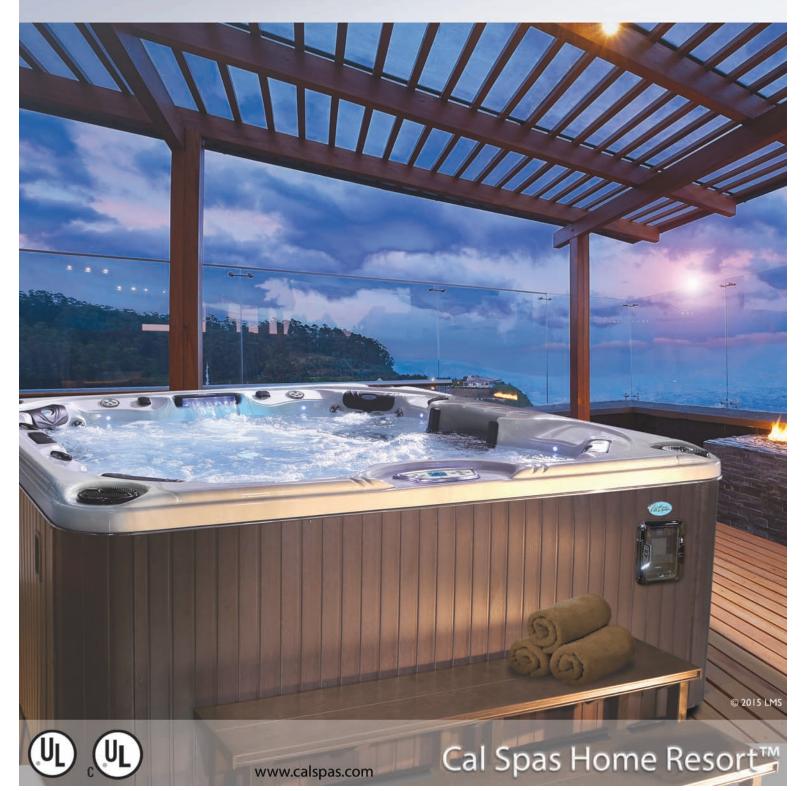
2015 Owner's Manual Platinum Spas

United States and Canada



LUXURY RESORT LIVING FOR EVERYONE

LTR20151010, Rev. A 1/5/15

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

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100-1394

CONTACT INFORMATION

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

LMS Customer Service Department 1462 East Ninth Street Pomona, CA 91766.

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

Important Safety Instructions

READ AND FOLLOW ALL INSTRUCTIONS.

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.

Never operate the spa if the suction fitting or filter baskets are broken or missing. 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.

Do not permit any external electrical appliances, such as lights, telephones, radios, televisions, and etc., within five feet (1.5 meters) of the spa. Never attempt to operate any electrical device from inside the spa.

Replace a damaged power cord immediately.

Do not bury the power cord.

Connect to a grounded, grounding-type receptacle only.

WARNING -- To reduce the risk of injury:

The spa water should never exceed $104^{\circ}F$ ($40^{\circ}C$). Water temperatures between $100^{\circ}F$ ($38^{\circ}C$) and $104^{\circ}F$ ($40^{\circ}C$) 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 $3^{\circ}F$ to $6^{\circ}F$ above the normal body temperature of $98.6^{\circ}F$ (or $2^{\circ}C$ to $4^{\circ}C$ above $37^{\circ}C$). While hyperthermia has many health benefits, it is important not to allow your body's core temperature to rise above $103^{\circ}F$ ($39.5^{\circ}C$).

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.



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

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

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

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

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

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

SAVE THESE INSTRUCTIONS.





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Pre-Delivery Checklist

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 spa.

Before Delivery				
	Plan your delivery route			
	Choose a suitable location for the spa			
	Lay a 5 - 8 cm concrete slab			
	Install dedicated electrical supply			
After Delivery				
	Place spa on slab			
	Connect electrical components			

Planning the Best Location

Safety First

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

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 will 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

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.

Prevent dirt and contaminants from being tracked into your spa by placing a foot mat at the spa's entrance where the bathers can clean their feet before entering your spa.

Allow for Service Access

Make sure the spa is positioned so that access to the equipment compartment and all side panels will not be blocked.

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.



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Preparing a Good Foundation

Your spa needs a solid and level foundation. The area that it sits on must be able to support the weight of the spa, with water 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 AND 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.

Place the spa on an elevated 3 to 4" / 30 cm concrete slab. Pavers, gravel, brick, sand, timbers or dirt foundations are **not** adequate to support the spa.

We strongly recommend that a qualified, licensed contractor prepare the foundation for your spa.

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, it is highly recommended that you consult a structural engineer or contractor to ensure the structure will support the weight of 150 pounds per square foot (732 kg / m2).

To properly identify the weight of your new spa when full, remember water weighs 8.33 lbs. per gallon, or 1 kg per liter. For example, an average 8' spa spa holds approximately 500 gallons, or 1892 liters, of water. Using this formula, you will find that the weight of the water alone is 4,165 lbs, or 1892 kg. Combined with the dry weight of the spa you will note that this spa will weigh approximately 5,000 lbs, or 2267 kg, when full of water.



240 Volt Electrical Installation

All 240V spas must be permanently connected (hard wired) to the power supply.

Use one 50 amp GFCI with four #6 AWG copper wires. See the wiring diagram on page 5.

These instructions describe the only acceptable electrical wiring procedure. Spas wired in any other way will void your warranty and may result in serious injury.

When installed in the United States, the electrical wiring of this spa must meet the requirements of NEC 70 and any applicable local, state, and federal codes.

The electrical circuit must be installed by an electrical contractor and approved by a local building or electrical inspector.

Failure to comply with state and local codes

may result in fire or personal injury and will be the sole responsibility of the spa owner.

The power supplied to the spa must be on a dedicated GFCI protected circuit as required by NEC 70 with no other appliances or lights sharing the power.

Use copper wire with THHN insulation. Do not use aluminum wire.

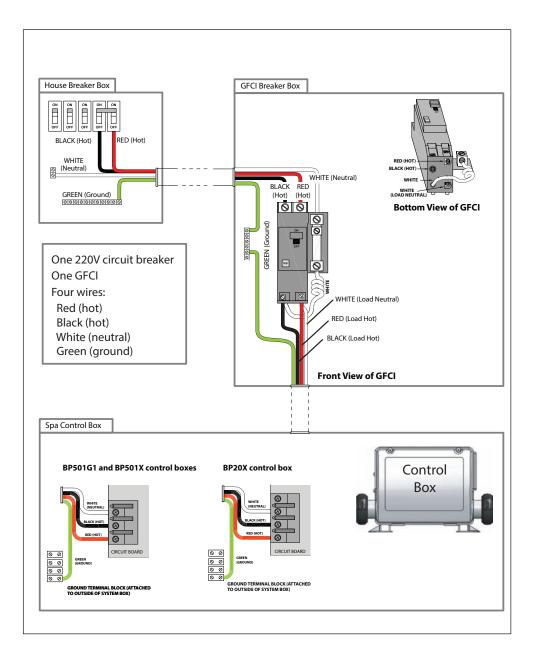
Use the table below and on the next page to determine your GFCI and wiring requirements.

Wire runs over 85 feet must increase wire gauge to the next lower number. For example: A normal 50 amp GFCI with four #6 AWG copper wires run over 85 feet would require you to go to four #4 AWG copper wires.





GFCI Wiring Diagram



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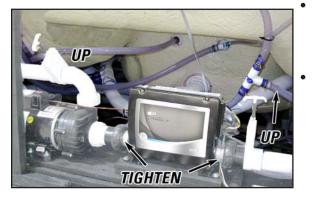


Filling and Powering Up Your Portable Spa

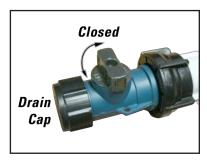
This applies to all spa owners *EXCEPT* those with the Cal Clarity II bromine generator. See instructions on page 25 for bromine generator operating instructions and spa filling procedures.

1. Inspect the spa equipment.

Inspect all plumbing connections in the equipment area of your spa.



- Make sure unions in the equipment pack are tight. (Be careful not to over-tighten the plumbing fittings.)
- If your spa has gate valves, make sure they are all in the UP or OPEN position.
- Make sure the drain valve is closed and capped. (See page 30 for a description of drain valves.)



Never run the spa with the gate valves closed or without water circulating for long periods of time.

2. Remove the cartridge from filter canister.



Unscrew the cartridge and remove it.



After you remove the filter, remove the plastic wrapper and soak it in water for 30 minutes before you replace it. A dry filter can allow air into the filtration system which can cause the pump to fail to prime.

3. Fill the spa.





Never fill your spa with soft water.

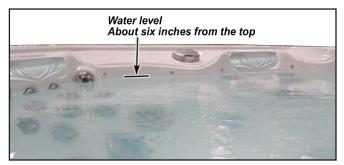
Soft water makes it impossible to maintain the proper water chemistry and may cause the water to foam, which will ultimately harm the finish of the spa and void your warranty.

Place a garden hose in the filter canister and fill your spa with *regular tap water* about six inches from the top.

If the water level is too low or too high, your spa will not operate properly.



Always fill the spa through the filter canister! Failure to do so may cause air to be trapped in the filtration system and prevent the pumps from operating properly.





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4. Turn on power to the spa.



When the spa is filled to the correct level, turn on the power at the GFCI breaker. (Ensure that the 120V spas are connected to the proper electrical outlet.)

5. Prime the pump.



Your spa will perform a self-diagnostic check and go into Priming Mode. The control panel will display either **RUN PUMPS PURG AIR ---** or **Priming Mode**, depending on which control panel you have.

Do the following:

- 1. Press the JETS or JETS 1 button once to start the pump in low speed.
- 2. Press it again to switch the pump to high speed.
- 3. If you have other pumps, press JETS 2 or JETS 3 to turn them on also.

Running the pumps helps the pumps prime.

After two minutes, the pump should prime. If it does not, follow the priming instructions on the next page. If it does, continue with the next step.

6. Install the filter into the filter canister.



Make sure the filter has soaked at least 30 minutes before you install it.

7. Adjust water chemistry.

Test and adjust the water chemistry. See the section on page 20 for instructions on water clarity.

8. Let the spa heat up.

When the spa has finished priming, the heater will activate. Put the cover on and let the spa heat to the set temperature.

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Priming the Pump

New spa owners often have difficulty the first time they start their spa and the pump fails to prime. This can be frustrating, but these simple instructions can help you.



The pump will not work properly while air is trapped in it. Continuing to operate the pump in this way will cause damage.

Sometimes air can become trapped in the pump while

filling the spa. You will know this has happened when after you have filled and started the spa, the pump does not seem to function. You will hear the pump operating, but no water will be moving.

Starting Up: Priming Mode

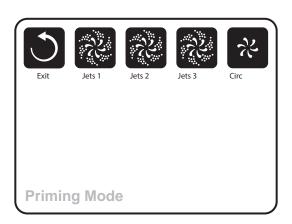
After the initial start-up sequence, the spa will enter Priming Mode, which lasts 4 to 5 minutes. Depending on



your control panel, one of the messages shown at right will appear.

As soon as the Priming Mode screeen appears on the panel, press the Jets or Jets 1 button once to start Pump 1 in low speed and then again to switch to high speed. Also, select the other pumps, to turn them on. The pumps should be running in high speed to facilitate priming.

If the pumps have not primed after two minutes, and water is not flowing from the jets in the spa, do not allow the pumps to continue to run. Turn off the pumps and repeat the process. Note: Turning the power off and back on again will initiate a new pump priming session.



Sometimes momentarily turning the pump off and on will

help it to prime. Do not do this more than five times. If the pumps will not prime, shut off the power to the spa and call for service.

Important: A pump should not be allowed to run without priming for more than two minutes. Under NO circumstances should a pump be allowed to run without priming beyond the end of the 4 to 5 minute priming mode. Doing so may cause damage to the pump and cause the system to energize the heater and go into an overheat condition.

Exiting Priming Mode

You can manually exit Priming Mode by pressing an Up or Down button. Note that if you do not manually exit the priming mode as described above, the priming mode will be automatically terminated after 4 to 5 minutes. Be sure that the pumps have been primed by this time.

Once the system has exited Priming Mode, the top-side panel will momentarily display the set temperature but the display will not show the temperature yet. This is because the system requires approximately one minute of water flowing through the heater to determine the water temperature and display it.

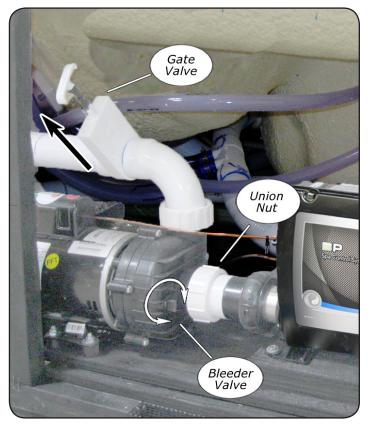


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Bleeding Air from the Pump

If you have tried priming the pump several times unsuccessfully using the control panel, you can bleed the air from the pump manually.

- 1. Shut off the power to the spa.
- 2. Using a Phillips screwdriver, remove the front panel from the spa and locate the pump.
- Close the gate valve on the discharge side of the pump (if your spa is installed with one.)
- 4. Turn the bleeder valve counter clockwise with a small pair of pliers until the air has been released from the pump.
- 5. If this is unsuccessful, loosen the union nut on side of the pump with channel locks. When air is bled out, tighten the nut.
- 6. Turn on power to the spa and press the JETS button. If there is still air trapped in the pump, repeat steps 2 through 5 until the pump primes.







TP800 Control Panel Operation



The Main Screen

Spa Status

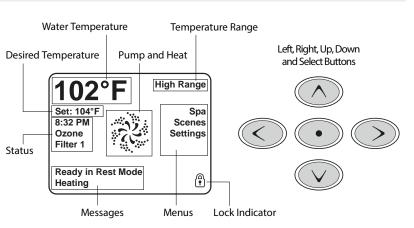
When the spa has finished priming, you will see the Main Screen. Important information about spa operation can be seen quickly from the Main Screen. The most important features can be accessed from this screen.

- The actual water temperature can be seen in large text and the desired, or Set Temperature, can be selected and adjusted.
- Time-of-day, ozone operation and filter operation status are shown, along with other messages and alerts.
- Temperature Range (High or Low) is indicated in the upper right corner.
- A Lock icon is visible if the panel or settings are locked.

Navigation

There are four selections you can make on the Main Screen:

Set temperature - Press the left arrow button to change the Set Temperature number to white. The



Set Temperature can then be adjusted with the up and down buttons. Pressing the Select button or the Right Arrow button will save the new set temperature.

Menu selections - The three menu choices on the right, **Spa**, **Shortcuts**, and **Settings**, can be selected and the screen will change to show more detailed controls or programming functions. They will be discussed further in this section.

Messages

At the bottom of the screen, messages may appear at various times. Some of these messages must be dismissed by the user (see page 14).



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Spa Screen

The Spa Screen shows all available equipment to control, as well as other features, like Invert, in one easy-to-navigate screen. The display shows icons that are related to the equipment installed on a particular spa model, so this screen may change depending on the installation.

The navigation buttons are used to select an individual device. The device that is chosen is highlighted with a white outline and the text under the icon changes to white. Once a device is selected, it can be controlled using the center Select Button.

Some devices, like pumps, may have more than one ON state, so the icon will change to reflect the state that the equipment is in. Below are some examples of 2-speed Pump indicators.

If the Spa has a Circ Pump, a Circ Pump Icon will appear to indicate its activity, but outside of Priming Mode, the Circ Pump cannot be controlled directly. NOTE: The icon for the pump that is associated with the heater (Circ or P1 Low) will have a red glow in the center when the heater is running.

Shortcut Screen

The Shortcut Screen requires no navigation.

Each button is fixed on a specific fuction and can be used as a very simple user interface for the spa.

Each button function is illustrated in the display and mapped according to the manufacturer's instructions.

Settings Screen

The Settings Screen is where all programming and other spa behaviors are controlled.

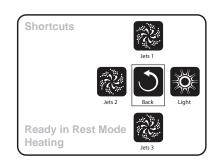
This screen has several features that can be acted on directly. These features include Temp Range, Heat Mode, and Invert Panel. When one of these items is highlighted, the Select Button is used to toggle between two settings. All other menu items (with an arrow pointing to the right) go to another level in the menu.

Setting Time of Day

Setting the time of day is important for determining filtration times and other background features. "Set Time" will appear on the Main Screen if no time of day is set.







Readv in Rest Mode

Heating



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Setting Dual Temperature Ranges

This system incorporates two temperature range settings with independent set temperatures. The specific range can be selected on the Settings screen and is visible on the Main Screen in the upper right corner of the display.

These ranges can be used for various reasons, with a common use being a "ready to use" setting vs. a "vacation" setting. Each range maintains its own set temperature as programmed by the user. This way, when a range is chosen, the spa will heat to the set temperature associated with that range.

High Range can be set between 80°F and 104°F. Low Range can be set between 50°F and 99°F. More specific Temp Ranges may be determined by the Manufacturer. Freeze Protection is active in either range.

Selecting Heat Modes – Ready vs. Rest

In order for the spa to heat, a pump needs to circulate water through the heater. The pump that performs this function is known as the "heater pump."

The heater pump can be either a 2-speed pump (Pump 1) or a circulation pump. If the heater pump is a 2-Speed Pump 1, Ready Mode will circulate water every 1/2 hour, using Pump 1 Low, in order to maintain a constant water temperature, heat as needed, and refresh the temperature display. This is known as "polling."

Settings Temp Range Heat Mode Time of Day Filter Cycles Light Cycle Invert Panel Lock

Rest Mode will only allow heating during programmed filter cycles. Since polling does not occur, the temperature display may not show a current temperature until the heater pump has been running for a minute or two. While Pump 1 High can be turned on and off, Pump 1 Low will run until set temperature is reached, or 1 hour has passed.

Freeze Protection

If you live in an area that experiences extreme freezing weather, you need to know how to how to set your spa to prevent freeze damage. Some spa owners choose to drain and winterize their spas, but others prefer to keep it filled and operating. If you don't want to drain your spa, you can continue to run it safely through the winter, providing you program it correctly.

When you expect the temperture to approach freezing, always keep the spa in READY Mode. As long as the spa is in READY Mode, it will regularly check the water temperature (known as "polling") and circulate water every 1/2 hour.

If the temperature sensors within the heater detect a low enough temperature, then the pumps and the blower automatically activate to provide freeze protection. The pumps and blower will run either continuously or periodically depending on conditions.

Setting Filter Cycles

Filter cycles are set using a start time and a duration. Each setting can be adjusted in 15-minute increments. The panel calculates the end time and displays it automatically.

Filter cycle 2 is off by default, but can be selected for use if desired.

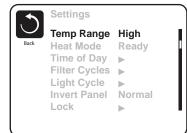
Filter Cycles Filter Cycle 1 Starts at 12:00 AM Runs 0 HR 0 Min Ends at 12:00 AM Filter Cycle 2 NO

Starts at 12:00 AM Runs 0 HR 0 Min Ends at 12:00 AM Filter Cycles Filter Cycle 1 Starts at 6:15 AM Runs 3 HR 0 Min

Ends at 9:15 AM Filter Cycle 2 NO Starts at 12:00 AM Runs 0 HR 0 Min Ends at 12:00 AM



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High Range

Shortcuts

Settings

Spa

102°F

Set: 104°F

Ready/Rest Heating

Lock

8:32 PM

Ozone

Filter 1

Ready-in-Rest Mode

READY/REST appears in the display if the spa is in Rest Mode and the Jets 1 Button is pressed. It is assumed that the spa is being used and will heat to set temperature. While Pump 1 High can be turned on and off, Pump 1 Low will run until set temperature is reached, or 1 hour has passed. After 1 hour, the System will revert to Rest Mode. This mode can also be reset by entering the Settings Menu and changing the Heat Mode.

Circulation Mode

If the spa is configured for 24HR circulation, the heater pump generally runs continuously. Since the heater pump is always running, the spa will maintain set temperature and heat as needed in Ready Mode, without polling. In Rest Mode, the spa will only heat to set temperature during programmed filter times, even though the water is being filtered constantly when in Circulation Mode.

Locking and Unlocking the Control Panel

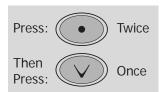
The control can be restricted to prevent unwanted use or temperature adjustments.

Locking the Settings allows jets and other features to be used, but the set temperature and other programmed settings cannot be adjusted.

When settings are locked, there is a reduced selection of menu items. These include Set Temperature, Invert, Lock, Utilities, Information and Fault Log. They can be seen, but not changed or edited.

Locking the Panel prevents the controller from being used, but all automatic functions are still active.

Locking and Unlocking -- Use the navigation buttons from the Lock Screen. The Lock and Unlock Sequence is the same for both Panel Lock and Settings Lock.



Additional Settings

Light Cycle

If Light Cycle does not appear in the Settings Menu, the light timer feature is not enabled by the manufacturer. When available, the light timer is OFF by default. The settings can be edited the same way as filter cycles.

Invert Panel

Selecting Invert Panel will flip the display and the buttons so the panel can be easily operated from inside or outside the hot tub.

Hold

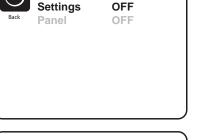
Hold Mode is used to disable the pumps during service functions like cleaning or replacing the filter. (See page 23 for instruction on cleaning the filter.)

Hold Mode will last for 1 hour unless the mode is exited manually.

Utilities

This menu feature is for system information only and is used mainly for repair and troubleshooting.







Preferences

This allows you to set the following preferences for system operation:

- Change the temperature between Fahrenheit and Celsius
- Change the clock between 12-hour and 24-hour

Diagnostic Messages

display

• Turn periodic reminded (like "CLEAN FILTER") on or off

Information

This menu feature is for system information only and is used mainly for repair and troubleshooting.

Message	Meaning	
FC	Water temperature is unknown. After the pump has been running for one minute, the temperature will be displayed.	
Possible freezing condition	A potential freeze condition has been detected. All water devices are activated. In some cases, pumps may turn on and off and the heater may operate during Freeze Protection. This is an operational message, not an error indication.	
The water is too hot	The system has detected a spa water temp of 110°F (43.3°C) or more, and spa functions are disabled. System will auto reset when the spa water temp is below 108°F (42.2°C). Check for extended pump operation or high ambient temp.	
Water flow is low	There may not be enough water flow through the heater to carry the heat away from the heating element. Heater start up will begin again after about 1 min. See "Flow Related Checks" below.	
Water flow has failed	There is not enough water fl ow through the heater to carry the heat away from the heating element and the heater has been disabled. See "Flow Related Checks" below. After the problem has been resolved, you must press any button to reset and begin heater start up.	
The heater may be dry	Possible dry heater, or not enough water in the heater to start it. The spa is shut down for 15 min. Press any button to reset the heater start-up. See "Flow Related Checks" below.	
The heater is dry	There is not enough water in the heater to start it. The spa is shut down. After the problem has been resolved, you must clear the message to restart heater start up. See "Flow Related Checks" below.	
The heater is too hot	One of the water temp sensors has detected $118^{\circ}F$ (47.8°C) in the heater and the spa is shut down. You must clear the message when water is below $108^{\circ}f$ (42.2°C). See "Flow Related Checks" below.	
Sensors are out of sync	The temperature sensors MAY be out of sync by 2°F or 3°F. Call for service.	
Sensors are out of sync Call for service	The temperature sensors ARE out of sync. The fault above has been established for at least 1 hour. Call for service.	
Sensor A Fault, Senor B Fault	A temperature sensor or sensor circuit has failed. Call for service.	
Communications error	The control panel is not receiving communication from the System. Call for service.	
°F or °C is replaced by °T	The Control System is in Test Mode. Call for service.	

Flow-Related Checks

Check for low water level, suction flow restrictions, closed valves, trapped air, too many closed jets and pump prime. On some systems, even when spa is shut down by an error condition, some equipment may occasionally turn on to continue monitoring temperature or if freeze protection is needed.



Cal Spas Hot Tub WiFi App

The Cal Spas Hot Tub Wifi app can provide you with instant access and conrol of your spa wherever you connect within the spa's Wi-Fi range. This optional feature is available for use with any smart device (Android^m or iOS^m systems only). You must have the wifi module installed in your spa in order to use the app. It is only available for spas with the BP501 or BP2000 control box.

Spa owners who do not have this feature installed on their spa at the factory can order it as an after-market item.

Installing the app



Go to the Apple app store or Google Play and search for the free spa app using the key words "Cal Spas Hot Tub." Select the app. The icon for the app will appear on your device as shown at left.

Make sure you enable wifi on your phone before you run the app.

On the wi-fi connections screen on your device, a network will appear called "BWGSpa_ xxxxx_". (The x's represent the wi-fi module's local address and is unique for every spa.) Once you are connected to the network, start the Cal Spas app and follow the prompts on the screen. (Your start screen maybe different.)

- 1. Tap the app button on the main screen of your device.
- 2. Connect to the spa's wifi signal.
- 3. When connected, you will be taken to the main app screen.
- You are now directly connected to your hot tub and can control all the hot tub functions via the app.



Troubleshooting connection problems

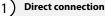
You should have few problems connecting with the wi-fi app. However, if you are unable to connect quickly and easily to the spa's wifi source, try doing the following.

- <u>Enable wi-fi on your device</u>. This is the most likely reason you may not be able to connect to the app. Check your devices wifi settings and try connecting again.
- Power cycle the spa. Shut off power to the spa for 30 second and turn it back on. Wait until the spa has gone through its complete set-up routine before you try to connect with the wifi app.
- <u>Wait until the spa has completely primed</u>. When you turn on the spa, it will go through a priming routine, which is followed by temperature polling, where no temperature is shown on the control panel. As soon as a temperature appears, you can connect with the wifi app.
- If you use your home network router, it MUST be close enough to the spa in order for the spa's wi-fi signal to reach the router. If you have connectivity problems, you may need to relocate your router closer to your spa or consider adding a wireless signal booster to your router.



16

Connecting to a Device or Network



(2)

Range: About 20 feet Range limit: Limited to the range of the wi-fi module



HOW TO CONNECT TO IT:

Install the app on your phone or device -- see the following section "Installing the app".

Through home network with no internet access

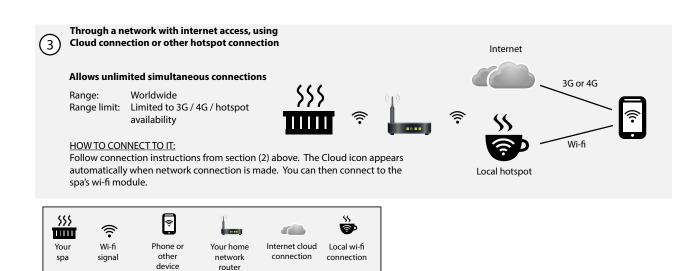
Allows one local connection at a time

Range: About 50 feet Range limit: Limited to the range of your home router's signal



HOW TO CONNECT TO IT:

- 1. Install the app on your phone or device.
- 2. Exit the app and go to wi-fi settings on your phone or device.
- 3. Select and enable your local router.
- 4. Start the app. After you connect, select Settings on the home screen.
- 5. On the Settings screen, select Advanced, then on the Advanced screen, select Wi-fi Settings.
- 6. On the Wi-fi screen, select WPA. Then select the name of your home router from the drop-down menu.
- 7. Enter the SSID and Key for your router, the tap Save and select OK twice.
- 8. Close the app and re-start it to connect to your home network.



For More Information

If you have any trouble connecting, you can find more in-depth instructions at the Balboa Water Group web site at www.balboawatergroup.com/bwa and download the PDF document "Setting Up Your Wi-fi".

There are also installation and setup videos at www.youtube.com/user/balboawatergroup.



Electrical Power Efficiency

Your new 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.

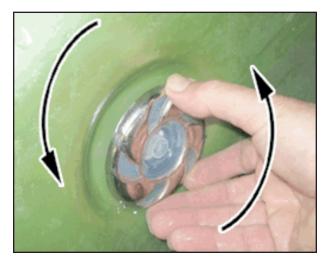
- Keep the spa's operating temperature 5°F below the desired usage temperature when not in use. One or two hours before use, set the temperature to the desired temperature.
- If the spa usage exceeds two hours a week, the set temperature should remain at the desired usage temperature.
- The air venturis 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.

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 below.)

Neck jets adjust in the opposite directions (counterclockwise to increase, clockwise to decrease).



LED Perimeter Lighting

Press the LIGHT button on the topside control panel to turn the spa light on. If your spa has perimeter LED lights, they will also light up at the same time as the spa light.

The perimeter lights operate in three modes:

- 1. Cycle: The first time you press the LIGHT button, the lights will cycle through all the colors in this order:
 - White Cyan Magenta Blue Yellow/green Green Red

To cycle through the different color choices, press the button repeatedly. Each time you press the button, you advance to the next color.

- 2. Flashing white: When you have cycled through all the colors, the next time you push the LIGHT button, the LED lights will flash white.
- **3.** Fading cycle: The next time you push the LIGHT button, the lights will gradually fade from one color to the next in the order shown above.

Spas with exterior corner LED lighting work in the same modes as described above but do not light up when the interior perimeter lights are yellow/green, green or red.



Diverter Knobs

Diverter knobs are 1" and 2" knobs located around the top of your spa. 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).

Air Venturis

Air venturis are the 1" knobs located around the top of your spa. 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 (counterclockwise) 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).

Waterfalls

Some spa series include optional waterfalls. When the booster pump is on, rotate the dial on top (for the cascade waterfall) or turn the knob (for the hydro streamer -- see below).











MSpar www.calspas.com



Adjustable Therapy System

Pump On / Off Button

Press this button once to turn on the ATS pump. The POWER ON light on the control panel will appear. Press this button a second time to turn off the ATS pump. The ATS pump must be on before you can use any other features of this system.

Pulse Mode Button

Press this button once to turn on the Pulse Mode. The first time it is pressed, the orange LED in position number 1 will 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. There are seven pulse modes in all. See the image at right.

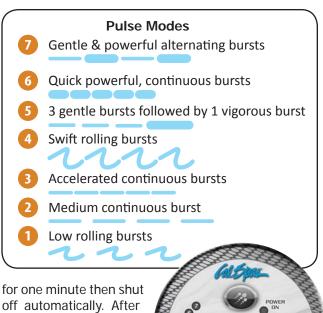
Allow one second between each button press. Pressing the button quickly may cause improper operation. To turn the Pulse Mode off and return to normal pump operation, press the **Pulse Mode** button a second time.

Up / Down Buttons

As described above, these buttons allow you to cycle through seven massage modes. 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.

Time Reset

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 light 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 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 you 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.

Resetting Pulse Mode

Pulse Mode will shut off for two hours unless reset. During this time the pump will run at a maximum speed. To reset Pulse Mode, press the **Pump On / Off** to turn off the ATS pump, the press the **Pulse Mode** button once. The power light will flash to indicate Pulse Mode has been reset.





Water Clarity

This section is intended for new spa owners with no experience with water chemistry. Everyone's experience with maintaining water quality is different, but there are some general concepts you need to know.

Water maintenance is not difficult, although it requires regular attention. The most important thing to understand about taking care of your spa water is that preventive action is much easier than correcting water quality issues.

The Key to Clear Water

Excellent water quality is a simple matter of four things:

Chemical Balance

You will need to test and adjust the chemical balance of your spa water. Although this is not difficult, it needs to be done regularly.

Depending on your choice of sanitizer, you need to test the level of calcium hardness, total alkalinity, and pH. Spa owners with a Cal Clarity II bromine generator also need to check total dissolved solids and phosphates.

See page 21 to learn how to balance your spa water.



Filtration

Cleaning your filter regularly is the easiest and most effective single thing you can do to keep your water clear.

A clogged or dirty filter will

cause the heater and pump to work harder than they need to, possibly causing them to fail.

The spa's heating system will only function with the proper amount of water flow through the system.

See page 23 for filter cleaning instructions.

Sanitation

Sanitizers kill bacteria and viruses and keep the water clean. A low sanitizer level will allow microbes to grow quickly in the spa water. We recommend using either chlorine or bromine as your sanitizer.

Spa owners with an ozonator also need to add sanitizer, although their requirements are different.

See page 22 to learn how to use sanitizer.

The Cal Clarity II bromine generator does NOT require sanitizer. See page 25 for a description of its use.

Regularity

Clear water requires regular maintenance. Establish a routine based on a regular schedule for your spa water maintenance.

Maintaining your water quality helps the enjoyment of your spa and extends your spa's life by preventing damage from neglect and chemical abuse.

See page 27 for the schedule of recommended maintenance.



Testing and Adjusting Spa Water

You have two types of testing methods to choose from:

- The reagent test kit is a method which provides a high level of accuracy. It is available in either liquid or tablet form.
- Test strips are a convenient testing method commonly used by spa owners.

Balancing the Total Alkalinity

Balancing the Calcium Hardness

Total alkalinity (TA) is the measure of the total levels of carbonates, bicarbonates, hydroxides, and other alkaline substances in the water. TA can be considered a "pH buffer". It is the measure of the ability of the water to resist changes in pH level.

The recommended total alkalinity is 80 - 120 ppm.

<u>If the TA is too low</u>, the pH level will fluctuate widely from high to low. Low TA can be corrected by adding an alkalinity increaser

<u>If the TA is too high</u>, the pH level will tend to be too high and may be difficult to bring down. High TA can be corrected by adding an alkalinity decreaser.

When the TA is balanced, it normally remains stable, although adding water with high or low alkalinity will raise or lower the TA level.

Calcium hardness (CH) is a measure of the total amount of dissolved calcium in the water. Calcium helps control the corrosive nature of the spa's water and is why soft water is not recommended. The low calcium content of soft water is very corrosive to the equipment and can cause staining of the spa shell.

The recommended calcium hardness is 150 - 200 ppm.

If the CH is too low, add a calcium hardness increaser.

If the CH is too high, dilute the spa water with soft water.

When the CH is balanced, it normally remains stable, although adding soft water or very hard water will raise or lower the CH level.

Balancing the pH

The pH level is the measure of the balance between acidity and alkalinity.

If the pH is too low, it can cause corrosion of metal fixtures and the heating element. Low pH can be corrected by adding a pH increaser.

<u>If the pH is too high</u>, it can cause scaling by allowing metals or minerals to form deposits and stain spa surfaces. High pH can be corrected by adding a pH decreaser.

Ideal Water Chemistry

	Ideal Range (ppm)	
Testing For:	Minimum	Maximum
Total Alkalinity	80	120
Calcium Hardness	150	200
рН	7.2	7.6





Sanitation

Sanitizers kill bacteria and other organic waste by breaking them down to nonharmful levels and are filtered out. Before you fill your spa, you need to decide which chemical sanitizer you wish to use. Consult your Cal Spas dealer for the right decision with regards to your lifestyle and spa usage.

Do not use a sanitizer with the Cal Clarity II bromine generator. See page 25 for instructions on its use.

We recommend either **bromine** or **chlorine** as your sanitizer. Both work well when maintained regularly.

DO NOT use trichlor. Trichlor is very acidic and the hot temperature of the spa causes it to dissolve too quickly. It will cause damage to your spa and will void your warranty.

Whichever plan you decide on, follow it completely and don't take shortcuts. It will provide you with clean, safe, clear spa water with a minimum of effort. Spa owners with an ozonator still need to use a chemical sanitizer. See page 24 for a desciption of how the ozonator works.

Using	Chlorine as a S	Sanitizer
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If you choose to use chlorine as a sanitizer, only use granulated chlorine, not liquid chlorine.

Once a week, check the chlorine level using either a test strip or a reagent kit. See the table on the following page for the ideal range.

Add one or two tablespoons granulated chlorine to the spa water weekly. Note that chlorine dissipation rate will be faster at higher water temperatures and slower at lower temperatures.

When you add chlorine, open all of the jets and run the spa at high speed with the cover open for at least 30 minutes.

Follow the maintenance schedule on page 27.

Using Bromine as a Sanitizer

Bromine is a very effective sanitizer that produces low chemical odors. Unlike chlorine, it can break down bacteria and other impurities to a safe level with a low burn-out rate.

Bromine is available in both granulated and tablet form. Use granulated sodium bromide to establish your bromine base. Use tablets to maintain it.

When you begin with fresh water, add 2 ounces of granulated bromide. Open all of the jets and run the spa at high speed with the cover open for at least 30 minutes. This is your base bromine level as the tablets will take a while to dissolve.

Place three or four bromine tablets in your chemical floater.

Follow the maintenance schedule on page 27.

Shocking the Water

In addition to using a chemical sanitizer, you will periodically need to shock the water. Shocking the water helps remove burned-out chemicals, bacteria, and other organic material from your spa's water and improves your sanitizer's effectiveness.

Do not use chlorinating shock, which will damage your spa's jets and pump seals. Only use an oxidizer shock. It can be used with either chlorine or bromine sanitizers.

Add one ounce of oxidizer shock once a week, after heavy bather loads, or if water has a strong odor.

Spa must be running with all of the jets on high for 30 minutes with the cover open. If necessary, repeat oxidizer shock in 30 minute intervals.

Do not use shock with the Cal Clarity II bromine generator. See page 25 for instructions on its use.

Testing For:	Ideal Range (ppm)	
	Minimum	Maximum
Chlorine level		
Without ozonator	3.0	5.0
With ozonator	2.0	4.0
Bromine level		
Without ozonator	6.7	11.0
With ozonator	5.7	10.0



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.

Recommendations are designed for spas with average bather load (3 to 4 people, 15 minutes of usage, three 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 advice of your Cal Spas dealer for additional chemical or system recommendations. Be sure to give them your bather load information.

Filter Cleaning

The filter is the part of your spa that removes the debris from the water and 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 particles that get lodged deep within the filter fibers and impede the filtration process. Even if the filter looks clean, scale and particles 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.

We recommend you clean your filter once a month and replace it once a year or as necessary.

It is extremely important that you never run the spa without a filter. There is a possibility that debris may be sucked into the plumbing through the filter well.

Set the spa in Hold Mode before you remove the filter. Hold Mode pauses all spa operations for 60 minutes for service functions like cleaning or replacing the filter. See page 13 for instructions on using Hold Mode.

Cleaning the filter

- 1. Remove the filter by unscrewing it and pulling it up and out.
- 2. Place the dirty filter into a bucket of water deep enough to cover the filter. Add 8 oz of liquid filter cleaner to the bucket of water.

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

- 3. Soak the filter for a minimum of 24 hours.
- 4. Spray the filter with a water hose. Spray each pleat carefully.
- 5. Reinstall the filter. Do not overtighten.



Pure Cure[™] Water Sanitizer

The Pure Cure[™] water sanitizer is an optional water purification system installed at the factory. It eradicates germs in the water that are resistant to chlorine-based chemicals using high intensity UV light. Although the water sanitizer works automatically with your spa, you will still need to test for chlorine or bromine and occasionally replenish it to return the sanitizer level to the baseline.

For spas without a circulation pump, pump 1 will run at low speed and the water sanitizer will run during filtration.

For spas with a circulation pump, the water sanitizer will run with the circulation pump.

The spa's control system is factory-programmed with one filter cycle that will run in the evening when energy rates are often lower. The time and duration of the filter cycle can be set according to your needs. In addition, a second filter cycle can be enabled. Filtration time may need to be increased with heavy bather load.

See instructions for setting filtration cycles on page 11.

The water sanitizer is virtually maintenance-free. Once a year the UV light needs to be replaced. See page 33 for instructions. However, the water sanitizer is not a user-serviceable item and maintenance must be performed by a spa technician. Have your service technician consult the manufacturer's instruction and service manual.

Ozonator

The ozone generator releases ozone into the spa water. You will still need to test for chlorine or bromine and occasionally replenish it to return the sanitizer level to the baseline.

For spas without a circulation pump, pump 1 will run at low speed and the ozonator will run during filtration.

For spas with a circulation pump, the ozonator will run with the circulation pump.

The spa's control system is factory-programmed with one filter cycle that will run in the evening when energy rates are often lower. The time and duration of the filter cycle can be set according to your needs. In addition, a second filter cycle can be enabled. Filtration time may need to be increased with heavy bather load.

See instructions for setting filtration cycles on page 11.



Cal Clarity II Bromine Generator

The Cal Clarity II bromine generator automatically generates and releases free bromine into the spa water. You will still need to test for bromine and occasionally adjust it to return the bromine level to the baseline.

Starting the Spa with Fresh Water

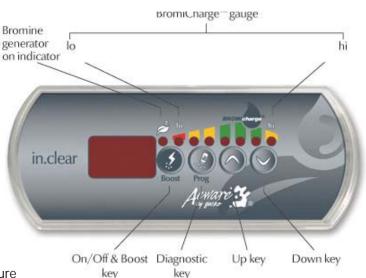
This applies to spa owners with the Cal Clarity II bromine generator ONLY.

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.

- Fill the spa to the proper water level with normal tap water. (Do not use soft water.) See page 6 for filling instructions.
- 2. Turn on the spa and allow it to prime. See page 8 for priming instructions.
- 3. Turn on the jets.
- Press the **Boost** button to turn on the Cal Clarity II system. The red ON light should appear steady. If it blinks, make sure the jets are running.
- Press and hold the Prog button for two seconds. When the flashing number appears, press the Prog button a second time. An animation will appear, then a number showing the total dissolved solids (TDS) level will be shown.
- 6. Add Bromicharge[™] to the spa water. Use the table below to determine how much you should use.
- 7. Let the spa run for 15 minutes. Leave it uncovered during this time.

Spa Capacity		Amount of BromiCharge™	
Gallons	Liters	Pounds	Kilograms
300	1135	3.6	1.6
400	1515	4.8	2.2
450	1700	5.4	2.5
500	1890	6	2.7

Use 1.2 lbs. per 100 gallons, or .5 kg per 378 liters.



- 8. Check the TDS level again (described in step 5).
- Set the Maintenance level. Press and hold the Prog button for two seconds. A number will flash showing the Maintenance Mode bromine level. Press the UP or DOWN buttons to raise or lower it. Press the Boost button to return Maintenance Mode.

Use the table below to determine which level to start at.

Spa capacity (gallons)	Maintenance level	
300 - 400	10	
400 - 500	15	
> 500	20	

- 10. Put cover on spa and let spa run for 24 hours to allow it to heat to desired temperature.
- 11. After 24 hours, check TDS level again (as described in step 5). TDS should be between 3 5 ppm. If it is too low, raise it in increments of 5 (as described in step 9).



Cal Clarity II Settings

Before entering the spa, the bromine level should be tested. The bromine generator can only produce bromine when:

- the spa is running,
- Bromicharge[™] has been added, and
- the bromine generator is in the proper mode.

1. ON / Maintenance Mode

Press the **Boost** button briefly while the jets are running. The system will activate in Maintenance Mode and the word **ON** will appear on the display.

2. Adjusting the Maintenance Mode

To adjust the Maintenance Mode bromine level, press and hold the **Prog** button for two seconds. A number will flash showing the Maintenance Mode bromine level. Press the **UP** or **DOWN** buttons to raise or lower it. After seven seconds, the number will stop flashing, meaning the bromine level is active. Press the **Boost** button to return Maintenance Mode.

3. Boost Mode

The Boost Mode is used each time you use the spa. Press the **Boost** button once to activate the Boost Mode. A number with a dash before and after it will flash for about five seconds showing the boost level. This number corresponds to the number of bathers. While the number is flashing, press the **UP** or **DOWN** buttons to raise or lower it. When the number stops flashing, the system will remain in Boost Mode.

4. Using the Diagnostic Mode

Press and hold the **Prog** button for two seconds. When the flashing number appears, press the **Prog** button a second time. An animation will appear, and within 10 seconds the TDS level will be shown.

5. Turning OFF

Press and hold the **Boost** button for two seconds. The system will shut off and the word **OFF** will appear on the display.

Adding BromiCharge[™] to the Water

BromiChargeTM is the chemical additive used with the Cal Clarity II. It can be added anywhere in the spa by simply pouring it from the container. Do not breathe or get into your eyes.

Operating Modes

Maintenance Mode

Maintenance Mode is the "everyday" mode and is automatically on when the system is activated. Its primary function is to keep the bromine level at a stable and acceptable range when the spa is not being used.

Boost Mode

Use the Boost Mode each time you use the spa. Boost Mode increases the bromine generation rate to attack pollutants in the water. Activating the Boost Mode when you enter the spa will prevent inadequate bromine levels and will regenerate your bromine to the proper residual level.

Diagnostic Mode

The Diagnostic Mode indicates the Bromicharge[™] salt level of your spa. This is a useful tool when adding BromiCharge[™] to the water. Keep the TDS level indicators in the green zone and value between 11 and 14 for optimal performance.

Testing the Water

In addition to testing the water for levels of calcium, alkalinity, and pH, you also need to test for bromine and total dissolved solids (TDS).

See page 21 for instructions on testing the water and for Ideal Water Chemistry levels.

The bromine level should be maintained between 3-5 ppm and can be tested with a DPD test kit, or bromine test strips, found at any spa/pool store.

If the bromine generator does not produce enough bromine, make sure the recommended level of 1440 ppm of Bromicharge[™] salt is still present in the spa water. The bromine generator can test the water using the Diagnostic mode. This is described in the "Operating Modes" section above.

If the bromine level is too high, remove a small amount of spa water until the bromine level is between 3-5 ppm. For more immediate results, dilution with fresh water will lower the bromine level.

	Ideal Range	
	Minimum	Maximum
BromiCharge [™] (ppm)	1300	1600
Bromine (ppm)	3	5
TDS level	11	14



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Maintenance Schedule

Each time you refill the spa	Follow the section "Filling and Powering Up Your Portable Spa" on page 6.	
Prior to each use	Test the spa water using either test strips a reagent test kit. Adjust chemical levels as necessary.	
Once a week	Test the spa water using either test strips a reagent test kit. Adjust chemical levels as necessary. If your water source is high in calcium, add stain and scale preventer.	
Once a month	Deep clean your spa's filter. (Follow filter cleaning instruction at beginning of this section)	
Every two to four months	 Change the spa water. How often you change the water depends on how much you use the spa. When you change the water, you will need to: Clean and polish the acrylic surface (see page 32) Clean and treat the spa cover and pillows (see page 32) Deep clean the filter (see page 23) Refill your spa (see page 6) 	
Once a year	Replace filter cartridges if the pleats appear frayed. If you use the Cal Pure UV water sanitizer, you will need to replace the UV lamp (see page 33 for UV lamp maintenance)	

Troubleshooting Water Clarity Problems

Problem	Probable Causes	Possible Solutions
Cloudy Water	Dirty filter	Clean filter
	• Excessive oils / organic	Shock spa with sanitizer
	matter	Add sanitizer
	Improper sanitization	Adjust pH and/or alkalinity to recommended
	 Suspended particles / organic matter 	range
	Overused or old water	Run jet pump and clean filter
		Drain and refill the spa
Water Odor	• Excessive organics in water	Shock spa with sanitizer
	Improper sanitization	Add sanitizer
	Low pH	Adjust pH to recommended range
Chlorine Odor	Chloramine level too high	Shock spa with sanitizer
	Low pH	Adjust pH to recommended range
Musty Odor	Bacteria or algae growth	 Shock spa with sanitizer – if problem is visible or persistent, drain, clean and refill the spa
Organic buildup / scum ring around spa	Buildup of oils and dirt	 Wipe off scum with clean rag – if severe, drain the spa, use a spa surface and tile cleaner to remove the scum and refill the spa
Algae Growth	• High pH	Shock spa with sanitizer and adjust pH
	Low sanitizer level	 Shock spa with sanitizer and maintain sanitizer level
Eye Irritation	Low pH	Adjust pH
	Low sanitizer level	 Shock spa with sanitizer and maintain sanitizer level
Skin Irritation / Rash	Unsanitary water	Shock spa with sanitizer and maintain
	• Free chlorine level above 5	sanitizer level
	ppm	 Allow free chlorine level to drop below 5 ppm before spa use
Stains	 Total alkalinity and/or pH too low 	Adjust total alkalinity and/or pH
		Use a stain and scale inhibitor
	High iron or copper in source water	
Scale	 High calcium content in water – total alkalinity and pH too high 	• Adjust total alkalinity and pH – if scale requires removal, drain the spa, scrub off the scale, refill the spa and balance the water
		Use a stain and scale inhibitor



be

Removing and Reseating the Pillows

Hold lower edge

Align inserts

with holes

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.

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.

s can be easily removed for cleaning.

asp the outer rim of the jet and turn it unter-clockwise until it completely stops. u may feel it slightly loosen pop out a bit m the fixture. Pull the jet out from the fixture. The jet with be very study and Replacement

y require some force to remove it. DO T PRY OUT JETScan be easily removed for cleaning.

replace the jet appade to utbe fitting fattle jet and turn n it clockwiste counter scheps wise not be a jet will unscrew rotated free fy cato do be fitting tuntil it is free.

> To replace the jet, place it in the fitting and turn it clockwise until it is snug in place. Do not overtighten the jet.



Pull up firml

Spa Cover

2015 Platinum Series Spas

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.

Strike pillow to snap in insert

Draining Your Portable Spa

Your spa should be drained every four to six months for cleaning and maintenance and refilled with fresh tap water. See page 32 for instructions on cleaning the shell, cover, and pillows. See page 6 for instructions on refilling your spa. Before you begin, turn off power to the spa at the breaker and remove all filters.

1. Locate your drain.

Pull the knob out of the cabinet. The cabinet drain is screwed into the drain pull knob.



2. Remove the cap

Make sure the valve is in the closed position, then unscrew and remove the cap. Unscrew the cap.



3. Connect valve to a garden hose.

Attach a garden hose to the hose-bib fixture. Place the other end of the garden hose where you would like the water to drain.



4. Drain the spa.

Turn the valve on the hose-bib fixture to open the drain. When the spa has drained completely, turn the valve on the hose-bib fixture, remove garden hose, and replace the cap.



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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.

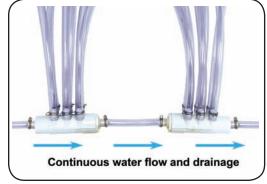
Warning: If you find the need to drain your spa, be aware of the potential of freezing in your spas equipment and plumbing. Even if the directions below are followed perfectly, there is no guarantee that your spa will not suffer freeze damage. Freeze damage is not covered by your warranty.

All manifolds are plumbed in series directly to the main drain (see figure at right), making it easier to remove water and reducing the possibility of freeze damage.

- 1. Open all filter covers.
- 2. Remove the filter baskets and filters.
- 3. Drain your spa completely as described in the instructions above.
- 4. Vacuum water from the spa's main drain fitting with a wet/dry vacuum.
- 5. Open the bleeder valves on the pumps.
- 6. For spas with the UV lamp chamber mounted flat on the equipment floor:

Loosen the quartz tube nut at the top of the UV lamp chamber and pull up the quartz tube to let the water drain from the UV lamp chamber.

- 7. Disconnect the unions from both sides of the pump.
- 8. Blow any remaining water out of the jets and



equipment area with the wet/dry vacuum.

- 9. When it has completely finished draining, replace the quartz tube in the UV lamp chamber and retighten the nut. Close the bleeder valves and re-connect the unions on the pumps. Replace the filter baskets and filters.
- 10. Cover your spa with a good spa cover and an allweather tarp to ensure that neither rain nor snow enters the spa.

Cleaning and Replacing the Filter

Filtration is one of the most important steps you can take to ensure clean, clear water. 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.

See the section "Filter Cleaning" on page 23 for more information.



Vacation Care

You can leave your spa unattended for up to two weeks if you follow these instructions.

ALWAYS lock your cover using the cover locks if you plan to be away from home and the spa is filled with water.

- 1. Select the Low Range temp choice used for vacation mode. (See instructions on page 12 for vacation setting.)
- 2. Following the water quality instructions starting on page 21, adjust the pH.
- 3. Shock the water (add either chlorine or bromine sanitizer).
- 4. When you return, check and adjust the pH and shock the water.

If you will not be using your spa for longer than 14 days and a spa maintenance service is not available, we strongly recommend you drain or winterize your spa.

Cleaning Your Spa

Spa Cover and Pillows

Due to the constant punishment your spa cover and pillows receive, you should protect them by applying a vinyl and leather cleaner as part of your monthly maintenance plan. Use a product that is specifically designed to protect spa covers and pillows from chemical and ultraviolet light damage without leaving an oily residue behind that is normally associated with common automotive vinyl protectants.

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.

Spa Shell

Each time you drain your spa, before you refill it you should clean your spa shell with an all-purpose cleaner and apply a coat of surface protectant.

Use a low detergent, non-abrasive cleaner specifically formulated to clean the spa without damaging its acrylic finish.

Use a non-oil based surface protectant that is specifically formulated to protect the spa's finish from the chemicals and minerals associated with normal spa use.



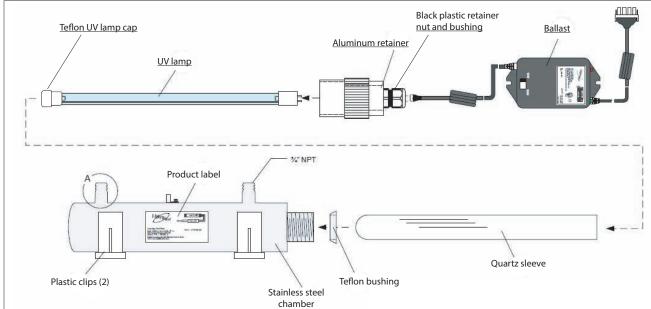
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Changing the UV Lamp



CAUTION: Always turn off power to the spa at the GFCI prior to any maintenance.

Note: Periodically you should the check the light on the transformer for the UV light system. The transformer is mounted in the spa equipment area. When it is operating normally, the light will be green. When it requires maintenance, it will be red. This usually happens when the UV lamp needs replacing. The UV lamp is a wearable part that needs replacing about once a year. See page 40 for part numbers for replacement parts.

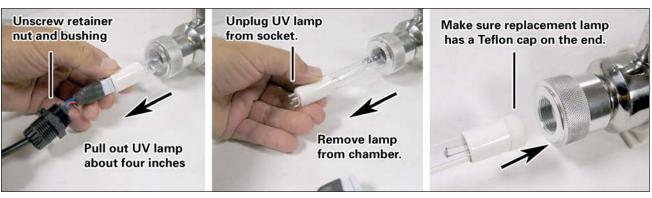


Before you begin, disconnect power to the spa.

- 1. Cut the tie wrap that attaches the UV lamp chamber to the spa frame.
- 2. Unscrew both the black plastic retainer nut and bushing from the aluminum retainer. Do NOT loosen or remove the aluminum nut retainer.
- 3. Pull out the UV lamp approximately 2" from the chamber.
- 4. While holding the UV lamp end, remove the lamp socket from the end.
- 5. Remove the UV lamp from the chamber.
- To reinstall the replacement UV lamp, follow these steps in reverse.



When replacement UV lamp has been installed, restore power to the spa at the GFCI, turn on the pump and let water run for five minutes to check for leaks.



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Using the Digital Media Locker

The Aquatic AV digital media locker is fully integrated with your Cal Spa. It will accommodate any digital device, such as iPhones, smart phones, and MP3 players, that is USB or Bluetooth capable.

The docking station comes with its own owner's manual. It describes parts included, installation, and proper use. Owners of this system must read the manufacturer's instructions prior to operating this unit. The instructions are shipped inside the docking station behind the remote control.

The instructions contained in this manual describe only basic functions. See the manufacturer's operating instructions for other features and functions.

Although the media locker features a locking door with

seals, it is **water resistant** and **NOT waterproof**. You must take every precaution to keep the interior of the media locker dry.

- Make sure that hands are dry before coming in contact with the media locker.
- Always CLOSE AND LOCK the protective door.

See page 37 for instructions on protecting the media locker from water damage. Water damage caused by negligence or improper use is not covered under warranty.

Note: The digital media locker comes with a remote control and does NOT INCLUDE an MP3 player such as an iPod.

Aquatic AV AQ-DM-3B Media Locker

The Aquatic AV docking station has very basic features. It will play any audio device with a 3.5mm headphone plug. This device does not use a remote and does not offer Bluetooth connectivity.

The device requires a short connector (NOT PROVIDED) with two 3.5mm connector jacks that attach from your audio device to the inside of the locker

to the inside of the locker.

To open the locker, slide the latch up to unlock the door.

Press the power button inside the locker. The red LED will turn on.

Plug a 3.5mm connecter into your audio device and to the inside of the locker.



NOTE: This connector is NOT provided with the Aquatic AV locker.

Use the velcro strap to keep your device secure inside the locker while it is in use.

While your audio device is in the locker, close the door and slide the lock to keep it secure and water tight. If this is done properly, it will protect your audio device.

The front panel has basic controls for controlling the audio only. All other functions, such as track selection, must be controlled from your audio device.





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Aquatic AV AQ-DM-5UBT Media Locker

Synchronizing (Pairing) the Remote Control with the Media Locker

Before you can use the remote control with the docking station, they need to be synchronized, or paired. Follow the simple instructions below.



The media locker shown in this instruction is model AQ-DM-5UBT, although this pairing instruction can be used with earlier Aquatic AV media lockers that use a remote control. Model AQ-DM-3B does not require a remote and does not need to be paired in order to function.



If you have trouble pairing the devices:

- Re-read the instructions and follow them carefully. You may have missed an important detail.
- Make sure the red power light inside the docking bay is OFF before you begin.
- PRESS and HOLD the **Mode** button on the remote until it reads PAIR. Do not release the **Mode** button.
- Do not press the **Power** button inside the docking station until the remote reads PAIR.
- Press and hold the **Power** button for *NO MORE* than five seconds. Otherwise, the devices will not pair.



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Listening to Devices

There are three ways to connect your device to the media locker: With the USB connection, Bluetooth connection, and the auxiliary input.

1. Connecting via USB

The Aquatic AV digital media locker comes with one USB connector for Apple devices. If you have another kind of device, you will need to supply your own USB connector, such as the type shown below.





Apple USB connector

USB micro B connector

- 1. Attach your device to the USB cable inside the digital media locker using the appropriate USB connector.
- 2. Secure the device with the anchor straps.
- 3. Close and lock the media locker's protective door.
- 4. Press **POWER** on the remote control or Power button on the locker to turn it ON.
- 5. Press **MODE** on the remote control to select USB mode. Use the buttons as shown in the remote function chart.

Note: When USB devices are connected to the USB input, the device's battery will charge.

Search for Songs and Playlists

Apple devices

- 1. Press **SEARCH** to enter iPod searching mode.
- Once in searching mode, the remote will display 'Playlist'. Continue to press SEARCH to scroll through the search modes below:

1) Playlist 2) Artist 3) Album 4) Song 5) Genre 6) Composer 7) Audio Book

- 3. Press **PLAY/PAUSE** To select the desired search mode.
- 4. Press **Volume UP/DOWN** to scroll through your media in the selected search mode.
- Once you find the desired media, press PLAY/ PAUSE to make your selection. If your selection is a song, it will begin to play. If you select a playlist,

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artist, album, genre, composer or audio book, the songs in the selected folder will be visible. Press **PLAY/PAUSE** to play the desired song within the folder.

Other USB devices

- 1. Press **SEARCH** to enter the USB searching mode.
- Press Volume UP/DOWN to scroll through the folders on your USB device. To select a folder, press the PLAY/PAUSE button.
- Press Volume UP/DOWN to scroll through the songs in the folder and press PLAY/PAUSE to play the desired song.

2. Connecting via Bluetooth

- 1. Switch on your Bluetooth device.
- 2. Select 'AQUATIC AV' from the list of available devices to pair (no password is needed).

Only one Bluetooth device can be paired with the Digital Media Locker at any time.

Bluetooth mode will be activated once a Bluetooth device is linked. Play the song from device and the sound will play through the Digital Media Locker.

- Press PLAY/PAUSE to play or pause the song.
- Press FAST REWIND or FORWARD buttons to play previous/next song file.

Track and volume can be controlled directly from your Bluetooth device, remote control or door controls.

3. Connecting via Auxiliary Input

When you connect your device via the auxiliary input, you play media directly to the audio input of the media locker. The remote control can not control your device when it is connected through the auxiliary input. You will need a 3.5 mm audio connector as shown below.



(36)

- 1. Connect your MP3 device to the 3.5 mm jack input.
- 2. Secure the device with the anchor straps.
- 3. Close and lock the media locker's protective door.
- 4. Press **POWER** on the remote control or the **POWER** button on the locker to turn it ON.
- 5. Press **MODE** on the remote control to select 'AUX IN' mode.

Only one auxiliary input (3.5 mm jack) can be used at any one time.

Listening to FM Radio

Press **MODE** on remote control to switch to FM radio mode. If this is the first time you listen to FM radio, the default frequency will be 87.5MHz, as shown on the remote LCD.

To scan or seek FM radio channels, press **FAST REWIND** or **FAST FORWARD** to seek another station. Press and hold either **FAST REWIND** or **FAST FORWARD** for manual tuning back or forward.

To save the current radio station into memory, press and hold the **1**, **2**, or **3** button for more than 2 seconds. The station will be stored to that button. Press the **1**, **2**, or **3** button to listen to the preset station.

Remote and Keypad Functions

All of the functions on remote control and the keypad on the media locker's door are identical.

For a detailed description of all key functions, see the manual for the Aquatic AV media locker.

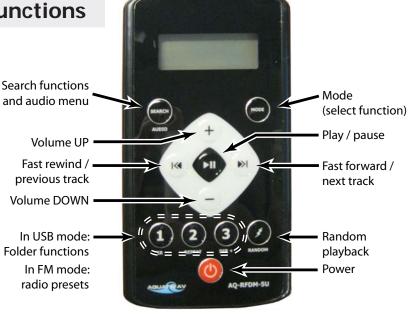
Closing and Locking the Door

Always CLOSE and LOCK the media locker door after you place or remove a media device inside it.

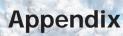
Slide the clasp down to lock the door as shown at right. Make sure the door is firmly pressed into the watertight seal before you slide the lock into place.



Water damage caused by negligence or improper use is not covered under warranty.







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Please visit www.quickspaparts.com to order your replacement parts.





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Please visit www.quickspaparts.com to order your replacement parts.

LED Lights LED mini DCU controller (P1309) LIT16100626





Interior light with logic LIT16100625

LED light string jumper, 46 inches, daisy

chain

ELE09902531

2-LED

Replacement Cabinet Panels

The complete selection of replacement cabinets for all models is very extensive and too lengthy for this owner's manual. To order replacement panels for your spa, visit www.quickspaparts.com.

Pure Cure™ UV Water Sanitizer		
Pure Cure complete system (Lightwave) LIT16000395		
Stainless steel UV chamber		
LIT16000400		
Teflon seal ring LTR16000401	0	
Quartz sleeve		
UV lamp		
LIT16000403	: to want of	
Aluminum retainer		
LIT16000404		
UV ballast, 15W 120V / 230V		
LIT16000405		
Flat retainer washer		
LIT16000406	\bigcirc	
Mounting brackets		
LIT16000407	S.	
Teflon UV lamp cap		
LIT16000408	9	





Covers

All spa covers are designed with a tapered height, angling downward from the center to the sides to drive off rain and prevent water from pooling. The covers listed below are filled with either 1 lb, 1.5 lb, or 2.0 lb foam.



87" x 87"

Fits spa model: PL-854L-S

	Basic	Standard
Black	N/A	COV8787S53BK-BK
Gray	N/A	COV8787S53G-CC

84" x 84" (7 foot spas)

Fits spa models: P-760L, P-760B

	Basic	Standard	Deluxe
Black	COV8484B42BK-BK	COV8484S53BK-BK	COV8484D53BK-BK
Gray	COV8484B42G-CC	COV8484S53G-CC	COV8484D53G-CC
Slate	COV8484B42S-WN	COV8484S53S-WN	COV8484D53S-WN
Rust	COV8484B42R-WW	COV8484S53R-WW	COV8484D53R-WW

93" x 93" (8 foot spas)

Fits spa models: P-860L, P-860B, P-880L, P-880B, P-880L-S, P-880B-S

	Basic	Standard	Deluxe
Black	N/A	COV9393S53BK-BK	COV9393D53BK-BK
Gray	COV9393B42G-CC	COV9393S53G-CC	COV9393D53G-CC
Slate	N/A	COV9393D53S-WN	COV9393D53R-WW
Rust	COV9393B42R-WW	COV9393S53R-WW	COV9393B42S-WN



Basic Troubleshooting

The troubleshooting guidance provided here is intended to cover the most common problems a spa owner may encounter. For more in-depth troubleshooting, go to www.calspas.com/troubleshooting.

	Symptom	Possible Solutions
Ρ	roblems starting up	
	Pump won't prime	See priming instructions on page 8.
	Breaker keeps shutting off	Reset the GFCI breaker. If this continues, contact your dealer or a qualified spa technician.
P	ower and system problems	
	System won't start up or breaker keeps shutting off	Power may be shut off. Turn on GFCI circuit breaker. If this continues, contact your dealer or a qualified spa technician.
	Control panel doesn't respond	Turn on or reset the GFCI circuit breaker. If this does not solve the problem, contact your dealer or a qualified spa technician.
		If you hear the pump running but the control panel doesn't respond, contact your dealer
	Spa does not turn off	Spa may be trying to heat up. Check if spa is in Ready or Rest mode (see page 12)
		In cold climates, if spa is not equipped with full foam or any kind of insulation, it will try to maintain the set temperature. Set the spa to low temperature range and set the temperature to 80°F.
		Spa may be in filter cycle. If it is, this is normal and no adjustment is necessary.
	Message on the control panel	There may be a problem. See Diagnostic Messages on page 14.
н	eat problems	
	Spa water does not get hot	Spa may be in low temperature range. Set the spa to high temperature range.
		The filter may be dirty or may need to be replaced. Clean or replace the filter.
		The water level may be too low. Fill the spa with water level at 4 to 6 inches from the top.
		The temperature is not turned up high enough. Raise temperature on topside control.
		Cover the spa. The cover will keep heat in the spa and help keep heat from escaping. Make sure cover is on at all times when spa is not in use.
		The heater element may be old, deteriorated, coated with scale, or defective. Contact your dealer for more assistance.
		The gate valves may be partially or completely closed. NEVER OPERATE YOUR SPA WITH THE GATE VALVES CLOSED!
	Spa overheats - temperature greater than 110°F / 43°C	Overheating can occur during summer months and may not necessarily indicate a malfunction. When it occurs, a message code may also appear on the control panel.
		Temperature may be set too high. Turn the set temperature down to a lower temperature.
		Filtration time may be too long. Turn the filtration cycles down during the warm months.
		The spa may not be properly ventilated. Make sure the front of the spa is not blocked to allow air flow.
		High speed pumps may have been running too long. Limit pump running time to no more than 15 to 30 minutes.



Symptom

Possible Solutions

Water pressure problems

	Low water pressure	Jet valves may be partially or fully closed. Open the jet valves.
		Filter cartridge may be dirty. Clean or replace the filter.
		Pump may have airlock. Remove airlock by priming spa (page 8)
		The suction fittings may be blocked. Remove any debris that may be blocking them.
		The filter skimmer may be blocked. Remove the blockage.
		Gate valves may be closed. Open gate valves. Note: Never operate your spa with the gate valves closed!
		Spa may be running in filtration mode. Press JETS or JETS 1 button to turn on high speed pump.
	No water pressure (no water stream from any jets)	Power may be switched off. Turn the power back on.
		The pump may be defective. After you have tried all other troubleshooting, contact your dealer for assistance.
	Jets surge on and off	Water level may be too low. Add water to normal level.
P	ump problems	
	Pump runs constantly – will not shut off	There may be a problem with circuit board. Contact your dealer.
	Noisy pump	The water level may be too low. Fill the spa with water level at 4 to 6 inches from the top.
		Filter cartridge may be dirty. Clean or replace the filter.
		Pump may have airlock. Remove airlock by priming spa (page 8)
		The suction fittings may be blocked. Remove any debris that may be blocking the suction fittings.
		Gate valves may be closed. Open gate valves. Note: Never operate your spa with the gate valves closed!
		Air may be leaking into the suction line. Contact your dealer for assistance.
		Debris may be inside the pump. Contact your dealer for assistance.
		Noise may be a sign of damage. Contact your dealer for service.

Pump turns off during Automatic timer may have completed its cycle. Press JETS or JETS 1 button to operation start the cycle again. Pump may have overheated due to the vents on the equipment door being blocked. Make sure the front of the spa is not blocked to allow air flow. The pump motor may be defective. Contact your dealer for assistance. Pump has a burning smell A burning smell may be a sign of damage. Contact your dealer for service. while running Pump may have over heated. Let it cool for an hour and try operating the spa Pump does not run for a shorter time. Power to the spa may be shut off. Turn on or reset the GFCI circuit breaker. If this does not solve the problem, contact your dealer or a qualified spa technician.



LIMITED WARRANTY

This Limited Warranty is extended to the original purchaser of a Cal Spa brand portable spa manufactured after January 1, 2015 and installed for residential use in the United States of America and Canada. This warranty begins on the date of delivery of the spa, but in no event later than one year from the date of manufacture.

Shell Structural Warranted against water loss due to defects in the spa shell.	10 years
Shell Finish Warranted against blistering, cracking, or delaminating of the interior surface of the spa shell.	7 years
Equipment and Controls Electrical equipment components – specifically limited to the pumps, standard titanium heater, and control system – are warranted against malfunctions due to defects in workmanship or materials.	5 years
Plumbing Warranted against leaks due to defects in workmanship or materials.	5 years
Cabinet - synthetic, fiberglass, or wicker Warranted against defects in workmanship or materials. Normal wear and weathering of the finish will occur naturally over time and are not defects.	5 years

Warranties for Other Components

The fuses, headrests, cabinet finish, and filters are warranted to be free of defects in workmanship and material at the time of delivery. The factory installed Pure Cure water purification system is warranted against malfunction due to defects in workmanship or material for one year from the original date of delivery, except for the UV bulb and quartz tube, which are warranted for 90 days from the original date of the spa delivery. All stereo-related components (receiver, speakers, sub-woofer, stereo media locker, power supply, wireless remote control etc.) are warranted against malfunction due to defects in workmanship or material for one year from the original date of delivery. All other factory-installed components not mentioned specifically, including, but not limited to the wood frame, jets, diverter valves, LED lighting systems, filter lids, and mechanical components, are warranted against malfunction due to defects in workmanship and material for two years from the original date of delivery. The spa cover delivered with the spa is warranted for one year for Escape, Platinum, Fitness, and Special Edition spas, 90 days for Zone, Connect, and New Age spas.

Genuine Cal Spas Parts & Accessories

This Limited Warranty is void if Cal Spas (the "Manufacturer") or its designated representative determines that the spa has been subjected to damage or failure due to installation of aftermarket parts that are not genuine Cal Spas branded parts and

accessories. This disclaimer includes, but is not limited to filters, UV bulbs, ozone systems, salt systems, repair parts and other accessories. Genuine Cal Spas brand parts and accessories are built to our highest standards of quality, durability and performance, and they are designed to work with your spa to ensure optimal performance and function.

Performance

This warranty begins on the date of delivery of the spa, but in no event later than one year from the date of manufacture.

To obtain service in the event of a defect covered by this Limited Warranty, notify your Cal Spa dealer or Cal Spas as soon as possible and use all reasonable means to protect the spa from further damage. Upon proof of purchase, a designated service representative will correct the defect subject to the terms and conditions contained in this Limited Warranty. There will be no charge for parts or labor to repair the defect, although providing access to affect the repair is your responsibility as the spa owner. Freight charges for replacement parts is the responsibility of the spa owner. You may be assessed reasonable repairman travel mileage charges.

In the event that the spa is removed to a repair facility for repair and reinstalled, the cost of removal and reinstallation will be your responsibility as the spa owner. If the Manufacturer determines that repair of the covered defect is not feasible, it reserves the right



Appendix

to provide a replacement spa instead, equal in value to the purchase price of the original spa. In such an event, reasonable costs for removal of the original spa, shipping costs from the factory for the replacement spa and delivery and installation of the replacement will be your responsibility as the spa owner. The replacement spa will carry the balance of the original spa's warranty. Spa covers are not included.

This warranty ends either by specified time frame, owner-transfer, relocation, or installation of any component other than by manufacturer.

Warranty Limitations

This Limited Warranty is void if Cal Spas or its designated representative determines that the spa has been subjected to alteration, neglect, misuse or abuse, or freight damage caused by the common carrier; any repairs have been attempted by anyone other than a designated representative; the failure is caused by accident, acts of God or other causes beyond the control of the Manufacturer; neglect, misuse and abuse include any installation, operation or maintenance of the spa other than in accordance with the instructions contained in the owner's manual provided with the spa, including but not limited to the failure to maintain proper water chemistry and chemical balance and the use of abrasive or improper cleaners or non-genuine parts and accessories. This Limited Warranty does not provide coverage for any item attached to or installed on the spa after the date of manufacture or for gaining access to any component for repair or replacement. Spa units in commercial use are excluded from any coverage whatsoever. The spa owner accepts liability for repair work performed by anyone other than the Manufacturer or a designated Cal Spa representative.

Limitations

The Manufacturer disclaims all warranties, expressed or implied, in fact or in law, to the extent allowed by your State's Law, including the warranty of merchantability and fitness for use, except as stated specifically herein. All warranty service must be performed by the Manufacturer or its designated representative using authorized Cal Spa parts. No agent, dealer, distributor, service company or other party is authorized to change, modify or extend the terms of this limited warranty in any manner whatsoever. The Manufacturer will not be responsible for any statements or representations made in any form that go beyond, are broader than, or are inconsistent with any authorized literature or specifications furnished by Cal Spas.

Disclaimers

The Manufacturer and its representatives shall not be liable for any injury, loss, cost or other damage, whether incidental or consequential, arising out of any defect covered by this limited warranty, including without limitation, loss of use of the spa and cost for removal of defective product even if the Manufacturer was advised of the possibility of damage. The liability of the Manufacturer under this limited warranty, if any, shall not exceed the original amount paid for the defective product. Coverage under this limited warranty shall commence as of the original date of delivery and the duration of such coverage shall not extend for any reason whatsoever beyond the stated time periods. These disclaimers shall be equally applicable to any service provided by the Manufacturer and its designated representatives.

Legal Rights

This Limited Warranty gives you specific legal rights. You may also have other rights that vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so this limitation may not apply to you.



Locating the product serial number

The serial number of your spa is located on a metal plate attached to the inside of the door for the equipment area. You will need this number to properly register your spa and activate coverage. Write this information in the space provided below.

Spa Model:	
Spa Serial Number:	
Date Purchased:	
Date Installed:	
Dealer's Phone Number:	
Dealer's Address:	

It is important that you register your Cal Spas product as soon as possible. By taking just a few quick minutes to register, you can enjoy product alerts, more efficient support, and quicker service. Go to <u>www.calspas.com/warranty.</u>



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