tub (in the plastic bag with your colored lenses). For faster draining, a special, large-diameter drain hose is available from your Sundance dealer.

Once the hose is connected and the end placed where you want the water to drain, open the valve by pulling the "T" handle outward from the pipe.

After draining, always remember to close the "T" handle valve and reinstall the threaded plug (to prevent water from seeping past the valve) prior to refilling. After refilling, turn on power to the hot tub and follow the steps listed under "Start Up Instructions".

CLEANING THE INTERIOR OF THE HOT TUB

To preserve the sheen of your hot tub's surface, it is crucial that you avoid using abrasive cleaners or cleaners which have adverse chemical effect on the surface. If you are not certain as to the suitability of a particular cleanser, consult your authorized Sundance Dealer.

Regardless of the cleanser used, use extreme care to assure that no soap residue is left on the surface. This could cause severe sudsing when the hot tub is refilled.

Your Sundance Dealer offers a specially formulated surface sealant which aids in cleaning the hot tub surface and adds a protective coating to enhance the luster of the surface. This product should also be occasionally applied to the stainless steel grab rails and accents in the hot tub to help preserve their appearance.

PILLOW CARE

Remove and clean the headrest pillows regularly with soapy water using a cloth or soft-bristle brush. To maintain water resistance and luster, apply a quality vinyl conditioner once a month.

Always remove the pillows when adding chemical shock treatment to the hot tub water. The pillows can be returned to the hot tub when the sanitizer reading drops below 5 ppm.

IMPORTANT: When removing pillows equipped with suction cups, always slide them upwards until the suction cups release from the hot tub's surface. Never pull the pillows straight out from the hot tub as this will likely cause the suction cups to permanently separate from the pillow.

(Pillow damage or deterioration caused by improper care is not covered by the hot tub's warranty.)

MAINTAINING THE WOOD CABINET

With time and exposure to the elements, the wood on your hot tub will tend to lose its new appearance. Protecting or reviving the wood surfaces is a fairly simple process. Light sanding with fine-grit sandpaper will help smooth any roughness and regular applications of a penetrating wood preservative will enhance and protect the richness of the wood. A specially formulated wood stain available from your Sundance dealer is ideal for this.

NOTE: Do not apply varnish, shellac or other surface sealants to the wood. These tend to react with the chemicals in the wood and the UV rays of the sun, causing yellowing, flaking and peeling.

MAINTAINING THE COVER

Using the Sundance insulating hot tub cover anytime the hot tub is not in use will significantly reduce your operating costs, heat-up time and maintenance requirements. To prolong the life of the cover, handle it with care and clean it regularly using mild soap and water. Periodic treatments with a special conditioner developed for Sundance hot tub covers will help protect against deterioration caused by U.V. rays from the sun. Never allow anyone to stand or sit on the cover, and avoid dragging it across rough surfaces.

WINTERIZING

Your Sundance hot tub is designed to automatically protect itself against freezing when operating properly. During periods of severe freezing temperatures, you should check periodically to be certain that the electrical supply to the hot tub has not been interrupted. In extreme, bitter cold weather (less than -20°F) reset the filter cycles for 24-hour operation to protect the hot tub (i.e. four 6-hour cycles).

If you do not intend to use your hot tub, or if there is a prolonged power outage during periods of severe freezing temperatures, it is important that all water be removed from the hot tub and equipment to protect against damage from freezing.

For expert winterization of your hot tub, contact your authorized Sundance Dealer. In emergency situations, damage can be minimized by taking the following steps:

- 1. Follow the directions on page 33 for draining the hot tub.
- As the water level drops below the seats, use whatever means necessary to get the water out of the recessed seating areas and into the footwell.
- When the water level ceases to drop, use whatever means available to remove any remaining water from the footwell
- 4. Turn the power to the hot tub back on briefly and press the AIR button to activate the air blower. This will evacuate the water from the air injector lines. (Note: Stand back to avoid the misty spray.)
- 5. Turn off power to the hot tub.
- 6. Remove the equipment-side cabinet panels and locate the drain plugs in the front of the pump(s) (see III. No.1, item 7). Remove these plugs to allow the water to drain out of the pumps and heater. (Note: Approximately one to two gallons will be released during this procedure. Use a wet/dry vacuum or other means to keep this from flooding the equipment compartment.) Replace the drain plugs.

- 7. Loosen the hose clamp at the bottom of the heater (III. No.1, item 4) and pull this hose off of the heater fitting (twist the hose back and forth while pulling downward). Tip the hose down and allow to drain.
- 8. Re-install the cabinet side panels and cover the hot tub so that no casual moisture can enter the hot tub.

Consult your Authorized Sundance Dealer if you have any questions regarding winter use or winterizing.

RE-STARTING YOUR HOT TUB IN COLD WEATHER

If you want to start up your hot tub after it has sat empty for a time in freezing temperatures, be aware that the water remaining in certain sections of the piping may still be frozen. This situation will block water flow preventing the hot tub from operating properly and possibly damaging the equipment. We recommend you consult your dealer for guidance before attempting to re-start your hot tub under these conditions.

Water Quality Maintenance

Maintaining the quality of the water within specified limits will serve to enhance your enjoyment and prolong the life of the hot tub's equipment. It is a fairly simple task, but it requires regular attention because the water chemistry involved is a balance of several factors. There is no simple formula, and there is no avoiding it. A careless attitude in regard to water maintenance will result in poor and potentially unhealthful conditions for soaking and even damage to your hot tub investment. For specific guidance on maintaining water quality, consult your Authorized Sundance Dealer who can recommend appropriate chemical products for sanitizing and maintaining your hot tub.

CAUTION: Never store hot tub chemicals inside the hot tub's equipment bay.

pH CONTROL

pH is a measure of relative acidity or alkalinity of water and is measured on a scale of 0 to 14. The midpoint of 7 is said to be neutral, above which is alkaline and below which is acidic. In hot tub water, IT IS VERY IMPORTANT TO MAINTAIN A SLIGHTLY ALKALINE CONDITION OF 7.2 to 7.8. Problems become proportionately severe the further outside of this range the water gets. A low pH will be corrosive to metals in the hot tub equipment. A high pH will cause minerals to deposit on the interior surface (scaling). In addition, the ability of the sanitation agents to keep the hot tub clean is severely affected as the pH moves beyond the ideal range. That is why almost all hot tub water test kits contain a measure for pH as well as sanitizer.

SANITIZING

To destroy bacteria and organic compounds in the hot tub water, a sanitizer must be used regularly. Your Sundance hot tub is equipped with the BrominatorTM, a special compartment built into the floating skimmer gate to hold bromine tablets. By regulating the number of bromine tablets in the BrominatorTM and the length of the filtration cycles, you can control the amount of bromine which is actively working in your hot tub 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

IMPORTANT: Do not use chlorine tablets (Trichlor) in your hot tub. This chemical can have an extremely corrosive effect on certain materials in the hot tub. Damage caused by use of this chemical, or improper use of any chemicals, is not covered under the hot tub's warranty.

OTHER ADDITIVES

Many other additives are available for your hot tub. Some are necessary to compensate for out-of-balance water, some aid in cosmetic water treatment and others simply alter the feel or smell of the water. Your Authorized Sundance Dealer can advise you on the use of these additives.

OPTIONAL PERMACLEAR™ WATER PURIFICATION SYSTEM

If you have elected to have your hot tub equipped with the optional Permaclear water purification system you will find that your water stays fresh and clear with significantly less chemical sanitizer usage. You will also probably be able to go longer between complete hot tub drainings.

Troubleshooting

DISPLAY MESSAGES

There are a number of unique functions designed into your Sundance hot tub to protect it from damage and/or to aid in troubleshooting. Following is a listing of all the possible messages along with their meanings:

MESSAGE

MEANING



Overheat Protection (Heater is deactivated, pump's low speed is activated). Water temperature is above acceptable limits. Do not enter the water! Remove hot tub cover to speed cooling. See "WATER IS TOO HOT" on page 32. If condition persists, contact your dealer or authorized service center.



If the hot tub water is more than 20 degrees F cooler than the temperature set point, the low speed of the two-speed pump and the heater will automatically activate to provide freeze protection. The hot tub will stay in this mode until the water temperature reaches 15 degrees below the set temperature. No corrective action is necessary.



FLOW SWITCH (Heater is deactivated. Pump may also be deactivated).

Proper flow of water is inhibited or a flow switch has malfunctioned. Check for proper water level. Check for clogged filter. Contact your dealer or service organization.

*NOTE: THIS MESSAGE CAN ALSO APPEAR IF THE PUMP HAS NOT REGAINED PRIME AFTER THE HOT TUB HAS BEEN DRAINED AND REFILLED. IF YOU SUSPECT THAT THIS IS THE CASE, SEE THE INSTRUCTIONS ON PAGE 31 UNDER "PUMP DOES NOT OPERATE..."



Panel sensors have been pressed too many times in a short period of time. Because this could cause excessive wear on equipment components, panel sensors are temporarily deactivated. Panel sensors will automatically re-activate if no sensor is pressed for 30 seconds.

HOT

Circuit board temperature has exceeded acceptable limit. This message will disappear when the circuit board temperature drops below acceptable limit. If condition persists, provide shade for the equipment side of the hot tub.

ICE

FREEZE PROTECTION

A potential freeze condition has been detected. No action is required. Pump(s) operate until the hot tub is out of danger.

PnL

Communication between the control panel and the circuit board is faulty. Contact your dealer or service organization.

"WATCHDOG" (Hot tub is deactivated.)

A problem has been detected which could cause damage to the hot tub or its components. Contact your dealer or service organization.

5~1

OPEN SENSOR (heater disabled) OR SHORTED SENSOR (hot tub is deactivated) The high-limit temperature sensor is non-functional. This must be repaired only by a dealer or qualified service

organization.

5-3

OPEN OR SHORTED SENSOR (heater disabled)
The main sensor is non-functional. This must be repaired only by a dealer or qualified service organization.

Troubleshooting Procedures

In the unlikely event your hot tub is not working the way you believe it should, please first review all the installation and operating instructions in this manual and check the message on the panel display; second, if you are still not satisfied it is working properly, please follow the appropriate troubleshooting instructions.

PROBLEM	PROCEDURE
NONE OF THE COMPONENTS OPERATE (i.e. pump,blower, light)	 Check the control panel lights. 1. If there are letters or symbols displayed on the screen, refer to the previous section to determine meaning and action required. 2. If nothing appears on the screen: a. Check the household circuit breaker b. Contact you dealer or authorized service center
PUMP DOES NOT OPERATE BUT BLOWER AND LIGHT DO OPERATE	 Depress "Jets" sensor. 1. If no sound is detected or if a "buzzing" sound is detected, turn off power to the hot tub and contact your dealer or service center. 2. If motor operates but no water flows to jets: a. Pump may not be properly primed. See instructions below. b. Contact dealer or authorized service center.

Pump Priming Instructions: Turn Hot Tub Off!

Remove filter and insert end of garden hose into filter pipe. Seal-off pipe opening around hose using a large, clean rag and turn on maximum water flow through the hose. After about 30 seconds, turn off water, remove hose and rag, reinstall filter and activate pump's high speed.

Another method of priming the hot tub's pump(s) is as follows:

- 1. Turn off the power to the hot tub.
- 2. Remove the handle from the Massage Selector supplied by the pump you are priming.
- 3. Loosen the Massage Selector's cap slightly (counter-clockwise), listening for the air to seep out.
- Tighten the cap finger-tight, replace the handle and turn the hot tubs power back on.

(Note: This method must be used for the single-speed pump on two-pump models because these pumps are not connected to the filter.)

IMPORTANT: If freezing conditions exist and pump is not operational, take measures to protect the system from freeze damage. See section titled "Winterizing".

POOR JET ACTION

- 1. Make certain the pump is on high speed.
- 2. Check position of massage selectors (see III, 3 page 17.)
- 3. Open air control for the jet system selected.
- 4. Check for adequate water level.
- 5. Check for dirty filter.

WATER IS TOO HOT.

- 1. Reduce thermostat setting..
- Reduce filtration cycle length. (Even without heater on, water temperature can increase from prolonged pump operation.)

NO HEAT

- 1. Check thermostat setting.
- 2. Keep the cover in place while heating.
- If "heater on" indicator is lit (see III. 2.1), but no temperature rise is experienced after a reasonable period of time, contact your dealer or authorized service center.

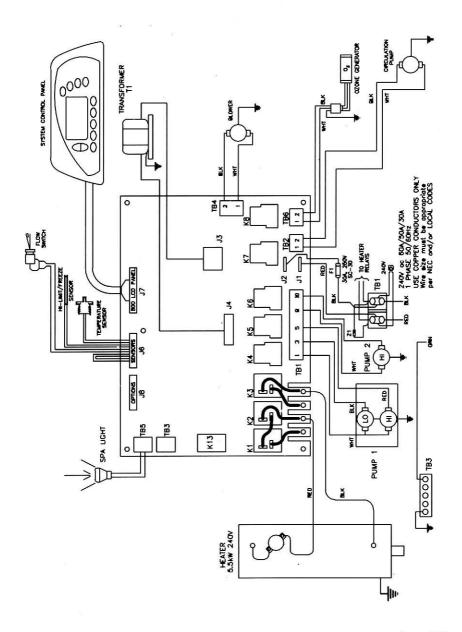
Your Authorized Sundance Dealer is a trained service repair center. Should checking the above steps fail to correct the problem, please call your dealer so that he may arrange service.

Your Sundance Dealer's phone number:	
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Sundance builds the best hot tubs in the industry. Nonetheless, we are always striving to improve the quality and features of our products. Your input as a Sundance hot tub owner is a cherished part of this process. If you have any comments or suggestions, or if you wish to be informed on any new products for your hot tub, please write to us.

CONGRATULATIONS on your good taste and welcome to the happiest and most relaxed family in the world!

Electrical Wiring Diagram Cameo, Optima, Altamar, Marin and Capri





Operating Instructions - 850 Models

Your Sundance hot tub has a touch-sensitive control panel, Massage Selector valves and air control knobs located on the top rim of the hot tub (See III. 3, item 2). These controls let you operate many of the special functions of your Sundance hot tub. By familiarizing yourself with the following information, you will be able to gain the full benefit afforded by the various functions of your hot tub.

VIEW

Pressing the sensor pad labeled **VIEW** inverts the main four-digit display on the Command Center's LCD screen to allow easy reading from either inside or outside the hot tub.

LIGHT

The **LIGHT** sensor pad activates both the underwater light and the light symbol on the LCD screen when touched. To reduce the brightness of the light, touch the sensor pad again. A third touch will result in an even lower level of illumination. A fourth touch turns the light off. If left on, the light will automatically turn off after one hour.

There are two colored lenses included with your hot tub which may be placed over the light lens inside the hot tub. To remove a lens, pull straight out. To install a lens, align tabs and push straight in. Your hot tub comes with clear lens installed.

AIR INJECTION

When the **AIR** sensor pad is pressed, the air blower forces air through the injectors located in the seats and footwell. When it is pressed a second time, the power of the air blower is reduced by one-third. The bubbles symbol above the sensor pad appears whenever the air blower is on. An electronic timer automatically turns the air blower off 20 minutes after it was turned on.

The air blower automatically activates for 1 minute at the start of Clean Up cycle. This clears the lines of the air injector system to help ensure that all water is exposed to sanitizer.