



Hot Tub Assistant

Hot Springs



This Control Head is for a TWO PUMP system. This Control Head is for a ONE PUMP system. The Clean Button is now a light and there is a large Clean Button.

This Control Head is for all Hot Springs models from 1998 to 2008

Red Light Flashing:

1. **Hi-limit Trip** , Customer can try to power down the spa and power back up to see if the light stops flashing. If the light is still flashing **BOOK SERVICE CALL**
2. **Dirty filter's** , Customer must power down the spa and remove all filter caps, remove the filters and re-install the caps and power up the spa and check to see if the light is not flashing.
3. **Stalled Circ Pump** , No water movement, customer should see water moving at the surface *IE* no bubbles from floor drain(drain is on floor) Customer can't correct this problem **BOOK SERVICE CALL.**

Green Light Flashing:

- **Problem With The Sensor**, Customer can't correct this problem **BOOK SERVICE CALL**.

Green & Red Light Flashing:

- **Low Flow**, Have customer power down the spa and remove the filter caps and filters, power back up the spa and see if the problem has been corrected, if not **BOOK SERVICE CALL**.

AUXILIARY CONTROL PANEL

The auxiliary control panel, conveniently located in the spa seating area (Vista®, Grandee®, Envoy®, Vanguard®, Sovereign®, Aria™, and Prodigy® models) allows the user to activate the jets, light, and Spaudio® functions from inside the spa. If there is a problem with the AUXILIARY CONTROL PANEL it will be unresponsive **BOOK SERVICE CALL**.

INDICATOR LIGHTS

At a glance, the indicator lights are readily visible on the main control panel.

The three indicator lights: POWER, READY and CLEAN, work independently from the rest of the control panel display. That way, even if the control panel is off, you can simply glance at the "READY" indicator light to determine whether or not your spa is within the range of your set temperature.

1. **Power Indicator:** The POWER indicator is 'on' when the spa is properly supplied with power. It also provides a diagnostic function—a blinking power indicator indicates that the heater high limit has tripped, meaning that either the spa water is above its acceptable temperature range, or a malfunction has occurred within the spa (such as low circulation due to clogged filters). An 'off' power indicator means that there is a problem with the spa control box or the power supplied to the spa.
2. **Ready Indicator:** The READY indicator will light when the spa water temperature is within 2-1/2°F (1.4°C) of the set temperature, and will turn off when the temperature is outside of that range. If you increase or decrease the temperature setting of the spa, the ready indicator will turn off until the spa temperature reaches the acceptable range for the new set temperature. Additionally, a blinking READY indicator indicates that a problem exists with the temperature sensor.
3. **Clean Indicator:** The CLEAN indicator lights up when the CLEAN button is pressed. It remains on during the ten-minute clean cycle (used for water maintenance), then automatically shuts off at the end of the cycle. The JET symbol will also illuminate on the display to indicate that the jet pump is on.

LOCKING FEATURES

The two locking features, TEMPERATURE LOCK and SPA LOCK, are enabled from the main control panel by pressing a specific combination of buttons. Once enabled, a lock will remain active until the specific button combination is applied to disable the lock. Even if power is disconnected from the spa and soon thereafter reapplied (such as in a power outage) the lock will remain in place.

SPA LOCK

The SPA LOCK feature deactivates all of the functions of the main and auxiliary control panels. It is generally used to prevent unwanted use of the spa. **To activate the SPA LOCK, press the LIGHT minus (-) and TEMP minus (-) buttons at the same time** and hold them down until the word SPA and the lock symbol are illuminated on the display (approximately two seconds). When the SPA LOCK is activated, if a button is pressed, the control panel will display the lock symbol and the word SPA for 30 seconds, then turn off. **To deactivate the SPA LOCK, press the LIGHT minus (-) and TEMP minus (-) buttons at the same time** and hold them down until the word SPA and the lock symbol are no longer illuminated on the display (approximately two seconds).

TEMPERATURE LOCK

The TEMPERATURE LOCK feature deactivates the temperature control function of the main control panel. All other functions on the main and auxiliary control panels will operate normally. TEMPERATURE LOCK is most often used by people who do not want others to tamper with or change the set temperature of the spa water. To activate the TEMPERATURE LOCK, **press the LIGHT plus (+) and TEMP plus (+) buttons** at the same time and hold them down until the words SET TEMP, the numerical set temperature value and the lock symbol are illuminated on the display (approximately two seconds). When the TEMPERATURE LOCK is activated, the JETS, LIGHT, and CLEAN buttons will operate normally, and the temperature setting can be viewed but can NOT be changed. If a temperature button is pressed, the control panel will display the lock symbol and the set temperature for 30 seconds, then turn off. To deactivate the TEMPERATURE LOCK, **press the LIGHT plus (+) and TEMP plus (+) buttons at the same time** and hold them down until the lock symbol is no longer illuminated on the display (approximately two seconds).

MAIN CONTROL PANEL BUTTONS AND DISPLAY

The main control panel has buttons which the spa user presses to set the temperature, initiate the clean cycle, vary the intensity of the light, and activate or deactivate the jet pump. With the exception of the CLEAN button, the control panel display responds to let you know you've

pressed a button, and that the selected function has been performed. After a period of non-use, pressing any button will wake up a sleeping display, as well as performing its function.

TEMPERATURE CONTROL

The set temperature range is from 80°F to 104°F (27°C to 40°C). (The temperature of any setting may rise slightly depending on the current use and condition of your spa, and on outside temperatures.) The set temperature of the spa water will automatically be 102°F (39°C) the first time that power is applied. This is the setting programmed at the factory. After the spa has been set up and used, the last temperature value set by the user will be stored in memory. If power is disconnected from the spa, it will automatically revert to the last set temperature when power is reapplied. To display the set temperature of the spa, press the TEMP plus (+) button. The set temperature will be displayed, unless the spa is locked (in which case the word SPA is displayed with the lock symbol). The set temperature display will automatically shut off after 30 seconds. To increase the set temperature of the spa water, press the TEMP plus (+) button. Each time the button is pressed, the set temperature display will increment by one degree. If the button is held down, the set temperature display will increase by one degree every half-second. To decrease the set temperature of the spa water, press the TEMP minus (-) button. Each time the button is pressed, the set temperature display will decrement by one degree. If the button is held down, the set temperature display will decrease by one degree every half-second. If the set temperature value will not change, check the TEMP LOCK and SPA LOCK features. When either of these features is applied, the temperature control is disabled.

JETS CONTROL

There are two buttons (three buttons on Vista®, Grandee®, Envoy®, Aria™ and Vanguard® models) which affect the jet pump(s):

1. The JETS button (all models) / JETS 1 (Vista, Grandee, Envoy, Aria and Vanguard models only) activates the jet pump. When the JETS or JETS 1 button is pressed, the jets symbol will illuminate on the control panel display. The symbol will remain lit until the button is pressed to turn off the jet pump, or after two hours of continuous operation when the pump is automatically shut off by the control system.
2. The JETS 2 button (Vista, Grandee, Envoy, Aria and Vanguard only) activates the second jet pump. When the JETS 2 button is pressed, the jets symbol will illuminate on the control panel display. (Vista, Envoy & Aria will run in low speed with first press and high speed with second press). The symbol will remain lit until the button is pressed to turn off the jet pump, or after two hours of continuous operation when the pump is automatically shut off by the control system.
3. The CLEAN button, provided as a convenient timer for water maintenance, activates the jet pump for a ten minute period. The CLEAN indicator will turn on and the JET symbol on the display will illuminate to indicate the jet pump is engaged.
4. Next, you may add properly measured spa water chemicals into the filter compartment. The jet pump and clean indicator will automatically shut off after ten minutes. If the jet

pump will not engage, make sure SPA LOCK is deactivated. SPA LOCK disables the controls on both the main and auxiliary control panels.

LIGHT CONTROL – STANDARD

The intensity of the spa's light is controlled using the LIGHT plus (+) or LIGHT minus (-) buttons. To turn on the spa light, press the LIGHT plus (+) button. The light will turn on at maximum intensity and the light symbol will illuminate on the control panel display. To reduce the intensity of the light, press the LIGHT minus (-) button. The intensity of the light will decrease each time the button is pressed. Additionally, if either of the LIGHT buttons (+ or -) on the Main Control panel only, are held down, the light intensity will increase or decrease at the rate of one intensity level every half-second. To turn off the light, hold the LIGHT minus (-) button. The light will dim and turn off. When the light turns off, the light symbol on the display will also turn off. If the light is left on, it will automatically be turned off by the control system after six hours of continuous operation. The light symbol on the panel will also turn off when the light is deactivated. If the light will not turn on, make sure SPA LOCK is deactivated. SPA LOCK disables the controls on both the main and auxiliary control panels.

LIGHT CONTROL - LUMINESCENCE®

All Hot Spring spas are equipped with the Luminescence (Multi-Color) light. The intensity of the spa's light is controlled using the LIGHT Plus (+) or LIGHT Minus (-) buttons. There are five (5) brightness levels plus off. To turn on the spa light, press the LIGHT Plus (+) button. The light will turn on at maximum intensity and the light symbol will illuminate on the control panel display. When the light is set to its maximum brightness setting, press the LIGHT Plus (+) button to change the color. The color loop sequence is set as follows: Blue, Aqua, Green, White, Amber, Red, Loop ON, Loop OFF. To activate the color loop, press (+) after the color red. The colors will automatically run through the sequence in the order listed above. To stop the loop press the LIGHT Plus (+) button while the loop is on and the brightness setting is in the maximum position. To reduce the intensity of the light, press the LIGHT Minus (-) button. The intensity of the light will decrease each time the button is pressed. Additionally, if the LIGHT Minus (-) button on the Main Control panel only, is held down, the light intensity will decrease at the rate of one intensity level every half-second until it shuts off. If the intensity of light is below the maximum brightness and the LIGHT Plus (+) button is pressed and held down, the light will increase intensity until it reaches maximum brightness, it will then continue through the color sequence every half-second until the button is released. To turn off the light, hold the LIGHT Minus (-) button. The light will dim and turn off. When the light turns off, the light symbol on the display will also turn off. If the light is left on, it will automatically be turned off by the control system after six hours of continuous operation. The light symbol on the panel will also turn off when the light is deactivated. If the light will not turn on, make sure SPA LOCK is deactivated. SPA LOCK disables the controls on both the main and auxiliary control panels.

SUMMER MODE DISPLAY

The Summer Mode symbol is on when the Summer Mode timer is on. When activated, the symbol will be visible even in bright light when the main display backlight is off. In low light conditions, the Summer Mode symbol will only be visible when the display is activated by pressing a control panel button.

SUMMER MODE

Your Hot Spring spa is equipped with a Summer Mode timer. The Summer Mode timer can be activated during extremely hot summer months if it becomes difficult to maintain water temperatures low enough for comfort. Upon switching to the ON mode, the heater will immediately shut down while the circulation pump (which can add heat to the water through normal operation) will remain on for approximately 5 minutes for heater cool down. Both heater and circulation pump will remain off for the next eight hours. Additionally, the summer mode display on the main control panel will activate and remain active for as long as the summer mode is on. Following this eight-hour period, the circulation pump and heater will automatically restart and will operate normally for the next sixteen hours. The circulation pump and heater will continue to turn off for an eight-hour period every day that the switch remains in the ON position. In this way, the amount of heat transferred to the spa water will be minimized. When the outside temperatures begin to cool, the Summer Mode timer should be turned to the OFF position (the summer mode display on the main control panel will go out). This is the efficient 24 hour circulation mode that keeps the heater operation and operating costs to a minimum during colder/heavier usage months.

NOTE: Whenever power is disconnected and then reconnected to the spa, the Summer Mode timer will reset starting with the eight-hour shutdown mode. If a different eight-hour shut down time is desired, deactivate the Summer Mode, then reactivate at the beginning of the desired eight-hour shut down time.

IMPORTANT: The Summer Mode will not lower the spa's water temperature below the ambient air temperature.

To activate the Summer Mode, simply follow these steps:

1. Set the temperature control to 80°F (26°C).
2. On the control panel, simultaneously press and hold for three seconds Temp Plus and Temp Minus buttons to activate the Summer Timer. The Summer Mode must be deactivated when cooler temperatures return. To do this, simply repeat step 2.

WARNING: Failure to deactivate the Summer Mode when the temperature drops below 32°F (0°C) will result in freezing of the spa. Damage resulting from this situation is not covered under the terms of the warranty.

2009-to Current All Hot Springs Models



Trouble Shooting:

Power Light Flashing

- Hi-limit Trip , Customer can try to power down the spa and power back up to see if the light stops flashing. If the light is still flashing BOOK SERVICE CALL.
- Dirty filter's , Customer must power down the spa and remove all filter caps, remove the filters and re-install the caps and power up the spa and check to see if the light is not flashing.
- Stalled Circ Pump , No water movement, customer should see water moving at the surface IE no bubbles from floor drain(drain is on floor) Customer can't correct this problem BOOK SERVICE CALL.

Ready Light Flashing

When the Red Light is flashing, there is a problem with the sensor. The customer can NOT correct this problem, so the Customer Service Rep. must BOOK SERVICE CALL.

Green & Blue Light Flashing Ying Yang

Low Flow , Have customer power down the spa and remove the filter caps and filters, power back up the spa and see if the problem has been corrected, if not BOOK SERVICE CALL HOT SPRING® On/ready Indicator light The Hot Spring logo on the front of the spa illuminates a blue and green color. These colors indicate the power and ready status of the spa without having to open the cover and look at the control panel. The green color is equivalent to the READY LIGHT, and the blue color is equivalent to the POWER Indicator.



HOT SPRING® On/Ready Indicator light

Flashing Green Ying Yang See Ready Light flashing

Flashing Blue Ying Yang See Power Light Flashing

Flashing Blue & Green Ying Yang See Ready & Power Light flashing



Summer Timer Indicator: The Summer Timer indicator is lit when the Summer Timer is set to ON. In the summer timer mode, the heater and circulation pump remain off for eight hours. Summer Timer indicator will not flash.

Spa Light Indicator: The Spa Light indicator is lit when any light inside the spa is on. The indicator will remain solid as long as the spa light is activated. Spa Light indicator will not flash.

Spa or Temperature Lock Indicator: The Spa or Temperature Lock indicator is lit when either the Spa Lock or Temperature Lock is activated. Lock indicator will not flash.

Jet Pump Indicator: The Jet Pump indicator is lit whenever a jet pump is on. The jet pump indicator will flash whenever the spa is in the ten-minute clean cycle.

Water Care Indicator: The Water Care indicator is lit whenever a water care device is detected in the system and the water care system is operating correctly. The icon will flash if the water care system requires attention.

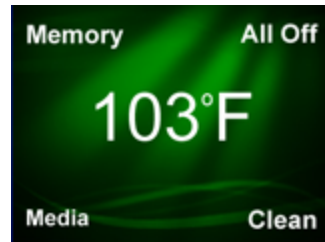
Power Indicator: The Power indicator is 'on' when the spa is properly supplied with power. It also provides a diagnostic function—a flashing power indicator indicates that the heater high limit has tripped, meaning that either the spa water is above its acceptable temperature range, or a malfunction has occurred within the spa (such as low circulation due to clogged filters). An 'off' power indicator means that there is a problem with the spa control box or the power supplied to the spa (see Troubleshooting section for more information).



READY Indicator: The Ready indicator will light when the spa water temperature is within 2°F (1°C) of the set temperature, and will turn off when the temperature is outside of that range. If you increase or decrease the temperature setting of the spa, the ready indicator will turn off until the spa temperature reaches the acceptable range for the new set temperature.

Additionally, a flashing READY indicator indicates that a problem exists with the temperature sensor (see Troubleshooting section for more information).

Home Screen



On the Home screen you will notice the temperature displayed in the center of the screen. This temperature is the actual temperature of the spa water. If the READY icon is lit and solid on the control panel, then the actual spa temperature is within 2°F (1°C) of the set temperature. The corner soft button functions are as follows:

All Off:

This feature will shut jets and lights off immediately, while saving the last active jets and lights settings.

Memory:

This feature will recall the last active setting for jets and lights prior to pressing the All Off button.

NOTE: If the jet pump will not engage, make sure Spa Lock is deactivated. Spa Lock disables the controls on both the main and auxiliary control panels.

Clean:

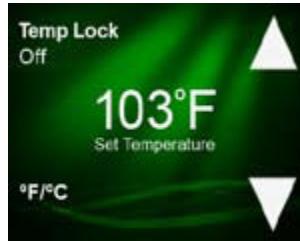
Provided as a convenient timer for water maintenance, activates the jet pump on high for a ten minute period. The blue Jet icon will flash to indicate the jet pump is engaged and in the clean cycle. Next you may add properly measured spa water chemicals into the filter compartment. The jet pump and clean icon will automatically shut off after ten minutes.

NOTE: Some soft key functions will only be illustrated if the accessory has been installed.

Media:

This feature will take you to the Media sub menu (accessory feature).

Temperature Control



The set temperature range is from 80°F to 104°F (26°C to 40°C).

(The water temperature of any spa may rise or lower slightly depending on the current use and condition of your spa and on outside temperatures.)

Note: The set temperature of the spa water will automatically be 100°F (38°C) the first time that power is applied. This is the setting programmed at the factory. After the spa has been set up and used, the last temperature value set by the user will be stored in memory.

If power is disconnected from the spa, it will automatically revert to the last set temperature when power is reapplied.

To display the set temperature of the spa, press the **Options** hard button followed by the **TEMPERATURE** soft button. The temperature screen will then be displayed. This screen will automatically revert to Home screen after 45 seconds of non-use.

To increase the set temperature of the spa water, press the Temp ▲ button.

Each time the button is pressed, the set temperature display will increment by one degree. If the button is held down, the set temperature display will increase by one degree every half-second.

To decrease the set temperature of the spa water, press the Temp ▼ button. Each time the button is pressed, the set temperature display will decrement by one degree. If the button is held down, the set temperature display will decrease by one degree every halfsecond.

Note: If the set temperature value will not change, check the **Temp Lock** and **Spa Lock** features. When either of these features is activated, the temperature control is disabled.

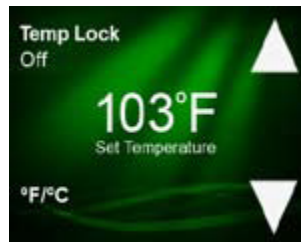
The temperature may also be displayed in Fahrenheit or Celsius. Press the soft button next to the °F/°C description to change.

Locking Features

The two locking features, Temperature Lock and Spa Lock, are activated from the main control panel. Once activated, a lock will remain active until the specific button combination is applied

to disable the lock. Even if power is disconnected from the spa and soon thereafter reapplied (such as in a power outage) the lock will remain in place.

Temperature Lock



The Temperature Lock feature deactivates the temperature control function on the main control panel. All other functions on the main and auxiliary control panels will operate normally.

Temperature Lock is most often used by people who do not want others to tamper with or change the set temperature of the spa water.

To activate the Temperature Lock, press the Options hard button followed by the TEMPERATURE soft button and finally press the soft button TEMP LOCK OFF to change the screen to TEMP LOCK ON.

Note: The red Spa lock icon will be lit during a temperature lock condition. When the Temperature Lock is activated, the Jets, Light, and Clean buttons will operate normally, and the temperature setting can be viewed but can NOT be changed. To deactivate the Temperature Lock, press the Options hard button followed by the TEMPERATURE soft button followed by the TEMP LOCK ON soft button to change the screen to TEMP LOCK OFF, this will also turn the Spa lock icon off.

Spa Lock



The Spa Lock feature disables all of the functions on the main and auxiliary control panels. Spa Lock is generally used to prevent unwanted use of the spa. The control panel will not respond to any hard or soft buttons when in spa lock mode.

To activate the Spa Lock, press the Options hard button followed by the SET-UP soft button. The screen to the left will then be displayed. To activate the Spa Lock, press the soft button for SPA LOCK.

Note: The Spa lock icon will be lit during a spa lock condition. To deactivate the SPA LOCK, press and hold both the OPTIONS hard button and the LIGHTS hard button for 3 seconds.

Lock Override

The Lock Override feature is for spa users who normally keep the set temperature locked. Should the user wish to lock all spa controls temporarily, the spa lock can be activated over an already activated temperature lock. Then, when the spa lock is removed, the temperature lock will remain on, to prevent unwanted tampering with the set temperature.



Jets Control

The JETS hard button activates the jet pump(s). When the Jets hard button is pressed, the jets menu will display on the control panel as seen on the right with Jet 1 in the High position (Vanguard® & Sovereign® models) or Jet 2 Low position (Vista®, Grandee®, Envoy® and Aria™ models), the blue Jet Pump icon will also light up. Press any of the soft keys to change the jet functions between high, low (when available) speed, and off. The Jet pump icon will remain lit until the button is pressed to turn off the jet pump(s), or after two hours of continuous operation when the pump(s) is automatically shut off by the control system. If the jet pump will not engage, make sure Spa Lock is deactivated. Spa Lock disables the controls on both the main and auxiliary control panels. You may also run through the entire jet pump cycle by only using the JETS hard button as follows:

Vista®, Grandee®, Envoy® & Aria®

1st Press = Jet pump 2 on Low 2nd Press = Jet pump 2 on High 3rd Press = Both jet pumps on high speed
4th Press = Jet pump 2 on Low,
Jet pump 1 on high
5th Press = Jet pump 1 on High 6th Press = All pumps

Vanguard®

1st press = jet pump 1 on High 2nd press = jet pump 1 & 2 on High 3rd press = jet pump 2 on High 4th press = jet pumps OFF

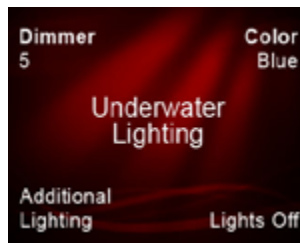
SOVEREIGN®, PRODIGY® & JETSETTER®

1st press = jet pump on High 2nd press = jet pump OFF

Light Control

All Hot Spring® spas are equipped with Luminescence® Four-Zone Multi-Color lighting.

- Press the LIGHTS hard button to activate the Underwater Lighting and display the screen below.



- The intensity of the spa's underwater lights are controlled using the Dimmer soft button. There are five **(5)** brightness levels plus **off**. **NOTE:** Pressing the LIGHT hard button will also change the intensity of the spa's underwater lights when in the Underwater Lighting menu.
- To change the color of the underwater lights, press the soft key next to Color. The colors are as follows: 1) Blue, 2) Aqua, 3) Green, 4) White, 5) Yellow, 6) Red, 7) Magenta, 8) Color Wheel On, 9) Color Wheel Off.
- To turn off all of the lights, press the soft button next to **Lights Off**.

Additional Lighting

Your spa has additional lights that can be turned *On* and *Off*, or can be changed to a different color from that of the underwater lighting.

Press the soft button next to Additional Lighting to view the sub menu below.



Press the soft button next to Bartop to turn Bartop lighting *On* or *Off*.

Press the soft button next to Pillow to turn Pillow lighting *On* or *Off* (only applicable on spas with pillows).

Press the soft button next to the Water Feature to turn Water Feature lighting *On* or *Off*.

(only applicable on spas with water features)

Press the soft button next to Color to change the color for all the above water lights that are turned on. The color sequence is the same as that of the Underwater Lighting menu.

NOTE: To go back to the Underwater Light menu from the Additional Light menu, press the LIGHT hard button or Back button. When both color wheels are used at the same time, the colour for both underwater and additional lighting will be the same.

Summer Timer

Your Hot Spring spa is equipped with a *Summer Mode* timer. The Summer Mode timer can be activated during extremely hot summer months if it becomes difficult to maintain water temperatures low enough for comfort.

Upon switching to the *ON* mode, the heater will immediately shut down while the circulation pump (which can add heat to the water through normal operation) will remain on for approximately 5 minutes for heater cool-down. Both the heater, and circulation pump, will remain off for the next eight hours.

Additionally, the summer mode display on the main control panel will activate and remain active for as long as the summer mode is on. Following this eight-hour period, the circulation pump and heater will automatically restart and will operate normally for the next sixteen hours. The circulation pump and heater will continue to turn *off* for an eight-hour period every day that the summer timer remains *ON*.

In this mode, the amount of heat transferred to the spa water will be minimized. When the outside temperatures begin to cool, the Summer Mode timer should be turned *OFF* (the summer mode indicator on the main control panel will go out). This will activate the efficient 24 hour circulation mode that keeps the heater operation and operating costs to a minimum during colder/heavier usage months.

NOTE: Whenever power is disconnected and then reconnected to the spa, the Summer Mode timer will reset starting with the eight-hour shutdown mode. If a different eight-hour shut down time is desired, deactivate the Summer Mode timer, then reactivate at the beginning of the desired eight-hour shut down time.

IMPORTANT: The Summer Mode timer will not lower the spa's water temperature below the ambient air temperature. To activate the Summer Mode timer, simply follow these steps:

- On the control panel, press the OPTIONS Hard button, press the Set Up Soft button and the Summer Timer mode soft button to activate. The yellow Summer Timer mode icon will light up when activated.
- **If water temperature falls below 80°F (26.7°C) the Summer Timer mode will be automatically disabled.**



2009 to current only

The Summer Mode timer should be deactivated when cooler temperatures return. To do this, simply repeat last step. The yellow Summer Mode timer icon will turn off.

Miscellaneous Functions



Language

The main control panel screen can be viewed in five different languages. The languages are: English, French, German, Dutch and Spanish. To change languages, press the Options hard button and Set Up soft button. Press the Language soft button until the desired language is visible.

IMPORTANT: Should you accidentally change the language screen into a language you don't know, simply press the Options hard button, the soft button on the top right corner, and then the language soft button (lower right) until you come to a language you understand and want.



2002 – 2010

Flashing “Temp” on main Display

Dirty Filters, Have customer power down the spa and remove filters and power back up the spa and wait 5 min and see if the “Temp” has stopped flashing.

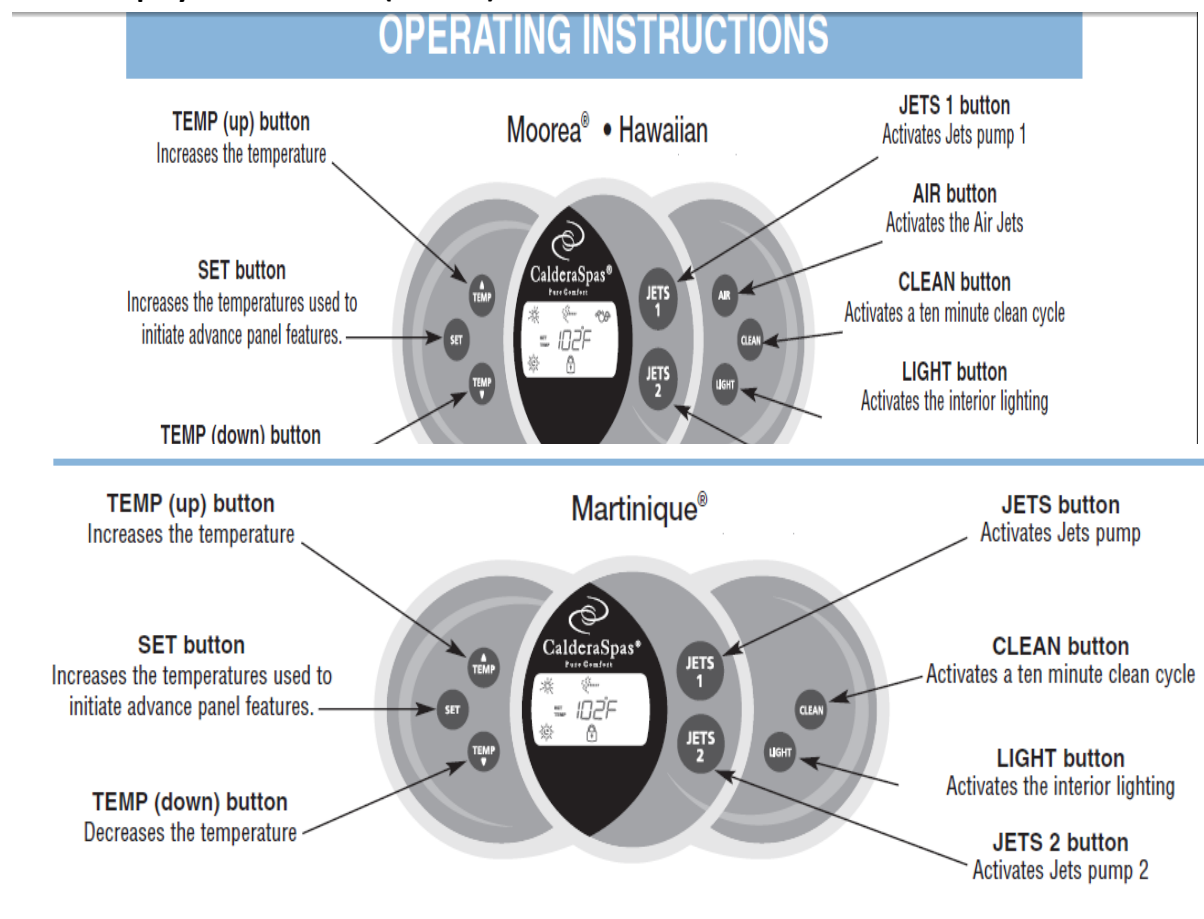
Air Lock, Ask customer if they have just drained and re-filled spa, if so power down the spa and remove drain caps for aprx 2-3 min re-install cap and power up the spa again and see if the flash temp has stopped If not, **Book Service Call.**

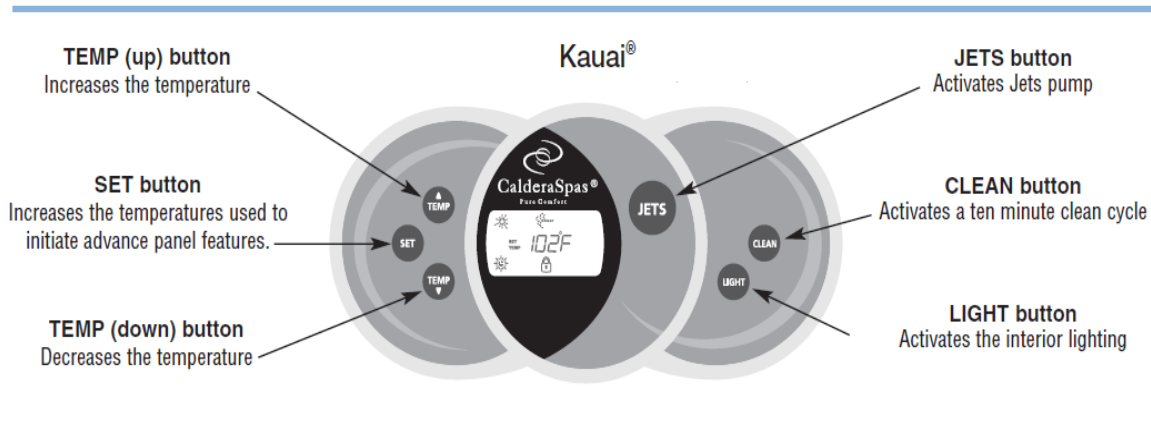
Low Water Level, Ask customer to raise water level. If above troubleshooting has not corrected the problem then **Book Service Call**

Four flashing lines on the main control panel

Heater Hi-Limt has tripped, Have customer power down the spa for two min and chrck for dirty filters, power the spa back up if the problem has not been corrected then **Book Service call.**

Two Pump System With Air (Blower)





LOCKING FEATURES

The locking features, TEMPERATURE LOCK and SPA LOCK, are enabled from the control panel by a specific combination of buttons. Once enabled, a lock will remain active until the specific button combination is applied to disable the lock. In a scenario even, where the power is disconnected from the spa and soon restored (such as a power outage), the lock will remain in place.

The “SET” button is used to initiate advance panel features such as the spa panel lock, temperature lock, and optional color wheel mode.

SPA LOCK



The Spa Lock feature deactivates all of the functions of the control panel. It is generally used to prevent unwanted use of the spa. To activate the Spa Lock, press “SET” button + “TEMP ▼” button and hold for three seconds until the SPA and lock symbol are illuminated.

To deactivate the Spa Lock, press “SET” button + “TEMP ▼” button and hold for three seconds until the SPA and lock symbol are no longer illuminated.

TEMPERATURE LOCK



The Temperature Lock feature deactivates the temperature control function from the control panel. All other functions on the control panel will operate normally. Temperature Lock is most often used by those who do not want others to change the set temperature of the spa water. To activate the Temperature Lock, press “SET” button + “TEMP ▲” button and hold for three seconds until lock symbol is illuminated. To deactivate the Temperature Lock, press “SET” button + “TEMP ▲” button and hold for three seconds until the lock symbol is no longer illuminated.

MAIN CONTROL PANEL BUTTONS AND DISPLAY Your spa control panel is

illuminated with a Light Emitting Diode (LED) and uses convenient push buttons that allow you to set the water temperature as well as the hydrotherapy jets and mood lighting.

DISPLAY INVERSION

You may invert the main, four-digit display for easier viewing from inside the spa. Press and hold the “SET” button for three seconds until the display is inverted. Press and hold the “SET” button for three seconds a second time to invert the four-digit display back to its original position.

TEMPERATURE CONTROL



The set temperature range is from 80°F (27°C) to 104°F (40°C). The set temperature of the spa water will automatically be 102°F (39°C) the first time power is applied. This is the setting programmed at the factory. After the spa has been set up and used, the last temperature value set by the user will be stored in memory. If power is disconnected from the spa, it will automatically revert to the last set temperature when power is reapplied. (Temperatures of any setting may rise slightly depending on the current use and condition of your spa, and on outside temperature.) To display the set temperature of the spa, press the “TEMP ▲” or “TEMP ▼” button. The set temperature will be displayed, unless the spa is locked (in which case the word SPA is displayed with the lock symbol). The set temperature display will automatically return to actual temperature after five seconds. To increase the set temperature of the spa water, press the “TEMP ▲” button. Each time the button is pressed, the set temperature display will increase by one degree. If the button is held down, the set temperature display will increase by one degree every half-second. To decrease the set temperature of the spa water, press the “TEMP ▼” button. Each time the button is pressed, the set temperature display will decrease by one degree. If the button is held down, the set temperature display will decrease by one degree every half-second. If the set temperature value will not change, check the TEMP LOCK and SPA LOCK features. When either of these features are applied, the temperature control is disabled.

JETS BUTTON

Your spa model uses one, or two buttons which affect the jet pump(s):

The “JETS 1” (“JETS” for Kauai®) button activates jet pump 1. When the “JETS 1” button is pressed, the jets symbol will illuminate on the control panel display. The symbol will remain lit until the button is pressed to turn off jet pump 1, or after one hour of continuous operation when the pump

automatically shuts off. The “JETS 2” button (used on Moorea™, Hawaiian and Martinique®) activates jet pump 2. On the Moorea, “JETS 2” also activates the cascading waterfall feature. When the “JETS 2” button is pressed, the jets symbol will illuminate on the control panel display. The symbol will remain lit until the button is pressed to turn off jet pump 2, or after one hour of continuous operation when the pump automatically shuts off.

MANUAL CLEAN CYCLE

The “CLEAN” button has been provided as a convenient timer for water maintenance. When the “CLEAN” button is pressed, jet pump 1 will activate. The jet pump symbol will flash on and off until the cleaning cycle is complete. The total cleaning cycle time is ten minutes. If the clean cycle does not engage, make sure the SPA LOCK is deactivated. SPA LOCK disables the controls on the control panel.



AIR JETS BUTTON

The “AIR” button activates the air blower (not available on the Martinique and Kauai). When the “AIR” button is pressed, the air symbol will illuminate on the control panel display. The symbol will remain lit until the button is pressed to turn off the air blower, or after 15 minutes when the blower automatically shuts off. While the air blower is on, air only jets are operating throughout the spa. To stop the air blower when active, simply press the “AIR” button.

LIGHT CONTROL

The “LIGHT” button activates the light and controls the intensity. Pressing the “LIGHT” button operates the light as follows:



- 1st press of the “LIGHT” button – light will turn on to the maximum intensity.
- 2nd press of the “LIGHT” button – light will turn to medium intensity.
- 3rd press of the “LIGHT” button – light will turn to low intensity.
- 4th press of the “LIGHT” button – light will turn off.

If the light is left on, it will automatically turn off after 6 hours of continuous operation. The light symbol on the control panel will also turn off when the light is deactivated.

If the light will not turn on, make sure SPA LOCK is deactivated. SPA LOCK disables the functions on the control panel.

Press the “SET” + “LIGHT” button simultaneously while the light is on to start or stop the SpaGlo color wheel. The light symbol will flash on and off while the SpaGlo color wheel is cycling through the six color options and the light symbol will display constant when the SpaGlo color wheel is stopped. If the light is left on, it will automatically be turned off by the control system after six hours of continuous operation. The light symbol on the control panel will also turn off when the light is deactivated. If the light will not turn on, make sure SPA LOCK is deactivated. SPA LOCK disables the controls on both the main and auxiliary control panel.

AUTOMATIC LIGHT FEATURE

The Automatic Light Feature allows you to set the SpaGlo lighting system to activate at the same time every day. Wait for the time of day you would like the automatic feature to start,

then press and hold “TEMP ▲” and “LIGHT” button simultaneously for 3 seconds, the light then remains active for the next 6 hours. The lighting will turn on every day at the same time until you press and hold the “TEMP ▲” and “LIGHT” button simultaneously for 3 seconds a second time to deactivate the automatic light feature.

SUMMER MODE

Your Caldera® spa is equipped with a Summer Mode timer. The Summer Mode timer can be activated during extremely hot summer months if it becomes difficult to maintain water temperatures low enough for comfort. Upon switching to the ON mode, the heater will immediately shut down while the circulation pump (which can add heat to the water through normal operation) will remain on for approximately 5 minutes for heater cool down. Both heater and circulation pump will remain off for the next eight hours. Additionally, the summer mode icon on the main control panel will activate and remain active for as long as the summer mode is on. Following this eight-hour period, the circulation pump, heater, and ozone will continue to turn off for an eight-hour period every day that the switch remains in the ON position. In this way, the amount of heat transferred to the spa water will be minimized. When the outside temperatures begin to cool, the Summer Mode timer should be turned to the OFF position (the summer mode icon on the main control panel shut off). This is the efficient 24 hour circulation mode that keeps the heater operation and operating costs to a minimum during colder/heavier usage months. **NOTE:** Whenever power is disconnected, and then reconnected to the spa, the Summer Mode timer will reset starting with the eight-hour shutdown mode. If a different eight-hour shut down time is desired, deactivate the Summer Mode, then reactivate at the beginning of the desired eight-hour shut down time.

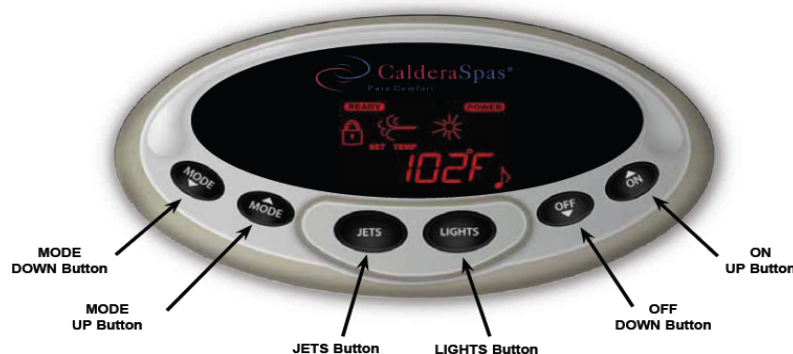
IMPORTANT: The Summer Mode will not lower the spa’s water temperature below the ambient air temperature.

To activate the Summer Mode, simply follow these steps:

1. Set the temperature control to 80°F (27°C)
2. On the control panel, simultaneously press and hold for 3 seconds “TEMP ▲” and “TEMP ▼”.

The Summer Mode must be deactivated when cooler temperatures return. To do this, simply repeat step 2.

WARNING: Failure to deactivate the Summer Mode when the temperature drops below 32°F (0°C) will result in freezing of the spa. Damage resulting from this situation is not covered under the terms of the warranty



2010 – Current

Quick Troubleshooting Guide

Power Light & 4 Lines in Display

Heater Hi-Limit has tripped, have the customer power down the spa and remove the filter and power the back up and see if the spa is working, if not **Book Service**

Ready Light Flashing

Problem with the temperature control system, have customer power down the spa for 2 min and power back up the spa, if light is still flashing **Book Service**

Power & Ready Light Flashing

Low or no flow through heater, ask customer if they have just re-filled the spa if they have then ask them to power down the spa and remove the drain cap for TWO min, re-install drain caps and power the spa back up and see if the lights have stopped flashing, if not **Book Service**

Possible Dirty Filters

In this scenario, the customer will call in and say, “my tub is not heating...”, my tub is on but the temperature is dropping.

Ask the customer to do the following:

1. power down the spa
2. remove the filter(s)
3. power the spa back up and see if the lights have stopped flashing
4. If the lights stop flashing and the spa begins heating, then ask the customer to clean their filter cartridge.
5. Filter cartridges can be cleaned by soaking in warm water and filter cleaner (which can be purchased at your local Pioneer store)
6. If the lights do not stop flashing and still no heat, then **Book a Service Call.**

MAIN CONTROL PANEL BUTTONS AND DISPLAY

Your spa control system consists of an illuminated Light Emitting Diode (LED) display and convenient push buttons that allow you to set the water temperature, as well as the hydrotherapy jets, mood lighting, and optional jets from the spa control panel.

DISPLAY INVERSION

You may invert the control panel display for easier viewing from inside the hot tub. To invert the display the following is required:

Press the "MODE q" & "OFF q" buttons simultaneously. By pressing the "MODE q" & "OFF q" buttons simultaneously a second time the screen will go back to it's original display.

TEMPERATURE Control



The set temperature range is from 80°F (26°C) to 104°F (40°C). The set temperature of the spa water will automatically be 100°F (38°C) the first time power is applied. This is the setting programmed at the factory. After the spa has been set up and used, the last temperature value set by the user will be stored in memory. If power is disconnected from the spa, it will automatically revert to the last set temperature when power is reapplied. (Temperatures of any setting may rise slightly depending on the current use and condition of your spa and on outside temperature).

To display the set temperature of the spa, press the "ON ▲" button. The set temperature will be displayed, unless the spa is locked (in which case the lock icon is displayed). The set temperature display will automatically return to actual temperature after five seconds. To increase the set temperature of the spa water, press the "ON ▲" button. Each time the button is pressed, the set temperature display will increment by one degree. If the button is held down, the set temperature display will increase by one degree every half-second.

To decrease the set temperature of the spa water, press the "OFF ▼" button. Each time the button is pressed, the set temperature display will decrement by one degree. If the button is held down, the set temperature display will decrease by one degree every half-second. If the set temperature value will not change, check the TEMP LOCK and SPA LOCK features. When either of these features is applied, the temperature control is disabled.

JETS Button



The JETS button is used for the jet pumps (use MODE button for the third pump on the Cantabria). Pressing JETS button once will illuminate the jets symbol on the control panel display. The symbol will remain lit until the jet pumps are turned off, or after one hour of continuous operation when the pumps are automatically shut off by the control system.

Geneva®, Niagara®, AND Tahitian® Models:

- 1st press = low speed of jet pump 2
- 4th press = low speed of jet pump 2 & high speed of jet pump 1
- 2nd press = high speed of jet pump 2 • 5th press = high speed of jet pump 1
- 3rd press = high speed of jet pump 1 & 2 • 6th press = jet pumps off

Cantabria® Ultra Masseur® Control Panel Massage Sequence Indicator Lights

Speed button Determines the amount of time between steps in a jet sequence

Pause button Interrupts sequence and prolongs jets Sequences button Selects preprogrammed jet sequence.

LIGHTS BUTTON



The "LIGHTS" button activates the SpaGlo® multi-zone lighting system and controls its intensity. Pressing the "LIGHTS" button operates the light as follows:

- 1st press of the "LIGHTS" button: all lights on.
- 2nd press: bartop lights off.
- 3rd press: waterfall light off.
- 4th press: main light, Euphoria® Jet, and Grab Bar lights on medium intensity; external sconce lights on full intensity.
- 5th press: main light, Euphoria Jet, and Grab Bar lights on low intensity; external sconce lights on full intensity.
- 6th press: main light, Euphoria Jet, and Grab Bar lights off; external sconce lights on full intensity.
- 7th press: all lights off.

If the light will not turn on, make sure SPA LOCK is deactivated. SPA LOCK disables the controls on both the main and auxiliary control panel. (See the SPA LOCK section for more information on the SPA LOCK feature.)

LITE+ Menu

Your spa lights can display a variety of different colors, different intensities (on up to 4 different zones) as well as running through a continuous sequence of six colors (loops) at different speeds. To activate this function the following is required:

1. Press the "LIGHTS" button on the control panel to activate spa lights and the LITE+ menu.
2. On the control panel press the "MODE p" or "MODE q" button to scroll to the LITE+ menu. Once displayed, press the "ON p" button to enter the Lite ZONE menu.
3. Press the "MODE p" button to scroll from ZONE1 - ZONE2 - ZONE3 - ZONE4 - ALLZN - 24LT - EXIT screens.
4. Press the "ON p" button in any zone to go to the submenu for that zone. If in the 24LT mode, pressing the "ON p" button will turn on the Automatic Light Feature.

5. Press the "MODE p" button in the submenu to scroll through DIM - COLOR - LOOP - EXIT screens.
6. Press the "ON p" or the "OFF q" button in the DIM submenu to change the light intensity from brightest to off. Press the "MODE p" button to go from DIM to COLOR.
7. Press the "ON p" or the "OFF q" button in the COLOR submenu to change the light color. Press the "MODE p" button to go from COLOR to LOOP.
8. Press the "ON p" or the "OFF q" button in the LOOP submenu to change the speed of the color wheel from 3 being the fastest color sequence to no number stopping the loop. Press the "MODE p" button to go from LOOP to EXIT.
9. Press the "ON p" in EXIT to go back into the ZONE menus. Press the "ON p" in EXIT of ZONE menus to exit LITE+ mode. If any of the lights are left on, they will automatically be turned off by the control system after six hours of continuous operation. The light symbol on the control panel will also turn off when the lights are deactivated.

IMPORTANT INFORMATION:

- Each zone can either be turned on or off, have a different color, have a different intensity or have the loop turned on or off.
- When using the loop for more than one zone, the last zone loop will determine the speed of the other loops and the colors of all loops will be the same.
- If the "LIGHTS" button is used to turn off the lights while in the LOOP or COLOR mode, the same mode will exist when the lights are reactivated.

AUTOMATIC LIGHT FEATURE

The Automatic Light Feature allows you to set the SpaGlo lighting system (external sconce lights only) to activate at the same time every day and stay on for 6 hours.

Wait for the time of day you would like the automatic feature to start, use the steps below:

1. Press the "LIGHTS" button on the control panel to activate spa lights menu and the LITE+ menu.
2. On the control panel press the "MODE p" or "MODE q" button to scroll to the LITE+ menu. Once this is displayed, press the "ON p" button to enter the LITE (ZONE) menu.
3. Press the "MODE q" button to scroll to the 24LT screens.
4. Press the "ON p" button in the 24LT mode, pressing the on button will turn on the Automatic Light Feature. Press the "OFF q" button to deactivate feature.

System Mode



Your spa is equipped with a System Mode. This function will allow you to conveniently turn the jet(s) on high speed, the light on maximum intensity and the blower on at the same time. If your spa is equipped with a wireless music system it will not turn the music on, however when the system mode is deactivated the wireless music system will turn off. To activate the system mode, perform the following functions:

Press the "MODE p" button until SYSTM is displayed on the screen. Press the "ON p" button to activate the SYSTM mode feature.

NOTE: Once activated, any of the functions may be changed without affecting anything else. To deactivate the system mode, press the "MODE p" button until SYSTM is displayed on the screen. Press the "OFF q" button to deactivate.

Lock Override

The Lock Override feature is for spa users who normally keep the set temperature locked. Should the user wish to lock all spa controls temporarily, the spa lock can be applied over an already-applied temperature lock. Then, when the spa lock is removed, the temperature lock will remain on to prevent unwanted tampering with the set temperature.

SUMMER MODE

Your Caldera® spa is equipped with a Summer Mode timer. The Summer Mode timer can be activated during extremely hot summer months if it becomes difficult to maintain water temperatures low enough for comfort. When you turn on the Summer Mode timer, the heater will immediately shut down while the circulation pump (which can add heat to the water through normal operation) will remain on for approximately 5 minutes for heater cool-down. Both the heater and circulation pump will remain off for the next 8 hours. The summer mode icon on the main control panel will activate and remain active for as long as the summer mode timer is on. Following this 8-hour period, the circulation pump, heater, and ozone will continue to turn off for an 8-hour period every day that the Summer Mode timer is on. The continual 8-hour shutdown minimizes the amount of heat transferred to the spa water. When the outside temperatures begin to cool, the Summer Mode timer should be turned to the OFF position (the summer mode icon on the main control panel shuts off). This is the efficient 24-hour circulation mode that keeps the heater operation and operating costs to a minimum during colder/heavier usage months. **NOTE:** Whenever power is disconnected, and then reconnected to the spa, the Summer Mode timer will reset starting with the eight-hour shutdown mode. If a different eight-hour shut down time is desired, deactivate the Summer Mode, then reactivate at the beginning of the desired eight-hour shut down time.

IMPORTANT: The Summer Mode will not lower the spa's water temperature below the ambient air temperature.

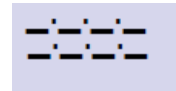
To activate the Summer Mode, follow these steps:

1. Set the temperature control to 80°F (26°C).
2. On the control panel press the "MODE q" button until the TOOLS menu is displayed. Then press the "ON p" button to enter the TOOLS submenus. Press the "MODE q" button until the STMR+ symbol is displayed on the screen. Press the "ON p" button to activate the Summer Timer mode. The Summer Mode must be deactivated when cooler temperatures return. To do this, simply follow step 3.
3. To shut the Summer Mode off, press the "MODE q" button until the TOOLS menu is displayed. Then press the "ON p" button to enter the TOOLS submenus press the "MODE q" button until the STMR- symbol is displayed on the screen. Press the "OFF q" button to deactivate.



Quick Troubleshooting Guide

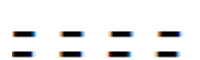
Spa does not heat, jets and light operate



Display shows eight dashes with 6 dots (see right)

The Pressure switch is open and should be closed. Ask the customer to check for clogged filter cartridges. The pressure switch will reset when the flow of water through the heater has been restored. **Book Service** if the pressure switch trips frequently.

Spa does not heat, jets and light operate



Display shows eight dashes (see right)

The Pressure switch senses flow through heater even though the jet pump is off
Book a Service Call.

Spa does not heat and Jets do not work



Display Shows,
Heater high limit thermostat tripped, Disconnect power to the spa for 2 min to reset the

heater high-limit. If tripping continues, clean the filter, then if tripping still occurs, **Book Service.**

Water temperature is significantly different from display temperature. Display shows flashing ``READY'' icon. The Pump is not properly primed.

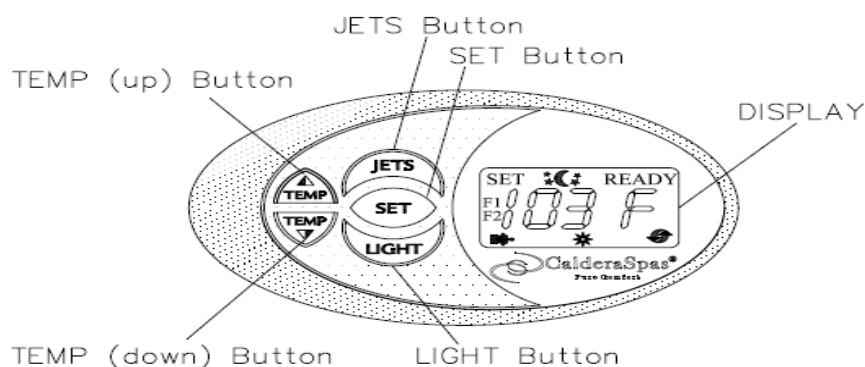
Turn off power to the spa at the breaker and remove the equipment compartment door

2. Loosen the union on the top of the pump(s) to allow the air to escape, then hand-tighten the union(s).

3. Turn power back on, activate the pump and check to make sure union is tight enough to keep it from leaking. Re-install pump and equipment doors.

OR: Remove and reinstall the SPA FROG cap.

2008 – Current Control Head



SPA-SIDE CONTROL OPERATION

Your spa-side control panel consists of an LED display and convenient touch pads that allow you to set the water temperature and adjust the skim/filter cycle settings, as well as control the hydrotherapy jets, and light from spa-side.

LED DISPLAY

The LED display on your spa-side control panel continually shows the spa's actual water temperature. In certain situations, it will also display other messages. See TROUBLESHOOTING section.

TEMPERATURE CONTROL

The set temperature range is from 80°F (27 °C) to 104°F (40°C) (Temperatures of any setting may rise slightly depending on the current use and condition of your spa, and on outside temperature). The factory-set temperature is 102°F (39°C). Whenever power is disconnected and then reconnected to the spa, the water temperature will automatically seek the last set temperature. Pressing the "TEMP ▲" button displays the spa's set temperature. To increase

the set temperature, press the “TEMP ▲” button again, once for each degree of increased temperature desired. If you hold the button down, the set temperature will increase by one degree every half second. When the set temperature has been reached, the “READY” icon will display. Pressing the “TEMP ▼” button displays the spa’s set temperature. To decrease the set temperature, press the “TEMP ▼” button again, once for each degree of decreased temperature desired. If you hold the button down, the set temperature will decrease by one degree every half second. When the spa water has reached the set temperature, the “READY” icon will display.



JET PUMP CONTROL

C45TM/C45STM Models only:

1. Press: Two-speed jet pump runs on low speed
2. Press: Two-speed jet pump runs on high speed
3. Press: One and Two-speed jet pumps run on high speed
4. Press: One-speed jet pump runs on high speed
5. Press: Both jet pumps are off.

C30TM/C30STM Models only:

1st press: Two-speed jet pump runs on low speed
2nd press: Two-speed jet pump runs on high speed
3rd press: Jet pump off



MYSTIQUE® LED LIGHTING

Your spa is equipped with the six color **Mystique Led Light** system. Press the “LIGHT” button on the control panel, for the highest level of brightness. Pressing the “LIGHT” button a second and third time will dim the light to lower intensities. Press “LIGHT” button a fourth time to turn the light off. To activate the automatic color sequence, press “SET” button. While the “SET” icon is flashing press the “LIGHT” button within 5 seconds, the “LIGHT” and “SET” icon will stop blinking. The automatic color sequence emits six different colors - blue, aqua, green, amber, red, and magenta. Once activated, the “LIGHT” icon will blink. To stop at a specific color, press the “SET” button. While the “SET” icon is flashing press the “LIGHT” button within 5 seconds, the “LIGHT” and “SET” icon will stop blinking.

To restart the automatic color sequence, press the “SET” button. While the “SET” icon is flashing press the “LIGHT” button within 5 seconds, the “LIGHT” and “SET” icon will stop blinking as the color sequence resumes.

LOCK FEATURES

The locking features, TEMPERATURE LOCK and SPA LOCK, are enabled from the control panel by a specific combination of buttons. Once enabled, a lock will remain active until the specific button combination is applied to disable the lock. Even if power is disconnected from the spa, and soon reapplied (such as a power outage), the lock will remain in place.

SPA LOCK

To activate the Spa Lock feature, press “SET” button. When the “SET” icon flashes push “TEMP ▼” button. Do not press any other buttons on the control panel until the “SET” icon stops flashing. The SLOC symbol is displayed and the “SET” icon will stop flashing. To deactivate the Spa Lock, press “SET” button. When the “SET” icon flashes, press the “TEMP ▼” button. Do not press any other buttons on the control panel until the “SET” icon stops flashing. The SLOC symbol is no longer illuminated and the “SET” icon will stop flashing.

TEMPERATURE LOCK

To activate the Temperature Lock feature, press “SET” button. When the “SET” icon flashes push “TEMP ▲” button. Do not press any other buttons on the control panel until the “SET” icon stops flashing. The TLOC symbol is displayed and the “SET” icon will stop flashing. To deactivate the Temperature Lock, press “SET” button. When the “SET” icon flashes, press the “TEMP ▲” button. Do not press any other buttons on the control panel until the “SET” icon stops flashing. The TLOC symbol is no longer illuminated and the “SET” icon will stop flashing.



FILTER CYCLES

Your spa will automatically turn the filter cycle on twice each day. When the spa is first powered up the automatic filter cycle will wait 10 minutes before starting. A 1.5 hour filter cycle using the low speed of the jet pump is the programmed filter cycle time. The display will show F1 and the filter icon. The filter cycle occurs twice a day (every 12 hours).

NOTE: The standard Monarch® ozone system only works during the filter cycles.

To modify the length of either filter cycle:

A. Press and hold the “SET” button for approximately three seconds (The filtration icon will flash during programming)

B. Press the “LIGHT” button to select the Filter Cycle 1 or 2 (a F1 or F2 will flash in the display).

NOTE: Each filter cycle needs to be set independently.

C. Using the TEMP ▲ or the TEMP ▼ button, adjust the length of filtering time desired (0 to 6 hours).

D. Programming will then be saved 10 seconds after the last button is pushed. The filter cycle will activate the low speed of the jet pump for the entire cycle. When activated, the filter cycle icon on the display is turned on. If the temperature exceeds the set point by three degrees F for more than three hours, the system will cancel the FILTER cycle and the filter cycle icon will blink for the remaining filter cycle time. Should the temperature cool down to 1.5 degrees F within the set point before the end of the cycle, the cycle will resume for the rest of the time. Should you use the spa during the filter cycle by placing the jet pump on high speed, the filter cycle icon will blink. Once the jet pump has been shut off, a ten minute tranquil mode begins (filter cycle icon will be blinking during tranquil mode) before the filter cycle will resume. The blinking filter cycle icon indicates that the filter cycle timer is still counting, but the cycle has been temporarily interrupted.

NOTE: When power is lost to the spa, both the temperature setting and filter cycle, revert to the previous setting. **OPERATION NOTE:** For proper water-circulation during filtration cycles, rotate the air control valves counter clockwise to the off position.

MANUAL CLEAN CYCLE

The Manual Clean cycle operates in the following manner: Jet pump runs for ten minutes on high speed. This system is initiated by pressing the “SET” button, then “JETS” button. The Filter and Jets icon will flash.



The Sleep Mode operation is a feature that overrides the normal filter cycle and minimizes pump operation during evening hours. For example, if Filter Cycle 1 (F1) is set to activate at 8:00am, by default, Filter Cycle 2 (F2) will be set to activate at 8:00pm (12 hrs. later). During 8:00pm to 8:00am, if the spa should call for heat, the pump and heater will activate to heat the spa under normal filter cycle operation. However, when in Sleep Mode, should the spa call for heat, the pump and heater will be suspended until the activation of Filter Cycle 1 at 8:00am, to minimize pump activation during evening hours.

NOTE: If water temperature drops below 80 degrees, pump and heater will automatically activate to prevent temperature from dropping further. To activate the Sleep Mode feature, press and hold “TEMP ▲” and “TEMP ▼” buttons together for 3 seconds. This will activate the feature and override the normal filter cycle operation. When these buttons have been engaged, the Sleep Mode icon will illuminate on the control panel display, indicating the feature is active. To deactivate this feature, simply press and hold the specific buttons in the same manner once again.