$5.00

CalSpas
A Division of California Acrylic Industries, Inc.

2006 Owner's Manual

All Portable Spas

Manufactured after December 1, 2005 • United States and Canada
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www.calspas.com

Due to our continuous improvement programs, all models, operation, and/or specifications are subject to change without prior notice.

LTR20061000, Rev. A
12/16/2005

CONTACT INFORMATION

For customer service, please contact your authorized dealer immediately. If you need additional information and/or assistance, please contact:

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Read This First!

Important Safety Instructions

When installing and using this electrical equipment, always follow basic safety precautions. Following these instructions will help make your first spa session a pleasurable one.

READ AND FOLLOW ALL INSTRUCTIONS

All 120V spas require a DEDICATED 20 AMP GFCI SERVICE. Do not use extension cords.

NOTE: A licensed electrician may be required to upgrade your standard receptacle and/or circuit breaker.

All 240V spas require a DEDICATED 50 AMP GFCI SERVICE WITH FOUR #6 AWG COPPER WIRES.

DANGER -- RISK OF ACCIDENTAL DROWNING: Do not allow children to be in or around a spa unless a responsible adult supervises them. Keep the spa cover on and locked when not in use. See instructions enclosed with your cover for locking procedures.

DANGER -- RISK OF INJURY: The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings, or the pump, be sure the flow rates are compatible.

DANGER -- RISK OF INJURY: Never operate the spa if the suction fitting or filter baskets are broken or missing.

DANGER -- RISK OF INJURY: Never replace a suction fitting with one that is rated less than the flow rate marked on the original suction fitting.

DANGER -- RISK OF ELECTRIC SHOCK: Install the spa at least 5 feet (1.5 meters) from all metal surfaces. As an alternative, a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently bonded by a minimum #8 AWG solid copper conductor to the outside of the spa's control box.

DANGER -- RISK OF ELECTRIC SHOCK: Do not permit any external electrical appliances, such as lights, telephones, radios, televisions, and etc., within 5 feet (1.5 meters) of the spa. Never attempt to operate any electrical device from inside the spa. This does not apply to lights, stereos and televisions that are built in to the spa as factory options from Cal Spas™.

WARNING -- RISK OF INJURY

- The spa water 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 spa use exceeds 10 minutes.

- High water temperatures have a high potential for causing fetal damage during pregnancy. Women who are pregnant, or who think they are pregnant, should always check with their physician prior to spa usage.

- The use of alcohol, drugs or medication before or during spa use may lead to unconsciousness, with the possibility of drowning.

- Persons suffering from obesity, a medical history of heart disease, low or high blood pressure, circulatory system problems or diabetes should consult a physician before using the spa.

- Persons using medications should consult a physician before using the spa since some medications may induce drowsiness while others may affect heart rate, blood pressure and circulation.

Hyperthermia Danger

Prolonged exposure to hot air or water can induce hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level 3˚F to 6˚F above the normal body temperature of 98.6˚F (or 2˚C to 4˚C above 37˚C). While hyperthermia has many health benefits, it is important not to allow your body's core temperature to rise above 103˚F (39.5˚C). Symptoms of excessive hyperthermia include dizziness, lethargy, drowsiness and fainting. The effects of excessive hyperthermia may include:

- Failure to perceive heat

- Failure to recognize the need to exit spa or hot tub

- Unawareness of impending hazard

- Fetal damage in pregnant women

- Physical inability to exit the spa

- Unconsciousness

WARNING: The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia.

Basic Spa Information

The following operating and maintenance instructions are very important and must be followed carefully. With the proper care and maintenance, your Cal Spa will provide you with years of satisfaction and performance.

Do not be afraid to push buttons or turn knobs to learn about your new Cal Spa, as it is built with quality materials and excellent craftsmanship.

Your new Cal Spa has been engineered with a high-powered water pump that pushes water through various therapy jets, which will relax even the tightest muscles. In addition to the water pressure, you can add air into the spa water with air venturi handles located seat-side that increase the intensity of your massage.

The filtering of this spa is very important. It will minimize cleaning time and the amount of chemicals needed to keep your spa water balanced. The two daily pre-programmed filter cycles of two hours in duration can be increased to six hour cycles if the need arises. This can be accomplished through the topside control panel.

IMPORTANT: Keep the spa covered when not in use!

- Covered spas use less electricity while maintaining a set temperature.

- Covering your spa will protect your spa's finish from the sun's ultraviolet rays.

- You are required to keep the spa covered to maintain warranty coverage.

- Covering your spa helps prevent children from drowning in the spa.

Your new Cal Spa comes equipped with an electric heater. Following the directions listed below will ensure the most efficient operation:

NOTE: This method is only for spa usage under two hours a week.

- Keep the spa's operating temperature 5˚ F below the desired usage temperature when not in use. One or two hours before use, set the temperature to the desired temperature.

- If the spa usage exceeds two hours a week, the set temperature should remain at the desired usage temperature.

- The air venturis should be used sparingly. When open, water temperature drops quite rapidly and can also dissipate chemicals.

Allowing the water temperature to lower more than 10˚F below the desired usage temperature and reheating it prior to usage will cause the heater to operate longer than it normally would maintaining the desired temperature. Doing this will increase your operating cost and makes your heater work more than necessary.

The filter needs to be cleaned or changed on a regular basis. This process takes only a few minutes and the result is increased water clarity and equipment longevity.

Water level is very important to the operation of your spa. If the water level is too low or too high, your spa will not operate properly. The water level should be to the middle of the skimmer area when the spa is not being used.

We recommend that your spa water be changed every 4 to 6 months. You may find the need to change your spa water more frequently with heavy use. When empty, your spa should be cleaned with a non-abrasive cleaner, such as Cal Spas™ All Surface Cleaner, and then rinsed thoroughly.

See the section "Cleaning and Maintaining Your Spa" for instructions on draining your spa.

When filling your spa, always fill through the skimmer filter canister. Use only regular tap water.

WARNING: DO NOT USE SOFT WATER.

Preparing for Your New Portable Spa

Congratulations! You have purchased a Cal Spa™. With a little preparation and care, your spa will give you many years of enjoyment. This section has been designed to ensure that your new spa is installed safely and is ready to enjoy as quickly as possible.

Most cities and counties require permits for exterior construction and electrical circuits. In addition, some communities have codes requiring residential barriers such as fencing and/or self-closing gates on property to prevent unsupervised access to the property by children. Your dealer can provide information on which permits may be required and how to obtain them prior to the delivery of your Cal Spa™.

Planning the Best Location For Your Spa

Here are some of the things that you will need to consider when determining where to place your new spa.

Safety First

- Do not place your spa within 10 feet (3 m) of overhead power lines.

- Make sure the spa is positioned so that access to the equipment compartment and all side panels will not be blocked. Be certain that your installation will meet all city and local safety codes and requirements.

Consider How You Will Use Your Spa

How you intend to use your spa will help you determine where you should position it. For example, will you use your spa for recreational or therapeutic purposes? If your spa is mainly used for family recreation, be sure to leave plenty of room around it for activity. If you will use it for relaxation and therapy, you'll probably want to create a specific mood around it.

Plan for Your Environment

If you live in a region where it snows in the winter or rains frequently, place the spa near a house entry. By doing this, you will have a place to change clothes and not be uncomfortable.

Consider Your Privacy

In a cold-weather climate, bare trees won't provide much privacy. Think of your spa's surroundings during all seasons to determine your best privacy options. Consider the view of your neighbors as well when you plan the location of your spa.

Provide A View With Your Spa

Think about the direction you will be facing when sitting in your spa. Do you have a special landscaped area in your yard that you find enjoyable? Perhaps there is an area that catches a soothing breeze during the day or a lovely sunset in the evening.

Keep Your Spa Clean

Prevent dirt and contaminants from being tracked into your spa by placing a foot mat at the spa's entrance where the bather's can clean their feet before entering your spa. You may also consider keeping a small water-filled basin nearby for bathers to rinse their feet before enter your spa.

In planning your spa's location, consider a location where the path to and from the house can be kept clean and free of debris.

Allow For Service Access

Many people choose to install a decorative structure around their spa. If you are installing your spa with any type of structure on the outside, such as a gazebo, remember to allow access for service. It is always best to design special installations so that the spa can still be moved, or lifted off the ground.

Preparing a Good Foundation for Your Portable Spa

Your spa needs a solid and level foundation. The area that it sits on must be able to support the weight of the spa and the occupants who use it. If the foundation is inadequate, it may shift or settle after the spa is in place, causing stress that could damage your spa shell or finish.

Damage caused by inadequate or improper foundation support is not covered by the warranty. It is the responsibility of the spa owner to provide a proper foundation for the spa. We strongly recommended that you have a qualified, licensed contractor prepare the foundation for your spa.

Place the spa on a level foundation (preferably a 4" concrete slab). If you are installing the spa indoors, pay close attention to the flooring beneath it. Choose flooring that will not be damaged or stained.

If you are installing your spa on an elevated wood deck or other structure, consult a structural engineer or a contractor to ensure the structure will support the weight of **150 pounds per square foot**.

Your Cal Spas™ retailer can help you with your foundation and more. Your retailer has a wealth of information and experience about how to get the most out of your spa and can provide you with a full line of accessories that are designed to compliment your spa and increase your enjoyment.

Electrical Set-up Before Delivery of Your Spa

When installed in the United States, the electrical wiring of this spa must meet the requirements of National Electric Code, ANSI/NFPA 70-1999 and any applicable state or local codes. The electrical circuit must be installed by an electrical contractor and approved by a local building / electrical inspector.

All 240V spas must be permanently connected (hard wired) to the power supply. 120V spas may use a GFCI cord, plugged into a dedicated grounded outlet. Supplying power to a spa that is not in accordance with these instructions will void both the independent testing agency listing and the manufacturer's warranty.

The power supplied to the spa must be on a dedicated GFCI protected circuit with no other appliances or lights sharing the power.

To determine the current, voltage, and wire size required for the spa configuration to be connected, refer to the following:

- Wire size must comply with NEC and/or local codes.

- Wire size is determined by length of run from breaker box to spa and maximum current draw.

- We recommend copper wire with THHN insulation.

- All wiring must be copper to ensure adequate connections. Do not use aluminum wire.

- When NEC requires the use of wires larger than #6 (10mm²), install a junction box near the spa and use #6 (10mm²) wire between the junction box and the spa.

IMPORTANT: A clearly labeled emergency shutoff or control switch for the purpose of disconnecting all electrical power to the spa including the motors, recirculation system and jet system(s) shall be installed at a point readily accessible to the users and not less than 5 feet (1.5 m) away, adjacent to, and within sight of the spa. (NEC 680.41)

The electrical circuit for the spa must include a suitable GFCI as required by NEC 680.42.

120 Volt Electrical Installation Guidelines

Always follow applicable local, state and federal codes and guidelines.

- Use only a dedicated electrical line with a 20-amp breaker.

- Cord-and-plug connections may not use a cord longer than 15 ft (4.6 m) and must be plugged into a dedicated 20-amp GFCI connection (NEC 680.42(A)(2)). **Do not use extension cords!**

- Always use a weatherproof-covered receptacle.

- Receptacle shall be located not less than 5 ft (1.5 m) from and not exceeding 10 ft (3.0 m) from the inside wall of the spa. (NEC 680.43(A))

- Do not bury the power cord.

- If your cord becomes damaged, replace it before next usage.

All 120V spas must have a GFCI (Figure 1). This can be either a 20-amp GFCI receptacle or a GFCI cord and plug kit (CKIT110 - P/N ELE09700086).
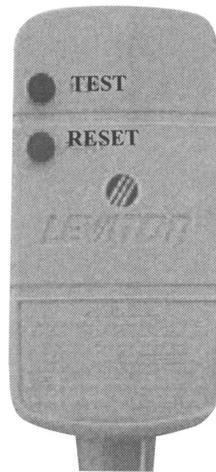
Figure 1. 120V, 15-amp GFCI Plug

Test the GFCI plug prior to first use and periodically when the spa is powered. To test the GFCI plug version, follow these instructions. (Spa should already be plugged in and operational.)

1. Press the TEST button on the GFCI. The GFCI will trip and the spa will stop operating.
2. Press the RESET button on the GFCI. The GFCI will reset and the spa will turn back on.

The spa is now safe to use.
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If the GFCI trips while the spa is in use, press the RESET button. If the GFCI does not reset, unplug the spa and call your local Cal Spas dealer for service. DO NOT USE THE SPA!

240 Volt Electrical Installation

All 240V spas are required to have a dedicated 50-amp GFCI breaker and should only be wired by a licensed electrician. GFCI breakers vary in appearance and wire locations. Before wiring load and feed wires to breaker verify they are being connected to the proper poles. Figure 2 and Figure 3 have been provided as guides.

- Always follow applicable local, state, and federal codes and guidelines.

- Your new 240V Cal Spa requires a dedicated, 50-amp GFCI Service with four #6 AWG copper wires. This will include a black and a red wire for your incoming power, a white wire used for your neutral, and a green wire for your ground.

You can use #6 AWG wire for a distance of up to 85 ft. Wire run over 85 ft must increase to #4 gauge. **This is the only acceptable electrical wiring procedure.** Spas wired in any other way will void your warranty and may result in serious injury.

Installing a GFCI breaker in the main electrical panel is not recommended. The further away a GFCI is installed from the spa, the higher the risk of false tripping of the GFCI breaker.

Test the GFCI breaker prior to first use and periodically when the spa is powered. To test the GFCI breaker follow these instructions. (Spa should be operating.)

1. Press the TEST button on the GFCI. The GFCI will trip and the spa will shut off.
2. Reset the GFCI breaker by switching the breaker to the full off position, wait a moment then turn the breaker back on. The spa should have power again.

Your spa is now safe to use.

Figure 2. Sample GFCI breaker
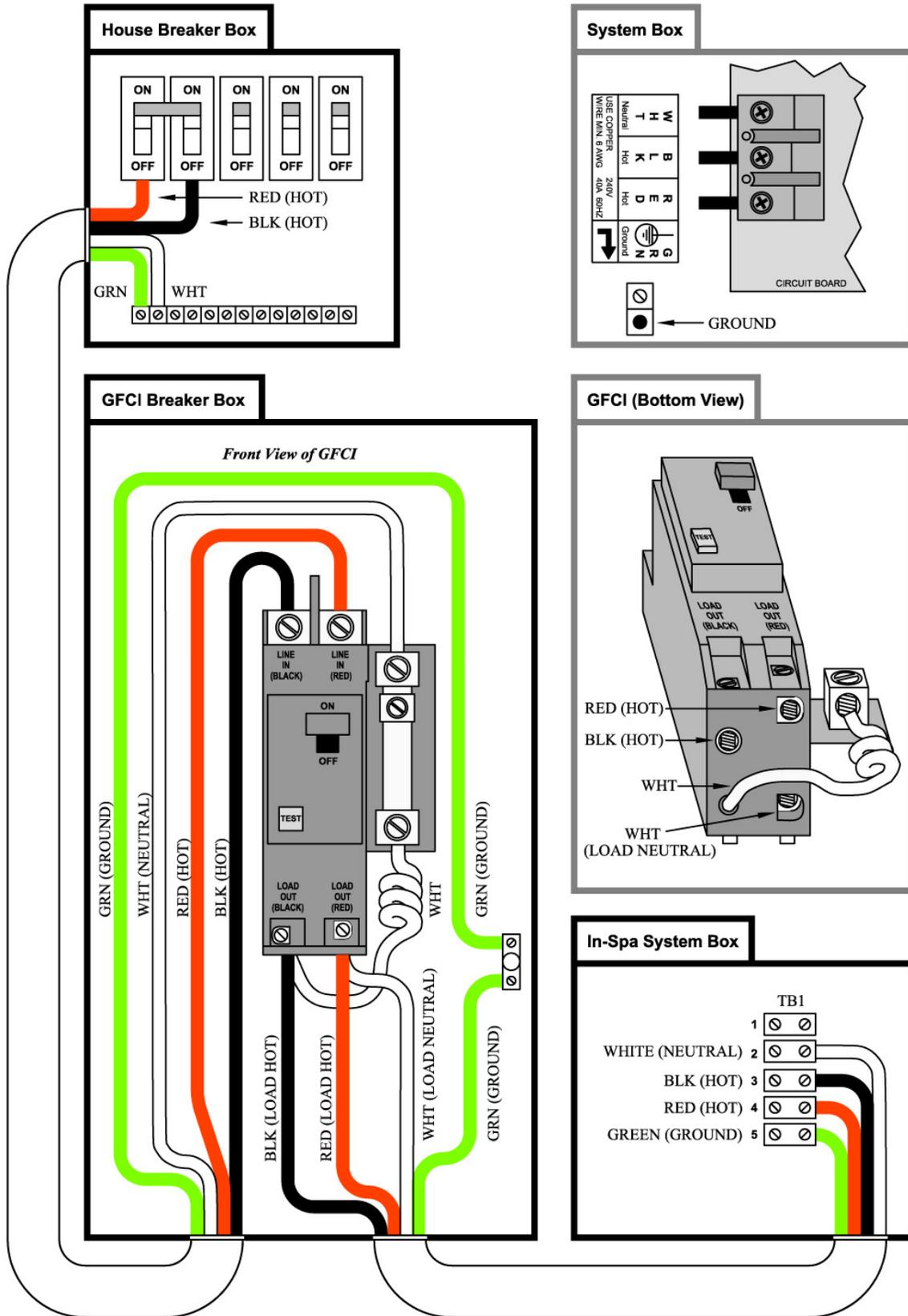
Figure 3. GFCI Hook-Up

Filling and Powering Up Your Portable Spa

Never fill your spa with soft water. Soft water makes it impossible to maintain the proper water chemistry and may cause the water to foam, which will ultimately harm the finish of the spa and void your warranty.

1. Once the spa has been placed on an approved surface and has been correctly wired by a licensed electrician, inspect all plumbing connections in the equipment area of your spa. Ensure that these connections are secure and that they did not loosen during shipment.

2. If equipped, open all gate valves in the equipment area. Before operating the spa, these valves must be in the up or "open" position.

3. Remove the filter basket and cartridge from skimmer/filter canister.

4. Place a garden hose in the skimmer/filter canister and fill your spa with regular tap water to the proper water level (halfway up the skimmer area).

5. (For owners of the automatic bromine generator) Make sure the dial on the face of the bromine generator unit is turned to the "OFF" position.

6. Open the air relief valve (located next to the two filters, if equipped) after the air bubbles stop coming out of it. Close the valve hand-tight.

7. Once the water is at the correct level and air is bled, turn on the power at the GFCI breaker. (Ensure that the 120V spas are connected to the proper electrical outlet.)

NOTE: When the power is turned on to the spa, it will perform a diagnostic check for 30 seconds. When the diagnostic is complete, the spa will automatically operate at filter speed and continue heating until the spa water temperature reaches the default temperature of 100˚F.

8. If no water is flowing when the pump is running there could be an air pocket at the suction side of the pump. Shut off power to the spa and loosen the pump union on the suction side of the pump to bleed the air. When air is bled, turn power back on.

9. Re-install the filter and the filter basket into the skimmer/filter canister.

The spa is now ready for use.

NOTE: Never run the spa with the gate valves closed or without water circulating for long periods of time. Be careful not to over-tighten the plumbing fittings.

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Operating Your Spa

1500 Electronic Control Operation
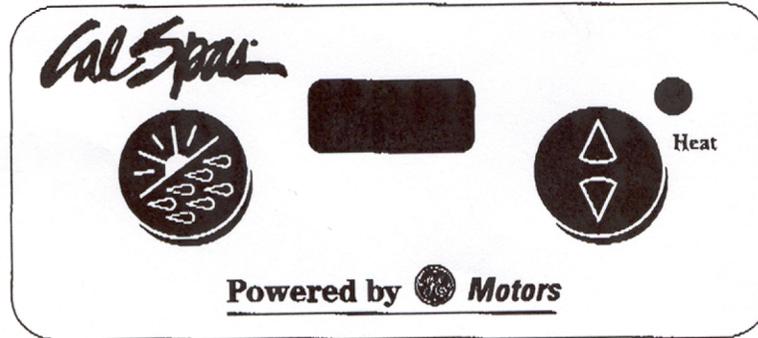
Figure 4. 1500 Electronic control panel

Temperature Adjustment

Range 80°F to 104°F

The 1500 electronic control panel (Figure 4) displays the actual water temperature in Fahrenheit.

To set the water temperature:

- Press the TEMPERATURE button. The temperature setting will flash.

- While the display is flashing, each time you press the TEMPERATURE button the set temperature will increase one degree.

- Allow the display to revert back to the actual water temperature.

- Press the TEMPERATURE button again.

- While the display is flashing, each time you press the TEMPERATURE button the set temperature will decrease by one degree.

Standard and Economy Modes

Your new spa is equipped with a heating feature that gives you complete control of the heating system. When the spa is powered up, it will automatically start in the standard heating mode. In this mode, the heating system will automatically activate whenever the water temperature drops more than one degree below the set temperature. In the economy-heating mode, the heating system will only activate during filtration times.

To switch from the standard heating mode to the economy-heating mode, press the "Jets/Light" button followed by the "Temp." then press the "Jets/Light" button. Press the same sequence to switch back to the standard heating mode. Once in the economy-heating mode, Ec will display in the center of the control panel and flash alternately with the water temperature.

NOTE: There is no control panel message displayed while in the standard heating mode; only the actual water temperature is displayed.

Jet / Light Controls

Press the JETS button:

- Once to activate the spa light

- Once to activate the pump at low speed

- Twice to activate the spa light and run the pump at high speed

- Three times to run the pump at high speed with the spa light off

- Four times to turn the pump off

Setting Filtration Cycles

Your spa will automatically filter itself twice a day. To set the filtration time, turn off the power to the spa at the GFCI Breaker and turn it back on at the time of day you would like the filtration cycles to start.

Example: If you power-up your spa at 12 Noon, your filtration cycles will start at 12 noon and 12 Midnight.

The first cycle will start after the spa is powered up. The second filtration cycle will begin twelve hours later. The filter cycle duration is preset for two hours. If spa usage is heavy, your Cal Spas™ authorized service technician can reconfigure your system to run two five hour filter cycles.

120V/240V Conversion

The 1500 series spa is a convertible system. The conversion from 120 Volts to 240 Volts must be performed by a licensed/bonded electrician. See 120 to 240 Volt conversion instructions, located on the inside cover of the control box.

Note: Only spas equipped with 1.5 BHP pumps may be converted to 120 Volts. Spas with 2.0 BHP pumps or larger can only be operated on 240 volt services.

120 Volt Heater Operation

When connected as a 120-Volt spa, the heater will only operate when the spa motor is on low speed or filtration speed. Once the high-speed motor is engaged, the heater will automatically disengage.

Automatic Time Outs

These features will automatically turn themselves off after periods of continuous use:

- Low-speed pump   4 hours

- High-speed pump   After 30 minutes

- Spa light   4 hours

Diagnostic Messages

Message	Meaning
OH	Overheat protection (spa is shutdown) DO NOT ENTER THE WATER! If the spa has reached 112˚F (45˚C), remove the spa cover to cool the water. Overheating may occur if the filter cycle is set too long. At 110˚F (43˚C), the spa should reset itself. If the high-limit sensor detects 118˚F (48˚C) at the heater, the spa will shut down. When the heater

cools down to 110˚F (43˚C), press any button to reset the spa. If the spa will not reset, then shut the power off to the spa and call your dealer of service organization.

FL   Flow Detection Switch. Pressure switch is not working correctly. Call your dealer or service organization.

Sn   Sensor (Spa is shut down). The high limit or water temperature sensor is not working correctly. Call your dealer or service organization.

Ec   Economy mode. Spa will only heat when filtration cycle is on.

5200 Electronic Control Operation

Figure 5. 5200 Electronic Control

Initial Start up

When first powered up, the 5200 system (Figure 5) performs a self-diagnostic check, runs at high speed for two seconds, and then switches to low speed to heat to and maintain 100°F (37.8°C) until you change the set temperature as described below.

Temperature Adjustment

Range 80°F to 104°F (26.7°C to 40°C)

The electronic control panel displays the actual water temperature in degrees Fahrenheit.

To display the temperature that the spa is set to:

- Press the "Temp" button. The set temperature setting will flash.

- While the display is flashing, each time you press the "Temp" button, the set temperature will increase or decrease by one degree.

Letting the display revert back to the actual water temperature, then pressing the "Temp" button again will allow you to change the direction of temperature adjustment.

Standard and Economy Modes

Your new spa is equipped with a heating feature that gives you complete control of the heating system. When the spa is powered up, it will automatically start in the standard heating mode. In this mode, the heating system will automatically activate whenever the water temperature drops more than one degree below the set temperature. In the economy-heating mode, the heating system will only activate during filtration times.

To switch from the standard heating mode to the economy-heating mode, press the "Temp" button followed by the "Light" button. Press the same sequence to switch back to the standard heating mode. Once in the economy-heating mode, Ec will display in the center of the control panel and flash alternately with the water temperature.

NOTE: There is no control panel message displayed while in the standard heating mode; only the actual water temperature is displayed.

Some spa models are equipped with the exclusive XL Heat Exchanger™, the most efficient spa heater available anywhere. This highly innovative device heats water faster and more efficiently with no chemical build-up. For your protection, it includes a High Limit Overheat Protection safety device that prevents spa equipment from overheating. The XL Heat Exchanger™ works automatically and requires no maintenance.

Jets

Press the "Jets" button:
- Once to activate the low speed pump
- Twice to activate the high speed pump
- Three times to turn off the high-speed

Pump will automatically start at high speed for two seconds every time the pump speed changes from high to low.

Light

Press the "Light" button to turn on the spa light and again to turn the light off.

Setting the Temperature Lock

This feature allows you to lock a temperature into the system. When engaged the set temperature will blink on and off when the "Temp" button is pressed. However, you will not be able to change it until you unlock the set temperature:
- Press the "Temp" button.
- Press the "Option" button to unlock the set temperature.
- Select a temperature with the "Temp" button.
- Press the "Option" button to set and lock the temperature.

Automatic Time Outs

These features will automatically turn themselves off during periods of continuous use:
- Low speed pump   After 4 hours
- High-speed pump   After 15 minutes
- Spa light   After 15 minute

Setting Filtration Cycles

Your spa will automatically filter itself twice a day. To set the filtration time, turn off the power to the spa at the GFCI breaker. Turn the GFCI breaker back on at the time of day you would like to start the filtration cycle. The first cycle will start after the spa is powered up. The second filtration cycle will begin twelve hours later. The filtration cycle duration is preset to 2 hours (F2). To change the duration of the filtration time, press the Temp pad, then press the Jets pad. Press the Temp button again to choose from 2,4,6,8, and 12 hours twice a day (FC = Filtration Continuous).

After selecting the desired filtration cycle duration, press the Jets pad to exit the filtration program. The circulating pump and ozone generator (optional) will run during filtration cycles.

NOTE: The filtration cycle settings of F8 and FC are only intended for use with the optional Spa Cal™ Filtration System.

Diagnostic Messages

Message	Meaning
OH	Overheat protection (spa is shutdown) **DO NOT ENTER THE WATER!** If the spa has reached 112˚F (45˚C), remove the spa cover to cool the water. Overheating may occur if the filter cycle is set too long. At 110˚F (43˚C), the spa should reset itself. If the high-limit sensor detects 118˚F (48˚C) at the heater, the spa will shut down. When the heater cools down to 110˚F (43˚C), press any button to reset the spa. If the spa will not reset, then shut the power off to the spa and call your dealer of service organization.
FL	Flow Detection Switch. Pressure switch is not working correctly. Call your dealer or service organization.
Sn	Sensor (Spa is shut down). The high limit or water temperature sensor is not working correctly. Call your dealer or service organization.
Sf	Safety Suction System (Spa is shut down). The display will show "Sf" as soon as the vacuum switch closes. All functions will turn off and the system will be disabled until a panel button is pressed.
LED	Heater LED will come on when the heater is on (and goes off when heater is off).
	Ozone LED will come on when in filtration cycles.

6000 and 6100 Electronic Control Operation

Figure 6. 6000 and 6100 Electronic Control Panel

Initial Start up

When first powered up, it will automatically revert to Priming mode. A "Pr" on the topside display will indicate this. Priming mode will be active for less than 5 minutes at which time the heater will be activated and the water temperature will be maintained in Standard mode. The spa will heat to 100°F (37°C) at start up until the set temperature is changed as described below.

Temperature Adjustment (Range 80°F to 104°F, 26°C to 40°C)

The 6000 and 6100 electronic control panels (Figure 6) display the actual water temperature in degrees Fahrenheit. The displayed temperature will only be current after the pump has been running for at least 2 minutes.

To display the temperature that the spa is set to:

- Press the "Temp" button. The temperature setting will flash.

- While the display is flashing, each time you press "Temp" button, the set temperature will change up or down one degree.

- If the desired temperature is opposite of the direction each press of the button is making, release button, allow display to stop flashing and then press "Temp" button to change temperature the other direction.

Standard, Economy and Sleep Heating Modes

Your new spa is equipped with a heating feature that gives you complete control of the heating system. When the spa is powered up, it will automatically start in standard heating mode. "St" will light briefly on the main display. In this mode, the heating system will automatically maintain the set spa temperature. In the economy-heating mode, the heating system will only activate during filtration times. "Ec" will display solid if temperature is not current and will alternate with spa temperature if measured temperature is current. Economy

mode will heat the water to the set temperature while Sleep mode, indicated by a "SL" on the main display, will also only activate the heater during the filtering cycles but will only heat the water to within 20°F (10°C) of the set temperature. Like Economy mode, "SL" will display solid when temperature is not current and will alternate with actual temperature when it is current.

NOTE: Displayed temperature will only be current after the pump has been running for at least 2 minutes.

Switching Modes

- Press "Temp" button followed by the "Light" button.

- Press the same sequence to switch to the next mode.

Jets

Press the "Jets" button:

- Once to activate low speed pump.

- Twice to activate high speed.

- Three times to return to turn pump off.

Light

Press the "Light" button to turn on the light. Press it once again to turn the light off. All optional lighting such as the control panel light and cabinet perimeter lighting is controlled by the "Light" button and will turn on and off with the spa light.

Pump 2 (6100 controls only)

Press the "Option" button to turn on the Pump 2 on. Press it once again to turn off the Pump 2 off.

Automatic Time outs

These features will automatically turn themselves off during periods of continuous use:

- Low speed pump   After 4 hours

- High speed pumps   After 15 minutes

- Optional circulation pump   After 15 minutes

- Optional turbo   After 15 minutes

- Spa light   After 15 minutes

Setting Filtration Cycles

Your spa is programmed to filter twice a day. The first cycle will begin 6 minutes after the spa is turned on and the second cycle 12 hours later. The factory has programmed the cycle to last for 2 hours but this can be switched to 4, 6, or 8 hours depending on your requirements. To set filtration time, turn off the power to the spa at the time of day you would like one of the filtration cycles to begin then turn back on after 30 seconds. When power has been restored, press the "Temp" button then the "Jets" button. Press "Temp" button again to change the filtering cycle duration. When desired duration is selected press the "Jets" button to exit.

At the beginning of each filtering cycle the Turbo system will run for approximately 30 seconds. The low speed pump will run for the duration of the filtering cycle and if an Ozone system is installed it will be activated. During filtering, "FC" will appear on the main display.

Diagnostic Messages

Message	Meaning
--	Spa temperature is unknown. After pump has been running for 2 minutes temperature will be displayed.
HH	Overheat protection (spa is shutdown) **DO NOT ENTER THE WATER!** One sensor has detected 118˚F (48˚C) at the heater. Remove the spa cover and allow spa to cool below 107˚F (42˚C). Press any button on the topside display to reset spa. If spa will not reset after spa has cooled, turn off power for approximately 30 seconds and then turn power back on. If display message is repeated then shut the power off to the spa and call your dealer or service organization.
OH	Overheat protection (spa is shutdown) **DO NOT ENTER THE WATER!** If the spa has reached 110˚F (43˚C), remove the spa cover to cool the water. At 107˚F (42˚C), the spa should reset itself. If the spa does not reset, then shut the power off to the spa, wait 30 seconds and restore power to spa. If display message is repeated then shut the power off to the spa and call your dealer or service organization.
IC	A possible ice condition exists within the spa. No action is required, the pump will automatically activate.
SA or Sb	Spa is shut down. Spa has detected that one of the sensors is not operating properly. One of these may display briefly during overheat then disappear when overheat situation has been resolved. Call your dealer or service organization if message does not go away.
Sn	Sensor (Spa is shut down). The high limit or water temperature sensors are not working correctly. Call your dealer or service organization.
HL	A difference in readings between temperature sensors has been detected indicating a possible water flow problem. Make sure spa is filled to proper level and that pumps are primed (water is flowing). Also check to make sure filter cartridges are clean. If message does not reset, call your dealer or service organization.
LF	This will display on the 5th occurrence of the "HL" message in 24 hours indicating a persistent flow problem. The heater will be shut down but other functions will continue to operate. Follow "HL" message actions then press any button to reset.

dr   Insufficient water flow through the heater has been detected. Spa will be shut down for 15 minutes. Check water level and fill spa if water level is low. Make sure pumps are primed (water is flowing) and filter cartridges are clean. Press any button to reset or wait 15 minutes and spa will automatically reset. If message does not reset, call your dealer or service organization.

dY   Insufficient water level detected in heater. This will display on the 3rd occurrence of "dr" message. Follow directions for "dr" message and press any button to reset spa. Spa will not automatically reset when "dY" is displayed.

Sf   Safety Suction System (Spa is shut down). The display will show "Sf" as soon as the vacuum switch closes. All functions will turn off and the system will be disabled until a panel button is pressed.

6200 and 6300 Electronic Control Operation

Figure 7. 6200 and 6300 Electronic Control Panel

Initial Start up

When first powered up, it will automatically revert to Priming mode. A "Pr" on the topside display will indicate this. Priming mode will be active for less than 5 minutes at which time the heater will be activated and the water temperature will be maintained in Standard mode. The spa will heat to 100°F (37°C) at start up until the set temperature is changed as described below.

Temperature Adjustment (Range 80°F to 104°F, 26°C to 40°C)

The 6200 and 6300 electronic control panels (Figure 6) display the actual water temperature in degrees Fahrenheit. The displayed temperature will only be current after the pump has been running for at least 2 minutes.

To display the temperature that the spa is set to:

- Press the "Temp" button. The temperature setting will flash.

- While the display is flashing, each time you press "Temp" button, the set temperature will change up or down one degree.

- If the desired temperature is opposite of the direction each press of the button is making, release button, allow display to stop flashing and then press "Temp" button to change temperature the other direction.

Standard, Economy and Sleep Heating Modes

Your new spa is equipped with a heating feature that gives you complete control of the heating system. When the spa is powered up, it will automatically start in standard heating mode. "St" will light briefly on the main display. In this mode, the heating system will automatically maintain the set spa temperature. In the economy-heating mode, the heating system will only activate during filtration times. "Ec" will display solid if

temperature is not current and will alternate with spa temperature if measured temperature is current. Economy mode will heat the water to the set temperature while Sleep mode, indicated by a "SL" on the main display, will also only activate the heater during the filtering cycles but will only heat the water to within 20°F (10°C) of the set temperature. Like Economy mode, "SL" will display solid when temperature is not current and will alternate with actual temperature when it is current.

NOTE: Displayed temperature will only be current after the pump has been running for at least 2 minutes.

Switching Modes

- Press "Temp" button followed by the "Light" button.

- Press the same sequence to switch to the next mode.

Jets

Press the "Jets" button:

- Once to activate low speed pump.

- Twice to activate high speed.

- Three times to return to turn pump off.

Light

Press the "Light" button to turn on the light. Press it once again to turn the light off. All optional lighting such as the control panel light and cabinet perimeter lighting is controlled by the "Light" button and will turn on and off with the spa light.

Option

Press the "Option" button to turn on the pump 2 on. Press it once again to turn off the pump 2 off "6200 Controls only"

6300 Controls - Pump 2 and Pump 3 Sequence

- Press "Option" button once to activate hi speed pump 2

- Press "Option" button twice to activate hi speed pump3 and hi speed pump 2

- Press 3 times to activate pump 3 hi speed only

- Press 4 times to turn pumps off

Note: A separate simplex button will be use for Turbo or air blower operation in 6200/6300 Controls.

Automatic Time outs

These features will automatically turn themselves off during periods of continuous use:

- Low speed pump   After 4 hours
- High speed pumps   After 15 minutes
- Optional circulation pump   After 15 minutes
- Optional turbo   After 15 minutes
- Spa light   After 15 minutes

Setting Filtration Cycles

Your spa is programmed to filter twice a day. The first cycle will begin 6 minutes after the spa is turned on and the second cycle 12 hours later. The factory has programmed the cycle to last for 2 hours but this can be switched to 4, 6, or 8 hours depending on your requirements. To set filtration time, turn off the power to the spa at the time of day you would like one of the filtration cycles to begin then turn back on after 30 seconds. When power has been restored, press the "Temp" button then the "Jets" button. Press "Temp" button again to change the filtering cycle duration. When desired duration is selected press the "Jets" button to exit.

At the beginning of each filtering cycle the Turbo system will run for approximately 30 seconds. The low speed pump will run for the duration of the filtering cycle and if an Ozone system is installed it will be activated. During filtering, "FC" will appear on the main display.

Diagnostic Messages

Message	Meaning
--	Spa temperature is unknown. After pump has been running for 2 minutes temperature will be displayed.
HH	Overheat protection (spa is shutdown) **DO NOT ENTER THE WATER!** One sensor has detected 118˚F (48˚C) at the heater. Remove the spa cover and allow spa to cool below 107˚F (42˚C). Press any button on the topside display to reset spa. If spa will not reset after spa has cooled, turn off power for approximately 30 seconds and then turn power back on. If display message is repeated then shut the power off to the spa and call your dealer or service organization.
OH	Overheat protection (spa is shutdown) **DO NOT ENTER THE WATER!** If the spa has reached 110˚F (43˚C), remove the spa cover to cool the water. At 107˚F (42˚C), the spa should reset itself. If the spa does not reset, then shut the power off to the spa, wait 30 seconds and restore power to spa. If display message is repeated then shut the power off to the spa and call your dealer or service organization.
IC	A possible ice condition exists within the spa. No action is required, the pump will automatically activate.
SA or Sb	Spa is shut down. Spa has detected that one of the sensors is not operating properly. One of these may display briefly during overheat then disappear when overheat situation has been resolved. Call your dealer or service organization if message does not go away.

Sn	Sensor (Spa is shut down). The high limit or water temperature sensors are not working correctly. Call your dealer or service organization.
HL	A difference in readings between temperature sensors has been detected indicating a possible water flow problem. Make sure spa is filled to proper level and that pumps are primed (water is flowing). Also check to make sure filter cartridges are clean. If message does not reset, call your dealer or service organization.
LF	This will display on the 5th occurrence of the "HL" message in 24 hours indicating a persistent flow problem. The heater will be shut down but other functions will continue to operate. Follow "HL" message actions then press any button to reset.
dr	Insufficient water flow through the heater has been detected. Spa will be shut down for 15 minutes. Check water level and fill spa if water level is low. Make sure pumps are primed (water is flowing) and filter cartridges are clean. Press any button to reset or wait 15 minutes and spa will automatically reset. If message does not reset, call your dealer or service organization.
dY	Insufficient water level detected in heater. This will display on the 3rd occurrence of "dr" message. Follow directions for "dr" message and press any button to reset spa. Spa will not automatically reset when "dY" is displayed.
Sf	Safety Suction System (Spa is shut down). The display will show "Sf" as soon as the vacuum switch closes. All functions will turn off and the system will be disabled until a panel button is pressed.

7000 Electronic Control Operation

When first powered up, the 7000 electronic system (Figure 8) will perform a self-diagnostic check and then it will automatically heat to and maintain a temperature of 100°F (37.5°C) until you change the set temperature as listed in the "Temperature Adjustment" section below.
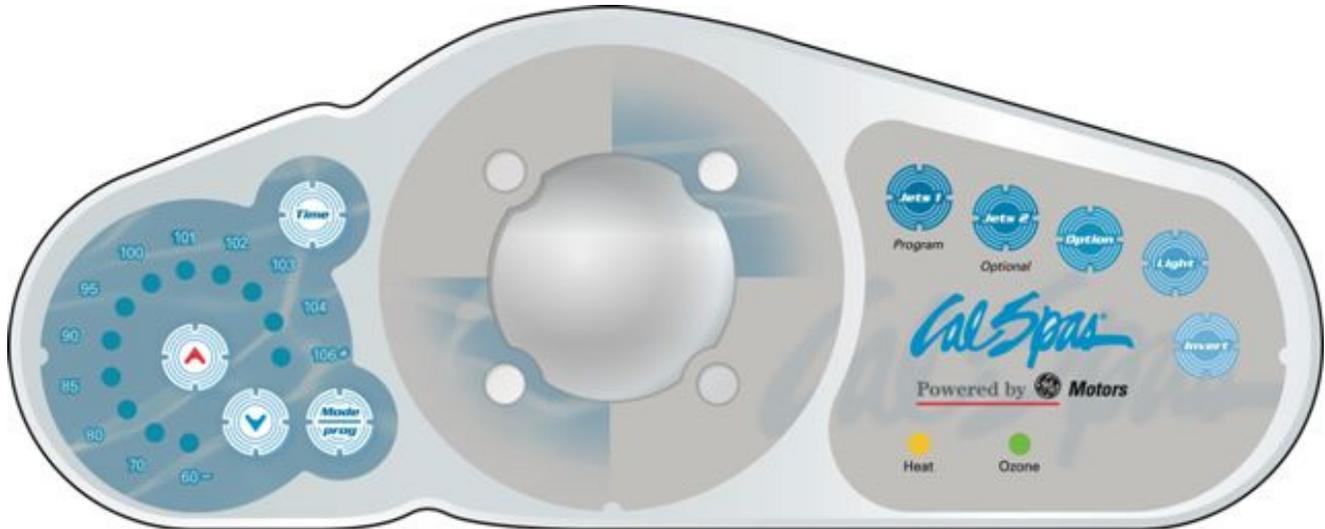
Figure 8. 7000 Electronic Control Panel

These instructions will describe features and options that your particular spa may not be equipped with.

Initial Start-up

When your spa is first powered up, it displays some configuration codes and then goes into priming mode (Pr will appear on the display panel). This mode lasts up to four minutes and then the spa begins to heat to its pre - programmed temperature of 100°F.

Temperature Adjustment

80°F - 104°F / 26.0°C - 40.0°C

The start-up temperature is set at 100°F / 37.5°C. The last measured temperature is constantly displayed on the control panel. Note that the last measured spa temperature is displayed. The displayed temperature will be updated when the pump has been running for at least two minutes.

Press the "UP" or "DOWN" buttons once to display the set temperature. Each time either button is pressed again, the set temperature will increase or decrease depending on which button is pressed. After three seconds, the control panel will automatically display the last measured spa temperature.

Note: Some spa models are equipped with the exclusive XL Heat Exchanger™, the most efficient spa heater available anywhere. This highly innovative device heats water faster and more efficiently with no chemical build-up. For your protection, it includes a High Limit Overheat Protection safety device that prevents spa equipment from overheating. The XL Heat Exchanger™ works automatically and requires no maintenance.

Time

When time hasn't been programmed, the "TIME" icon flashes. To set the time, press the "TIME" button and then the "MODE/PROG" button. Use the "UP" and "DOWN" buttons to adjust time. See the next page for more detailed instructions.

Standard, Economy, Sleep, and Standby Modes

Mode/Prog: This button is used to switch between standard, economy, and sleep modes.

1. Press "MODE/PROG" to enter mode programming.
2. Press the "DOWN" button to cycle through to the desired mode.
3. Press "MODE/PROG" to confirm selection.

Standard Mode: This is programmed to maintain the desired temperature. Note that the last measured spa temperature displayed is current only when the pump has been running for at least two minutes. The "STAND" icon will display until the mode is changed.

Economy Mode: Economy mode heats the spa to the set temperature only during filter cycles. The "ECON" icon will display until the mode is changed. Pressing the "JETS 1" button while in economy mode puts the spa in standard-in-economy mode, which operates the same as standard mode but reverts back to economy mode automatically after one hour. During this time, pressing the "MODE/PROG" button will revert to economy mode immediately.

Sleep Mode: Sleep mode heats the spa to within 20°F of the set temperature only during filter cycles. The "SLEEP" icon will display until the mode is changed.

Standby Mode: Pressing "Warm" or "Cool" then "JETS 2" will turn off all spa functions temporarily. This is helpful when changing a filter. Pressing any button resets the spa.

Jets 1

Press the "JETS 1" button once to turn pump 1 on or off and to shift between low and high speeds if equipped. If left running, the low speed turns off after two hours and the high speed turns off after 15 minutes. On non-circulation systems, the low speed of pump 1 runs when the blower or any other pump is on. It may also activate for at least two minutes every 30 minutes to detect the spa temperature and then to heat to the set temperature if needed, depending upon the mode. When the low speed turns on automatically, it cannot be deactivated from the panel; however, the high speed may be started.

Jets 2

This is optional with the 7000 controller. Press the "JETS 2" button once to turn pump 2 on or off and to shift between low and high speeds if it is a two-speed pump. If left running, the pump will turn off after 15 minutes.

Option

This button controls the optional blower. Press the "OPTION" button to turn the blower on and off. If left on, the equipment will automatically turn off after 15 minutes.

Light

Press the "LIGHT" button to turn the spa light on and off and to shift between dim and bright settings if your light is dimmable. On dim, the control panel will show the center circle plus one quarter of the light beams. Half of the light beams will show on medium brightness, and all of the light beams will show on bright.

Invert

Press the "INVERT" button to change the numbers in the display to read upside down. Another press returns the display to the right-side-up position. This enables you to read the display while you are in the spa.

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Locking the Panel

To lock the panel:

- Press "TIME", "JETS 1", and the "UP" button within three seconds. When locked, the panel will display "LOCK". All buttons are frozen except the "TIME" button.

To unlock the panel:

- Press "TIME", "JETS 1", and then the "DOWN" button within three seconds.

Setting the Temperature Lock

To activate the temperature lock:

- Press the "UP" or "DOWN" button, "TIME", "JETS 1", then the "UP" button within three seconds. The panel will display "TEMP LOCK" when the set temperature is locked.

To unlock the set temperature:

- Press the "UP" or "DOWN" button, "TIME", "JETS 1", and then the "DOWN" button.

Circulation Pump

This is an optional feature. The circulation pump will come on when the system is checking temperature, during filter cycles, during freeze conditions, or when another pump is on.

Preset Filter Cycles

There are two filter cycles per day. The start and end times of each cycle are programmable. To program, set the time as instructed above, then press "MODE/PROG" to advance to the next setting (or to exit after the last setting). The default filter cycles are as follows:

- The first filter cycle is automatically activated at 8:00 AM and operates the pump until 10:00 AM. The "FILTER 1" indicator icon will light when filter 1 is running.

- The second filter cycle is automatically activated at 8:00 PM and operates the pump until 10:00 PM. The "FILTER 2" indicator icon will light when filter 2 is running.

The pump and the ozone generator will run during filtration. At the start of each filter cycle, the blower will run on highest speed for 30 seconds to clean out the air channels. The lowest speed of pump 2 and pump 3 will run for five minutes.

Time of day is not preserved on 7000 systems. However, filter cycles are. In the event of power loss or shut down, the time of day will need to be reset for filter cycles to run according to your desired programming.

Clean-up Cycle

When the pump or blower is turned on by a button press, a clean-up cycle begins 30 minutes after the pump or blower is turned off or times out. The pump and the ozone generator will run for one hour.

Ozone

This is an optional feature. On most systems, the ozone generator (if installed) runs during filter cycles (except when pump 1 is operating at high speed on a non-circ system) and during clean-up cycles. On some systems, the ozone generator operates whenever the pump runs. If your system is configured with the optional ozone

disable feature, the ozone generator will turn off for one hour any time a function button ("JETS 1", "JETS 2", "OPTION" etc.) is pressed.

Freeze Protection

If the temperature sensors detect a drop to 44°F within the heater, the pump automatically activates to provide freeze protection. The equipment stays on until four minutes after the sensors detect that the spa temperature has risen to 45°F or higher. In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts similarly except with the temperature thresholds determined by the switch and without a four minute delay in turnoff.

Periodic Reminder Messages

Press the "Mode" button to reset a displayed reminder.

Message	Frequency	Action Required
rPH	Every 7 days	Test and adjust chemical levels per manufacturer's instructions.
rSA	Every 7 days	Test and adjust chemical levels per manufacturer's instructions.
rCL	Every 30 days	Remove, clean, and reinstall filter per manufacturer's instructions.
rtg	Every 30 days	Test and reset GFCI per manufacturer's instructions. Drain and refill spa per manufacturer's instructions.
rdr	Every 90 days	Drain and refill spa per manufacturer's instructions.
rCO	Every 180 days	Clean and condition spa cover
rCH	Every 365 days	Install New Bio-Clean™ Filter

WARNING! SHOCK HAZARD!
There are no user serviceable parts. DO NOT attempt service of this control system. Contact your dealer or service center for service.

Diagnostic Messages

Message	Meaning	Action Required
	No message on display. Power has been cut off to the spa.	The control panel will be disabled until power returns. Spa settings and time of day will be preserved for 30 days with a battery back-up; settings only are preserved until the next power-up on 7000 systems.
OHH	"Overheat" - The spa has shut down. One of the sensors has detected 118°F at the heater.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. Once the heater has cooled, reset by pushing any button. If spa does not reset, shut off the power to the spa and call your dealer or service organization.

Message	Meaning	Action Required
OHS	"Overheat" - The spa has shut down. One of the sensors has detected that the spa water is 110°F.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. At 107°F, the spa should automatically reset. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
ICE	"Ice" - Potential freeze condition detected.	No action required. The pumps and the blower will automatically activate regardless of spa status.
Sna	Spa is shut down. The sensor that is plugged into the Sensor "B" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)
Snb	Spa is shut down. The sensor that is plugged into the Sensor "A" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)
Sns	Sensors are out of balance. If this is alternating with the temperature, it may just be a temporary condition. If the display shows only this message (periodically blinking), the spa is shut down.	If the problem persists, contact your dealer or service organization.
HFL	A substantial difference between the temperature sensors was detected. This could indicate a flow problem.	If the water level is okay, make sure the pumps have been primed. If problem persists, contact your dealer or service organization.
LF	Persistent low flow problems. (Displays on the fifth occurrence of the "HFL" message within 24 hours.) Heater is shut down, but other spa functions continue to run normally.	Follow action required for "HFL" message. Heating capacity of the spa will not reset automatically; you may press any button to reset.
dr	Inadequate water detected in heater.	Check water level in spa. Refill if necessary. If the water level is okay, make sure the pumps have been primed. Press any button to reset.
dry	Inadequate water detected in heater. (Displays on third occurrence of "dr" message.) Spa is shut down.	Follow action required for "dr" message. Spa will not automatically reset; you may press any button to reset.
Pr	When your spa is first actuated, it will go into Priming mode.	The Priming mode will last for up to four minutes and then the spa will begin to heat and maintain the water temperature in the Standard mode.
--F or --C	Temperature unknown	After the pump has been running for two minutes, the temperature will be displayed.
------	Economy or Sleep mode. Temperature not displayed.	In Economy or Sleep mode, the pump may be off for hours outside a filter cycle. If you wish to see the current spa temperature, either switch to Standard mode or turn Jets1 on for at least two minutes.
BUF	Internal problem detected.	Repair required. Contact your dealer or service organization.

Message	Meaning	Action Required
Stby	Pressing a button combination on the user panel has activated standby Mode.	Press any button to leave Standby Mode and return to normal operation.
SF	Safety Suction.	Spa is shut down. The display will show "SF" when a vacuum switch closes. All functions will turn off and the system will be disabled until a panel button is pressed.

9800 Electronic Control Operation

When first powered up, the 9800 electronic system (Figure 9) will perform a self-diagnostic check and then it will automatically heat to and maintain a temperature of 100°F (37.5°C) until you change the set temperature as listed in the "Temperature Adjustment" section below.
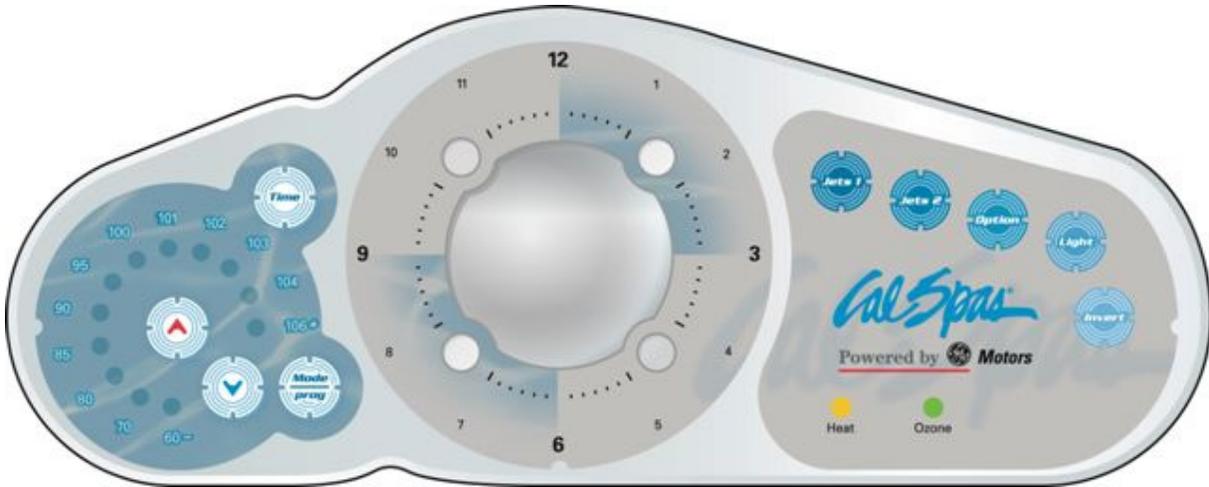

Figure 9. 9800 Electronic Control Panel

These instructions will describe features and options that your particular spa may not be equipped with.

Initial Start-up

When your spa is first powered up, it displays some configuration codes and then goes into priming mode (Pr will appear on the display panel). This mode lasts up to four minutes and then the spa begins to heat to its pre - programmed temperature of 100°F.

Temperature Adjustment

80°F - 104°F (26.0°C - 40.0°C)

The start-up temperature is set at 100°F (37.5°C). The last measured temperature is constantly displayed on the control panel. Note that the last measured spa temperature is displayed. The displayed temperature will be updated when the pump has been running for at least two minutes.

Press the "UP" or "DOWN" buttons once to display the set temperature. Each time either button is pressed again, the set temperature will increase or decrease depending on which button is pressed. After three seconds, the control panel will automatically display the last measured spa temperature.

NOTE: Some spa models are equipped with the exclusive XL Heat Exchanger™, the most efficient spa heater available anywhere. This highly innovative device heats water faster and more efficiently with no chemical build-up. For your protection, it includes a High Limit Overheat Protection safety device that prevents spa equipment from overheating. The XL Heat Exchanger™ works automatically and requires no maintenance.

Time

When time hasn't been programmed, the "TIME" icon flashes. To set the time, press the "TIME" button and then the "MODE/PROG" button. Use the "UP" and "DOWN" buttons to adjust time. See the next page for more detailed instructions.

Standard, Economy, Sleep, and Standby Modes

Mode/Prog: This button is used to switch between standard, economy, and sleep modes.

1. Press "MODE/PROG" to enter mode programming.
2. Press the "DOWN" button to cycle through to the desired mode.
3. Press "MODE/PROG" to confirm selection.

Standard Mode: This is programmed to maintain the desired temperature. Note that the last measured spa temperature displayed is current only when the pump has been running for at least two minutes. The "STAND" icon will display until the mode is changed.

Economy Mode: Economy mode heats the spa to the set temperature only during filter cycles. The "ECON" icon will display until the mode is changed. Pressing the "JETS 1" button while in economy mode puts the spa in standard-in-economy mode, which operates the same as standard mode but reverts back to economy mode automatically after one hour. During this time, pressing the "MODE/PROG" button will revert to economy mode immediately.

Sleep Mode: Sleep mode heats the spa to within 20°F (6.7°C) of the set temperature only during filter cycles. The "SLEEP" icon will display until the mode is changed.

Standby Mode: Pressing "Warm" or "Cool" then "JETS 2" will turn off all spa functions temporarily. This is helpful when changing a filter. Pressing any button resets the spa.

Jets 1 and Jets 2

Press the "JETS 1" button once to turn pump 1 on or off and to shift between low and high speeds if equipped. If left running, the low speed turns off after two hours and the high speed turns off after 15 minutes. On non-circulation systems, the low speed of pump 1 runs when the blower or any other pump is on. It may also activate for at least two minutes every 30 minutes to detect the spa temperature and then to heat to the set temperature if needed, depending upon the mode. When the low speed turns on automatically, it cannot be deactivated from the panel; however, the high speed may be started.

Option

This is an optional feature. Press the "OPTION" button to turn the optional equipment on and off. If left on, the equipment will automatically turn off after 15 minutes.

Light

Press the "LIGHT" button to turn the spa light on and off and to shift between dim and bright settings if your light is dimmable. On dim, the control panel will show the center circle plus one quarter of the light beams. Half of the light beams will show on medium brightness, and all of the light beams will show on bright.

Invert

Press the "INVERT" button to change the numbers in the display to read upside down. Another press returns the display to the right-side-up position. This enables you to read the display while you are in the spa.

Locking the Panel

To lock the panel:

*   Press "TIME", "JETS 1", and the "UP" button within three seconds. When locked, the panel will display "LOCK". All buttons are frozen except the "TIME" button.

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To unlock the panel:

• Press "TIME", "JETS 1" then the "DOWN" button within three seconds.

Setting the Temperature Lock

To activate the temperature lock:

• Press the "UP" or "DOWN" button, "TIME", "JETS 1", then the "UP" button within three seconds. The panel will display "TEMP LOCK" when the set temperature is locked.

To unlock the set temperature:

• Press the "UP" or "DOWN" button, "TIME", "JETS 1", and then the "DOWN" button.

Circulation Pump

This is an optional feature. The circulation pump will come on when the system is checking temperature, during filter cycles, during freeze conditions, or when another pump is on.

Preset Filter Cycles

There are two filter cycles per day. The start and end times of each cycle are programmable. To program, set the time as instructed above, then press "MODE/PROG" to advance to the next setting (or to exit after the last setting). The default filter cycles are as follows:

• The first filter cycle is automatically activated at 8:00 AM and operates the pump until 10:00 AM. The "FILTER 1" indicator icon will light when filter 1 is running.

• The second filter cycle is automatically activated at 8:00 PM and operates the pump until 10:00 PM. The "FILTER 2" indicator icon will light when filter 2 is running.

The pump and the ozone generator will run during filtration. At the start of each filter cycle, the blower will run on highest speed for 30 seconds to clean out the air channels. The lowest speed of pump 2 and pump 3 will run for five minutes. In the event of power loss or shut down, the time of day will need to be reset for filter cycles to run according to your desired programming.

Clean-up Cycle

When the pump or blower is turned on by a button press, a clean-up cycle begins 30 minutes after the pump or blower is turned off or times out. The pump and the ozone generator will run for one hour.

Ozone

This is an optional feature. On most systems, the ozone generator (if installed) runs during filter cycles (except when pump 1 is operating at high speed on a non-circ system) and during clean-up cycles. On some systems, the ozone generator operates whenever the pump runs. If your system is configured with the optional ozone disable feature, the ozone generator will turn off for one hour any time a function button ("JETS 1", "JETS 2", "OPTION" etc.) is pressed.

Freeze Protection

If the temperature sensors detect a drop to 44°F within the heater, the pump automatically activates to provide freeze protection. The equipment stays on until four minutes after the sensors detect that the spa temperature has risen to 45°F or higher. In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts

similarly except with the temperature thresholds determined by the switch and without a four-minute delay in turnoff.

Periodic Reminder Messages

Press the "Mode" button to reset a displayed reminder.

Message	Frequency	Action Require
rPH	Every 7 days	Test and adjust chemical levels per manufacturer's instructions.
rSA	Every 7 days	Test and adjust chemical levels per manufacturer's instructions.
rCL	Every 30 days	Remove, clean, and reinstall filter per manufacturer's instructions.
rtg	Every 30 days	Test and reset GFCI per manufacturer's instructions. Drain and refill spa per manufacturer's instructions.
rdr	Every 90 days	Drain and refill spa per manufacturer's instructions.
rCO	Every 180 days	Clean and condition spa cover
rCH	Every 365 days	Install New Bio-Clean™ Filter

WARNING! SHOCK HAZARD!
There are no user serviceable parts. DO NOT attempt service of this control system. Contact your dealer or service center for service.

Diagnostic Messages

Message	Meaning	Action Required
	No message on display. Power has been cut off to the spa.	The control panel will be disabled until power returns. Spa settings and time of day will be preserved for 30 days with a battery back-up; settings only are preserved until the next power-up on 9800 systems.
OHH	"Overheat" - The spa has shut down. One of the sensors has detected 118°F at the heater.	**DO NOT ENTER THE WATER!** Remove the spa cover and allow water to cool. Once the heater has cooled, reset by pushing any button. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
OHS	"Overheat" - The spa has shut down. One of the sensors has detected that the spa water is 110°F.	**DO NOT ENTER THE WATER!** Remove the spa cover and allow water to cool. At 107°F (41.7°C), the spa should automatically reset. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
ICE	"Ice" - Potential freeze condition detected.	No action required. The pumps and the blower will automatically activate regardless of spa status.
Sna	Spa is shut down. The sensor that is plugged into the Sensor "B" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)

Message	Meaning	Action Required
Snb	Spa is shut down. The sensor that is plugged into the Sensor "A" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)
Sns	Sensors are out of balance. If this is alternating with the temperature, it may just be a temporary condition. If the display shows only this message (periodically blinking), the spa is shut down.	If the problem persists, contact your dealer or service organization.
HFL	A substantial difference between the temperature sensors was detected. This could indicate a flow problem.	If the water level is okay, make sure the pumps have been primed. If problem persists, contact your dealer or service organization.
LF	Persistent low flow problems. (Displays on the fifth occurrence of the "HFL" message within 24 hours.) Heater is shut down, but other spa functions continue to run normally.	Follow action required for "HFL" message. Heating capacity of the spa will not reset automatically; you may press any button to reset.
dr	Inadequate water detected in heater.	Check water level in spa. Refill if necessary. If the water level is okay, make sure the pumps have been primed. Press any button to reset.
dry	Inadequate water detected in heater. (Displays on third occurrence of "dr" message.) Spa is shut down.	Follow action required for "dr" message. Spa will not automatically reset; you may press any button to reset.
Pr	When your spa is first actuated, it will go into Priming mode.	The Priming mode will last for up to four minutes and then the spa will begin to heat and maintain the water temperature in the Standard mode.
--F or **--C**	Temperature unknown	After the pump has been running for two minutes, the temperature will be displayed.
------	Economy or Sleep mode. Temperature not displayed.	In Economy or Sleep mode, the pump may be off for hours outside a filter. If you wish to see the current spa temperature, either switch to Standard mode or turn Jets1 on for at least two minutes.
BUF	Internal problem detected.	Repair required. Contact your dealer or service organization.
Stby	Pressing a button combination on the user panel has activated standby Mode.	Press any button to leave Standby Mode and return to normal operation.
SF	Safety Suction.	Spa is shut down. The display will show "SF" when a vacuum switch closes. All functions will turn off and the system will be disabled until a panel button is pressed.

Auxiliary Control Operation

The auxiliary control option is available with the 9800 control only. It is a small panel with four buttons that control certain spa functions, such as primary or additional jets, TV, or lights (Figure 10). It conveniently puts the control of several spa functions at your fingertips without having to get up.

Auxiliary Panel Configuration	Functions
Standard configuration	JETS 1, JETS 2, LIGHT, OPTION
Auxiliary panel in Infinity Series	JETS 3, JETS 4, JETS 5, OPTION
Spa models with automatic TV	JETS 1, JETS 2, TV, OPTION
Spa models with 3-pump system	JETS 1, JETS 2, JETS 3, OPTION

For operation, see the previous section, "9800 Electric Control Operation".

Figure 10. Auxiliary control panel

Adjustable Jets

Almost all of the jets in your spa are adjustable. Rotating the face of an adjustable jet to the left (counter-clockwise) will decrease the amount of water flow through the jet. Rotating the face of an adjustable jet to the right (clockwise) will increase the amount of water flow through the jet. (See example shown in Figure 11 below.)

NOTE: Neck jets adjust in the opposite directions (counter-clockwise to increase, clockwise to decrease).
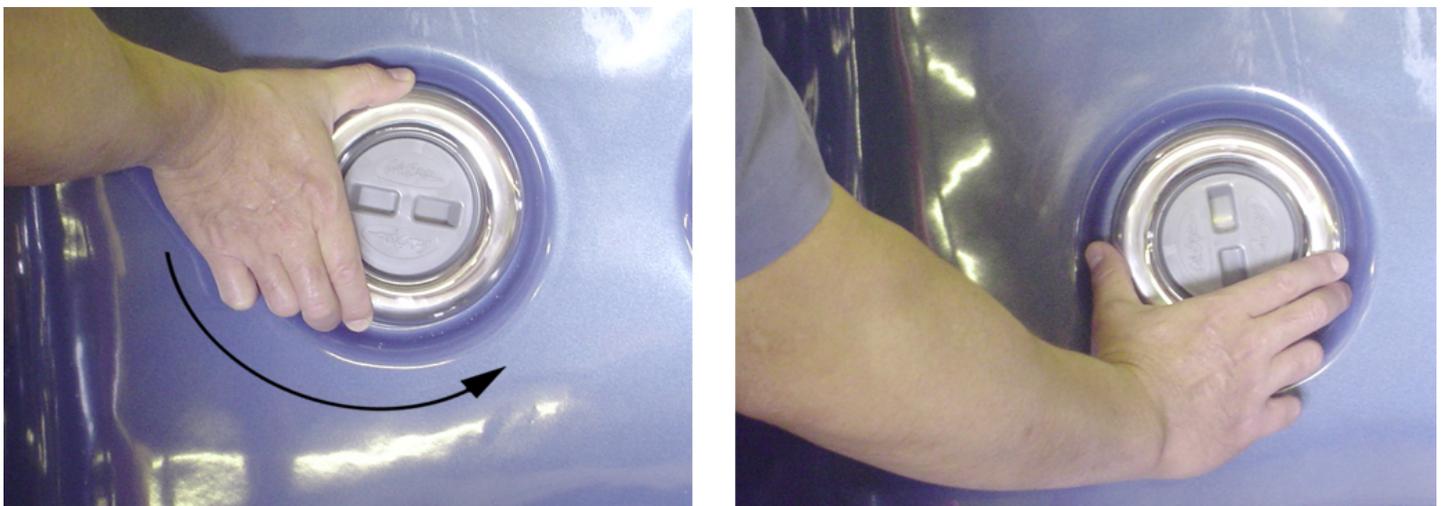
Figure 11. Rotating an adjustable jet

Diverter Knobs

Diverter knobs are the larger knobs located around the top of your spa (Figure 12). They allow you to divert water through jets from one side of the spa to the other, or in most cases from floor jets to wall jets. This is accomplished by rotating the diverter knob to the left (counterclockwise), decreasing the amount of water flow through a section of jets. To increase the amount of water flow through the other section of jets, rotate the handle to the right (clockwise).

Figure 12. Diverter knob

Air Venturis

Air venturis are the smaller knobs located around the top of your spa. They can also be distinguished from diverter knobs by the arrows and the words "OFF", "ON" and "AIR" marked on them (Figure 13). Each one will let you add a mixture of air with the jet pressure. This is accomplished by rotating the air venturi knob to the left (counter-clockwise) to increase the amount of airflow through the jets. To decrease the amount of airflow through the jets, rotate the handle to the right (clockwise).

Figure 13. Air Venturis

Adjustable Therapy System™

Spas equipped with the Adjustable Therapy System™ (ATS) allow you complete control of the therapy seat and/or lounger. This unique system offers convenient operation with its seat side controls, seven different massage modes, and a soothing demo mode -- all at the touch of a button (Figure 14).
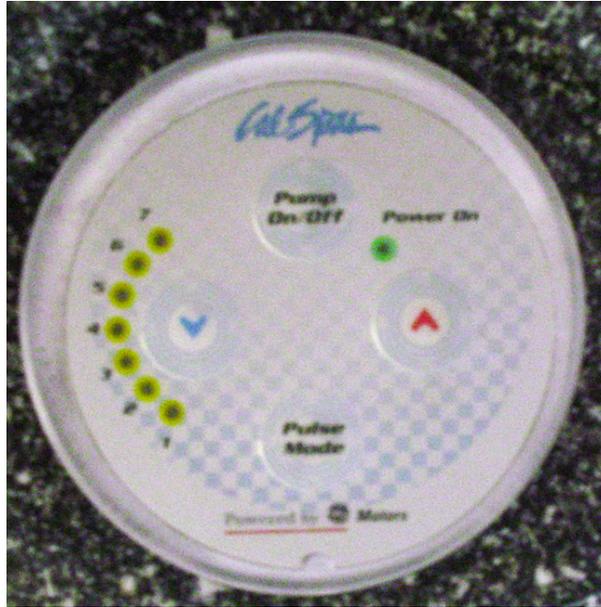
Figure 14. Adjustable Therapy System™ seat side control

Pump On/Off

This button allows the user to turn on and off the ATS™ seat pump. Press this button once to turn the pump on. Once on, the green LED light on the control panel will illuminate, indicating that the system is operational. To turn off the pump, press the "PUMP ON/OFF" button a second time. Note: The pump must be on prior to operating any other features of this system.

Pulse Mode

This button allows the user to turn the ATS™ massage control on and off. Press the pulse button once to turn on the massage control. Once pressed, the orange LED in position number 1will light, indicating the number one pulse mode. Each press of either the up or down button will move the orange LED up or down to the next pulse mode.

Note: Allow one second between each button press. Pressing the button quickly may cause improper operation. To turn the pulse mode off and return to normal pump operation, press the "PULSE MODE" button a second time.

Up

This button allows the user to cycle up from one through seven massage modes one at a time. Each mode offers a different pulsating massage. Some modes are faster than others, so just cycle through them to find the massage you like best.

Down

This button allows the user to cycle down through all seven massage modes, one at a time.

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Demo Mode

After turning on the pump and pulse mode, press and hold both the "UP" and "PULSE MODE" buttons together for two seconds then release. In this mode, every 20 seconds this system will automatically switch to the next massage mode. Once the user finds the perfect massage mode, pressing either the "UP" or "DOWN" button will stop the demo in that massage mode.

Time Reset Mode

Pulse mode will normally run for 15 minutes then automatically shut off. For another 15-minute session, press the "PUMP ON/OFF" button and the "PULSE MODE" button. A green LED will blink and the pump will run on high-speed mode as part of a 15-minute cool down period. After that, the pump will stop automatically and the green LED light on the panel will continue to blink for one minute then shut off automatically. After the second 15-minute session, the system will run through a cool down cycle for up to two hours. In this cool down mode, the user will only be able to operate the pump (by again pressing the "PUMP ON/OFF" button). However, the massage mode will remain off until the cool down mode is completed.

Pulse Mode System

Pulse mode system will shut off for two hours unless reset by the following procedure. During this time the pump will run at a maximum speed.

- In the off position, press the "PULSE MODE" button once.

- The green power light will flash to indicate reset.

Multi-Colored Spa Light Operation

10 Dramatic Lighting Modes

Experience each different lighting mode by turning the spa light off and on to change lighting effects:

- WHITE: Pure, bright white

- SPECTRUM SLOW DANCE: Vibrant, slow fade through all colors

- SUNBURST: Yellow and orange color swirl

- BLUE: Clear and brilliant blue

- RED: Radiant and invigorating red

- GREEN: Nature's lush green

- MAGENTA: Rejuvenating glow of pink, blue and red

- TIDAL FADE: Fade through blues and greens

- AFTERBURNER FADE: Fade through red, orange, pink, yellow & purple

- COLOR BURST: Energetic strobe through all colors

Operating the Multi-Colored Spa Light

4.   Turn the spa light on by pressing the "LIGHT" button on the topside control panel.

5.   To filter through the different color choices, press the button on and off. Each time you press the button, you advance to the next color.

6.   To turn the spa light off when not in use, press the "LIGHT" button.

Using the Random Light Feature

1.   Turn the spa light on by pressing the "LIGHT" button on the topside control panel.

2.   Cycle through the color range twice. After the last light from the second cycle has been lit, the random light feature turns on and the spa light cycles through each individual light.

3.   To turn the spa light off when not in use, press the "LIGHT" button.

The slow fade feature comes on right after the color white. The first color for the feature is green and then slowly goes through the color spectrum. The last fade does the same thing as the slow fade, only faster.

Spa Cover

Important! Keep the spa covered when not in use!

*   Covered spas will use less electricity in maintaining your set temperature.

*   Covering your spa will protect your spa's finish from the sun's ultraviolet rays.

*   You are required to keep the spa covered to maintain warranty coverage.

*   Covering your spa helps prevent children from drowning in the spa.

See the manual enclosed with your cover for instructions on mounting the locks and how to lock and unlock the cover.

In addition, while the spa cover is rigid, it is not designed to support any weight. Therefore, as a safety precaution and to preserve the life of your cover, you must not sit, stand, or lie on it; nor should you place objects of any kind on top of it.

Aromatherapy

This optional accessory is very easy to use. Unscrew the cap on the aromatherapy chamber and drop in a bag of scented aromatherapy beads and replace the cap.

Waterfalls

Some spa series include optional waterfalls. When the booster pump is on, turn the knob near the waterfall. Water will immediately start flowing through it.

Removing and Reseating the Pillows

You can remove the pillows for cleaning and maintenance quickly and easily. This method works for all types of pillows.

Grab the lower edge of the pillow with both hands firmly and pull up. As you do this, the pillow inserts will pop out of the holes. (See Figure 15.)

Figure 15. Removing a pillow

Reseat the pillows by aligning the pillow inserts with the holes and striking the pillow hard enough to insert the pegs back into the holes. (See **Error! Reference source not found.** and Figure 16).

Figure 16. Reseating a pillow

Draining Your Portable Spa

Your spa should be drained every four to six months, and refilled with fresh tap water. The following is the recommended method for draining your spa.

1.   Turn off the power at the breaker.

2.   Remove all filters.

If your drain valve is mounted on the side of the spa cabinet (as shown in Figure 17), proceed to step 5.

Figure 17. Cabinet mounted drain valve

If your drain valve is located inside the spa cabinet:

3.   Using a Phillips screwdriver, remove the screws to the access panel and open it.

4.   Locate hose ending with the 3/4 inch hose-bib fixture (Figure 18).
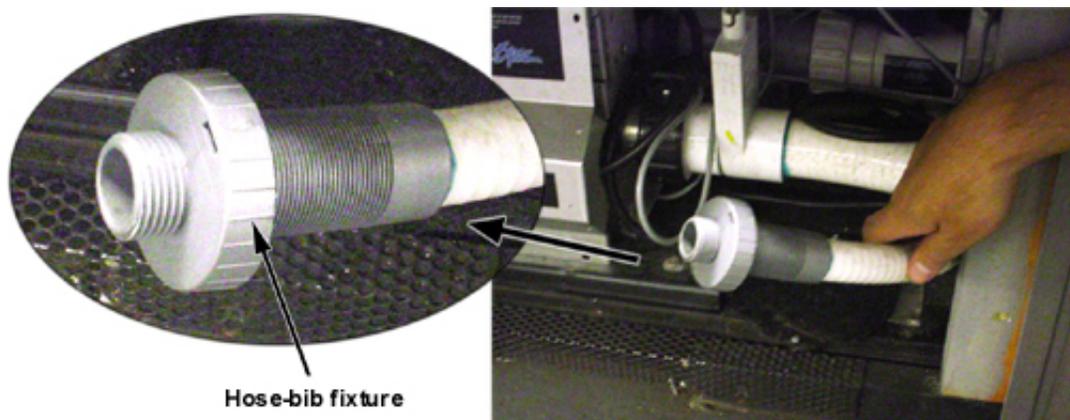
Hose-bib fixture

Figure 18. 3/4 inch hose-bib fixture

5.   Hook up the female end of a garden hose to the drain fitting.

6.   Place the other end of the garden hose where you would like the water to drain to.

7.   Twist the hose-bib fixture counterclockwise and pull to open the drain.

8.   Let spa drain completely, then remove garden hose.

9.   Twist the hose-bib fixture clockwise to close it.

Winterizing (Cold Climate Draining)

In many areas of the country, the temperature drops below 32˚F (0°C). We recommend that you always have your spa full of water and running at normal spa temperatures (80˚F to 100˚F, 26.7°C to 37.8°C). This will help reduce the risk of freezing in your spa and your spa's equipment.

WARNING: IF YOU FIND THE NEED TO DRAIN YOUR SPA, PLEASE BE AWARE OF THE POTENTIAL OF FREEZING IN YOUR SPAS EQUIPMENT AND PLUMBING. EVEN IF THE DIRECTIONS BELOW ARE FOLLOWED PERFECTLY, THERE IS NO GUARANTEE THAT YOUR

SPA WILL NOT SUFFER FREEZE DAMAGE AND THEREBY VOID THE WARRANTY
COVERAGE.

1. Open all filter covers.

2. Remove the filter baskets and filters.

3. Drain your spa completely as described in the instructions above.

4. Remove drain plugs from the front of the pumps.

5. Disconnect the unions from both sides of the pump.

6. Use a wet/dry vacuum to blow any remaining water out of the jets and equipment area.

Cover your spa with a good spa cover and an all-weather tarp to ensure that neither rain nor snow enters the spa.

Water Quality Maintenance

Cal Spas Clear Water Plan

Great spa water is easily achieved when the right chemicals and / or systems are used and the Cal Spas "Clear Water Plan" is implemented. The key to clean, clear, and safe water is to fully understand how spa water reacts to users, system operation and chemical use. The "Clear Water Plan" will help give you that understanding.

The first thing to understand about taking care of your spa water is that preventive actions are much easier to do than correcting water quality issues. For this reason, we offer the "Clear Water Plan" as a simple, easy to follow guide to clean, safe spa water.

Follow the Right Plan

You will need to decide which chemical plan or alternative sanitation option works best for your spa water. Consult your Cal Spas dealer for the right decision with regards to your lifestyle and spa usage. Whichever plan you decide on, follow it completely and don't take shortcuts. These plans will provide you with clean, safe, clear spa water with a minimum of effort.

Traditional Chemical Options

Choose from either Bromine tablets or Chlorinating granules as your sanitizer of choice. Both work well when the appropriate "Clear Water Plan" is followed. Make sure you follow all instructions and use only Cal Spas brand chemicals.

Alternative Sanitation Options

Cal Zone Quest 2000 Ozonator

This system automatically generates ozone gas and injects it into the spa water. Ozone gas is far superior to chemical bromine or chlorine in sanitizing spa water. Saves replacement chemical cost and guards against forgetting to add chemicals.

Cal Clarity Automatic Bromine Generator

This system automatically generates and releases free bromine into the spa water. No more need to add chemical bromine tablets or chlorine granules. Saves replacement chemical cost and circumvents the need to add chemicals on a regular basis.

Cal Inline Sanitation System

This system incorporates minerals that work continuously with low levels of Bromine to sanitize the spa while creating water that feels soft and is crystal clear. Uses pre-filled cartridges that save on measurement hassle and works for weeks without replacing.

Before You Begin

Before you begin a "Clear Water Plan", you should understand that chemicals or systems alone will not take care of your spa water. Other factors such as Filtration and Bather Load also play an important part.

Filtration

The filter is the part of your spa that removes the debris from the water. Even though Cal Spas uses the advanced Bio Clean filter cartridge that protects itself from bacterial growth, the filter still needs to be cleaned on a regular basis to maximize your spa's filtering performance and heating efficiency.

In addition to spraying off the filter weekly to remove surface debris, your filter should be deep cleaned periodically to dissolve scale and other contaminants that get lodged deep within the filter fibers and impede the filtration process. Even if the filter looks clean, the contaminants can clog the fibers and prevent water from flowing through the filter resulting in the most common spa problem—no heat, caused by a dirty filter.

Filter Cleaning

- Place the dirty filter into a bucket of water deep enough to cover the filter. Add 8oz of Cal Spas "Liquid Filter Cleaner" to the bucket of water.

- Note: It is a good idea to keep a spare filter to be deep cleaned while the regular filter is in the spa. This way, you can rotate the filters and both will last longer.

- Soak the filter for a minimum of 24 hours.

- Remove the filter and spray clean with a water hose. Spray each pleat carefully.

- Allow filter to dry completely (a minimum of 2 days drying time is recommended).

- Reinstall filter as described in the "Clear Water Plan".

Filtration Cycles

The filtration cycle of your spa is the process that allows the water to flow through the filter. Your spa will filter automatically twice each day. The factory set default time for filtration is usually enough for normal use, however heavy bather load or frequent use may require longer filtration times or more frequent filtration cycles to keep the spa water clean. Consult your Owner's Manual for setting your spa's filtration times.

Bather Load

"Bather Load" is the term used to describe the number of people using a spa, combined with the length of usage, and the frequency of usage. All these factors have a great effect on the spa water. The higher the bather load, the more chemicals need to be added and a longer filtration time will be needed.

All versions of the Cal Spas "Clear Water Plan" are designed for spas with average bather load. (3-4 people, 15 minutes of usage, 3 times a week at 100 degrees) If your bather load exceeds these guidelines, and you experience water quality problems, increase the amount of filtration first, (go to the next higher filtration number) then if water quality is still not adequate, consult the advise of your Cal Spas dealer for additional chemical or system recommendations. Be sure to give them your bather load information.

Chemical Overview

The following information is intended for use with Cal Spas chemicals only. Other brands of chemicals may have similar names and/or usage descriptions but due to manufacturing differences, use of other chemicals can increase the likelihood of under or over-dosing the spa chemicals. Damage to the spa or spa's components from improper chemicals or chemical usage is not covered under the spa's warranty.

Chemical Safety

- Failure to follow chemical directions may result in serious injury, sickness, or even death.
- Read and follow all printed instructions listed on bottles, packages and in your owner's manual.
- Do not exceed chemical dosages as recommended in the "Clear Water Plan", or on chemical bottles and packages. (Most chemical instructions are figured for a 500 gallon spa however, most spas hold less than 500 gallons, consult your Owner's Manual for the approximate gallons of your spa)
- Never mix chemicals together.
- Never change chemical brands or types without completely draining, flushing and thoroughly cleaning the spa and cover first.
- Always protect your eyes while introducing chemicals into the spa. Wear protective eyeglasses to prevent powdered chemicals from blowing into the eyes or liquid chemicals from splashing into the eyes.
- In the event of overdosing a sanitizing chemical (chorine or bromine), immediately turn off the power to the spa and drain water to a safe and approved area. Refill with fresh water and proceed with the "Clear Water Plan" start up.

Physical Chemical Hazards

- Do not allow chemicals to come in contact with skin, eyes or clothing.
- Always wear rubber gloves, protective eye wear and clothing to reduce the risk of chemical contact and irritation.
- Remove and wash clothing that may have been exposed to chemical contact prior to wearing them again.
- Inhaling or ingesting chemicals will cause serious injury, sickness, or even death.
- Do not mix chemicals. Mixing chemicals together can cause dangerous chemical reactions including the release of toxic gas, fire and explosions.

Chemical Storage

Chemicals must be stored completely out of the reach of children in an area that is well vented, cool, and dry. Failure to provide a proper area for chemical storage may result in serious injury, sickness, fire explosion and even death. Do not store your chemicals inside the equipment area of your spa.

Chemical Descriptions

The following descriptions and recommendations are intended for use with Cal Spas chemicals only. Many of these chemicals will be used with alternative sanitation systems as well.

	Test Strips -- Bromine Provides accurate spa water testing for Bromine, pH, and total Alkalinity. For use with bromine "Clear Water Plan"
	Test Strips -- Sodium Bromide Provides accurate spa water testing for Sodium Bromide. For use with Cal Clarity Automatic Bromine Generator "Clear Water Plan".
	Test Strips – Chlorine Provides accurate spa water testing for Bromine, pH, and total Alkalinity. For use with chlorine "Clear Water Plan"
	Go Brom Establishes a bromide reserve in spa water. Use during start up. For use with bromine "Clear Water Plan".
	Brominating Tablets Long lasting sanitizer / disinfectant for spa water. Add to bromine floater. For use with bromine "Clear Water Plan".
	Chlorinating Granules Quick acting sanitizer / disinfectant for spa water. For use with chlorine "Clear Water Plan".

	Oxidizer Shock Destroys ammonia, organic contaminants, and odor causing wastes in spa water. Use with any "Clear Water Plan".
	Metal Protector Helps prevent metals in water from staining spa. Use during start up. Use with any "Clear Water Plan"
	Stain And Scale Defense Helps prevent minerals from damaging spa components. Use with any "Clear Water Plan"
	Ph / Alkalinity Up Raises pH and alkalinity levels in spa water. Use with any "Clear Water Plan"
	Ph / Alkalinity Down Raises pH and alkalinity levels in spa water. Use with any "Clear Water Plan"
	Liquid Hardness Increaser Helps reduce foaming and corrosion by increasing hardness levels in spa water. Use with any "Clear Water Plan".

	Spa Brite Helps to quickly clear up cloudy spa water. Use with any "Clear Water Plan".
	Foam Gone Quickly breaks up existing foam on spa water. Use with any "Clear Water Plan"
	Fast Sheen Water based, reactive, silicone polish that seals, shines, and protects spa acrylic surfaces. Use with any "Clear Water Plan".
	Filter Cartridge Cleaner Deep cleans filter cartridge. Dissolves scale and removes imbedded organic contaminants from filter cartridge fibers. Use with any "Clear Water Plan"
	Enzyme Formula Biodegrades body oils, suntan lotions, and organic contaminants in spa water. Do not on same day as adding Chlorine Granules. Use with any "Clear Water Plan".
	Multi-Purpose Cleaner Special formula designed to clean spa surfaces without leaving foam-causing residue. Use with any "Clear Water Plan".

	Vinyl And Leather Cleaner Specifically designed to clean and protect spa covers and pillows from chemical and ultraviolet damage. Use with any "Clear Water Plan".
	Cal Balance Magnetic Water Stabilizer Promotes clean water naturally by organizing water molecules into appositive charge. Helps coagulate debris for improved filtration, and also traps calcium and scale into a suspension that gives spa water a soft, silky feel. Use with any "Clear Water Plan".

Traditional Chemical Start Up

Prior to filling a spa for the first time, or after a routine draining, you will want to follow this start-up plan to extend water life and performance. If you are following either the Bromine or Chlorine "Clear Water Plans", you will notice that both start-up processes are the same with the exception of Step 7. As with all chemical dosages listed in these "Clear Water Plans", start-up dosages are intended for 500-gallon spas. Please adjust the chemical dosages to the capacity of your particular spa.

Start Up

1. Clean surface of spa with Cal Spas "Multi-Purpose Cleaner".
2. Apply a protective coat of Cal Spas "Fast Sheen" to the acrylic surface.
3. Fill spa to proper water level with normal tap water (Do not use soft water)
4. Use test strip and balance the spa water:
5. Adjust total alkalinity (acceptable range is 80-120ppm),
6. Then adjust pH if necessary. (between 7.2 to 7.8)
7. Pour in 16 oz of Cal Spas "Metal Protector" to center of spa.
8. Add either Bromine or Chlorine (According to your preferred plan)
9. Bromine: Add 2 oz of Cal Spas "Go Brom" to establish a bromine base.
    Add 2 Cal Spas "Bromine Tablets" to Bromine Floater.
    Set floater opening at #2.
10. Chlorine: Add two tablespoons of Cal Spas "Chorine Granules" to the spa water.
11. Sprinkle 2 oz of Cal Spas "Oxidizer Shock" in the center of the spa and turn on jets for 15 minutes. Leave spa uncovered during this time.
12. Put cover on spa and allow to heat up to desired temperature.

Bromine Clear Water Plan

This plan and its chemical dosages are intended for Cal Spas chemicals only. Most chemical manufacturers use different chemical formulas and strengths. Only Cal spas chemicals are specially formulated to provide chemical balance at lower dosages. Always read and follow printed instructions on chemical bottles and packages.

Day One (Monday)

1. Test spa water using "Bromine Test Strips".
2. Based on the Test Strip readings:

    - Adjust total alkalinity first (acceptable range of 80-120 ppm)

    - Then adjust the pH if needed. (range is between 7.2 to 7.8)

    - Add "Bromine Tablet(s)" if needed. (Do not add more than 2)

    - The recommended level of bromine is 3-5 ppm.

3. Add 2 oz of "Stain and Scale Defense".
4. Remove dirty filter from the spa and rinse off. Allow to dry.
5. Place your extra clean filter cartridge back into the spa.
6. Vacuum debris from the bottom of your spa with the "Spa Vacuum".

Day Two (Wednesday)

1. Test spa water using Bromine Test Strips.
2. Based on the Test Strip reading: Adjust total alkalinity, then the pH if needed.

Day Three (Friday)

1. Test spa water using Bromine Test Strips.
2. Based on the Test Strip reading:

    - Adjust total alkalinity, then the pH if needed.

    - Add one Bromine Tablet (if needed).

3. Add 2 oz of Oxidizer Shock to spa. Run Spa for 15 minutes with cover off.
4. Replace cover.

Chlorine Clear Water Plan

This plan and its chemical dosages are intended for Cal Spas chemicals only. Most chemical manufacturers use different chemical formulas and strengths. Only Cal spas chemicals are specially formulated to provide chemical balance at lower dosages. Always read and follow printed instructions on chemical bottles and packages.

Day One (Monday)

1.   Test spa water using "Chlorine Test Strips".
2.   Based on the Test Strip readings:

   - First adjust total alkalinity (acceptable range of 80-120 ppm)

   - Then adjust the pH if needed. (range is between 7.2 to 7.8)

   - Add 2 tablespoons of Chlorine Granules.

   - The recommended level of Chlorine is 3-5 ppm.

3.   Add 2 oz of "Stain and Scale Defense".
4.   Remove dirty filter from the spa and rinse off.
5.   Place your extra clean filter cartridge back into the spa.
6.   Vacuum debris from the bottom of your spa with the "Spa Vacuum".

Day Two (Wednesday)

1.   Test spa water using Chlorine Test Strips.
2.   Based on the Test Strip reading: Adjust total alkalinity, then the pH if needed.

Day Three (Friday)

1.   Test spa water using Chlorine Test Strips.
2.   Based on the Test Strip reading:

   - Adjust total alkalinity, then the pH if needed.

   - Add 2 tablespoons of Chlorine Granules. (if needed)

3.   Add 2 oz of Oxidizer Shock to spa. Run Spa for 15 minutes with cover off.
4.   Replace cover.

Cal Zone Quest 2000 Ozonator Clear Water Plan

This plan and its chemical dosages are intended for spas equipped with the optional Cal Zone Quest 2000 Ozonator (portable spas only) or Del Zone Eclipse (in-ground models only). The chemical references are designed for Cal Spas chemicals only.

Start Up

1. Follow the Spa Start Up procedures for Chlorine "Clear Water Plan".
2. Set the spa's filtration time for "F-4". This activates the ozonator and produces the ozone gas. (Follow the instructions in the owner's manual)
3. Note: Filtration time may need to be increased with heavy bather load.

Day One (Monday)

1. Test spa water using chlorine "Test Strips". (you will need to use a small amount of chlorine as a supplemental sanitizer)
2. Based on the Test Strip readings:
   - First adjust total alkalinity (acceptable range of 80-120 ppm),
   - Then adjust the pH if needed. (range is between 7.2 to 7.8)
   - Add 1 tablespoon of Chlorine Granules.
   - The recommended level of Chlorine is 1-3 ppm.
3. Add 2 oz of "Stain and Scale Defense".
4. Remove dirty filter from the spa and rinse off.
5. Place your extra clean filter cartridge back into the spa.
6. Vacuum debris from the bottom of your spa with the "Spa Vacuum".

Day Two (Friday)

1. Test spa water using Chlorine Test Strips.
2. Based on the Test Strip reading:
   - Adjust total alkalinity, then the pH if needed.
   - Add 1 tablespoon of Chlorine Granules. (if needed)
3. Add 2 oz of Oxidizer Shock to spa. Run Spa for 15 minutes with cover off.
4. Replace cover.
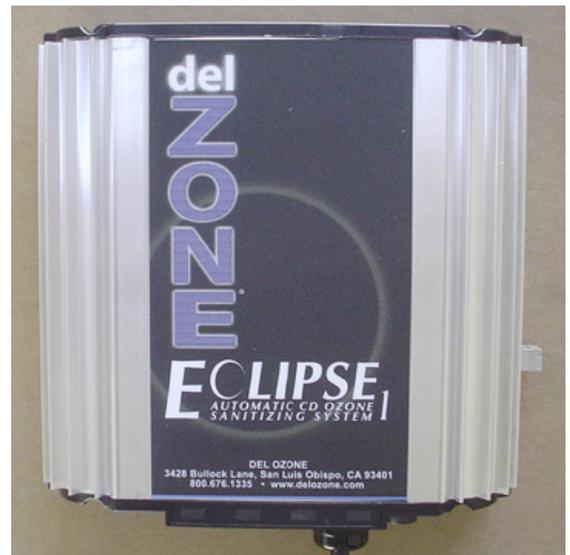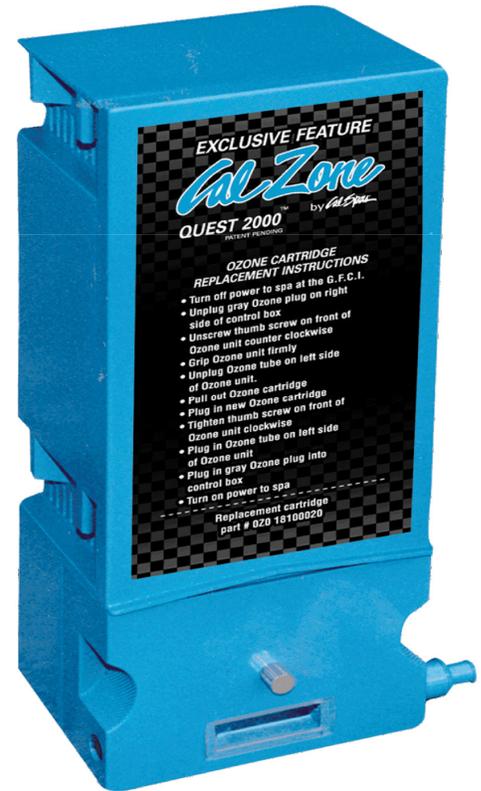
Cal Clarity Automatic Bromine Generator Clear Water Plan

This plan and its chemical dosages are intended for spas equipped with the optional Cal Clarity Automatic Bromine Generator. The chemical references are designed for Cal Spas chemicals only. Note: Following these instructions is very important to ensure proper operation of your Cal Clarity Automatic Bromine Generator.

Bromine level display

Bromine adjustment dial

Start Up

1. Clean surface of spa with Cal Spas "Multi-Purpose Cleaner".

2. Apply a protective coat of Cal Spas "Fast Sheen" to the acrylic surface.

3. Fill spa to proper water level with normal tap water (Do not use soft water)

4. Use Bromine Test Strip and balance the spa water:

   - Adjust total alkalinity (acceptable range is 80-120ppm),

   - Then adjust pH if necessary. (between 7.2 to 7.8)

5. Pour in 16 oz of Cal Spas "Metal Protector" to center of spa.

6. Test for TDS (total dissolved solids, also known as conductivity)

   - The ideal range is 50 to 300ppm.

   - TDS / conductivity **must** be less than 500 to start with.

7. Phosphate level should be below 200ppb. Remove phosphates if necessary.

8. Determine the gallons capacity of the spa. Be accurate as this determines the amount of TRU BLU that will be added. Consult your Owner's Manual for spa gallons.

9. Power up the spa and make sure all the spa's pumps are set to high speed. Turn the dial on the face of the Cal Clarity Bromine Generator to "OFF".

10. Sprinkle evenly over the surface of the spa, one 2lb bottle of TRU BLU sodium bromide per 100 US gallons (370 liters) of water. Do Not Add Too Much!

11. Note: Each bottle of TRU BLU will raise TDS / conductivity amount approximately 500 ppm.

12. Allow spa to run for 15 minutes so the TRU BLU can dissolve completely before proceeding to the next step.

13. Use Sodium Bromide Test Strips (not Bromine) and adjust sodium bromide level to 7.4 to 8.2 (equates to 1700 to 2500 ppm TDS / continuity level)

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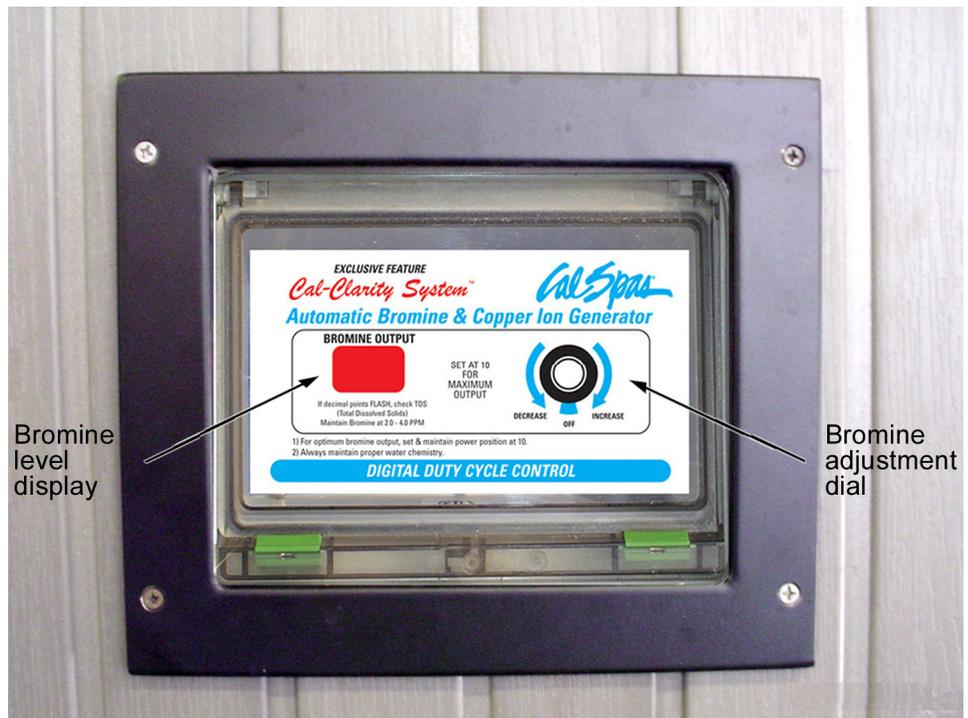
14. Add 2 oz of Cal Spas "Oxidizer Shock" to help burn out impurities in fill water.

15. Turn the dial on the bromine generator clockwise until the LED display reads 10.

16. This will initiate the build up of a bromine bank.

17. Set the filtration cycle to "continuous" (F-C) for the first 24 hours.

18. Put the cover on and allow the spa to heat to desired temperature.

Adjusting The Proper Bromine Levels

1. After start up, decrease the filtration cycle to F-4 and monitor the bromine level until it is within the recommended range.

2. Use bromine test strips to achieve a 3-5 ppm recommended level.

3. Note: It can take several days for the bromine level to stabilize because the fill water that was used sometimes contains contaminants that need to be neutralized, thereby using up the initial bromine that is generated.

4. Once the desired level has been achieved, turn the dial down until a maintenance setting is achieved.

5. The common maintenance setting for an average bather load is #4.

Note: When changing the setting, use bromine test strips to determine when you have reached the level you want.

Once A Week

1. Test spa water with bromine test strip.

2. Based on test strip readings:

   - First, adjust alkalinity if necessary.

   - Then, adjust pH if necessary.

   - Increase / decrease bromine production with dial if required.

3. Remove dirty filter from the spa and rinse off.

4. Place your clean, extra filter cartridge back into the spa.

5. Add 2 oz of Cal Spas "Oxidizer Shock" to spa. Run spa for 15 minutes

6. Vacuum debris from the bottom of your spa with the "Spa Vacuum".

7. Replace cover.

Cal Inline Sanitation System Clear Water Plan

This plan and its chemical dosages are intended for spas equipped with the optional Cal Inline Sanitation System. The chemical references are designed for Cal Spas chemicals only. Note: Following these instructions is very important to ensure proper operation of your Cal Inline Sanitation System.

Start Up -- First Day

1. Clean surface of spa with Cal Spas "Multi-Purpose Cleaner".

2. Apply a protective coat of Cal Spas "Fast Sheen" to the acrylic surface.

3. Fill spa to proper water level with normal tap water (Do not use soft water)

4. Use Bromine Test Strip and balance the spa water:

   a. First, adjust total alkalinity (acceptable range is 80-120ppm),

   b. Then adjust pH if necessary. (between 7.2 to 7.8)

   c. Pour in 16 oz of Cal Spas "Metal Protector" to center of spa.

   d. Sprinkle 1 oz of Cal Spas Chlorinating Granules over surface of water.

   e. Power up spa and allow it to heat to desired temperature.

Cap

C. Mineral Cartridge

D. Bromine Cartridge

B. Cartridge Holder

Water flow in

Water flow out

Cut-away view of cartridges snapped into holder and placed into the In-Line System
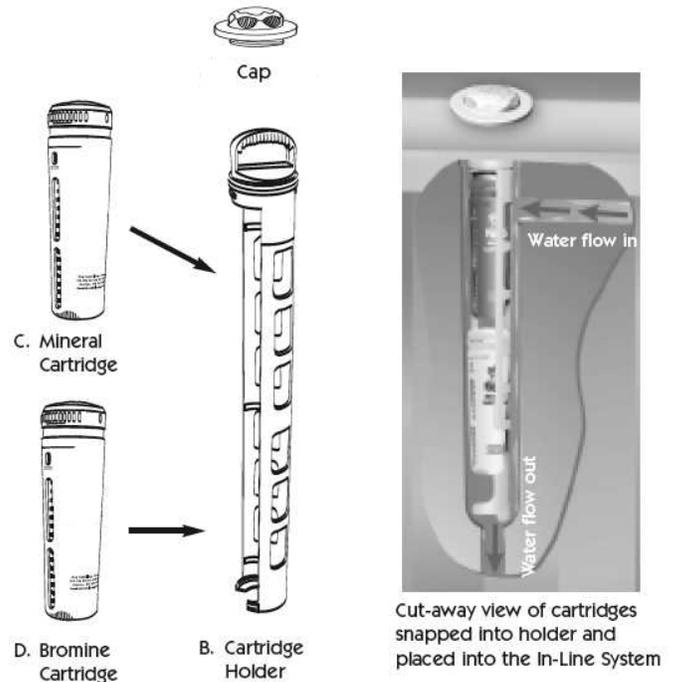
Start Up--Next Day

Now that the spa has reached its normal operating temperature, it is time to add the pre-filled mineral cartridge and bromine cartridge.

1. Turn the power off to the spa.

2. Take a new Cal Spas "Mineral Cartridge" and open to #6. (Hold the top of the cartridge and turn the bottom counter clockwise)

3. Take a new Cal Spas "Bromine Cartridge" and open to #3 (if the spa is less than 400 gallons, open to #2) Note: These settings are start up settings only. They may need to be adjusted up or down depending on your spa usage.

4. Unscrew the Cal Inline Sanitation System Cap located on the top lip of the spa.

5. Grasp the handle of the cartridge holder and turn counter-clockwise then pull up.

6. Remove the cartridge holder and discard spent cartridges (if any)

7. Snap the Bromine Cartridge into the bottom portion of the holder and the Mineral Cartridge into the top portion of the holder. (make sure the cartridges go into the correct position as over-bromination will occur if they are switched).

8. Line up the arrow on the top of the cartridge holder with the arrow on the top of the system.

9. Lower the holder containing the cartridges down into the system until the tabs on the holder line up with the tabs on the system. Rotate the cartridge holder clockwise until it stops. (To ensure a locked position, attempt to pull the holder up. If it stays in place, the lock is secure)

10. Screw cap back on. Do not over-tighten.

11. Power spa back up and set to desired temperature.

Once A Week

1. Test water using Bromine Test Strips.

2. Based on the Test Strip readings:

    *   First, adjust total alkalinity. (acceptable range of 80-120 ppm)

    *   Then, adjust the pH if needed. (between 7.2 to7.8)

    *   Check level of Bromine. (Maintain bromine at 1-2 ppm.)

    *   Note: adjust bromine cartridge setting up or down if needed.

3. Add 2 oz of Cal Spas "Stain and Scale Defense".

4. Add 2 oz of Cal Spas "Oxidizer Shock". Run spa for 15 minutes on High speed.

5. Remove dirty filter from the spa and rinse off. Set aside to dry.

6. Place your clean, extra filter cartridge back into the spa.

7. Vacuum debris from the bottom of your spa with the "Spa Vacuum".

8. Replace cover.

Maintenance

Regardless of which "Clear Water Plan" you are using, you should also do the following:

Every Month

1. Deep clean your spa's filter. (Follow "filter cleaning" instruction at beginning of "Clear Water Plan")
2. Check inside the equipment area for leaks, rodents, and insects.
3. If a leak is discovered, contact your Cal Spas dealer for service.
4. If you see evidence of rodents or insects, take necessary actions to remove them and precautions to prevent them from returning.

Every 3 To 4 Months

1. Drain and clean your spa with "Multi-Purpose Cleaner".
2. Polish the acrylic surface with "Fast Sheen".
3. Clean and treat spa cover, pillows, and Cal Select cabinet (if equipped) with "Cover Protector".
4. When re-filling your spa, follow your specific "Clear Water Plan" Start Up procedures.
5. If you are using the Cal Clarity Automatic Bromine Generator Clear Water Plan, don't forget to add new TRU BLU sodium bromide to the water.
6. If you use the Cal Inline Sanitation System "Clear Water Plan", don't forget to replace the Mineral and Bromine Cartridges.

Once A Year

1. Clean and treat redwood spa cabinets and gazebos with "Nu-Spa Redwood Stain Renew and Brightener".
2. If you use the Cal Zone Quest 2000 Ozonator, you will need to replace the ozone cartridge.
3. Check the filter cartridge pleats. If they are frayed, replace the cartridge.

Cleaning and Maintaining Your Spa

Cleaning and Replacing the Filter

Filtration

Filtration is one of the most important steps you can take to ensure clean, clear water. Regardless of what some people may think, it is far less expensive to fix water clarity problems by filtering your spa than by using excessive amounts of chemicals, excessive filtration times, or by water replacement.

Cal Spas™ filtration system draws contaminated water through the exclusive Bio-Clean™ filter removing debris from the water. It then pumps the newly cleaned water back into the spa through various jets. Spas equipped with the optional Quest 2000 Ozonator will also receive ozone injection into the filtered water for further protection against contaminants during filtration cycles. Filtration also ensures that chemicals are mixed thoroughly through the water, increasing performance.

Filtration starts on electronically controlled spas as soon as the pumps are primed and water flow is steady. As the flow of water goes through the filter, dirt and debris is removed and accumulated in the filter cartridge. As the filter cartridge accumulates dirt and debris, water flow is restricted and jet performance is reduced. This can cause your spa to not run or heat effectively.

Clean your filter regularly and replace as needed.

Filter Cleaning

Your new Cal Spa has been designed for quick and easy filter maintenance. The filter cartridge should be cleaned once a week. These instructions apply to both dual and single filtration systems (Figure 19).

150 ft² Filtration System   75 ft² Filtration System
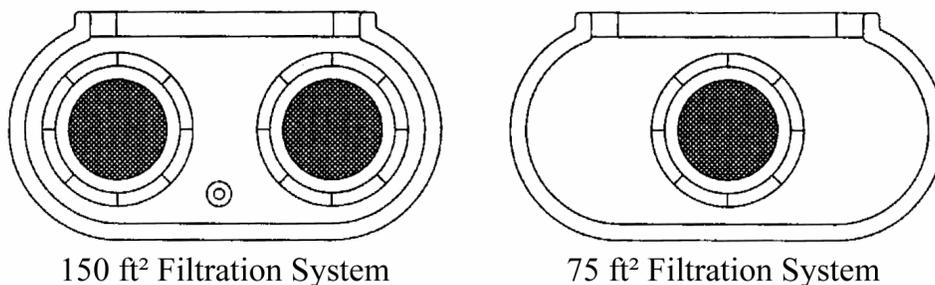
Figure 19. Dual and single filtration systems

1.   Turn the power off at the breaker.
2.   Remove the filter cover (if applicable) by rotating the cover counterclockwise and lifting it off..
3.   Remove the filter basket. With some types you may need to align the flat areas on the filter basket and the canister.
4.   Remove the filter by pulling up and out.
5.   Clean the filter with a garden hose as follows:

a.   Hold the filter vertically.

b.   Spray the filter cartridges with a pressure nozzle, starting from the top and spraying down each pleat.

c.   Turn the filter cartridge over and repeat Step 5B.

d.   Reinstall the filter cartridge in reverse order of removal.

e.   Deep clean filter cartridge every month. Use only a Cal Spas™-approved filter-cleaning chemical.

Exclusive Bio-Clean™ Filter Cartridge

The filter cartridge is designed to remove dirt, sand, minerals, phosphates, bather waste and other solids from the spa. Unfortunately, some spa owners fail to include filter cleaning as part of their chemical maintenance plan. Filters accumulate debris and become prime areas for bacteria growth.

The Cal Spas™ exclusive Bio-Clean™ Filter is the only antibacterial filter cartridge on the market today. Having a filter cartridge that prevents bacteria growth is added protection for those times you forget to clean the filter. We recommend that you only replace your spa's filter cartridge with a Bio-Clean™ filter cartridge for ensured protection and peace of mind.

Cleaning the Cover, Shell and Pillows

Due to the constant punishment your spa cover and pillows receive, you should protect them by applying Vinyl and Leather Cleaner as part of your monthly maintenance plan. Cal Spas™ Vinyl and Leather Cleaner is specifically designed to protect spa covers and pillows from chemical and ultraviolet light damage. It accomplishes this without leaving an oily residue behind that is normally associated with common automotive vinyl protectants.

Use of Vinyl and Leather Cleaner

Cal Spas™ Vinyl and Leather Cleaner should be used sparingly. Incorrect usage may cause water clarity issues.

Spa Covers

1.   Remove spa cover from spa.

2.   Allow spa cover to dry completely.

3.   Spray Vinyl and Leather Cleaner to cover evenly and wipe dry.

4.   Allow spa cover to dry completely.

5.   Reinstall cover on spa.

Pillows

1.   Wipe pillows dry with a soft cloth.

2.   Carefully spray Vinyl and Leather Cleaner directly onto pillow.

3.   Wipe pillows dry.

4.   Allow pillows to dry completely.

WARNING: DO NOT USE AUTOMOTIVE VINYL PROTECTANTS ON SPA COVERS OR PILLOWS. THESE PRODUCTS ARE GENERALLY OIL-BASED AND WILL CAUSE SEVERE WATER CLARITY ISSUES THAT ARE DIFFICULT TO CORRECT.

Multi-Purpose Cleaner (Spa finish cleaning)

Cal Spas™ Multi-Purpose Cleaner is an essential part of maintaining your spa's finish. Through normal use, the spa's finish can accumulate dirt, oil, and calcium causing a rough feel and unsightly scum lines. Cal Spas™ Multi-Purpose Cleaner is a low detergent, non-abrasive cleaner specifically formulated to clean the spa without damaging its acrylic finish. The most effective solution to minimize cleaning time is prevention. When the following steps are followed, the spa's finish will actually start to resist most of the elements that cause calcium build-up and make scum line clean up easier.

Prior to Spa Start-Up and Refilling

1. Spray Cal Spas™ Multi-Purpose Cleaner directly on to the spa's finish.
2. Wipe clean with a clean soft cloth.
3. Repeat on heavily calcified areas.
4. Wipe spa thoroughly with a wet sponge, rinsing often with a bucket of clean water.
5. Allow spa to dry completely.
6. Apply a coat of Cal Spas™ Fast Sheen to the spa's entire finish with a soft towel or sponge.
7. Allow Fast Sheen to dry until white and powdery.
8. Buff clean with a soft cloth, rotating frequently.

Periodic Maintenance

9. Spray Cal Spas™ Multi-Purpose Cleaner directly to the spa's finish.
10. Wipe clean with a clean soft cloth.
11. Wipe spa thoroughly with a wet sponge, rinsing often in a bucket of clean water.

Cal Spas™ Multi-Purpose Cleaner should not be sprayed directly into the spa water. Incorrect usage of this product will cause water clarity issues.

Fast Sheen (Spa finish protecting wax)

Cal Spas™ Fast Sheen is an essential part of maintaining your spa's finish. Through normal use, the spa's finish can accumulate dirt, oil, and calcium, causing a rough feel and unsightly scum lines. Cal Spas™ Fast Sheen is a non-oil based wax that is specifically formulated to protect the spa's finish from the chemicals and minerals associated with normal spa use. The most effective solution to minimize cleaning time is prevention. When the following steps are followed, the spa's finish will actually start to resist most of the elements that cause calcium build-up and make scum line clean-up easier.

Prior to Spa Start-Up and Refilling

1. Spray Cal Spas™ Multi-Purpose Cleaner directly to the spa's finish.
2. Wipe clean with a soft cloth.
3. Repeat on heavily calcified areas.
4. Wipe spa thoroughly with a wet sponge, rinsing often in a bucket of clean water.
5. Allow the spa to dry completely.
6. Apply a coat of Cal Spas™ Fast Sheen to the spa's entire finish with a soft cloth or sponge.

7.   Allow Fast Sheen to dry until white and powdery.

8.   Buff clean with a soft cloth, rotating frequently.

IMPORTANT: Cal Spas™ Fast Sheen should not be used on spas full of water. Only apply to clean, cool, dry surfaces. Incorrect product usage may cause water clarity issues.

Using the Cal Entertainment System™

Some spas may be equipped with audio/visual entertainment options. Several options are available and include marine grade stereo receivers, CD players, DVD players, and TV monitors.

Each Cal Spa™ unit equipped with an audio system is delivered with the manufacturer's operating instructions. We strongly recommend that you read these instructions prior to operating the unit. These instructions describe basic functions. See the manufacturer's operating instructions for other features and functions. These instructions are delivered with the Cal Spas™ owner's manual in a clear plastic bag.

The Marine Grade Stereo Receiver

The marine grade audio system uses either the Clarion CMD4 audio system (Figure 20) or the Kenwood KTS-MP400 audio system (Figure 21). The Clarion CMD4 marine grade stereo is the standard stereo for spa owners with this option.

Figure 20. Clarion marine grade stereo

Figure 21. Kenwood marine grade stereo

The DVD Multimedia Player

Spas equipped with a DVD player and TV monitor use the Jenson all-in-one receiver, amplifier and CD / DVD player (see Figure 22). The manufacturer's operating instructions are delivered with your spa. We strongly recommend that you read these instructions prior to operating this unit.

This owner's manual describes basic functions. See the manufacturer's operating instructions for other features and functions. These instructions are delivered with the Cal Spas™ owner's manual in a clear plastic bag.

Figure 22. CD / DVD stereo system

NOTE: Although the system is encased n a plastic housing with weather seals, the system is NOT marine grade and is NOT waterproof. You must take every precaution to keep this system dry! Water damage is not covered by the manufacturer's warranty.

* Do not place wet CD's into this unit at any time.

* Always close the CD protection door.

Programming DVD Control with the Universal Remote Control

1. Turn on the DVD player manually.
2. On the remote control, press DVD once.
3. Press and hold SETUP until the LED blinks twice, then release SETUP.
4. Enter code #1142 for your DVD player. If you perform this procedure correctly, the LED will blink twice. If not, repeat steps 2 through 4.

Powering up the System and Playing the Radio

1. Press the POWER button on the unit or the remote control to turn the system on. The system automatically starts in the mode it was in when it was last shut off.
2. Press the MOD button to switch to the radio mode.
3. Press the left and right arrows located at the far right of the panel to tune the radio to a station.

Operating the TV

1. Press the MOD button on the stereo unit until AU IN appears on the front display.
2. Raise the TV as described in the next section.
3. Turn on the power to the TV by either pressing the ON button or using the remote control.
4. Use the remote control to select a channel.

Opening the Player and Playing a Disk

1. Press the OPEN button on the unit. The faceplate will gently lower and expose the disk drive (Figure 23).

Figure 23. Opening the faceplate

2. Insert a disk in the disk drive.

3. Flip up the faceplate.

WARNING: DO NOT INSERT WET CDs or DVDs! The stereo system is NOT waterproof or water-resistant. Water damage is not covered by the manufacturers warranty. Make sure that hands and DVDs are dry before coming in contact with this or any electronic option.

Playing a CD

1. Insert a disk in the disk drive as described above. The player will identify the type of disk and begin playing it.

2. Use either the remote control to start and stop the player and to jump to selections or use the buttons on the faceplate.

3. To remove the disk, press the small EJECT button beneath the disk drive slot.

Playing a DVD

1. Raise the TV monitor as described in the following section.

2. Turn on the TV at set the TV/VIDEO setting to VIDEO.

3. Insert a disk in the disk drive as described above. The player will identify the type of disk and begin playing it. Either the DVD menu will appear on the TV screen or the movie will begin playing automatically.

4. Use the remote control to navigate the DVD menu. To play the movie without the remote control, press the PLAY button in the center of the row of buttons along the bottom of the faceplate.

5. To remove the disk, press the small EJECT button beneath the disk drive slot.

Strap Removal

Manual and automatic TVs are shipped with two large plastic tie straps to prevent shipping damage. These straps must be removed prior to operation Remove the straps using the following these steps:

1. Remove the rear cabinet panel behind the TV monitor.

2. Locate the two white plastic tie straps.

3. Cut the two white plastic tie straps. USE EXTREME CAUTION not to cut any wires!

4. Replace the cabinet panel.

The TV monitor is ready for use.

Raising and Lowering the TV Monitor

17" TV Monitor

Use the TV button located on the auxiliary control panel to mechanically raise and lower the TV monitor.

- Press the button once to raise the TV Press once to lower.

- Press it once again to lower the TV.

The TV monitor will automatically lower after two hours of non-operation.

Programming the 17" TV control with the Universal Remote Control

1. Turn on the TV monitor with the manufacturer's remote control.

2. Press TV once on the waterproof remote control.

3. On the waterproof remote control, press and hold SETUP until the LED blinks twice, then release SETUP.

4. Enter code #1262 for your TV. If you perform this procedure correctly, the LED will blink twice. If not, repeat steps 2 through 4.

WARNING: The TV monitor is NOT waterproof or water-resistant. Water damage is not covered by the manufacturer's warranty. Make sure that hands are dry before coming in contact with this or any electronic option. DO NOT SPLASH WATER ON THE TV MONITOR!

17" Swivel TV Monitor

With this option, the 17" TV monitor is mounted on a swivel and can be turned manually left or right in order to increase screen visibility from all spa seats. If the TV is turned when you press the RAISE/LOWER button, it will not lower until you turn the TV back to its original position.

Programming the 42" TV Monitor with the Universal Remote Control

1. Turn on the CD player and the TV tuner using the manufacturer's remote control.

2. On the waterproof remote control, press TV once.

3. Press and hold SETUP until the LED blinks twice, then release SETUP.

4. Enter code #0731 for the 42" plasma monitor. If you perform this procedure correctly, the LED will blink twice.

5. Turn on the TV tuner using the manufacturer's remote control.

6. On the waterproof remote control, press RCVR (receiver) once.

7. Press and hold SETUP until the LED blinks twice, then release SETUP.

8. Enter code #1598 for the TV tuner. If you perform this procedure correctly the LED will blink twice.

9. Press the TV button for monitor adjustments (volume, mute, etc.) and press the RCVR (receiver) button for TV channel selection.

Universal Remote Control Operation

The Cal Spas universal remote (Figure 24) has been pre-programmed to function with the entertainment system the spa has been configured with. However, in case you need to reprogram the remote, use the following device list for the programming code.

Device Manufacturer	Device Type	Code
JVC 42" plasma	Monitor	0731
Signet 15"	TV	0800
Signet 17"	TV	0844
Signet 17" (Mfg. after 6/27/05)	TV	1262
Fahrenheit	DVD	1142
Jensen	DVD	1700

Programming Instructions

1. Locate the brand name of your device.

2. Turn the device manually or with the manufacturer's remote control provided.

3. On the waterproof remote control, press either TV, RCVR, DVD, or CD button once. (This will depend on the type of device you want to program.)

4. While pointing the remote at the unit, press and hold the SETUP button until the LED blinks twice, then release SETUP.

5. Enter the four digit code listed above. If you entered the code correctly, the LED will blink twice. If not, repeat steps 2 through 4.
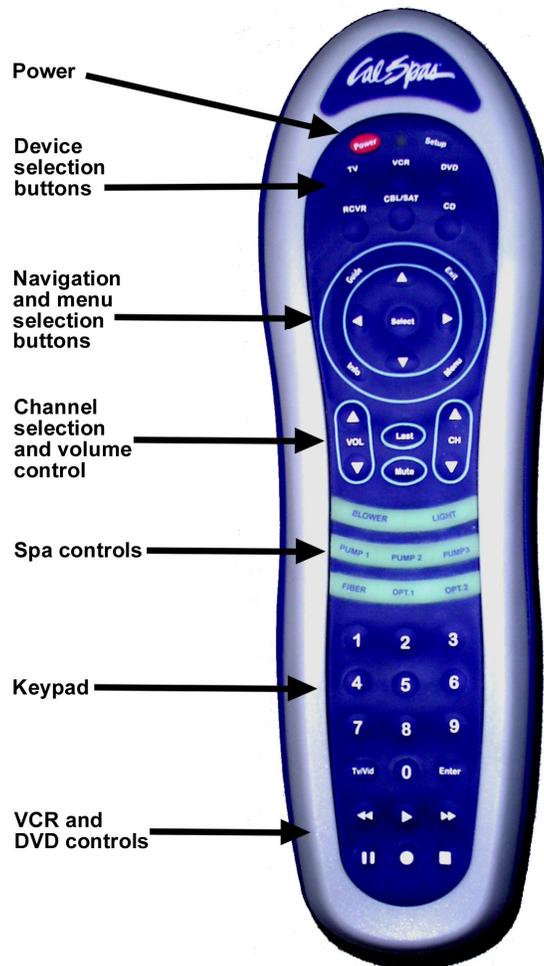
Figure 24. Universal remote for all spa and entertainment functions

- Power - Turns the TV on and off

- Device selection buttons - Selects among six devices: TV, VCR, CD player, DVD player, stereo receiver, and satellite

- Navigation and menu selection buttons - Selects among set-up, menu, and channel guide functions

- Channel and volume control - Adjusts the volume up and down and

- Spa controls - Selects among eight functions specific to the spa, such as blower, pumps and light

- Keypad - Used to enter TV channels

- VCR and DVD controls - Use to control a VCR or DVD player

Topside Remote Controls

The Clarion receiver is not controlled by the universal remote control. You will be able to adjust volume, change CD tracks, and change radio stations using the marine grade remote control installed on the topside of your spa, as shown below (Figure 25).

Figure 25. Clarion topside mounted remote control

Keeping Fit with your Cal Spa

The fitness series spas put the fun back into fitness. This comes with everything you need for a high powered, low impact, result achieving workout in total comfort and privacy. Plus you get a spa loaded with incredible therapeutic seating, variable jet massage and generous control options, and the most gorgeous cabinetry on the planet.

The fitness equipment consists of two exercise arm bars, two exercise band cords, two exercise bands and grips, and an exercise belt. This equipment attaches quickly and easily to the exercise anchors located on the spa walls.
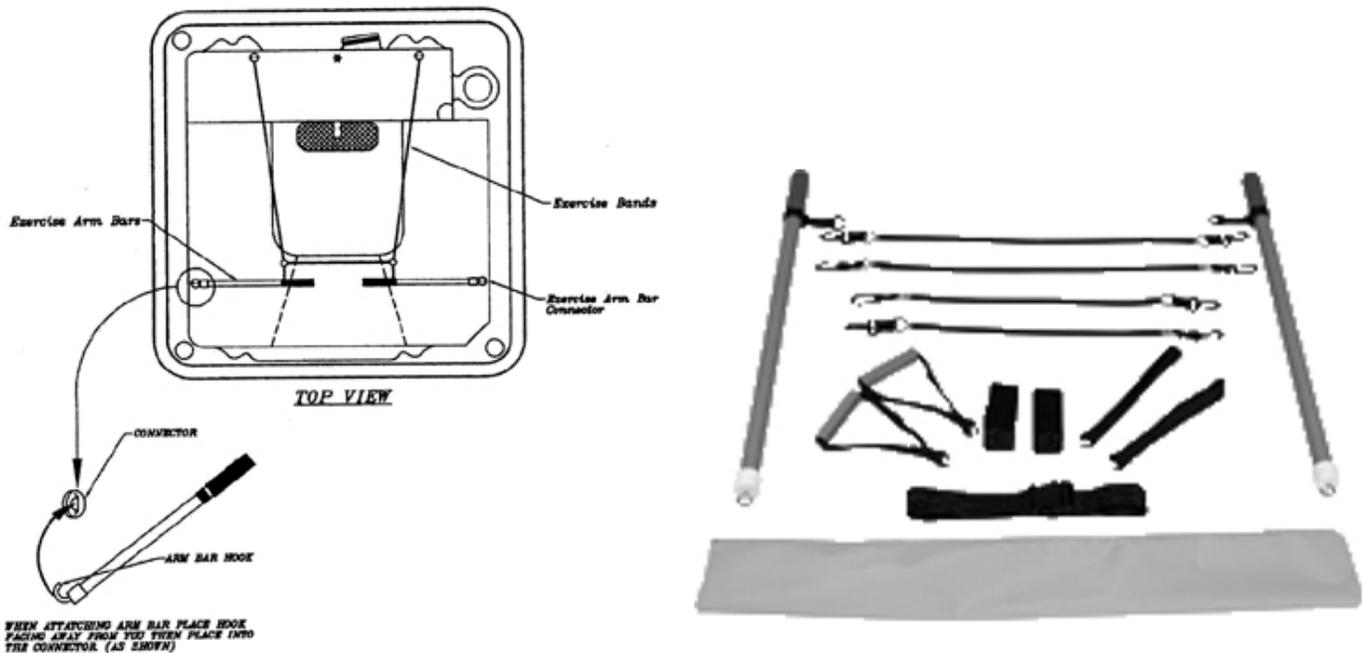
Figure 26. Fitness Series™ Equipment

IMPORTANT: Always consult your physician before starting any exercise activity or program. The fitness series spas feature rubber exercise bands. When stretched, these bands create a hi-tension condition. Improper use or failure to connect the exercise bands properly may cause injury. Always inspect all of the exercise equipment prior to beginning any exercise. Do not use any damaged equipment

Fitness Series™ Exercise Program

Many people have never performed resistance training and/or may not fully understand the benefits of this extremely important form of exercise for the goal of improving your health, appearance and overall confidence.

Resistance training is necessary when trying to loose body fat, maintain and improve lean muscle structure and increase energy levels while improving flexibility.

Hydrotherapy is a remarkable way of utilizing water and heating to promote health and wellness. The majority of people are turning back to natural methods of healing and health practices to improve their body externally, but most of all internally. Hydrotherapy provides specific benefits for increased blood circulation, detoxification, reduction of body fat, replenish minerals and nutrients in the body and relieve stress.

Fitness Series™ Exercise Program

20 to 30 min. session three times a week

1. Seated Row: An all around exercise that focuses on the muscles of the upper back, shoulders and arms. Using the exercise bars in a seated position with your feet stable, abs tight and lower back stable. Palms down, arms extended with elbows slightly bent. Pull towards your chest squeezing your shoulder blades to the middle back and returning slowly to the starting position.

2. Standing Chest Fly: An excellent upper body exercise that focuses on the muscles of the chest, shoulders and arms. Using the exercise grips, place palms sideways facing your body with your elbows slightly bent. Pull forward toward your body bringing hands together, squeezing and flexing chest muscles, then slowly returning to the starting position.

3. Standing Chest Press: Using the exercise grips, place your palms down with your elbows bent at 90 °. Press forward bringing your hands together, squeezing and flexing your chest muscles, then slowly return to the start position.

4. Standing Shoulder Press: Using the exercise grips, place your palms facing away from your body with your elbows bent at 90˚. Press upward bringing your hands together in front of you, above your head and slowly return to the start position.

5. Arm Curls: Using the exercise grips, place your hands face up with your elbows slightly bent, pull upward towards your chin squeezing and flexing your biceps then slowly return to start position.

6. Hydro Squats: Excellent for defining and firming the buttocks, thighs and legs. From a standing position, slowly sink down into the water until your buttocks is level with your knees (90˚). Squeezing your muscles tightly like sitting in a chair with abs tight and your back straight then slowly returning to standing position.

7. Hydro Leg Extensions: Sitting with your feet flat, knees bent (90˚) and abs tight. Lift your foot upwards straightening the leg while squeezing and flexing the thigh muscles and slowly lowering the foot to start position.

Important: Consult your physician before starting any exercise activity or program. The fitness series spas feature rubber exercise bands. When stretched, these bands create a hi-tension condition. Improper use or failure to connect the exercise bands properly may result in injury. Always inspect all exercise equipment prior to beginning any exercise. Do not use any damaged equipment.

Warm Water Workouts

Almost any exercise that can be done on land, including walking or jogging, can be also done in water. If you have arthritis and you're exercising in a spa you will probably focus on range-of-motion exercises that work the toe, ankle, knee, leg, hip, hand, wrist and shoulder. The size and shape of the spa will determine the specific types of exercises you can do in it. Following are some low impact exercises that can assist in improving flexibility and strength.

Forward Arm Reach

With both arms, reach straight in front of you. Raise your hands overhead as high as possible, keeping your elbows as straight as you can. If one arm is very weak, use your other arm to help raise it.

Elbow Bend

Start with your elbows as straight as possible, fingers pointing down. Bend your elbows and try to touch your thumbs to your shoulders. Keep your elbows close to your body. You do not have to touch your shoulders. Then relax your elbows and straighten your arms down at your sides.

Wrist Bend

Bend both of your wrists upward and then downward. You can also exercise one wrist at a time by placing your free hand, thumb out, under the exercising wrist. Hands and fingers should be relaxed.

Finger Curl

Curl your fingers into your palm to make a loose fist then straighten them out.

Ankle Circles

While seated, make large inward circles with your left foot, moving it from the ankle. Repeat circles in the opposite direction. Then repeat the exercise with your right foot.

Spread Eagle

While sitting on the edge of a bath seat, straighten one knee. While holding it straight, slowly move it out to the side. Hold it out for three seconds, then bring it back to the center and relax. Repeat these instructions with your other leg.

Appendix

Replacement Parts

Jets

PLU21703429 (SJW)5", POWER STORM JET W/DRK EYEBALL	**PLU21703430** (MFLW) 4.25", STORM JET, MAXI FLOW W/ DRK EYEBALL,	**PLU21703431** (MFRW) 3.25", STORM JET, MAXI FLOW W/DRK EYEBALL,
PLU21703432 (MFW) 3.25", STORM JET, MICRO FLOW W/DRK EYEBALL,	**PLU21703433** (MSRW) 3", STORM JET, MICRO SWIRL W/DRK EYEBALL,	**PLU21703420** INTERNAL CLUSTER STORM, PULSATOR, [EURO]
PLU21703421 CXLW 6.5" POWER STORM JET DIRECTIONAL,	**PLU21703422** MJLW 6.5", POWER STORM JET, DIRECTIONAL,	**PLU21703423** MJW 5.5", POWER STORM JET, DIRECTIONAL
PLU21703424 SXW 5.5", POWER STORM JET, SWIRLEY	**PLU21703425** CXW 5.5". POWER STORM JET, DIRECTIONAL	**PLU21703426** SFW 5.5", POWER STORM JET, SURE-FLO
PLU21703427 MNW 2.5", NECK JET, (QUAD BLASTER)	**PLU21703428** TW, 4.75", POWER SWIM JET TORNADO	**PLU21700818** OZONE INJECTOR JET
PLU21700565 SW, STREAM (SWIM) JET COMPLETE	**LU21703630** (MFLW) 4.25", STORM JET, MAXI FLOW W/SS ESC & DRK EYEBALL,	MJLW 6.5", POWER STORM JET W/SS ESC, DIRECTIONAL,

PLU21703631 (MFW) 3.25", STORM JET, MICRO FLOW W/SS ESC & DRK EYEBALL,	**PLU21703632** (MSRW) 3" STORM JET, MICRO SWIRL W/SS ESC & DRK EYEBALL	
PLU21703621 EP 2", INT. CLUSTER STORM, [EURO], SS W/MTL ESC	**PLU21703622** CXLW 6.5" POWER STORM JET W/SS ESC DIRECTIONAL	**PLU21703623** SXRW 5.5", POWER STORM JET W/SS ESC, DIRECTIONAL,
PLU21703624 CXW 5.5", POWER STORM JET W/SS ESC, DIRECTIONAL	**PLU21703625** MJLW 5.5", POWER STORM JET W/SS ESC, DIRECTIONAL,	**PLU21703626** SFW 5.5", STORM JET W/SS ESC, SURE-FLO,
PLU21703627 (MFRW) 3.25", STORM JET, MAXI FLOW W/SS ESC & DRK EYEBALL,	**PLU21703628** MNW 2.75", NECK JET W/SS ESC, QUAD BLASTER,	**PLU21703629** TW 4.75",, POWER SWIM JET W/SS ESC TORNADO,
PLU21700378 VENT, 1" AIR CONTROL SILVER, TEARDROP (2 TONE) , 05'	PLU21300062 DIVERTER VALVE 2" (2 WAY) SILVER, TEARDROP HANDLE (2 TONE)	PLU21300052 DIVERTER VALVE 1"(2 WAY) SILVER, TEARDROP HANDLE (2 TONE)

Pillows

ACC01400884 QUAD BLASTER PILLOW	ACC01400874 NECK JET/ BLASTER PILLOW	ACC01400864 STD PILLOW, #965 RECTANGULAR
ACC01400886 NECK PILLOW, INFINITY	ACC01400479 PILLOW, FLOATING, GREY	ACC01400481 BOOSTER SEAT, GREY

Drains

PLU21400132	MAIN DRAIN - SUPER HI FLO SUCTION 2" SILVER
PLU21400065	HI FLO SUCTION SILVER 1 1/2"-
PLU21400195	BOTTOM DRAIN OZONE FITTING-
PLU21400196	BOTTOM DRAIN WALL FITTING-
PLU21400197	BOTTOM DRAIN STAR SUCTION COVER
OZO18300005	BOTTOM DRAIN-FILTRATION RETURN ASSY

Waterfalls

PLU21800618	WATERFALL SILVER
PLU21800611	WATERFALL SILVER, 4 PORT LED
PLU21800614	S/S WARTERFALLH-SERIES, SUB ASSY, WATERFALL, (4 PORT LED)

Lights

LIT16100153	WALLFITTING, CLEAR LENS CAP, JUMBO SPA LIGHT, 5"
LIT16000151	LIGHT MINI 2-1/2 DIA
LIT16000100	LIGHT INGROUND 100W 120V 30'
LIT16100155	RED LENS INSERT, JUMBO SPA LIGHT
LIT16100156	BLUE LENS INSERT, JUMBO SPA LIGHT,

Filters

FIL11100190	FILTER CARTRIDGE, 50 SQ FT. ANTI-BACTERIAL RED
FIL11100191	FILTER CARTRIDGE, 75 SQ FT. ANTI-BACTERIAL WHITE
FIL11100193	FILTER CARTRIDGE, 35 SQ FT. ANTI-BACTERIAL WHITE
FIL11100125	FILTER CARTRIDGE CAL 75 SQ" 10 1/16 X 15 1/6 (REMOTE EQUIPMENT)

Pumps

PUM22000951	PUMP, 5.0 HP 2 SP SWITCHLESS, DBL SEAL 240V
PUM22000941	PUMP 6.0 HP 2SP 145T DBL SEAL, SWITCHLESS 2" 240V
PUM22000031	PUM 1.5 HP 2 SP 2" WET END 120V -
PUM22000916	PUMP DUALLY, DBL SEAL SWITCHLESS 2" ULTIMA-240V
PUM22000952	PUMP 1.0 HP ATS – 240V
PUM22200051	PUMP, 1.5 BHP DUALLY GE-56 FRAME, DBL SEAL-120V
PUM22000075	DYNA-MAX PUMP, 2.5 HP 2 SPEED 240V
PUM22000745	PUMP, SPECK 4 HP 2 SP W/O TRAP 240V
PUM22000802	PUMP 5BHP 2 SPEED INTERNATIONAL 50 HZ 230V
PUM22000977	24 HOUR FILTRATION PUMP ASSEMBLY 240V
PUM22100944	SPA CAL FILTRATION CIRC PUMP 240V
PUM22000973	24 HOUR FILTRATION PUMP ASSY INTERNATIONAL 50 HZ 230V
PUM22000531	SPA CAL FILTRATION CIRC PUMP INTERNATIONAL 50 HZ 230V
BLO05000085	BLOWER W/CORD COMPLETE 1.5 HP 240V 3.5 AMPS
PLU21100160	CHECK VALVE 1 ¼ lb.

LED Lights

LIT16100157	LED (12EA) SPA LIGHT ASSEMBLY
LIT16100160	LED (9 EA) FOR SPA LIGHT AREA #LSL9-S
LIT16100162	LED CABLE HARNESS 6' LED TO LED 4 WIRE
LIT16100163	LED CABLE HARNESS - 8' LED TO LED 4 WIRE
LIT16100164	LED CABLE HARNESS FOR SPA LIGHT
LIT16100165	LED CABLE HARNESS-3' LED TO LED 4 WIRE
LIT16100166	RUBBER SEALING GROMMET LED SPA LIGHT
LIT16100167	ROUND LED LIGHT LENS ASSEMBLY

Cover Lifts

ACC01600116	COVER LIFT KIT, BOTTOM MOUNTING
ACC01600117	COVER LIFT ADJUSTABLE(top mount)

Hand Rails

FIX12400002	SWIVEL HAND RAIL
FIX12400003	SWIVEL HAND RAIL (BLACK)

Filter Lids

FIL11300252	FILTER LID, DUAL
FIL11300253	FILTER LID, SINGLE

Covers

Basic Rust

Part No.	Description	Series
ACC01000592	SPA COVER BASIC RD	FF-100/150
ACC01000594	SPA COVER BASIC	V-200/300
ACC01000596	SPA COVER BASIC	CP-22/36, CT-22/36, V-400/500/700/800
ACC01000598	SPA COVER BASIC	C-22/36: M, A, S, R, BA, V-600, V-850
ACC10000927	SPA COVER BASIC	CV-22
ACC01000960	SPA COVER BASIC	CB-22, FF-90
ACC01000963	SPA COVER BASIC	CK-22, FF-390
ACC01000966	SPA COVER BASIC	CO-22, FF-190
ACC01000930	SPA COVER BASIC	CJ-22
ACC01000572	SPA COVER BASIC	CD-22

Basic Grey

Part No.	Description	Series
ACC01000593	SPA COVER BASIC RD	FF-100/150
ACC01000595	SPA COVER, BASIC	V-200/300
ACC01000597	SPA COVER BASIC	V-400/500/700/800, CP-22/36, CT-22/36
ACC01000599	SPA COVER BASIC	V-600/850, C-22/ 36: M, A, S, R, BA
ACC01000928	SPA COVER BASIC	CV-22
ACC01000961	SPA COVER BASIC	CB-22, FF-90
ACC01000964	SPA COVER BASIC	CK-22, FF-390
ACC01000967	SPA COVER BASIC	CO-22, FF-190
ACC01000931	SPA COVER BASIC	CJ-22
ACC01000573	SPA COVER BASIC	CD-22

Basic Slate

Part No.	Description	Series
ACC01000602	SPA COVER BASIC	FF-100/150
ACC01000603	SPA COVER BASIC	V-200/300
ACC01000604	SPA COVER BASIC	V-400/500/700/800, CP-22/36, CT-22/36
ACC01000605	SPA COVER BASIC	V-600/850, C-22/36: M, A, S, R, BA
ACC01000929	SPA COVER BASIC	CV-22
ACC01000962	SPA COVER BASIC	CB-22, FF-90
ACC01000965	SPA COVER BASIC	CK-22, FF-390
ACC01000968	SPA COVER BASIC	CO-22, FF-190
ACC01000932	SPA COVER BASIC	CJ-22
ACC01000574	SPA COVER BASIC	CD-22

Standard Rust 5 to 3

Part No.	Description	Series
ACC01200408	SPA COVER STD	J-501
ACC01200560	SPA COVER STD	H-901
ACC01200400	SPA COVER STD	S-704
ACC01200410	SPA COVER STD	J-503, 505, 506 S-703, 706, H-903, 704, 705, 706, 708
ACC01200420	SPA COVER STD	C- A, C, M, LBA, J-507, J-508, S-707, S-708, H-903, 904, 905, 906, 907, 908
ACC01200430	SPA COVER STD	CD-51
ACC01200450	SPA COVER STD	CN-36/51, S-709
ACC01200440	SPA COVER STD	CE-36/51

Standard Grey 5 to 3

Part No.	Description	Series
ACC01200409	SPA COVER STD	J-501
ACC01200561	SPA COVER STD	H-901
ACC01200401	SPA COVER STD	S-704
ACC01200411	SPA COVER STD	C-P, C-T, J-503, J-505, J-506, S-703, S-706
ACC01200421	SPA COVER STD	C- A, C, M, LBA, J-507, J-508, S-707, S-708, H-903, 904, 905, 906, 907, 908
ACC01200431	SPA COVER STD	CD-51
ACC01200451	SPA COVER STD	CN-36/51, S-709
ACC01200441	SPA COVER STD	CE-36/51

Standard Slate 5 to 3

Part No.	Description	Series
ACC01200510	SPA COVER STD	J-501
ACC01200562	SPA COVER STD	H-901
ACC01200402	SPA COVER STD	S-704
ACC01200412	SPA COVER STD	C-P,C-T,J-503,J-505,J-506, S-703, S-706
ACC01200422	SPA COVER STD	C- A, C, M, LBA, J-507, J-508, S-707, S-708, H-903, 904, 905, 906, 907, 908
ACC01200432	SPA COVER STD	CD-51
ACC01200452	SPA COVER STD	CN-36/51, S-709
ACC01200444	SPA COVER STD	CE-36/51

Deluxe Rust 5 to 3

Part No.	Description	Series
ACU02200210	SPA COVER UL	C - B
ACU02200220	SPA COVER UL	C - K
ACU02200364	SPA COVER UL	J-501
ACU02200320	SPA COVER UL	C - O
ACU02200240	SPA COVER UL	C – V , S-704
ACU02200250	SPA COVER UL	C-P,C-T,J-503,J-505,J-506, S-703, S-706
ACU02200260	SPA COVER UL	C- A, C, M, LBA, J-507, J-508, S-707, S-708, H-903, 904, 905, 906, 907, 908, GX49
ACU02200270	SPA COVER UL	C - D
ACU02200290	SPA COVER UL	C – N, S-709
ACU02200280	SPA COVER UL	C - E
ACU02200310	SPA COVER UL	C - R
ACU02200330	SPA COVER UL	C - A
ACU02200340	SPA COVER UL	DI-406
ACU02001155	SPA COVER UL	CHAMPION

Deluxe Grey 5 to 3

Part No.	Description	Series
ACU02200211	SPA COVER UL	C - B
ACU02200221	SPA COVER UL	C - K
ACU02200365	SPA COVER UL	J-501
ACU02200321	SPA COVER UL	C - O
ACU02200241	SPA COVER UL	C – V, S-704
ACU02200251	SPA COVER UL	C-P, C-T, J503, J505, J506, S703, S706
ACU02200261	SPA COVER UL	C- A, C, M, LBA, J-507, J-508, S-707, S-708, H-903, 904, 905, 906, 907, 908, GX-49
ACU02200271	SPA COVER UL	C - D
ACU02200291	SPA COVER UL	C – N, S-709
ACU02200281	SPA COVER UL	C - E
ACU02200311	SPA COVER UL	C - R
ACU02200331	SPA COVER UL	C - A
ACU02200343	SPA COVER UL 5-3 SMOKE	DI-405
ACU02200341	SPA COVER UL	DI-406

Deluxe Slate 5 to 3

Part No.	Description	Series
ACU02200216	SPA COVER UL	C - B
ACU02200225	SPA COVER UL	C - K
ACU02200368	SPA COVER UL	J-501
ACU02200325	SPA COVER UL	C - O
ACU02200246	SPA COVER UL	C – V, S-704
ACU02200256	SPA COVER UL	C-P,C-T,J-503,J-505,J-506, S-703, S-706
ACU02200266	SPA COVER UL	C- A,C,M,LBA, J-507,J-508, S-707, S-708, H903,904,905,906,907,908, GX-49
ACU02200275	SPA COVER UL	C - D
ACU02200295	SPA COVER UL	C – N, S-709
ACU02200285	SPA COVER UL	C - E

Deluxe Teal 5 to 3

Part No.	Description	Series
ACU02200212	SPA COVER UL	C - B
ACU02200222	SPA COVER UL	C - K
ACU02200369	SPA COVER UL	J-501
ACU02200242	SPA COVER UL	C - O
ACU02200252	SPA COVER UL	C – V, S-704
ACU02200262	SPA COVER UL	C-P, C-T, J-503, J-505, J-506, S-703, S-706
ACU02200272	SPA COVER UL	C- A, C, M, LBA, J-507, J-508, S-707, S-708, H-903, 904, 905, 906, 907, 908, GX-49
ACU02200292	SPA COVER UL	C – D
ACU02200282	SPA COVER UL	C – N, S-709

Deluxe Navy 5 to 3

Part No.	Description	Series
ACU02200213	SPA COVER UL	C - B
ACU02200223	SPA COVER UL	C - K
ACU02200370	SPA COVER UL	J-501
ACU02200323	SPA COVER UL	C - O
ACU02200243	SPA COVER UL	S-704
ACU02200253	SPA COVER UL	C-P, C-T, J-503, J-505, J-506, S-703, S-706
ACU02200263	SPA COVER UL	C- A, C, M, LBA, J-507, J-508, S-707, S-708, H-903, 904, 905, 906, 907, 908, GX-49
ACU02200273	SPA COVER UL	C – D
ACU02200293	SPA COVER UL	C – N, S-709
ACU02200283	SPA COVER UL	C – E

Cabinets

Color codes for all cabinets		
Redwood	**Cal Select**	**Stone Cabinet**
-R Red	(R) Red	[G] Gold Stone
-G Grey	(G) Grey	[S] Slate Stone
	(S) Smoke	[M] Mocha Stone
	(N) Natural	[P] Platinum Stone
	(C) Cedar	

Family Fun Series

Cal Wood (Red Stained)

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
FF-90	WOO27513054-R	WOO27513055-R	WOO27504382-R	WOO27513056-R	WOO27513057-R	WOO27513053-R
FF-390	WOO27513051-R	WOO27513203-R	WOO27504382-R	WOO27513204-R WOO27513205-R	WOO27513202-R WOO27513207-R	WOO27500405-R
FF-190	WOO27500486-R	WOO27500487-R	N/A	WOO27500485-R	N/A	WOO27500404-R
FF-100/150	WOO27500484-R	N/A	N/A	WOO27500402-R	N/A	WOO27500403-R

Cal Select

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
FF-90	WOO27513342( )	WOO27513363( )	WOO27513324( )	WOO27513428( )	WOO27513310( )	WOO27517523( )
FF-390	WOO27513343( )	WOO27513367( )	WOO27513333( )	WOO27513414( ) WOO27513418( )	WOO27513432( ) WOO27513425( )	WOO27517528( )
FF-190	WOO27513491( )	WOO27513581( )	N/A	WOO27513474( )	N/A	WOO27500351( )
FF100/150	N/A	N/A	N/A	N/A	N/A	N/A

Victory Series

Cal Wood (Standard Panels)

V-200	WOO27513051-	WOO27513049-	WOO27504382-	WOO27513052-	N/A	WOO27513050-
V-300	WOO27513051-	WOO27513049-	WOO27504382-	WOO27513052-	N/A	WOO27513050-
V-400	WOO27513044-	WOO27513045-	WOO27518761-	WOO27513043-	N/A	WOO27513042-
V-500	WOO27513044-	WOO27513045-	WOO27518761-	WOO27513043-	N/A	WOO27513042-
V-600	WOO27513044-	WOO27513048-	WOO27518761-	WOO27513047-	N/A	WOO27513046-
V-700	WOO27513044-	WOO27513045-	WOO27518761-	WOO27513043-	N/A	WOO27513042-
V-800	WOO27513044-	WOO27513045-	WOO27518761-	WOO27513043-	N/A	WOO27513042-
V-850	WOO27513044-	WOO27513048-	WOO27518761-	WOO27513047-	N/A	WOO27513046-

Cal Select (Optional Panel)

V-200	WOO27513343( )	WOO27513371( )	WOO27513333( )	WOO27513427( )	N/A	WOO27517568( )
V-300	WOO27513343( )	WOO27513371( )	WOO27513333( )	WOO27513427( )	N/A	WOO27517568( )
V-400	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
V-500	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
V-600	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
V-700	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
V-800	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
V-850	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )

Journey Series

Cal Select

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
J-501	WOO27513354( )	WOO27513386( )	WOO27513333( )	WOO27513444( )	WOO27513316( )	WOO27517558( )
J-502	WOO27513347( )	WOO27513387( )	WOO27513327( )	WOO27513446( )	WOO27513318( )	WOO27517557( )
J-503	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
J-504	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513442( )	WOO27513452( )	WOO27517561( )
J-505	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
J-506	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
J-507	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
J-508	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517554( )

Stone Cabinet

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
J-501	N/A	N/A	N/A	N/A	N/A	N/A
J-502	N/A	N/A	N/A	N/A	N/A	N/A
J-503	N/A	N/A	N/A	N/A	N/A	N/A
J-504	N/A	N/A	N/A	N/A	N/A	N/A
J-505	N/A	N/A	N/A	N/A	N/A	N/A
J-506	N/A	N/A	N/A	N/A	N/A	N/A
J-507	WOO27519200[ ]	N/A	WOO27519210 [ ]	N/A	N/A	WOO27519208 [ ]
J-508	WOO27519200[ ]	N/A	WOO27519210 [ ]	N/A	N/A	WOO27519208 [ ]

Signature Series

Cal Select

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
S-702	WOO27513342( )	WOO27513369( )	WOO27513324( )	WOO27513432( )	WOO27513421( )	WOO27517525( )
S-703	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
S-704	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513437( )	WOO27513442( )	WOO27517686( )
S-705	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513452( )	WOO27513442( )	WOO27517596( )
S-706	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
S-707	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
S-708	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
S-709	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513435( )	WOO27513452( )	WOO27517529( )

Stone Cabinet

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
S-702	N/A	N/A	N/A	N/A	N/A	N/A
S-703	N/A	N/A	N/A	N/A	N/A	N/A
S-704	N/A	N/A	N/A	N/A	N/A	N/A
S-705	N/A	N/A	N/A	N/A	N/A	N/A
S-706	N/A	N/A	N/A	N/A	N/A	N/A
S-707	WOO27519200[ ]	N/A	WOO27519210 [ ]	N/A	N/A	WOO27519208 [ ]
S-708	WOO27519200[ ]	N/A	WOO27519210 [ ]	N/A	N/A	WOO27519208 [ ]
S-709	N/A	N/A	N/A	N/A	N/A	N/A

Home Series

Cal Select

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
H-901-1	WOO27513586( )	WOO27513690( )	WOO27513588( )	WOO27513587( )	WOO27513589( )	WOO27513595( )
H-902	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513452( )	WOO27513442( )	WOO27517596( )
H-903	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
H-904	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
H-905	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
H-906	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
H-907	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
H-908	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )

Stone Cabinet

H-901	N/A	N/A	N/A	N/A	N/A	N/A
H-902	N/A	N/A	N/A	N/A	N/A	N/A
H-903	WOO27519200[ ]	N/A	WOO27519210 [ ]	N/A	N/A	WOO27519208 [ ]
H-904	WOO27519200[ ]	N/A	WOO27519210 [ ]	N/A	N/A	WOO27519208 [ ]
H-905	WOO27519200[ ]	N/A	WOO27519210 [ ]	N/A	N/A	WOO27519208 [ ]
H-906	WOO27519200[ ]	N/A	WOO27519210 [ ]	N/A	N/A	WOO27519208 [ ]
H-907	WOO27519200[ ]	N/A	WOO27519210 [ ]	N/A	N/A	WOO27519208 [ ]
H-908	WOO27519200[ ]	N/A	WOO27519210 [ ]	N/A	N/A	WOO27519208 [ ]

Infiniti Series

Redwood

I-600	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
I-601	WOO27504330-	WOO27516289-	WOO27518761-	WOO27516381-	N/A	WOO27515143-
I-602	WOO27504330-	WOO27516289-	WOO27518761-	WOO27516381-	N/A	WOO27515143-
I-603	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
I-604	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-

Cal Select

I-600	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
I-601	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
I-602	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
I-603	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
I-604	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )

Stone Cabinet

I-600	N/A		N/A			N/A
I-601	N/A		N/A			N/A
I-602	N/A		N/A			N/A
I-603	WOO27519200[ ]		WOO27519210[ ]			N/A
I-604	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]

Classic 22 Series

Redwood

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
CP-22	WOO27504330-	WOO27516289-	WOO27518761-	WOO27516381-	N/A	WOO27515143-
CT-22	WOO27504330-	WOO27516289-	WOO27518761-	WOO27516381-	N/A	WOO27515143-
CV-22	WOO27504330-	WOO27501562-	WOO27518761-	WOO27516381-	WOO27501642-	WOO27504203-
CA-22	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
CBA-22	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
CM-22	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
CD-22	WOO27504334-	WOO27518821-	WOO27518741-	WOO27518921-	N/A	WOO27504356- W/ TOP RAIL
CS-22	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
CR-22	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
CB-22	WOO27504336-	WOO27502922-	WOO27504382-	WOO27502962-	WOO27502782-	WOO27517690-
CK-22	WOO27504333-	WOO27504402-	WOO27504382-	WOO27504662- WOO27504642-	WOO27504602- WOO27504622-	WOO27504602-
CO-22	WOO27500260-		N/A	WOO27500400-	N/A	WOO27500342-
CJ-22	WOO27504322-	WOO27519801-	WOO27519802-	WOO27519804-	WOO27519803-	WOO27504322-

Cal Select

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
CP-22	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
CT-22	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
CV-22	WOO27513350( )	WOO27513379( )	WOO27513329( )	WOO27513442( )	WOO27513437( )	WOO27517534( )
CA-22	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CBA-22	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CM-22	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CD-22	WOO27513356( )	WOO27513392( )	WOO27513335( )	WOO27513454( )	N/A	WOO27517539( ) W/ TOP RAIL
CS-22	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CR-22	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CB-22	WOO27513342( )	WOO27513363( )	WOO27513324( )	WOO27513428( )	WOO27513310( )	WOO27517523( )
CK-22	WOO27513343( )	WOO27513367( )	WOO27513333( )	WOO27513414( ) WOO27513418( )	WOO27513432( ) WOO27513425( )	WOO27517528( )
CO-22	WOO27513491( )	WOO27513581( )	N/A	WOO27513474( )	N/A	WOO27500351( )
CJ-22	WOO27513354( )	WOO27513386( )	WOO27513333( )	WOO27513316( )	WOO27513444( )	WOO27517558( )

Stone Cabinet

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
CP-22						WOO27519250[ ]
CT-22						WOO27519250[ ]
CV-22						
CA-22	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CBA-22	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CM-22	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CS-22	WOO27519200[ ]		WOO27519200[ ]		N/A	
CR-22	WOO27519200[ ]		WOO27519200[ ]		N/A	
CB-22	N/A		N/A			N/A
CJ-22	N/A		N/A			N/A
CK-22	N/A		N/A			N/A
CO-22	N/A		N/A			N/A
CD-22	N/A		N/A			N/A

Classic 36 Series

Redwood

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
CP-36	WOO27504330-	WOO27516289-	WOO27518761-	WOO27516381-	N/A	WOO27515143-
CT-36	WOO27504330-	WOO27516289-	WOO27518761-	WOO27516381-	N/A	WOO27515143-
CA-36	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
CBA-36	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
CD-36	WOO27504334-	WOO27518821-	WOO27518741-	WOO27518921-	N/A	WOO27504356- W/ TOP RAIL
CM-36	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
CR-36	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
CS-36	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
CN-36	WOO27504330-	WOO27518842-	WOO27518761-	WOO27501642- WOO27501643-	WOO27518940-	WOO27500226-
CE-36	WOO27504334-	WOO27518821-	WOO27518741-	WOO27501622- WOO27501630-	WOO27518921-	WOO27517590- W/ TOP RAIL

Cal Select

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
CP-36	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
CT-36	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
CA-36	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CBA-36	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CD-36	WOO27513356( )	WOO27513392( )	WOO27513335( )	WOO27513454( )	N/A	WOO27517539( ) W/ TOP RAIL
CM-36	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CR-36	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CS-36	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CN-36	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513435( )	WOO27513452( )	WOO27517529( )
CE-36	WOO27513356( )	WOO27513392( )	WOO27513335( )	WOO27513312( )	WOO27513454( )	WOO27517544( ) W/ TOP RAIL

Smoke Cabinet

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
CP-36						
CT-36						
CA-36	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CBA-36	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CD-36	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CM-36	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CR-36	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CS-36	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CN-36						
CE-36						

Classic 51 Series

Redwood

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
CP-51	WOO27504330-	WOO27516289-	WOO27518761-	WOO27516381-	N/A	WOO27515143-
CT-51	WOO27504330-	WOO27516289-	WOO27518761-	WOO27516381-	N/A	WOO27515143-
CA-51	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
CBA-51	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
CM-51	WOO27504330-	WOO27518840-	WOO27518761-	WOO27518940-	N/A	WOO27515646-
CD-36	WOO27504334-	WOO27518821-	WOO27518741-	WOO27518921-	N/A	WOO27504356- W/ TOP RAIL
CS-51	WOO27504330-	WOO27518840-	WOO27518761-	WOO27518940-	N/A	WOO27515646-
CR-51	WOO27504330-	WOO27518840-	WOO27518761-	WOO27518940-	N/A	WOO27515646-
CN-51	WOO27504330-	WOO27518842-	WOO27518761-	WOO27501642- WOO27501643-	WOO27518940-	WOO27500226-
CE-51	WOO27504334-	WOO27518821-	WOO27518741-	WOO27501622- WOO27501630-	WOO27518921-	WOO27517590-

Cal Select

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
CP-51	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
CT-51	WOO27513350( )	WOO27513375( )	WOO27513329( )	WOO27513442( )	N/A	WOO27517570( )
CA-51	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CBA-51	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CM-51	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CD-51	WOO27513356( )	WOO27513392( )	WOO27513335( )	WOO27513454( )	N/A	WOO27517539( ) W/ TOP RAIL
CS-51	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CR-51	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
CN-51	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513435( )	WOO27513452( )	WOO27517529( )
CE-51	WOO27513356( )	WOO27513392( )	WOO27513335( )	WOO27513312( )	WOO27513454( )	WOO27517544( ) W/ TOP RAIL

Stone Cabinet

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
CP-51						
CT-51						
CA-51	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CBA-51	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CM-51	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CD-51	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CS-51	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CR-51	WOO27519200[ ]		WOO27519210[ ]			WOO27519208[ ]
CN-51						
CE-51						

Aqua Series

Redwood

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
SQ-400	WOO27504300-	WOO27518680-	WOO27514360-	WOO27518780-	N/A	WOO27517593-
SQ-500	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
SQ-700	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
SQ-800	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
SQ-92	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
SQ-88	WOO27504330-	WOO27518842-	WOO27518761-	WOO27518942-	N/A	WOO27517489-
SQ-43	WOO27504330-	WOO27518842-	WOO27518761-	WOO27501642- WOO27501643-	WOO27518940-	WOO2750026-
SQ-63	WOO27504330-	WOO27518842-	WOO27518761-	WOO27501642- WOO27501643-	WOO27518940-	WOO2750026-

Cal Select

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
SQ-400	WOO27513343( )	WOO27513371( )	WOO27513333( )	WOO27513427( )	N/A	WOO27517568( )
SQ-500	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
SQ-700	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
SQ-800	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
SQ-92	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
SQ-88	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
SQ-43	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513435( )	WOO27513452( )	WOO27517529( )
SQ-63	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513435( )	WOO27513452( )	WOO27517529( )

Stone Cabinet

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
SQ-400	WOO27513343( )	WOO27513371( )	WOO27513333( )	WOO27513427( )	N/A	WOO27517568( )
SQ-500	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
SQ-700	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
SQ-800	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
SQ-92	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
SQ-88	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )
SQ-43	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513435( )	WOO27513452( )	WOO27517529( )
SQ-63	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513435( )	WOO27513452( )	WOO27517529( )

Galaxy Series

Stainless Steel

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
GX-49	WOO27519300		WOO27519310		N/A	WOO27519311

Cal Select

	Door	Front Access	Round Corner	Side Panel	Back Panel	Complete Set
GX-49	WOO27513350( )	WOO27513377( )	WOO27513329( )	WOO27513452( )	N/A	WOO27517575( )

Ultimate Series

Redwood

	Door	Front Access	Round Corner	Side Panel	Back Panel	Port Panel	Complete Set
SKS24	N/A	WOO27500128-	WOO27510635-	WOO27500136- WOO27500137-	WOO27510636-	WOO27510632-	WOO27500116-
SKS25 **SKS47**	WOO27510634-	WOO27510633-	WOO27510635-	WOO27510630- WOO27510631-	WOO27510636-	WOO27510632-	WOO27517991-

Cal Select

	Door	Front Access	Round Corner	Side Panel	Back Panel	Port Panel	Complete Set
SKS24	N/A	WOO27500396( )	WOO27500367( )	WOO27500393( ) WOO27500390( )	WOO27500376( )	WOO27500381( )	WOO27517995( )
SKS25 **SKS47**	WOO27500361( )	WOO27500364( )	WOO27500367( )	WOO27500370( ) WOO27500373( )	WOO27500376( )	WOO27500381( )	WOO27517992( )

Cal Spas™ Chemicals

Bromine/Chlorine Starter Kit
#CHE07000290/#CHE07000295

When used as directed, this product is effective as a spa and hot tub sanitizer/disinfectant. Treats 250 gallons for up to three weeks.

Vinyl & Leather Cleaner
#CHE07000620

Specifically designed to protect spa covers and pillows from chemical and ultraviolet damage.

Fast Sheen
#CHE07000610

Unique water-based, chemically reactive silicone sealant and polish. Seals, shines, and protects spa surfaces.

Brominating Tablets
#CHE07000760/#CHE07000770

Sanitizer, disinfectant for spas and hot tubs.

Chlorinating Granules
#CHE07000865/#CHE07000880

When used as directed, this product is effective as a spa and hot tub water disinfecting agent.

Go Brom
#CHE07000830

Establishes a bromide bank in spas and hot tubs.

Filter Cartridge Cleaner
#CHE07000690

Breaks down organic and inorganic material. Removes calcium scale and mineral deposits.

Liquid Hardness Increaser
#CHE07000250

Increases water hardness to reduce corrosion. Helps reduce foaming.

Spa Brite
#CHE07000580/#CHE07000590

Clears up cloudy water in spas and hot tubs. Effective at all spa and hot tub temperatures.

Foam Gone
#CHE07000800/#CHE07000810

Breaks up existing foam in spa water. Effective at all spa and hot tub temperatures.

pH-Alkalinity Up
#CHE07000720/#CHE07000730

Helps maintain pH in spas and hot tubs.

pH-Alkalinity Down
#CHE07000750

Lowers pH in spas and hot tubs.

Enzyme Formula
#CHE07000600/#CHE07000605

Emulsifies and biodegrades bodily oils, suntan lotion, and other contaminants in spas and hot tubs.

Metal Protector
#CHE07000630/#CHE07000640

Controls water discoloration caused by minerals. Special Extra Strength formula for spas and hot tubs.

Stain & Scale Prevention
#CHE07000650/#CHE07000660

Prevents minerals from damaging spa components and affecting performance.

Oxidizer Shock
#CHE07000680/#CHE07000710

Destroys organic contaminants and odor-causing wastes.

2006 Warranty Information

See your Cal Spas™ dealer for a copy of the applicable warranty, details, and any questions you may have regarding the warranty coverage on your spa.

Warranty Limitations

The 2006 Limited Warranty is void if the spa has been subject to negligence, alteration, misuse, abuse, repairs by non-C.A.I. authorized representatives, incorrect electrical installation, acts of God and any other cases beyond the control of C.A.I. Examples of common acts invalidating this warranty include, but are not limited to:

- Use of spa in a non-residential application.
- Scratches caused by normal use.
- Operation of spas water temperature out of the normal operating range of 32˚F (0°C) to 118˚F (47.8°C).
- Damage caused by incorrect water level (low, overflow, etc.).
- Damage caused by extreme weather conditions (hot, cold, etc.).
- Damage caused by dirt, sand and calcium.
- Damage caused by clogged filter cartridges. See filter cleaning recommendations in this Owner's Manual.
- Damage caused by continued operation of this spa with either a known or an unknown problem.
- Damage caused by tri-chlor, acids, chlorine tablets, and any other spa chemicals not authorized by C.A.I.
- Damage caused by improper water chemistry. (High levels of chlorine, bromine, calcium, pH and other excessive chemical levels.)
- Damage caused by direct sunlight. Spas should always be covered when not in use.
- Damage caused as a result of failure to follow operating instructions as defined within this Owner's Manual.
- Damage caused by incorrect electrical installation, electrical brownout, voltage spikes, or operation of spa out of voltage range by more than ±10%.
- Spas improperly installed in-ground or placed on non-approved surfaces.

The Limited Warranty applies only to spas normally used for personal, family or household purposes.

Warranty Exclusions

Replaceable service items such as filters, pump seals, light bulbs, ozonator cartridge, pillows, jet inserts, spa covers, and filter covers are specifically excluded from the limited warranty.

Spa covers and stereo systems are delivered with their own manufacturer's warranty. For more info, please see their warranties in the owner's information package that was delivered with your spa for more information.

Customer Service

For customer service, contact the authorized selling dealer immediately. If you need additional information and assistance, please contact the C.A.I. Customer Relations Department at 1462 East Ninth Street, Pomona, CA 91766, or call 909-623-8781.

This limited warranty is effective for portable spas manufactured after November 1, 2005.

Spa Shell / Structural Warranty

Portable Cal Spas™ hot tubs: C.A.I. warrants against the loss of water through the spa shell due to defects in materials and / or workmanship for a period of 10 years from the original date of purchase.

Interior Surface Warranty

Portable Cal Spas™ hot tubs: C.A.I. warrants against cracks, blisters, peeling, discoloration and delamination of Altair Plus / Quarite Plus interior surfaces for a period of ten years from the original date of purchase.

5 Year Interior Surface Warranty

Portable Cal Spas™ hot tubs: C.A.I. warrants against cracks, blisters, peeling, discoloration and delamination of standard acrylic / quarite interior surfaces for a period of five years from the original date of purchase.

Component Warranty

C.A. I. warrants the manufacturer-installed XL Heat Exchanger™ and Cal Zone Quest 2000 Ozonator™ against malfunction due to defects in materials and / or workmanship. 5 year warranty excludes replaceable ozone cartridge, which has a one year warranty from the original date of purchase.

Equipment Warranty

Portable Cal Spas™ hot tubs: C.A.I. warrants the spa's electrical and electronic components, specifically: the control system, pumps and air blowers against malfunction due to defects in materials and / or workmanship for a period of five years from the original date of purchase.

Plumbing Warranty

Portable Cal Spas™ hot tubs: C.A.I. warrants all factory installed plumbing and "Eliminator Plus™" Wet Ends from loss of water due to defects in material and / or workmanship for a period of five years from the original date of purchase.

Cabinet Warranty

C.A.I. warrants Cal Select™ and Cal Stone panels against cracking and warping for a period of five years from the original date of purchase. C.A.I. warrants Cal Wood and Redwood spa cabinets to be free from defects in material and workmanship for a period of 90 days from the original date of purchase. Seasonal checking and surface cracks are not considered defects in material and workmanship, as they are normal characteristics of all wood. Surface stain is specifically excluded from this warranty

LED Light Source

C.A.I. warrants the LED light source for a period of one year from the original date of purchase. LED replacement lights are specifically excluded from this warranty.

Extent of Warranty

This limited warranty is only valid on portable hot tubs delivered in the continental United States and Canada. However, it does not apply to special offers and events and extends through the selling dealer to the original purchaser at the original site of installation. This warranty becomes valid at time of purchase and ends either by specified time-frame listed above, owner-transfer, relocation, or installation of any component other than by manufacturer. The Designer series spas are excluded from this warranty.

Manufacturer Warranty

All Cal Spas hot tubs are manufactured with the highest quality appliances and are warrantied to be free from defect in material and workmanship at the time of delivery. The appliance warranty is extended through the manufacturer of the product including,but not limited to: televisions, stereos, DVD players, etc.

Warranty Performance

In the event of a malfunction or defect covered under the terms of this warranty, the factory authorized selling dealer is responsible for performing all necessary repairs. To obtain service, contact the selling dealer. In the event the consumer is unable to obtain satisfactory customer service from the selling dealer, written notification must be given to the C.A.I. Customer Relations Department within 10 days of the reported failure. There will be no charge for parts or labor on a covered item. However, the service agent may assess a reasonable travel or mileage charge per service call. If C.A.I. determines that repair of a covered item is not feasible, C.A.I. reserves the right to replace the defective merchandise with merchandise equal in value to the original purchase price. In the event of any warranty replacement, all removal, replacement, installation and shipping costs are the responsibility of the spa owner.

Warranty Exclusions & Limitations

This warranty is void if the spa has been subject to negligence, alteration, misuse, abuse, repairs by non-C.A.I. authorized personnel, incorrect electrical installation, installation of any component other than by the manufacturer, acts of God (including, but not limited to, acts of nature and surrounding environments), and any other cases beyond the control of C.A.I. Please refer to the owner's manuals for examples of exclusions and of common acts invalidating this warranty. This warranty excludes Designer Series Spas.

Disclaimers

This limited warranty is made with the express understanding that the spa is not an essential device or medical device as defined under State and Federal Law. C.A.I. shall not be liable for loss of use of the spa or other incidental or consequential costs, expense or damages, which may include but are not limited to removal of permanent deck or other custom fixtures or the necessity for crane removal. Any implied warranty shall have duration equal of the applicable warranty stated above. Under no circumstances shall C.A.I. or any of its representatives be held liable for injury to any person or damage to any property, however arising.

Legal Remedies

This limited warranty gives you specific legal rights. You may have other rights, which may vary from state to state.

Customer Service

For customer service, contact the authorized selling dealer immediately. If you need additional information or assistance, please contact the C.A.I. Customer Relations Department at 1462 E. Ninth St., Pomona CA 91766 or call (800) 225-7727.

Please make a record of the following.
It will be valuable if service is required.

Cal Spa Model:

Cal Spa Serial Number:
Date Purchased:

Date Installed:

Cal Spa Dealer's Phone Number:

Cal Spa Dealer's Address:

C.A.I. Customer Service Department
1462 East Ninth Street
Pomona, CA 91766

Toll Free: 1-800-CAL-SPAS
Fax: 1-909-629-3890

www.calspas.com