SWIM & SWIM PRO SPAS

2 0 2











Congratulations! You are now the owner of the finest spa built. Now you will experience true comfort and relaxation as you never had before. We at Cal Spas® focus on quality, design and comfort in order to create a truly luxurious experience like no other.

Welcome to the Cal Spas® family.

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 https://calspas.com/register-your-spa.php. Fill in your information and click "SEND WARRANTY INFO".

Locating the product serial number

The serial number of your spa is located on a metal plate attached to the right side of the spa panel. 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:
Lloyd's Material Supply Company, Inc.

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Cal Spas*, Adjustable Therapy System*, ATS**, Cal Premium*, Cal Select**, Cal Stone**, XL** Heater, and Ultimate Fitness Spa Series** are registered trademarks.

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

LTR.2024.1146 Rev C 8/14/2024 **CONTACT INFORMATION**

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

Lloyd's Material Supply Company, Inc. Customer Service Department 1462 East Ninth Street Pomona, CA 91766.

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

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IMPORTANT SAFETY INSTRUCTIONS



READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY

When using and installing this spa, basic safety precautions should always be followed, including.



Danger: RISK OF SEVERE INJURY OR DROWNING!

- NO DIVING, diving may result in injury or death.
- Do not allow children to be in or around the 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: SUCTION ENTRAPMENT HAZARD, RISK OF SEVERE INJURY OR DROWNING!

Suction in suction fittings when broken, damaged, cracked, or unsecured can cause severe injury and or death due to the following entrapment hazards.

- **Body Entrapment:** A negative pressure applied to a large portion of the body or limbs can result in entrapment.
- Hair Entrapment: Hair can be sucked in or caught within the suction fitting.
- Evisceration/Disembowelment Entrapment Risk: Negative pressure applied directly to the intestines through a damaged/unprotected suction outlet. This can result in Evisceration/Disembowelment.
- 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.
- The suction fitting is made with chemical resistant plastic, that will last over a finite period of time. This component will degrade and become brittle after constant exposure to sanitizers. When performing maintenance on the spa, inspect suction fittings for any cracks or damage.
- When the spa is in operation, suction is created within the suction fittings. Persons within the spa should not be leaning on, stepping on, or making contact with suction fittings.



Danger: RISK OF SEVERE INJURY FROM ELECTRIC SHOCK OR DEATH FROM ELECTROCUTION.

- 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 (1.5 meters) of metal surfaces if each metal surface is permanently bonded by a minimum of 8 gauge AWG solid copper conductor to the outside of the spas control box.
- DO NOT permit any external electrical appliances, such as lights, telephones, radios, television, etc, within 5 feet (1.5 meters) of the spa. Never attempt to operate any electrical device from inside the spa.
- Replace any damaged power cord immediately.
- Never bury any power cord, a proper conduit must be used.
- Connect to a proper grounding-type receptacle or to a proper grounding post in the GFCI and breaker.



Warning: RISK OF HYPERTHERMIA (OVER-HEATING) CAUSING SEVERE INJURY, BURNS, WELTS, OR DEATH

- Water temperature in excess of 104°F (40°C) may be detrimental for your health.
- The spa water should never exceed 104°F (40°C). Water temperatures between 100°F (38°C) and 104°F (40°C) are considered safe for a healthy adult.
- Lower water temperatures are recommended for young children, and when the spa use exceeds 10 minutes.
- Before using the spa, the user should measure the water temperature since the tolerance of water temperature regulating devices varies.
- Do not use the spa if drugs, alcohol, or prescription medications were consumed before or during use. In an altered state of mind, the human body can not react properly to changes in temperature. This increases your risk of hyperthermia, injury, drowning, or death.



Warning: REDUCE RISK OF HEAT RELATED INJURY OR DEATH

- Prolonged exposure to hot air or water can induce hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level between 3°F (2°C) to 6°F (4°C) above the normal body temperature of 98.6°F (37°C). While using warm spa water has many health benefits, its important to make sure that your body's core temperature does not rise above 103°F (39.5°C).
- High water temperatures have a high potential for causing fetal damage during pregnancy. Women
 who are pregnant, or 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 or impair judgment. Other medications or drugs may affect heat rate, blood
 pressure and circulation.



HYPERTHERMIA

- Symptoms of excessive hyperthermia include dizziness, lethargy, drowsiness and fainting. The effects if excessive hyperthermia may include:
 - Failure to perceive heat
 - Failure to recognize the need to exit the spa
 - Unawareness to impending hazards
 - Fetal damage to pregnant woman
 - Physical inability to exit spa
 - Unconsciousness



Swim Spa Temperatures

When using a swim spa for exercise or for leisurely swimming, never set the swim spa water temperature above 80°F. Temperatures above 80°F can hinder the bodies ability to cool down and cause unnecessary cardiovascular stress.



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



WARNING: To avoid injury, exercise caution when entering or exiting the spa/swim spa.



WARNING: Do not use the spa or swim spa 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 the manufacture's instructions.



WARNING: NO DIVING, diving may result in injury or death.

READ AND SAVE THESE INSTRUCTIONS

Preparing for Your New Portable Spa

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 the spa.

Before Delivery

- ☐ Plan your delivery route
- ☐ Choose a suitable location for the spa
- ☐ Lay a 4-6 inch concrete slab
- ☐ Install dedicated electric supply

After Delivery

- ☐ Place spa on Slab
- ☐ Connect electrical components

Planning the Best Location

Safety First

Do not place your spa within 10 feet (3m) 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 hard 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.

Service Area Clearances

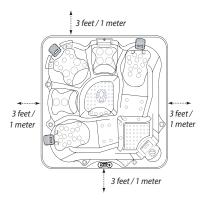
While you are planning where to locate your spa, you need to determine how much access you will need for service.

All spa models require a minimum of three feet / one meter access to all sides of the spa for potential service. For this reason, the spa should never be placed in a manner where any side is permanently blocked. Examples include placing the spa against a building, structural posts or columns, or a fence.

Spa models require access to all sides in case they need service or repair. See the figure to the right.

If you are planning to enclose or surround your spa with a deck, make sure there is easy access for service or repair.

NOTE: Spas require clearance on all sides of the spa.



Foundation Requirements

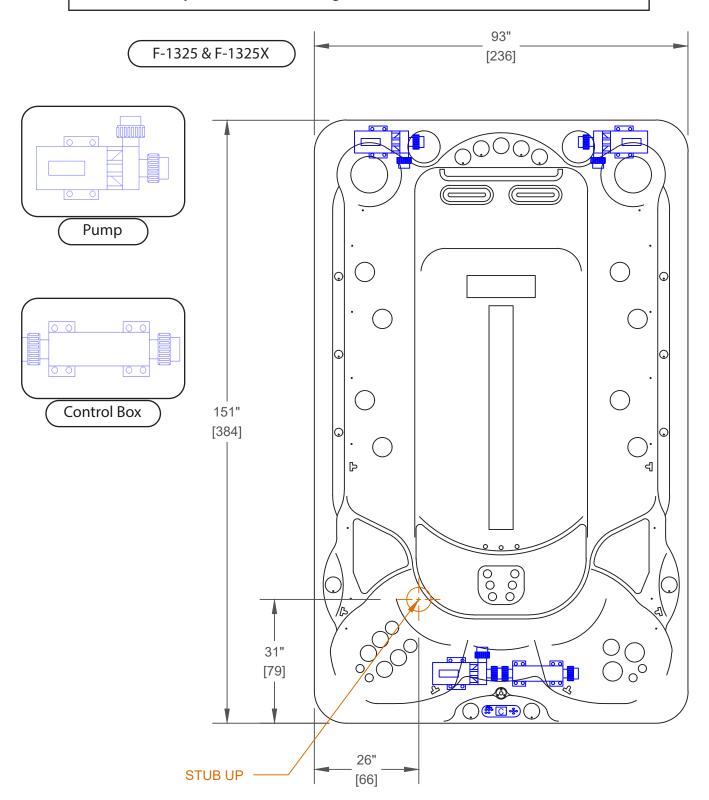
NOTE: We strongly recommend that a qualified, licensed contractor prepare the foundation for your spa. Damage caused by inadequate or improper foundation support is not covered by the warranty. It is the responsibility of the spa owner to provide a proper foundation for the spa.

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 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. 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. 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 lbs per square foot (732 Kg/m²).

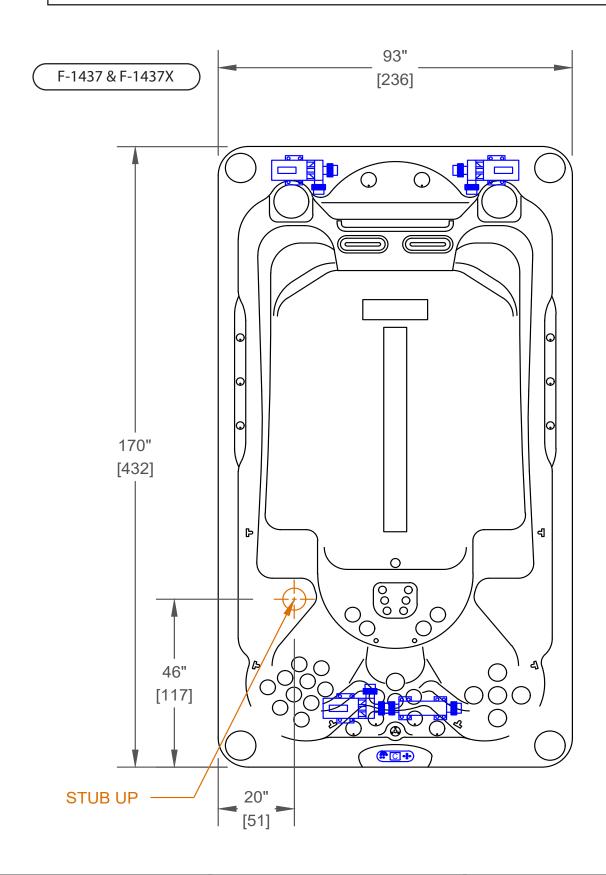


Pump and Control Box Placement Diagrams

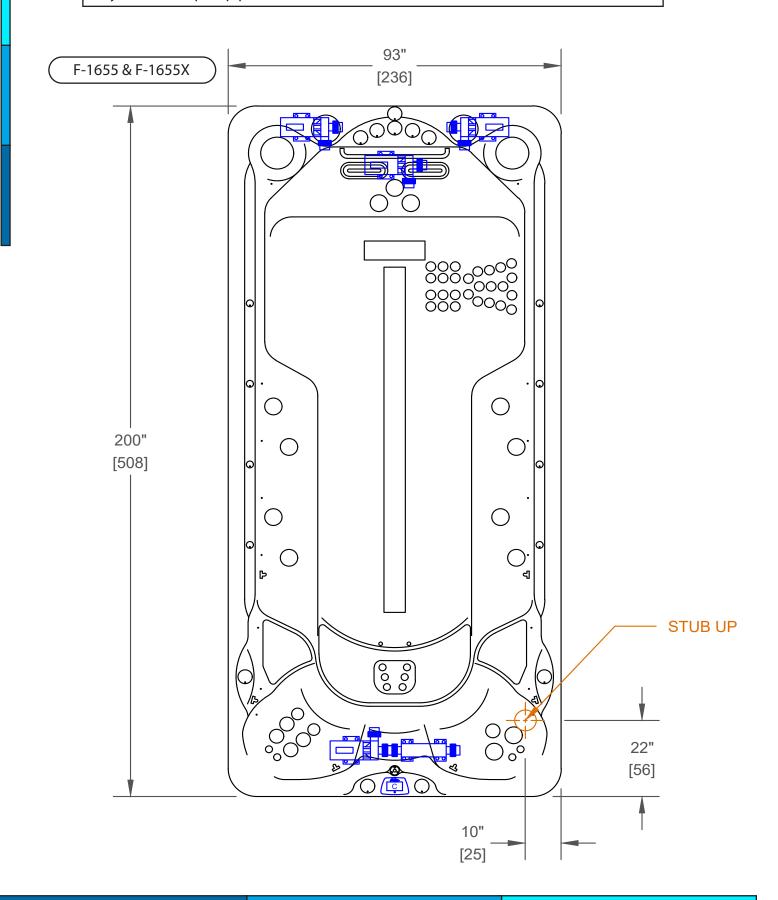
Note: All Spas including swim spas require a minimum of 3 feet clearance on all sides for accessibility for technicians to perform repairs or maintenance. Service providers may charge a fee for poor access which would require movement of the spa by crane or removal of objects/decks obstructing access.



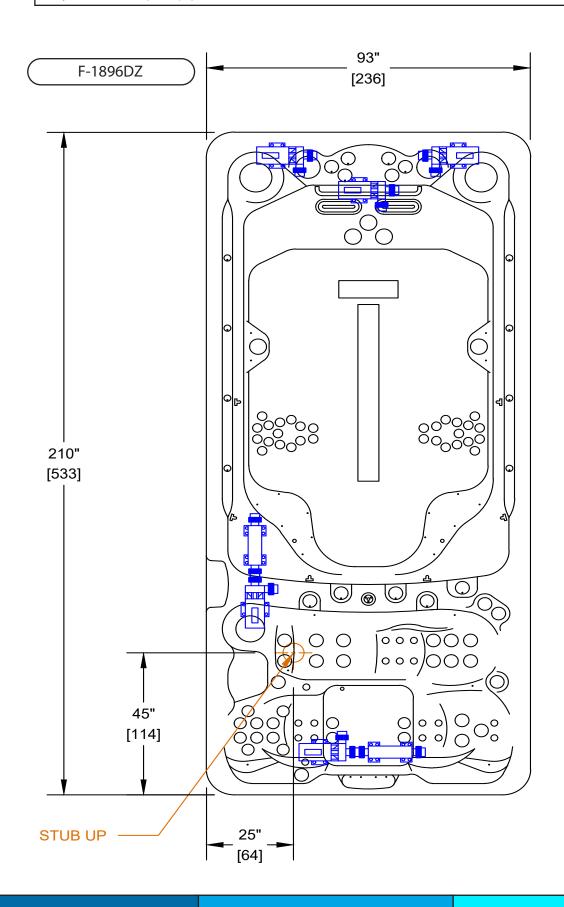
Note: These diagrams are intended to provide a general understanding of where pumps and control box(es) are usually placed. When certain options are selected this may affect final pump placement.



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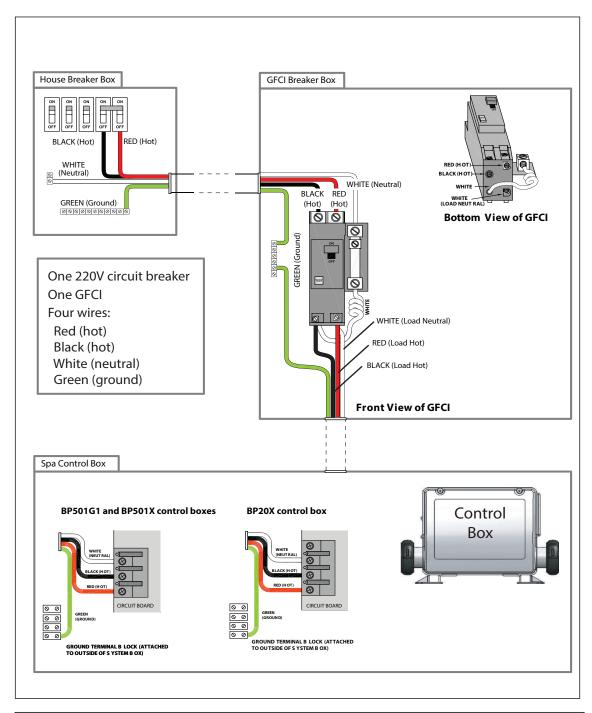
240 Volt Electrical Specifications

NOTE: 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. 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 a fire or personal injury and will be the sole responsibility of the spa owner.

All 240V spas must be permanently connected (hard wired) to the power supply. When installed in the United States, the electrical wiring of this spa must meet the requirements of the NEC 70 and any applicable local, state, and federal codes. 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 to determine your GFCI and wiring requirements. Wires that run over 100 feet must increase wire gauge to the next lower number. For example: A normal 50 amp GFCI with four #6 AWG copper wires that run over 100 feet would require you to go to four #4 AWG copper wires.

Wiring Specifications and GFCI Requirement

Spa Model	Control System	GFCI Breaker	Wires Required
F-1325 / F-1325X	BP501X	One 50 Amp GFCI Breaker	Four #6 AWG Cop- per Wires
F-1655 / F-1655X	BP20X	One 60 Amp GFCI Breaker	Four #6 AWG Cop- per Wires
F-1437 / F-1437X	BP501X	One 50 Amp GFCI Breaker	Four #6 AWG Cop- per Wires
F-1868DZ	BP20X	Service # 1 Swim Side One 60 Amp GFCI Breaker	Four #6 AWG Cop- per Wires
F-1868DZ	BP501G1	Service # 2 Spa Side 110V 15 Amp Plug & Play	Cord with15 Amp GFCI Provided



The dual zone Olympian swim spa uses both a 240v GFCI connection as illustrated above and an independent 15 Amp 120v outlet.

The Spa side of the Olympian uses 120v equipment and internal 15amp GFCI in the power cable.

Refer to your local regulations and your certified electrician/contractor for proper installation, following NEC guidelines.

Filling and Powering Up your Portable Spa

Step 1. Inspect the Spa Equipment.

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

- Make sure unions connected to the equipment pack are tight (do not over-tighten)
- If your spa has gate valves, make sure they are in the upright position.
- Make sure the drain valve is closed and capped.





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

Step 2. Remove the Filter Cartridge.

If you have a skimmer like this:



Teleweir filter skimmer

- 50 square feet filtration
- Spoked cap

Rotate and remove the locking ring (Color may vary). Remove the skimmer cap and barrel, grip the filter by the handle and unscrew it from the canister. Replace and lock the locking ring and slid the skimmer cap and barrel back into the canister. Once the spa is filled you can remove the skimmer cap and barrel again to reinstall the filter.



The skimmer and barrel are locked in place during shipping with a retainer ring. The retainer ring must be unlocked and removed in order to slide the skimmer upward to remove the filter cartridge.



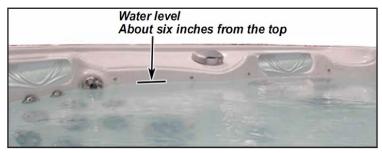
When removing the filter cartridge, you may remove the filter by turning it counter clockwise. The filter must me removed gently to not damage the threaded fitting inside of the filter canister.



After removing the filter, reinstall the retainer ring to the canister, then reinstall the skimmer, this skimmer must be able to move up and down with your water level. In the following step you will fill your spa with water through the filter canister.

Step 3. Fill the Spa

Place the water hose inside the filter canister. 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 correctly.



NOTE: Never fill with soft water.

Soft water made through some home filtration systems make it impossible to maintain proper water chemistry, and may cause water foaming. This can damage the finish of the spa and void your warranty.

You may fill your spa with well water, but only if the following preconditions are followed.

- 1. Purchase and use a pre-filter that can attach to the end of a hose. This pre-filter is absolutely necessary in order to remove reactive metals and other dissolved solids that are found in well water.
- 2. Perform a Total Dissolved Solids (TDS) and metals test, this can be performed by a qualified person after filling up the spa, before initial use. Most Dealers and pool supply stores can perform this test.

Step 4. Power Your 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 their dedicated proper electrical outlet.)



Step 5. Prime the Main Pump

The system will enter priming mode when powered up for the first time. **Priming Mode** will scroll through the display on the control panel. In this mode all devices including pumps and lights are operable, you may press the jet buttons on and off to help prime the pumps. After a few minutes the system will exit priming mode.

Step 6. Install filter into the filter canister



Note: Make sure you have removed and soaked the spa filter cartridge in a bucket of water for at least 30 minutes. This will remove air pockets inside of the filter.

When re installing the filter cartridge, do not over tighten the filter, the threaded bit inside of the filter housing is made of a corrosion resistant ABS plastic. Excessive torque will break the internal threads within the filter housing.

Step 7. Test and Adjust Water Chemistry

Test and adjust the water chemistry.

Step 8. Let the Spa Heat Up

After a period of 5-15 minutes the priming mode will finish. The heater will then activate, put the spa cover on and let the spa heat to the desired set temperature.

During the initial power up the spa, it will consume a large amount of energy to raise the water in the tub to your desired hot tub temperature. Cal Spas are designed for high efficiency, once the temperature within the spa is reached, the spa will use lower amounts of energy to maintain the temperature.

Note: Cal Spas are designed to retain heat, if it is desired to lower the water temperature the spa does not contain a cooling feature. To lower internal temperature of the spa, lower the set temperature on the control panel and open the tub during the evening or night to help release the heat captured within. You may also drain 1/4 of the water within and refill with new water to lower temperatures rapidly.

Priming the Pump

New owners often have difficulty the first time they start their spa and the pumps fail to prime. This can be frustrating but these instructions should help you resolve any issues with air pockets inside of the primary pump or other priming issues.

Sometimes air can become trapped in the primary pump while filling up the spa, although this should be preventable by filling your spa through the filter basket, there is a chance that an air pocket can still form even when following the proper steps. Initially it may seem that the pump is not working, with some sound coming from the pump but no water movement.

Note: When a pump has an airlock, continuing to operate the pump experiencing an air pocket issue can damage the pump. Do not operate the pump until this airlock issue is fixed.

Start Up: Priming Mode

When the spa is powered up for the first time, the spa will enter priming mode. During this mode all devices within the spa is operational. You may wait for 10-15 minutes for the heater to engage, this period of time resets when a secondary pump is activated or if the primary pump is activated for high speed.

The spa will automatically exit priming mode.

Bleeding Air from the Pump

IF you have tried priming the pump by pressing the jet or jet 1 button on and off again with no results, you will need to bleed the pump manually.

- 1. Shut off power to the spa.
- 2. Using a philips head screwdriver, remove the front panel from the spa directly underneath the control panel, and locate the main pump.
- 3. Ensure that the gate valves are open
- 4. Place rags or towels under the plastic wet end of the pump where the spa plumbing connects into the pump
- 5. On the plastic wet end there will be a plastic hex headed bleeder valve that can be opened to bleed air trapped inside of the pump
- 6. Do not fully remove the nut, there are grooves within the nut that allows air to escape. Water will begin to trickle once the air pocket has been removed, tighten down the screw again with light torque.
- 7. If bleeding the pump is unsuccessful, loosen the pump unions with plumbing channel locks to remove any trapped air between the pump and the heater.
- 8. Turn the spa power back on and press the Jet button to prime the pump again.

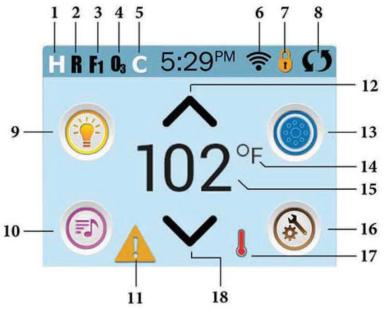


SpaTouch Control Panel





SpaTouch Icons and Navigation



Note: After 30 minutes* the display will automatically go into sleep mode, which turns the display off. This is normal operation. Touch anywhere on the screen to wake the panel up.

Navigation

Navigating the entire menu structure is done by touching the screen.

The three screen selections indicated below can be selected. Touch one of these to enter a different screen with additional controls.

Most menu screens time out and revert to the main screen after 30 seconds of no activity.

ICON Specifications

- 1. H = High Temperature Range
- 2. R = Ready Mode
- 3. F1 = Filter Cycle 1 Running
- 4. 03 = Ozone Running
- 5. C = Cleanup Cycle
- 6. Wi-Fi Signal Indicator
- 7. Lock Indicator Icon
- 8. Invert Screen
- 9. Light Icon = Turns On/Off
- 10. Music Icon = Press To Enter Music Screen
- 11. Message Waiting Indicator
- 12. Set Temperature Up
- 13. Spa Equipment Control Icon
- 14. Temperature Scale (F/C)
- 15. Current Water Temperature
- 16. Settings Icon
- 17. Heat Indicator
- 18. Set Temperature Down

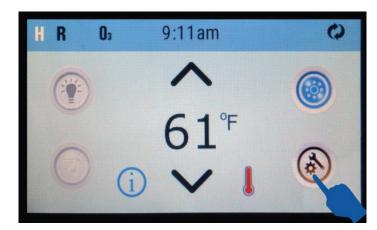


Changing Languages

Step 1. Touch the Settings Icon at the lower right portion of the screen.

Appuyez sur l'icône Paramètres dans la partie inférieure droite de l'écran.

Toque el ícono de Configuración en la parte inferior derecha de la pantalla.



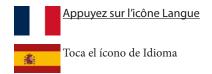
Touch the right arrow icon at the lower right portion of the screen. Pressing this allows you to navigate to the next screen

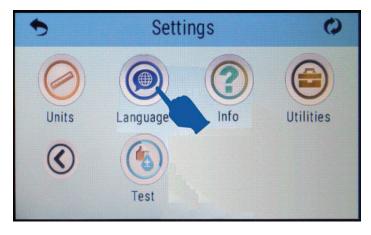
Appuyez sur l'icône de flèche droite dans la partie inférieure droite de l'écran. En appuyant dessus, vous pouvez accéder à l'écran suivant

Toque el icono de flecha derecha en la parte inferior derecha de la pantalla. Al presionar esto, podrá navegar a la siguiente pantalla.



Step 3. <u>Touch the Language icon</u>





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Once you select the language icon, the screen will open up a list of languages you can select, use the up and down arrows to navigate down the list of available languages.



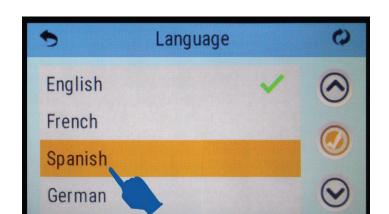
Una vez que seleccione el ícono de idioma, la pantalla abrirá una lista de idiomas que puede seleccionar, use las flechas hacia arriba y hacia abajo para navegar hacia abajo en la lista de idiomas disponibles

Step 4.

Select your language of choice, we will select Spanish as an example.

Sélectionnez la langue de votre choix, nous sélectionnerons l'espagnol comme exemple.

Seleccione su idioma de preferencia, seleccionaremos español como ejemplo.



Step 5. The screen will refresh and your selected language of choice should now be the default setting.

L'écran s'actualisera et la langue sélectionnée devrait maintenant être le paramètre par défaut.

La pantalla se actualizará y el idioma seleccionado ahora debería ser la configuración predeterminada.



Set Temperature

Press Up or Down once to display the Set Temperature (indicated by a flashing of or oc, plus a change in color of the temperature). Press Up or Down again to modify the Set Temperature. The Set Temperature changes immediately.

If you need to switch between High Temperature Range and Low Temperature Range you need to go to the Settings Screen.

Press-and-Hold

If Up or Down is pressed and held, the temperature will continue to change until you stop pressing,

or until the Temperature Range limits are reached.



All Equipment Access

The Spa Screen shows all available equipment* to control. 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 icon buttons are used to select and control individual devices.

Some devices, like pumps, may have more than one ON state, so the icon will change to reflect the state of the equipment. 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.

Values Increment/Decrement

If an Up or Down button is shown and pressed when on an editing page, and a value has been selected (highlighted), the value can be incremented by pressing the up arrow or decremented by pressing the down arrow.



Invert

Will appear on upper right on all screens.

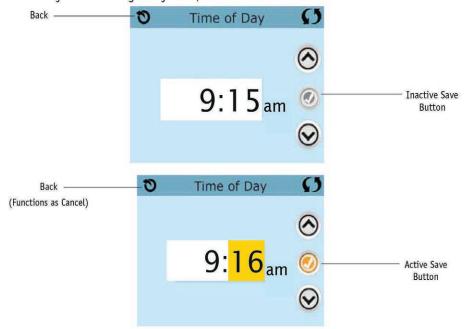


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Exiting Screens

The Back button is on every screen except the Main Screen, the Priming Mode Screen are a Message Display Screen.

When you see <u>only</u> this button, or this button plus an <u>Inactive</u> Save Button, it means Back or Exit. It appears on editing screens before you have changed any value, as well as on all other screens.



When you see both the Back button and an Active Save button, the Save button will Save, while the Back button will Cancel. If the screen times out due to no activity it will act like Cancel.

Page Right/Left

If there is a right arrow at the bottom of the screen, it takes you to the next page.

If there is a left arrow at the bottom of the screen, it takes you to the previous page.





Page Up/Down

If an Up or Down button is shown and pressed when on a page with a text list, the list can be scrolled a page at a time.



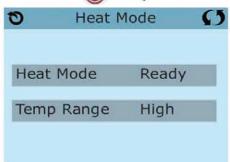
Programming, Etc.

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

Each icon on the Settings screen takes you to a different screen, where one or more setting may be viewed and/or edited.



The Heat Icon (a) takes you to a screen where you control the Heat Mode and the Temperature Range.



Dual Temperature Ranges (High vs. Low)

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 left 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.

More specific Temp Ranges may be determined by the Manufacturer.

Low Range can be set between 50°F and 99°F.

Freeze Protection is active in either range.

Be sure to set the Time-of-Day

Setting the time-of-day is important for determining filtration times and other background features.

The Heat Icon () on the Settings Screen takes you to a screen where you control the Time-of-Day.

On the Time-of-Day screen, simply select the Hours and Minutes. Use the Up and Down Buttons to make changes, then Save.



If no time-of-day is set in the memory an Information Screen will appear. If you exit it and Information Icon will appear at the bottom of the Main Screen, until the time-of-day has been set.





Note:

This only applies to some systems:

If power is interrupted to the system,

Time-of-Day will be maintained for several days.

Main Filtration

Using the same adjustment as Setting the Time, 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.

The Filter Icon 🕕 on the Settings Screen takes you to a screen where you control the Filter Cycles.



Filter Cycle 2 - Optional Filtration

Filter Cycle 2 is OFF by default.

Viewing Filter 1 while Filter 2 is OFF:

Viewing Filter 1 while Filter 2 is ON:



Press "1" to view Filter 1. Press "2" once to view Filter 2. Press "2" again to turn Filter 2 ON or OFF.

When Filter Cycle 2 is ON, it can be adjusted in the same manner as Filter Cycle 1.

It is possible to overlap Filter Cycle 1 and Filter Cycle 2, which will shorten overall filtration by the overlap amount.

Light Cycle Option

If Light Cycle does not appear on the Settings Screen, the Light Timer feature is not enabled by the manufacturer. The Light Cycle Icon on the Settings Screen takes you to a screen where you control the Light Cycle. When available, the Light Timer is ("Disabled") by default. Press "Disabled" to change it to "Enabled" (ON).

The settings can be edited the same way that Filter Cycles are edited.



Restricting Operation



Panel Locked and Settings Unlocked



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

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

Locking the Settings allows Jets and other features to be used, but the Set Temperature and other programmed settings cannot be adjusted.

Settings Lock allows access to a reduced selection of menu items. These include Filter Cycles, Invert, Information and Fault Log. They can be seen, but not changed or edited.

Locking and Unlocking



The same steps are used to Lock and Unlock.

To lock either Settings or Panel first select Settings (if it says "Unlocked") or Panel (if it says "Unlocked"), than press the word "Lock" for at least 5 seconds.

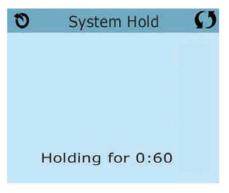
To unlock either Settings or Panel first select Settings (if it says "Locked") or Panel (if it says "Locked"), than press the word "Lock" for at least 5 seconds.

Hold - M037

Hold Mode is used to disable the pumps during service functions like cleaning or replacing the filter. Hold Mode will last for 1 hour unless the mode is exited manually. If spa service will require more than an hour, it may be best to simply shut down power to the spa.

The Hold Icon (n) on the Settings Screen places the spa in Hold Mode and displays the System Hold screen.

Touch Back to exit Hold Mode.



Utilities

The Utilities Icon on the Settings Screen takes you to the Utilities Screen.

The Utilities Screen contains the following:



Panel

Touching the Panel Icon on the Utilities Screen takes you to the Panel Screen, where you can set how long it takes the panel to go to sleep after the last activity. The Sleep Timer can be set from 1 minute to 60 minutes. The default is 30 minutes.

Demo Mode

Demo Mode is not always enabled, so it may not appear.

This is designed to operate several devices in a sequence in order to demonstrate the various features of a particular hot tub.



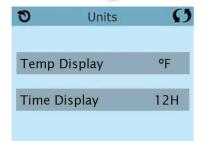
The Fault Log is a record of the last 24 faults that can be reviewed by a service tech.

Use the Up and Down buttons to view each of the Faults.

When Priming Mode shows in the Fault Log, it is not a fault. Rather, it is used to keep track of spa restarts.

Units Screen

The Units Icon on the Settings Screen takes you to the Units Screen.

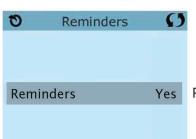


Press "Temp Display" to change the temperature between Fahrenheit and Celsius.

Press "Time Display" to change the clock between 12 hr and 24 hr display.

Reminders

The Reminder Icon (a) on the Settings Screen takes you to the Reminders screen.



Press "Reminders" to turn the reminder messages (like "Clean Filter") ON (Yes) or OFF (No).



Cleanup Cycle

Cleanup Cycle Duration is not always enabled, so it may not appear. When it is available, set the length of time Pump 1 will run after each use. 0-4 hours are available. Settings it to 0.0 Hr keeps the Cleanup Cycles from running.

The Cleanup Icon

on the Settings Screen takes you to the Cleanup Cycle screen.



Language

The Language Icon on the Settings Screen takes you to the Language screen.

Change the language displayed on the panel.





Most messages and alerts will appear at the bottom of the normally used screens. Several alerts and messages may be displayed in a sequence.

Water Temperature is Unknown

After the pump has been running for 1 minute, the temperature will be displayed.



Possible freezing condition

A potential freeze condition has been detected, or the Aux Freeze Switch has closed. 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 – M029

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.

Heat Mode - 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."

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.

When the heater pump has come on automatically (for example for heating) you can switch between low speed and high speed but you cannot turn the heater pump off.

Circulation Mode (See Page 13, under Pumps, for other circulation modes)

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 24HR circulation mode.

Ready-in-Rest Mode

Ready in Rest Mode appears in the display if the spa is in Rest Mode and the Jets 1 Button is pressed. When the heater pump has come on automatically (for example for heating) you can switch between low speed and high speed but you cannot turn the heater pump off. After 1 hour, the System will revert to Rest Mode. This mode can also be reset by selecting the Heat Mode line on the Screen shown here.

Priming Mode - M019

After the initial start-up sequence, the control will enter Priming Mode and display a Priming Mode screen. Only pump icons appear on the priming mode screen. During the priming mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-flow or no-flow conditions. Nothing comes on automatically, but the pump(s) can be energized by selecting the "Jet" buttons. If the spa has a Circ Pump, it can be turned on and off by pressing the "Circ" button during Priming Mode.

Exiting Priming Mode

The system will automatically enter the normal heating and filtering at the end of the priming mode, which lasts 4-5 minutes.

Filtration and Ozone

On non-circ systems, Pump 1 low and the ozone generator will run during filtration. On circ systems, the ozone will generally run with the circ pump, but can be limited to filtration cycles. (On some circs systems, Pump 1 low will run along with the circ Pump during filtration.)

The system is factory-programmed with one filter cycle that will run in the evening (assuming the time-of-day is properly set) when energy rates are often lower. The filter time and duration are programmable.

A second filter cycle can be enabled as needed.

At the start of each filter cycle, the water devices like blower, mister device (if these exist) and other pumps will run briefly to purge the plumbing to maintain good water quality.

Freeze Protection

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

In colder climates, an optional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts similarly except with the temperature thresholds determined by the switch. See your dealer for details.

Clean-up Cycle (optional)

When a pump or blower is turned on by a button press, a clean-up cycle begins 30 minutes after the pump or blower is turned off or times out. The pump and the ozone generator will run for 30 minutes or more, depending on the system. On some systems, you can change this setting.

Heater-Related Messages

The water flow is low - M016

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.

The water flow has failed* - M017

There is not enough water flow 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, reset the message*.

The heater may be dry* - M028

Possible dry heater, or not enough water in the heater to start it. The spa is shut down for 15 min. Reset this message* to reset the heater start-up. See "Flow Related Checks" below.

The heater is dry* - M027

There is not enough water in the heater to start it. The spa is shut down. After the problem has been resolved, you must reset the message* to restart heater start up. See "Flow Related Checks" below.

The heater is too hot* - M030

One of the water temp sensors has detected 118°f (47.8°C) in the heater and the spa is shut down. You must reset the message* when water is below 108°f (42.2°C). See "Flow Related Checks" below.



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.

* Some messages can be reset from the panel. Messages that can be reset will appear with a Clear Icon at the bottom of the Message Screen. Press the Clear Icon text to reset the message.



Sensor-Related Messages

Sensors are out of sync - M015**

The temperature sensors MAY be out of sync by 3°F. Call for Service if this message does not disappear within a few minutes.

Sensors are out of sync -- Call for service* - M026**

The temperature sensors ARE out of sync. The fault above has been established for at least 1 hour. Call for Service.



Sensor A Fault, Sensor B Fault - Sensor A: M031**, Sensor B: M032**

A temperature sensor or sensor circuit has failed. Call for Service.

Miscellaneous Messages

Communications error

The control panel is not receiving communication from the System. Call for Service.

Test software installed

The Control System is operating with test software. Call for Service.

* Some messages can be reset from the panel. Messages that can be reset will appear with a Clear Icon at the bottom of the Message Screen. Press the Clear Icon text to reset the message.



^{**}MOXX is a Message Code. Codes like this will be seen in the Fault Log

System-Related Messages

Program memory failure* - M022**

At Power-Up, the system has failed the Program Checksum Test. This indicates a problem with the firmware (operation program) and requires a service call.

The settings have been reset (Persistent Memory Error)* - M021**

Contact your dealer or service organization if this message appears on more than one power-up.

The clock has failed* - M020**

Contact your dealer or service organization.

Configuration error (Spa will not Start Up)

Contact your dealer or service organization.

The GFCI test failed (System Could Not Test the GFCI) - M036**

(North America Only) May indicate an unsafe installation. Contact your dealer or service organization.

A pump may be stuck on - M034**

Water may be overheated. POWER DOWN THE SPA. DO NOT ENTER THE WATER. Contact your dealer or service organization.

Hot fault - M035**

A Pump Appears to have been Stuck ON when spa was last powered POWER DOWN THE SPA. DO NOT ENTER THE WATER. Contact your dealer or service organization.

* Some messages can be reset from the panel. Messages that can be reset will appear with a Clear Icon at the bottom of the Message Screen. Press the Clear Icon text to reset the message.



^{**}MOXX is a Message Code. Codes like this will be seen in the Fault Log

The TP 700 control panel offered only on spas operating two or more pumps.

Continue to the following pages to learn how to navigate, operate, and program your spas operation. Both control panels use the same software and use the same operation procedures.

TP 700, Two Pump Controller



TP 700, Three Pump Controller



MAIN SCREEN ICONS

A - Temperature Range

High: H

Low: L

B - Heat Mode

Ready: R

Rest: ≝

Ready-in-Rest: RR

C - Ozone Running: O₃

D - Time-of-Day

E - Filter Cycles

Filter Cycle 1: F₁

Filter Cycle 2: F₂ (Optional Feature)

Filter Cycles 1 & 2: F+

F - Cleanup Cycle (Optional Feature)

G - Panel Locked and/or Settings Locked

H - WiFi (Local or Cloud Connection)

I - Navigation Arrow

J - Heat Status

K - Selection Box

L - Message (May Appear)

(i)

Information



Reminder



Error - Normal Error or Warning



Error - S pa will not function until fixed

M - Water Temperature

Fahrenheit temperatures are displayed without decimal points. For example, 100 ° F is displayed as 100.

Celsius temperatures are displayed with decimal points. For example, 37.5 ° C is displayed as 37.5.

N - Water Temperature Bar

O - Set Temperature Arrow

Important information about the current state of your spa is displayed on the

Main screen.



USER INTERFACE



Spa Device Buttons

These buttons control various spa devices, such as Jets, Lights and/or Blowers.

Navigation Buttons

Navigate the entire menu structure with the 5 navigation buttons on the control panel.

The names shown to the right refer to the navigation buttons in this user guide. The names will be written in uppercase letters.

Operating or changing a selected item on the panel screen is generally done with the SELECT button (center button).

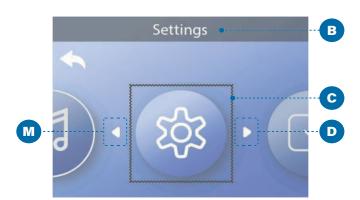
LEFT SELECT RIGHT DOWN

Selection Box

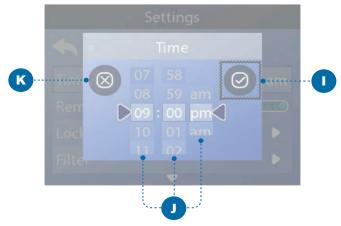
The Selection box is a fundamental navigation tool. It indicates a selected item. Move the selection box by pressing the UP, DOWN, LEFT, RIGHT Navigation buttons. When an item is selected, press the SELECT navigation button to act upon the selected item. The next page shows various examples of selected items (C, I, L).

H R O₃ 12:00 am F₁ C a s

Main Screen







Menu Navigation

The right Navigation arrow (A) on the Main screen indicates a menu. Press the RIGHT navigation button to enter that menu.

A selection box (C) indicates that a menu item is selected. When a menu item is selected, its name appears at the top of the screen (B). In this example the Settings menu is selected. Press the SELECT navigation button to enter the Settings window (E).

Navigation Arrows

Navigation arrows (D, F, H, M) indicate more menu items. Each navigation arrow corresponds to a navigation button (view page 8). For example, the right Navigation arrow (D) corresponds to the RIGHT navigation button. The left Navigation arrow (M) corresponds to the LEFT navigation button, etc.

Back Button

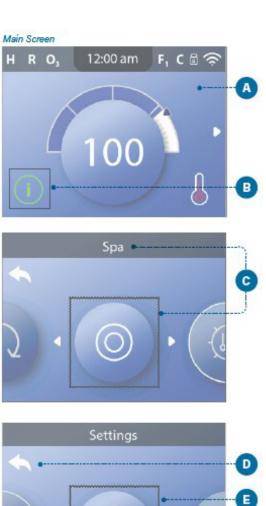
Use the Back button (L) to navigate back in the menus. Use the navigation buttons to select the Back button. The Selection box (L) indicates that the Back button is selected. Press the SELECT navigation button.

On/Off Switches

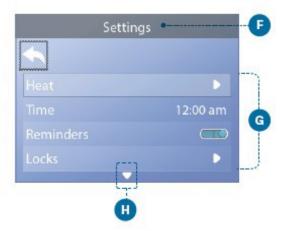
In this example the Reminders setting has an On/ Off switch (G). When the Reminders setting line is selected, press the SELECT navigation button to turn the switch On/Off. In this example the switch is On (G).

Select, Save, Cancel

Select one of these columns (J) with the RIGHT and LEFT navigation buttons. Change the selected setting with the UP and DOWN navigation buttons. After you change the settings, choose the Save button (I) and press the SELECT navigation button. After you press SELECT, the change is complete. If you decide to cancel your new settings, select the Cancel button (K) and press the SELECT navigation button.







Navigate the Main menu

- 1 Start from the Main screen (A), and press the RIGHT navigation button to enter the Main menu. If the Selection box (B) is on the Message icon, you need to press the RIGHT navigation button twice to enter the Main menu.
- 2 Spa is the first item in the Main menu (C). Continue pressing the RIGHT navigation button to view all items in the Main menu.
- 3 If you want to navigate back to the Main screen, press the UP navigation button to select the Back button (D). Once the back button is selected, press the SELECT navigation button and the Main screen (A) will appear.

Navigate the Settings menu

- 1 Start from the Main screen (A), and press the RIGHT navigation button to enter the Main menu.
- 2 Spa is the first item in the Main menu (C). Continue pressing the RIGHT navigation button until the Settings menu is selected (E).
- 3 Press the SELECT navigation button to enter the Settings menu (F).
- 4 The Navigation arrow (H) indicates more settings. Press the DOWN navigation button to scroll down the list.

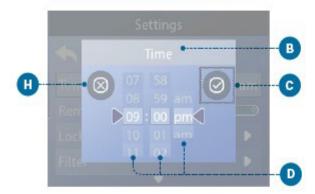
Press-and-Hold

If you need to navigate a long list, press-and-hold the navigation button. For example, press-and-hold the DOWN navigation button to scroll down the Settings menu list (G). The Navigation arrow (H) indicates more menu items.

View Message Screen

- Start from the Main screen (A), and press the LEFT navigation button to select the Message Icon (B).
- 2 Pressing the SELECT navigation button to view the Message screen.
- 3 The Message screen may have an Exit button or a Clear button. Select the button on the screen and press the SELECT navigation button.

Settings 12:00 am







SET TIME-OF-DAY

Be sure to set the Time-of-Day

Setting the Time-of-Day can be important for determining water filtration times and other background features.

Follow these steps to set the time-of-day:

- 1 Navigate to Time (A).*
- 2 Press the SELECT navigation button, and the Time screen will appear (B).
- 3 Use the navigation buttons to adjust your settings (D).
- 4 Select the Save button (C), and press the SELECT navigation button.

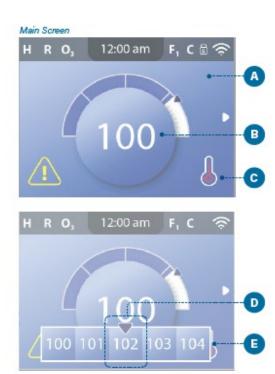
You have set the time-of-day.



If you do not want to save your settings, select the Cancel button (H), and press the SELECT navigation button.

If Time-of-Day has not been set, this Information icon appears (G). Select the Information icon and press the SELECT navigation button to view the corresponding message in the Information screen (F). Select the Exit button (E) and press the SELECT navigation button to exit the Information screen.

You can choose a 12-hour or 24-hour time display







Note: the Heater Status icon flashes during heater start-up; this is normal.

CHANGE THE SET TEMPERATURE

Follow these steps to change the Set Temperature:

- Start at the Main screen (A). Press the SELECT navigation button to view the temperature menu (E).
- 2 Press the RIGHT and/or LEFT navigation buttons to change the Set Temperature.

The center box (D) indicates the current Set Temperature. In this example the current Set Temperature is 102.

3 - Once your desired Set Temperature is in the center box (D), press the SELECT navigation button, or just wait a few seconds.

The change is complete.

How do I view the Water Temperature?

The Water Temperature is displayed here (B) on the Main screen.

How do I view the Set Temperature?

Start at the Main screen (A), and press the SELECT navigation button. The Set Temperature is displayed in the center box of the temperature menu (D).

How do I know when the water heater is On?

The center of the Heater Status icon turns red (C) when the heater is On, and it turns white when the heater is Off.

What do the dashes indicate (F)?

When the spa is powered On, four dashes appear (F) in the Water Temperature display for one minute. The dashes indicate that the spa is checking the water temperature. After the pump runs for 1 minute, the dashes disappear and the water temperature is displayed (B). The dashes may reappear after the pump has not run for one hour.







HRO3 12:00 am F, C A S

HEAT MODES

Follow these steps to view the current Heat Mode and/or change the Heat Mode:

- 1 Navigate to Heat (A).*
- 2 Press the SELECT navigation button to view the Heat screen (B). The current Heat Mode will appear here (C). In this example the current Heat Mode is Rest. There are two Heat Modes to choose from: Ready, Rest.
- 3 Press the SELECT navigation button to change the Heat Mode to Ready (D).

You have set the Heat Mode to Ready.

The change takes effect immediately. No need to press a Save button

Ready-In-Rest Mode is a third Heat Mode. But, it is a sub-feature of Rest Mode and is not selectable from the panel menu.

The only place you can see whether you're in Ready-in-Rest Mode is on the Main screen, where it shows all three Heat Modes in icon form.

If you are in Ready-in-Rest Mode, and you want to cancel it (ie, you want to return to Rest Mode), just go view the current Heat Mode (where it will say Rest Mode) and exit. That simple action takes you back to Rest Mode

Where can I view the current Heat Mode on the Main screen?

The current Heat Mode is displayed here with an icon (E). In this example the current Heat Mode is Ready. The following list shows which icons may appear on the Main screen.

Heat Mode Icons

Ready: R

Rest: #

Ready-in-Rest: RR

Fleat Time 12:00 am Reminders Locks







TEMPERATURE RANGES

Follow these steps to view the current Temperature Range and/or change the Temperature Range:

- 1 Navigate to Heat (A).*
- 2 Press the SELECT navigation button to view the Heat screen (B). The current Temperature Range will appear here (C). In this example the current Temperature Range is Low. There are two Temperature Ranges to choose from: High, Low.
- 3 Press the SELECT navigation button to change the Temperature Range from Low to High (D).

You have set the Temperature Range to High.
The change takes effect immediately. No need to press a Save button.

Can I see the current Temperature Range on the Main screen?

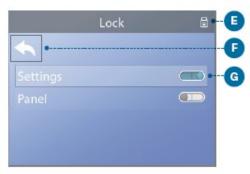
Yes. The current Temperature Range is displayed here with an icon (E). In this example the current Temperature Range is High. The following list shows which icons may appear on the Main screen.

Temperature Range Icons

High: H Low: L

Settings Locks Filter Hold Cleanup 0.0 hr







RESTRICT OPERATIONS

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

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

Locking the Settings (C) allows Jets and other features to be used, but the Set Temperature and other programmed settings cannot be adjusted. Settings Lock allows access to a reduced selection of menu items. These include Filter Cycles, Invert, Information and Fault Log. They can be seen, but not changed or edited.

Follow these steps to lock the Settings:

- 1 Navigate to Locks (A).*
- 2 Press the SELECT navigation button to view the Lock screen (B).
- 3 Navigate to Settings (C). In this example the Settings are unlocked.
- 4 Press-and-hold the SELECT navigation button for approximately 5 seconds. After 5 seconds, the toggle switch will move to the right and turn blue (G), and a lock icon will appear (E).

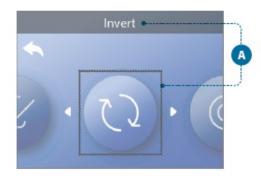
You have locked the Settings.

Follow the same steps to lock/unlock the Settings and/or Panel.

5 - Navigate back to the Main screen. The lock icon on the Main screen (H) indicates that the Settings are locked.

Can Settings and Panel be locked simultaneously?

Yes. The lock icon (H) appears if the Settings or the Panel or both are locked. The current lock states are indicated by the toggle switches in the Lock screen (C, D).











INVERT DISPLAY

Follow these steps to invert the display:

- 1 Navigate to Invert (A).*
- 2 Press the SELECT navigation button to invert the panel display (B). Every screen will be inverted.

You have inverted the display (B).

Follow the same steps to restore the default display orientation (C).

SET FILTER **CYCLE TIMES**

Keep your water clean and ready to enjoy!

Follow these steps to set the Filter Cycles:

- 1 Navigate to Filter (A).*
- 2 Press the SELECT navigation button to view the Filter screen (B).
- 3 Select the start time for Filter Cycle 1 (C). Press the SELECT navigation button to view the time controls (E).
- 4 Enter your time settings (E) with the navigation buttons.
- 5 Select the Save button (D), and press the SELECT navigation button.

You have set the start time for Filter Cycle 1.



If you do not want to save your settings, select the Cancel button (F), and press the SELECT navigation button.

- 6 Follow the same process to change the other Filter time settings if desired.
- 7 Once all of the time changes are set, select the Save button (G), and press the SELECT navigation button.

You have set all of the Filter Cycle times.



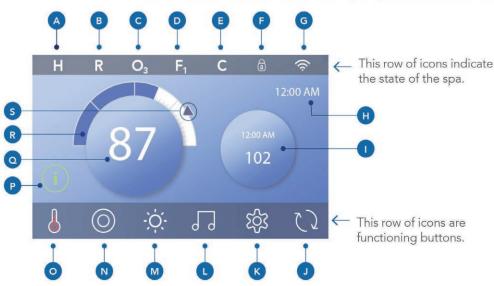
How can you tell if Filter Cycle 2 is enabled?

Filter Cycle 2 is enabled when a white ring appears around the 2 (H). In this example there is no white ring, so Filter Cycle 2 is disabled. Filter Cycle 2 is disabled by default on many spas.

User Guide



THE MAIN SCREEN



Main Screen Icons

A - Temperature Range

High: H

Low: L

B - Heat Mode

Ready: R

Rest: =

Ready-in-Rest: RR

C - Ozone Running: O3

D - Filter Cycles

Filter Cycle 1: F1

Filter Cycle 2: F2 (Optional Feature)

Filter Cycles 1 & 2: F+

E - Cleanup Cycle (Optional Feature)

F - Panel Locked and/or Settings Locked

G - WiFi (Local or Cloud Connection)

H - Time-of-Day

I - Secondary Button/Display

J - Invert Display

K - Settings

L - bba™ versions 2 and 3 (Balboa Bluetooth Audio)

 \mathbf{M} - Light (or CHROMAZON3 $^{\mathrm{TM}}$ $^{\mathrm{I}}$ if installed)

Both icons change from white to color when these devices are powered On.

N - Spa

O - Heater Status

P - Message Button (May Appear)

Information: (1)

Reminder: ®

Error - Normal Error or Warning: 1

Error - Spa will not function until fixed: 🗥

Q - Water Temperature

R - Water Temperature Bar

5 - Set Temperature Arrow

The system configuration determines the number of icons that appear on the Main Screen. Your Main Screen may have fewer or different icons.

Spa Status





Important information about spa operations can be seen on the Main Screen. Most features, including Set Temperature adjustment, can be accessed from this screen. The actual water temperature can be seen, and the Set Temperature can be adjusted

available, along with other messages and alerts. The selected Temperature Range is indicated in the upper left corner. A Lock icon (a) is visible if the Panel and/or Settings are locked. Near the bottom of the screen, at certain times an indicator may appear showing that a message is waiting. Touch this indicator to go to the Message Display Screen. On that Screen some of the messages can be dismissed.

When the spa is powered On, four dashes appear (A) in the Water Temperature display for one minute. The dashes indicate that the spa is checking the water temperature. After the pump runs for 1 minute, the dashes disappear and the water temperature is displayed (B). The dashes may reappear after the pump has not run for one hour.

SET THE TIME-OF-DAY

Be sure to set the Time-of-Day

Follow this sequence to set the time-of-day.

- In the Main screen, press the Settings button (B).
- In the Settings screen, press the Time button (C).
- In the Time of Day screen, press the Time button (D).
- Setting dials appear. Swipe these dials (F) to set the time. If your desired time value appears but is not aligned with the arrow, tap the desired time value to make it align with the arrow.
- Press the Save button (G) to save your settings. Or, press the Cancel button (E) to cancel your settings.

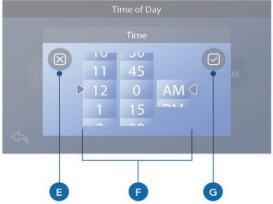
Setting the time-of-day is important for determining filtration times and other background features. If Time-of-Day needs to be set, the Information Message button (A) appears on the Main screen; view the previous page for more information on the different types of Message buttons.

NOTE: If power is interrupted to the system, Time-of-Day will be maintained for several days (this only applies to some systems).









SET THE TEMPERATURE

In this example we will set the Set Temperature to 102.

- Press the water temperature display button (A) to make the temperature menu appear (B). The center box with the arrow (C) indicates the current Set Temperature.
- If 102 is already showing, but just not centered (D), touch it to center it (E).
- If 102 is not showing (B), swipe the temperature menu until 102 appears (D).
- If 102 appears after swiping but does not stop in the center box (D), press 102. Pressing 102 makes it shift to the center box (E).
- Press the water temperature display (A) to make the temperature menu disappear. The Set Temperature is now 102.













Note: the Heater Status button icon flashes during heater start-up; this is normal.

RUN SPA DEVICES

Press the Spa button (A) to view the Spa screen.

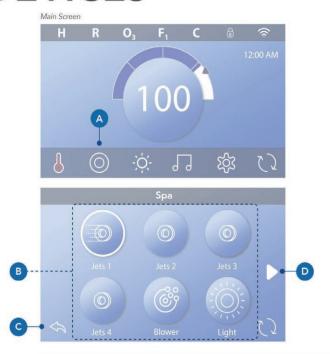
Press these buttons (B) to run spa devices. Some devises may only turn On and Off, while other devices may have multiple speeds/states. Your spa configuration determines the number of buttons and the function of the buttons in the Spa screen. One Spa screen displays six buttons, maximum. If more than six buttons exists, a navigation button appears (D). Press the navigation button (D), or swipe, to view the next Spa screen. Press the Back button (C) to navigate to the Main screen.

If the Jets are left running, they will turn off after a time-out period.

If the Spa has a circulation pump, a circulation pump icon will appear in the Spa screen to indicate its activity only (the icon is not a functioning button).

The circulation pump can be controlled with a button during Priming mode

If the spa does not have a circulation pump, then Jets 1 may turn On automatically at times. In these cases, pressing the Jets 1 button will just change speeds, but will not turn Off Jets 1.





SET FILTER CYCLE TIME

Keep your water clean and ready to enjoy

Follow these steps to set the time for Filter Cycle 1.

- Press the Settings button (A) on the Main screen.
- Press the Filter button (B) on the Settings screen.
- Press the Start button (E) on the Filter Cycles screen.
- Set the Start Time with these dials (J) on the F1 End screen.
- Press the Save button (K) to save your settings, or press the Cancel button (I) to cancel your settings.
- Press the End button (F) on the Filter Cycles screen, and follow the same steps to set the End Time.
- Once the Start and End Times are set, press the Save button (G) on the Filter Cycles screen.
- Once Start and End Times are set, the Duration appears here (H). You have now set the time for Filter Cycle 1. The white ring (C) indicates that Filter Cycle 1 is enabled (it is always enabled).

Follow the same steps noted above to set the time for Filter Cycle 2.

How can you tell if Filter Cycle 2 is enabled?

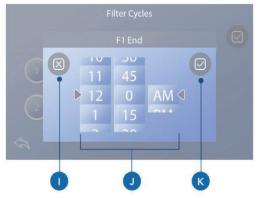
Filter Cycle 2 is enabled when a white ring appears around the ② button. For example, Filter Cycle 1 is enabled (C) in this screen, and Filter Cycle 2 is disabled (D). Press the ② button to enable/disable Filter Cycle 2. A Filter Cycle 2 will only run if it is enabled.

Note: It is possible to overlap Filter Cycle 1 and Filter Cycle 2, which will shorten overall filtration by the overlap amount.









RESTRICT OPERATIONS

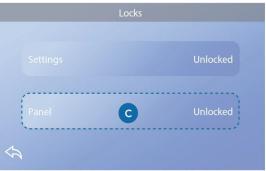
The following examples show how to lock and unlock the Panel.

LOCK PANEL

- Press the Settings button 🍪 (A) on the Main screen.
- Press the Locks button (B) on the Settings screen.
- Press the Panel button (C) on the Locks screen.
 "Lock Panel" will appear at the top of the screen (D).
- Press-&-hold "Lock Panel" (D) for five seconds. After five seconds a Lock icon (E) will appear in the top row. The lock icon also appears in the top row of the Main screen. The panel is now locked.











(Continued on next page)

UNLOCK PANEL

- Press the Panel button (F) in the Locks screen, and "Unlock Panel" will appear at the top of the screen (G).
- Press-&-hold "Unlock Panel" (G) for five seconds.
 After five seconds the Lock icon will disappear from the top row (1) of the Locks screen. The panel is now Unlocked.

The control can be restricted to prevent unwanted use or temperature adjustments. Locking the Panel prevents the controller from being used, but all automatic functions are still active.

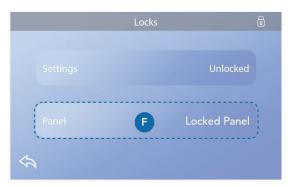
LOCK & UNLOCK SETTINGS

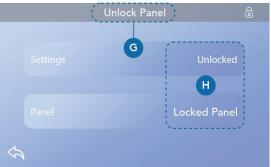
Follow the same steps noted above to lock and unlock Settings.

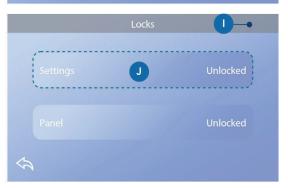
Locking the Settings allows Jets and other features to be used, but the Set Temperature and other programmed settings cannot be adjusted. Settings Lock allows access to a reduced selection of menu items. These include Filter Cycles (view only), Invert, Information and Fault Log. They can be seen, but not changed or edited.

Can Settings and Panel be locked simultaneously?

Yes. The lock icon (K) appears if Settings or Panel or both are locked. The current lock states are noted on the right side of the buttons (H).









HEAT SETTINGS

Ready to enjoy!

Make sure your spa is heated and ready to enjoy with Heat Settings. Navigate to the Heat Settings screen from the Main screen by pressing the Settings button . Press the Heat button . and the Heat Settings screen appears (A). The Heat Setting screen does not have Save or Cancel buttons, so changes you make take effect immediately.

Heat Mode (B)

Ready R

Ready Mode (B) keeps the water temperature within 1° F (0.5° C) of the Set temperature. For example, if the set temperature is 102° F (39.0° C), the water temperature will be within +/- 1° F (0.5° C) of 102° (39.0° C). Press the Heat Mode button (B) to switch between Ready and Rest Mode. The $\bf R$ icon appears on the Main screen when the spa is in Ready Mode.

Rest

Rest Mode functions the same as Ready Mode, except
Rest Mode only heats the water during filter cycles
Press the Heat Mode button (B) to
switch between Ready and Rest Mode. The icon
appears on the Main screen when the spa is in
Rest Mode.

Ready-in-Rest RR

Ready-in-Rest Mode is the same as Rest Mode, except Ready-in-Rest Mode heats the water, if necessary, for one hour when you turn On Jets 1. The **RR** icon appears on the Main screen when the spa is in Rest-in-Rest Mode.

If the spa is in Ready-in-Rest mode and you go to the Heat Settings screen (A), that cancels Ready-in-Rest Mode and puts you back into Rest Mode, even if you press no buttons while on the Heat Settings screen.



Heater Pump

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 at various intervals, 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."

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. When the heater pump has come on automatically (for example for heating) you can switch between low speed and high speed but you cannot turn the heater pump off.

Temp Range (C)

There are two Temp Range settings: High and Low.

High H

The water temperature can be set between 80° - 104° F (26.6° - 40.0 C) when Temp Range is set to High. Press the Temp Range button (C) to switch between High and Low Range. The H icon appears in the top row of the Main screen when the spa is in High Range.

Low L

The water temperature can be set between 50° - 99° F (10.0° - 37.2° C) when Temp Range is set to Low. Press the Temp Range button (C) to switch between High and Low Range. The ∟ icon appears in the top row of the Main screen when the spa is in Low Range.

Different High and Low Temp Ranges may be determined by the Manufacturer.

Freeze Protection is active in High and Low range.

M8

Press the M8 button (D) to turn it On/Off. The M8 feature looks for opportunities to decrease pump usage, which may increase pump life and save energy. M8 is On by default. M8 is an optional feature and may not appear on all systems.



SETTINGS SCREEN

Fine tune your spa with a wide variety of Settings.

Starting from the Main screen, press the Settings button to view the Settings screen (A). Press the navigation arrows or swipe to view all of the Settings screens.

Heat &

Make sure your spa is heated and ready to enjoy with Heat Settings. (view page 22).

Filter 7

Keep your spa water clean and ready to enjoy by setting Filter Cycles

Time (

Set the Time to ensure scheduled features have proper timing (view page 9).





Reminders (1)

Reminders (A) are helpful spa maintenance messages that display periodically.

Locks 🖻

Lock the Panel and/or Setting

Light Cycle (Optional)

If you want the spa lights to turn On and Off at a specific time, use Light Cycle (A).

Hold &

Hold (B) is used to disable the pumps during service functions like cleaning or replacing the filter. Hold Mode will last for 1 hour unless the mode is exited manually. If spa service will require more than an hour, it may be best to simply shut down power to the spa. The Hold Icon on the Settings Screen places the spa in Hold Mode and displays the System Hold screen. Touch Back to exit Hold Mode.





Hold (continued)

Drain Mode (Optional)

Some spas have a special feature that allows Pump 1 to be employed when draining the water. When available, this feature is a component of Hold.

Cleanup 📥

When a pump or blower is turned on by a button press, a clean-up cycle begins 30 minutes after the pump or blower is turned off or times out. The pump and the ozone generator will run for 30 minutes or more, depending on the system. On some systems, you can change this setting.

Units 🕼

Specify Time and Temperature Units (B). The temperature choices are Fahrenheit or Celsius. The time display choices are 12 hour or 24 hour.

Language 🗐

Select from a variety of languages.

Panel Oo

Set how long it takes the panel to go to sleep after the last activity. The default is 1 minute. The shortest time (1 minute) is recommended because it decreases the chance of water activating buttons.

Diagnostics 🎤

Spa technicians can find useful information and features in Diagnostics









MESSAGES

General Messages

Several alerts and messages may be displayed in a sequence.

Possible freezing condition

A potential freeze condition has been detected, or the Aux Freeze Switch has closed. 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 - M029*

The system has detected a spa water temp of 110°F (about 43°C) or more, and spa functions are disabled. System will auto reset when the spa water temp is below 108°F (about 42°C). Check for extended pump operation or high ambient temp.

The water level is too low

This message can only appear on a system that uses a water level sensor. It appears whenever the water level get too low (or the water level sensor is disconnected), and automatically disappears when the water level is adequate. Pumps and the heater turn OFF when this message appears.

Heater-Related Messages

The water flow is low - M016**

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 minute. See "Flow Related Checks" below.

The water flow has failed* - M017**

There is not enough water flow 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, reset the message*.

The heater may be dry* - M028**

Possible dry heater, or not enough water in the heater to start it. The spa is shut down for 15 minutes. Reset this message* to reset the heater start-up. See "Flow Related Checks" below.

The heater is dry* - M027**

There is not enough water in the heater to start it. The spa is shut down. After the problem has been resolved, you must reset the message* to restart heater start up. See "Flow Related Checks" below.

The heater is too hot* - M030**

One of the water temp sensors has detected 118°F (about 48°C) in the heater and the spa is shut down. You must reset the message* when water is below 108°F (about 42°C). See "Flow Related Checks" below.

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.

Sensor-Related Messages

Sensors are out of sync - M015**

The temperature sensors may be out of sync by 3°F. Call for Service if this message does not disappear within a few minutes.

Sensors are out of sync -- Call for service* – M026**

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 - Sensor A: M031**, Sensor B: M032**

A temperature sensor or sensor circuit has failed. Call for Service.

System-Related Messages

Program memory failure* - M022**

At Power-Up, the system has failed the Program Checksum Test. This indicates a problem with the firmware (operation program) and requires a service call.

The settings have been reset (Persistent Memory Error)* – M021**

Contact your dealer or service organization if this message appears on more than one power-up.

The clock has failed* - M020**

Contact your dealer or service organization.

Configuration error

The spa will not Start Up. Contact your dealer or service organization.

The GFCI test failed (System Could Not Test the GFCI) – M036**

(North America Only) May indicate an unsafe installation. Contact your dealer or service organization.

A pump may be stuck on - M034**

Water may be overheated. POWER DOWN THE SPA. DO NOT ENTER THE WATER. Contact your dealer or service organization.

Hot fault - M035**

A Pump Appears to have been Stuck ON when spa was last powered. POWER DOWN THE SPA. DO NOT ENTER THE WATER. Contact your dealer or service organization.

Reminder Messages

Reminder messages can be reset from the panel. Press the Clear Icon to reset the Reminder message.

General maintenance help

Reminder Messages can be suppressed by using the Reminders Screen. Reminder Messages can be chosen individually by the Manufacturer. They may be disabled entirely, or there may be a limited number of reminders on a specific model. The frequency of each reminder (i.e., 7 days) can be specified by the Manufacturer.

Check the pH

May appear on a regular schedule, i.e., every 7 days. Check pH with a test kit and adjust pH with the appropriate chemicals.

Check the sanitizer

May appear on a regular schedule, i.e., every 7 days. Check sanitizer level and other water chemistry with a test kit and adjust with the appropriate chemicals.

Check ozone

May appear on a regular schedule. Change the UV as instructed by the manufacturer.

Cal Connect RF Set Up Guide

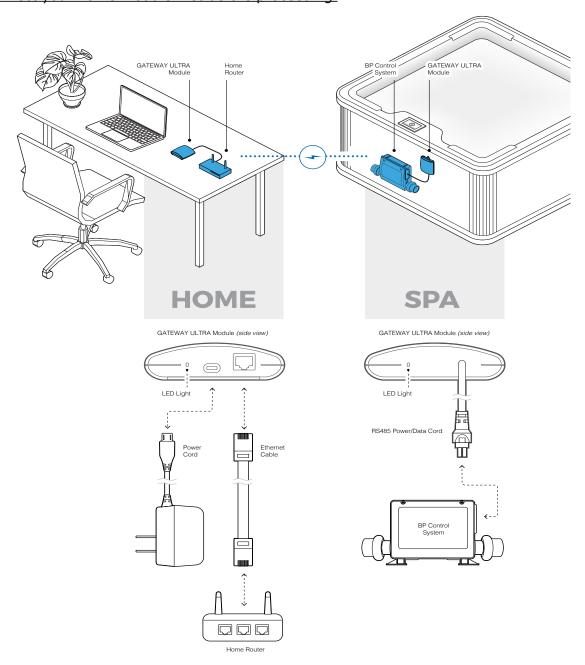


Congratuations! Welcome to Cal Connect Control My Spa, the smart control system for spa monitoring on the go. With Cal Connect you will be able to control/monitor water temperture, control pump operation, adjust filtration, and monitor/control any activity occurring within your spa.

This Quick Start guide will help you with inital set up of your RF module.

NOTE: The Cal Connect Module works on 2.4 Ghz networks only. Inspect your router to confirm 2.4 Ghz support.

The Cal Connect uses two modules, one that connects to the home router and one that connects to the spas control box, both modules must have matching serial numbers located on the back of each of the modules. Connect your home module first before proceeding.



Download the Control My Spa App

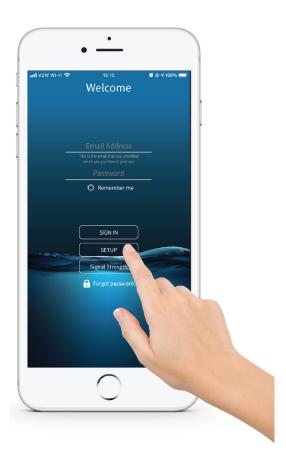


To Begin the inital set up of the Cal Connect system, download the "Control My Spa" app by Balboa Water Group from the App Store or Google Play Store.

Before starting the app, have your CMS code in hand. This is a unique code provided to you by your dealer.

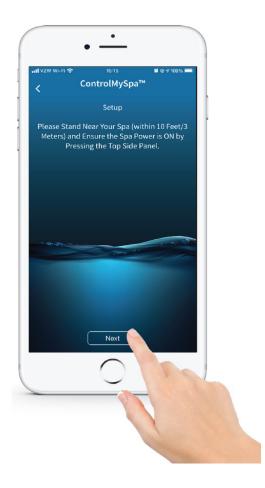
If you do not have a CMS Code, Please Contact your dealer.





- **1-** In your phone setting ensure that your bluetooth setting is toggled on, during inital set up the module uses bluetooth to communicate.
- **2-** To set your module into discovery mode, flip your spa GFCI breaker off and back on again.
- **3-** Next, open the Control My Spa app and and select "SETUP" to begin the process of registering your modules.

4- Stand next to the spa, perferably near the control panel of your spa. your mobile device will begin searching for the spa module.



Control My Spa Set-Up



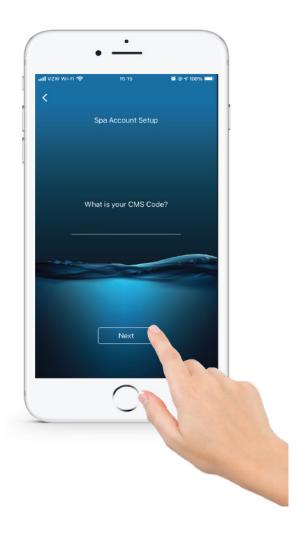


- **5-** The App will begin scanning for the spas wifi module. within a few seconds the module serial number should appear.
- **6-** Select the "Yes" option once the serial number appears on screen and proceed with the following steps.

7- The app will request your CMS Code to proceed with creating an account to control your spa.

If a CMS Code was not given to you, please contact your dealer.

8- Proceed with account creation, once completed with all steps log into your newly created account on the main page of the app. once you are logged in you should have control of your spa system within 5-10 minutes.



For more details on installation and basic troubleshooting you can download the complete installation/owners manual on https://www.balboawatergroup.com/getdoc.cfm?id=2392 To download the full manual.

Energy Consumption Tips

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 quire 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 make your heater work more than necessary.

Spa 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 to the right.)

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



LED 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 LEDs operate in three modes:

1. Cycle: When you continually press the LIGHT button, the LEDs will cycle through the three main LED colors (Red, Green, and Blue) or combinations of the three that produce the following colors: light green, purple, light blue, yellow, etc.

Each time you press the button, you immediately advance ti the next color in sequence or eventually a different light pattern.

2. Flashing: Once you have cycled through all of the colors, another press of the LIGHT button will produce a flashing pattern.

- **3. Fading cycle:** The next phase of operation when you push the LIGHT button is a slow and/or fast fade random transition from one color to the next.
- If a spa is equipped with more than 100 points of light the slow fading cycle will flicker during a color change.
- Every air valve is equipped with 2 LED points.
- Perimeter LEDs take 9 points of light.
- The waterfall takes 4 points of light.

Spas with exterior corner LED lighting generally work in the same mode as described above. The variations in color and patterns provide you with multiple options to suit almost any lighting preference.

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, of in most cases from floor jets to all jets. This is accomplished by rotating the diverter knob to the left (counter-clockwise), 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 (counter clockwise) to increase the amount of air flow. To decrease the amount of airflow through the jets, rotate the handle to the right (clockwise)



Hydro Streamers

Your spa may include two to eight streamer waterfalls. When the booster pump is on, turn the 1" diverter knob to adjust the rate of flow to the waterfall jets.

The waterfall jet faces are not adjustable. Do not turn the jet faces because you may accidentally remove them. Always shut off water to the hydro streamer jets before you place the cover on the spa. Water from the hydro streamer jets sprays in an arc that is higher than the top surface of the spa. When water from the hydro streamer sprays the bottom of the cover, it will collect and run to the edge of the spa and drip over the top.





Water Clarity

This section is intended for new spa owners who are not familiar with adjusting spa water chemistry. Everyone's knowledge with maintaining water quality is different, but there are some general concepts you need to know.

Water maintenance is not difficult, however it is something that requires regular attention. The most important thing to understand about taking care of your spa water, is that preventative action is easier than corrective action when balancing chemistry and maintaining water clarity

Before beginning, we recommend you become familiar with some water quality terms and their definitions within this following section.

Four Steps of Water Clarity

1. Chemical Balancing

Learning how to properly balance your water.

You will need to test and adjust the chemical balance of your spa water, this is not a difficult task but it must be done regularly. Important areas to focus on with water chemistry is the calcium hardness, total alkalinity, and the pH range.

Spa owners with salt generators will need to perform a total dissolved solids and phosphate test.

3. Filtration

Learn how to properly clean your filter

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

A clogged 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.

2. Sanitation and Shock

Learning how to properly sanitize and shock your spa.

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

You also need to add shock to the water to stimulate the chemical sanitizer. How much you use and how often you use sanitizers, depends on how frequently the spa is used.

4. Consistency

Make checking your spa part of your daily routine.

Clear water requires regular maintenance. Establish a routine based on a regular schedule, testing your water on a daily basis.

Maintaining your water quality helps the enjoyment of your spa and extends the lifetime of spa components by preventing damage from neglect and chemical abuse.

Water Quality Terms and Definitions

The following chemical terms are used in this section. Understanding their meaning will help you to better understand clear water maintenance. Words in bold type are defined in this table.

Bromine / Bromamines	Bromine is an efficient sanitizer chemical for spas. When used as a sanitizer , bromine forms compounds called bromamines. Bromine can be added to the spa or automatically generated. Bromamines are compounds formed when bromine combines with nitrogen from body oils, perspiration, etc. Unlike chloramines, bromamines have no pungent odor and are effective sanitizers.
Chlorine / Chloramines	<u>Chlorine</u> is an efficient sanitizing chemical for spas. We recommend using sodium dichlor-type granulated chlorine because it is totally soluble and nearly pH neutral. When used as a sanitizer , chlorine forms compounds called chloramines.
	Chloramines are compounds formed when chlorine combines with nitrogen from body oils, perspiration, etc. Chloramines can cause eye irritation as well as having a strong odor. Unlike bromamines , chloramines are weaker, slower sanitizers . To remove chloramines, see the description of shock below.
Calcium Hardness	Abbreviated as CH. Calcium hardness 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 CH level can cause corrosion to the equipment and can cause staining of the spa shell.
Corrosion	The gradual wearing away of metal spa parts, usually caused by chemical action. Generally, corrosion is caused by low pH or by water with levels of TA , CH , pH or sanitizer which are outside the recommended ranges.
Dichlor	Also called sodium dichlor. It is a type of chlorine and is frequently used when shocking the water . An effective chlorine -based powdered oxidizer and sanitizer . Dichlor works by oxidizing waste product in the water such as bromamines and chloramines and causing them to burn off.
Monopersulphate or MPS	Frequently used when shocking the water . An effective non-chlorine-based powdered oxidizer that works well with both chlorine and bromine . It works by oxidizing waste product in the water such as bromamines and chloramines and causing them to burn off.
Oxidizer	Shocking the water with an oxidizing chemical prevents the buildup of contaminants, maximizes sanitizer efficiency, minimizes combined chlorine and improves water clarity.
Ozone	Ozone is a powerful oxidizing agent which is produced in nature and artificially. Ozone forms no by-products of chloramines (ozone actually oxidizes chloramines) and will not alter the water's pH .
рН	The pH level is the measure of the balance between acidity and alkalinity. Low pH causes the water to be too acid, which will cause corrosion , whereas high pH causes the water to be too alkaline, which will cause scaling . See page for testing for and balancing pH.
ppm	The abbreviation of "parts per million", the standard measurement of chemical concentration in water. Identical to mg/l (milligrams per liter).
Sanitizer	Sanitizer is a chemical added to the water to kill bacteria and viruses and keep the water clean. The two sanitizers we recommend are chlorine and bromine

Scale	Rough calcium-bearing deposits that can coat spa surfaces, heaters, plumbing lines and clog filters. Generally, scaling is caused by mineral content combined with high pH . Additionally, scale forms more readily at higher water temperatures.
Shock	Also called shocking the water, shock treatment, or superchlorination. Shocking the water is adding significant doses of dichlor or MPS to oxidize non-filterable organic waste and to remove chloramines and bromamines . Shock treatment breaks down organic waste contaminants which cause odor and cloudy water.
Total Alkalinity	Abbreviated as TA. Total alkalinity is the measure of the total levels of carbonates, bicarbonates, hydroxides, and other alkaline substances in the water. TA is important for pH control. If the TA is too low, the pH will fluctuate out of control, and if it is too high, the pH becomes difficult to stabilize.
Trichlor	Used as a pool sanitizer . NEVER use trichlor in a spa. Trichlor is extremely acidic and will lower the pH , causing corrosion to equipment. Using trichlor will void your warranty.

Water Testing Methods

There are two testing methods to choose from:

Test strips are a convenient testing method commonly used by spa owners.

The reagent test kit is a method which provides a high level of accuracy but is more expensive and more difficult to use if not experienced with this testing method.





Adding Chemicals to the Spa

IMPORTANT: All spa water chemicals, including MPS (Shock), chlorine, granulated pH increaser or decreaser, granulated total alkalinity increaser, calcium hardness increaser, liquid stain and scale inhibitor, and liquid de-foamer must always be added into or in front of the filter compartment while the primary jet is running for a minimum of 10 minutes.

- 1. Fold back the cover.
- 2. Press the Jets button or Jet 1 button (Touch devices, activate pump 1)
- 3. Carefully measure the recommended amount of chemical and slowly pour it into the filter area. Use care not to splash chemicals on your hands, clothes, eyes, or spa surface/siding
- 4. Close the spa cover

Warning: High sanitizer levels can cause discomfort to the user's eyes, lungs, and skin. Always allow the sanitizer level to fall into the recommended range before using the spa.

IMPORTANT NOTE REGARDING SHOCK TREATMENT: After administering shock to your spa, leave the cover open for a minimum of 20 minutes to allow the oxidizer gas to vent into the atmosphere. A high concentration of trapped oxidizer gas which may exist as a result of the shock treatment (not daily sanitation) may eventually cause discoloration or vinyl degradation to the bottom of the cover. This type of damage is considered chemical abuse and is not covered under the terms of the limited warranty.

Balancing Water Chemistry Levels

Maintaining spa water chemistry can be tricky, especially since there are many methods of keeping your water clear and clean. Note: We do not recommend a specific brand of chemicals.

See a spa dealer for guidance and recommendations on spa chemicals and supplied needed, as water chemistry varies from region to region. Various chemicals often sold under brand names, but a spa dealer can advise you on generic chemicals that are often less expensive than proprietary brands.

Balancing the Total Alkalinity (TA)

Total Alkalinity is a measure of the total levels of carbonates, bicarbonates, hydroxides, and other alkaline substances in the water. TA is referred to as the waters "pH Buffer". In other words its a measure of the ability of spa water to resist chemical changes in the pH level.

If the TA is too low, the pH level will fluctuate widely from high to low. Fluctuations in pH level can cause corrosion or scaling of the spa components. Low TA can be corrected by adding sodium carbonate (pH/Alkalinity Up).

180 TA too high Add an alkalinity pH will be too high 160 decreaser and may be difficult 140 to stabilize pH 120 TA 100 Ideal TA balance balance 80 60 TA too low Add an alkalinity 40 pH will fluctuate increaser wildly 20

If the total Alkalinity is too high, the pH level will tend to be high, and my be difficult to bring down. ilt can be lowered by using sodium bi-sulfate (pH/Alkalinity Down).

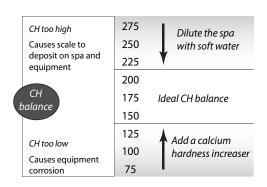
Once the TA is balanced, it normally remains stable, although the addition of more water with a high or low alkalinity will raise or lower the TA reading of the water.

When the Total Alkalinity is within the recommended range. Proceed to the next step.

Balancing the Calcium Hardness (CH)

Calcium Hardness is a measure of the total amount of dissolved calcium in the water. Calcium helps control the corrosive nature of spa water, thats why Calcium - low water (Soft Water) is not recommended. It is very corrosive to the equipment and can cause stains in the spa shell.

if the CH is too high (Hard Water) formation of scale on the spa shell & surface can result. You can use a generic calcium remover to remove hardness from water. CH can also be decreased by dilution (75% Hard water, 25% Soft water) will usually yield a reading within the correct range. If soft water is not available or practical for you, a stain and scale inhibitor should be added to the spa water, according to label instructions.



If the CH is too low, add CH Increaser.

Once the CH is balanced, it normally remains stable, although the addition of more water with a high or low calcium content will raise or lower the CH reading of the water.

When the CH is within the recommended range proceed to the next step.

Balancing the pH

The pH level is the measure of acidity and alkalinity. Values above 7.8 are alkaline; those below 7.2 are acidic. Maintaining the proper pH level is extremely important for optimizing the effectiveness of the sanitizer, maintaining water that is comfortable for the user, and preventing equipment deterioration.

If the spas water's pH level is too low, the following may result:

The sanitizer will dissipate rapidly

- The water may become irritating to spa users
- The spas equipment may corrode
- Bacteria and algae spikes can occur.

If the pH is too low it can be increased with sodium hydrogen carbonate (pH/Alkalinity Up) to the spa water.

If the pH level is too high, the following may result:

- The sanitizer is less effective
- · Scale will form on the spa shell surface and equipment
- The water may become cloudy
- The filter cartridge may become obstructed.

If the pH is too high, it can be decreased by adding sodium bi-sulfate (pH/Alkalinity Down) to spa water.

Note: After adding sodium hydrogen carbonate or sodium bi-sulfate, wait two hours before testing the spa water again for pH. Compounds take time to fully dissolve into the spa water, initial reading may not be accurate

Its important to check the pH on a regular weekly basis. The pH will be affected by the bather load, the addition of new water, the addition of various chemicals, and other sanitizer used. When the pH is within the recommended range, proceed to begin the sanitation process.

Sanitation and Shock

Sanitizers kill bacteria and other organic waste by breaking them down to non-harmful level which 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.

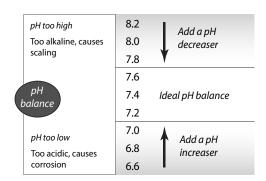
We recommend granulated chlorine or bromine as your sanitizer. Both work well when maintained regularly

Note: DO NOT USE Trichlor. Trichlor is very acidic and the hot temperature of the spa causes it to dissolve too fast, it will cause damage to your spa and will void your warranty.

Whichever chemical you decide to use, do not 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. Whenever you test chemical levels, your test strip will likely have a test for chlorine or bromine. Make sure you sanitizer falls within the range shown on the next page.

Whenever you test your chemical levels, your test strip will likely have a test for chlorine or bromine. Make sure your sanitizer falls within the range shown on the next page.

If your spa is equipped with a ozonator, this will assist in breaking down organic material and odors, but it will not disinfect your water, following the standard ppm recommendation for the sanitizer of choice is mandatory.



Starting & Maintaining Sanitizer Levels

After you choose a sanitizer, you will need to establish a baseline and maintain it regularly.

Sanitizing your spa with chlorine or bromine is very similar. Each sanitizer has its advantages and disadvantages. Sanitizer helps neutralize bacteria that can cause illness and other organic matter.

Bromine: Creates less odor and skin irritation than chlorine, bromine is less likely to do so. Additionally, unlike chlorine when bromine combines with bather waste and other contaminants in the water it remains an effective sanitizer. Bromine is also far less pH dependent than chlorine. Always remember that bromine itself is not a sanitizer, it needs to be activated with a bromine shock chemical in order to be effective, speak with your spa dealer for more information.

Chlorine: The most commonly recognized sanitizer is chlorine. However, the effectiveness of chlorine depends heavily on the pH level of the spa water. In order to get the most effective and economical benefit of chlorine, you must maintain a consistent pH level of between 7.2-7.6; a disadvantage of using chlorine is that when chlorine combines with bather waste and other contaminants, not only does it loose its sanitizing ability, it can cause odors and irritate eyes and skin to individuals with sensitive skin or prolonged spa exposure.

Testing For:	Ideal Range (ppm) Minimum Maximum
Chlorine Level	3.0 - 5.0
Bromine Level	6.0 - 11.0

Note: If you choose to use bromine or chlorine we do not recommend the use of a floater. You have more control over the sanitizer levels by adding sanitizer as needed. Chemical abuse will void your warranty.

When adding sanitizer to your spa, ensure that pump one is operating at high speed, and feed the sanitizer into the filter canister with the most suction, for spas with more than one pump we recommend activating all pumps for at least 10 minutes when adding sanitizer.

Starting with fresh water/pre-filtered well water:

- 1. Establish a baseline by adding either granulated chlorine or bromine.
 - Use a half ounce of chlorine for every 500 gallons of water
 - Use half an ounce of bromine for every 100 gallons
- 2. Run the Jets for 10 minutes (Press/toggle the pump 1 button/icon)
- 3. Test the water, make sure the pH, TA, and CH levels all fall within the ranges shown in the previous pages, make adjustments as needed.
- 4. After balancing the water, if you are using bromine to sanitize your spa, you must activate your bromine. You will need to shock-oxidize the bromine inside of your spa. Depending on the size of your spa, usually you must add one to two ounces of shock, refer to the instructions inscribed in your chemical of choice.
- 5. Test the water again, when the water is balanced, your spa is ready to use.

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 can damage the spas jets and pump seals. Only use Oxidizer shock. It can be used with either bromine or chlorine sanitizers.

Add two ounces of oxidizer shock per 500 gallons once a week, after heavy bather loads, or if the water has a strong odor. The spa must be running with all of the jets on high for 30 minutes with the cover open. If necessary repeat the oxidizer shock in 30 minute intervals.

Filtration & Cleaning

The filter is the part of your spa that removes big and microscopic debris from the water to maximize your spas water clarity. Regular maintenance must be done to maximize the spas filtering performance and heat efficiency.

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, damaging the spa pumps and heater.

Cleaning the Filter

In addition to spraying the filter down with a hose to remove surface debris, the filter must be deep cleaned every so often to dissolve scale and particles that are trapped within the pleats of the filter. Even if the filter looks clean, scale and other particles hide deep within the filter fibers restricting water flow. If the filter is not properly cleaned this will cause flow issues within the spa heater creating a heater malfunction. We recommend cleaning your filter at least once a month or every two weeks depending on spa usage.

Cleaning the filter

- 1. Remove the filter by unscrewing the filter counterclockwise from the top of the filter, do not use excessive force when removing or installing the filter.
- 2. Place the dirty filter into a bucket of water where the filter is completely submerged in water. Add the desired filter cleaner of choice, on average most manufactures recommend 8 ounces of chemical cleaner, verify the amount used on your chemical instructions.

Note: It is recommended to obtain a spare filter to use in the spa when performing maintenance on the dirty filters. This way you can rotate the filters and extend their lifespan.

- 3. Soak the filter for a minimum of 24hrs
- 4. Spray the filter with a water hose, with careful attention between filter pleats.
- 5. Reinstall the filter, Do not over-tighten.

General Water Care Schedule

Prior to each use	Test the spa water. Adjust chemical levels as necessary. Shock the water by adding ½ teaspoon of sodium dichlor per 250 gallons or 1 teaspoon of MPS per 250 gallons.
After each use	Add an ounce of oxidizer after heavy bather loads
Once a week	Check the filter well and inside the filter pipe for leaves and foreign matter. Test the spa water. Adjust chemical levels as necessary. Shock the water by adding ½ teaspoon of sodium per 250 gallons or 3 teaspoons of MPS per 250 gallons. If your water source is high in calcium, add stain and scale preventer.
Every two to four weeks	Deep clean your spa's filter. How often you clean your filter depends on how much you use your spa. There is no harm in frequently cleaning your filter and will only help your spa's efficiency.
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 Clean and treat the spa cover and pillows Deep clean the filter Refill your spa
Each time you refill the spa	Follow the section "Filling and Powering Up Your Portable Spa"

Generic Names for Chemicals

Water Chemistry		
Common name	Usual chemical name	Common brand names
pH Up	sodium hydroxide	pH Increaser, pH Up, pH Plus, pH Booster
pH Down	sodium bisulfate sodium bicarbonate (baking soda) sodium carbonate	pH Decreaser, pH Down, pH Minus, pH Subtracter, Dry Acid
Alkalinity increaser	sodium carbonate sodium bicarbonate (baking soda)	Alkalinity Increaser, Alkaline Up
Alkalinity decreaser	sodium bisulfate	Alkalinity Decreaser, Alkaline Down
Calcium increaser	calcium chloride	Calcium Increaser, Calcium Up, Calcium Plus, Hardness Increaser
Calcium decreaser	N/A To decrease calcium hardness, drain several gallons of water from the spa and refill using a mixture of 75% hard water and 25% soft water, or use a stain and scale inhibitor.	

Sanitizers		
Common name	Usual chemical name	Common brand names
Chlorine	sodium dichlor	Both chlorine and bromine are available under
Bromine	sodium bromide	numerous brand names

Shock			
Common name	Usual chemical name	Common brand names	
MPS	monopersulphate	MPS Shock, Oxy-Spa, SeaKlear	
Dichlor	sodium dichlor	Dichlor Shock	

Note: Dichlor (chlorine) is both a sanitizer and a shock. Monopersulphate (MPS), when used as a shock, can be purchased alone as non-chlorinated shock or combined with dichlor, which makes it significantly more effective than MPS alone.

Other chemical additive	es	
Common name	Usual chemical name	Common brand names
Stain and scale inhibitor	These are usually proprietary chemical formulations and	Metal Stain Gone, Scale Inhibitor, Stain and Scale Preventer, Stain and Scale Defense
Foam inhibitor	cannot be purchased as a single generic chemical.	Foam Gone, Foam Down, Defoamer
Clarifier		Water Brite, Spa Bright, Water Clarifier, Clear Water, Natural Clarifier, Brite & Clear

Do NOT use these in your spa:

- Sodium hypoclorite (household bleach)
- Trichlor

Common Water Chemistry Questions

Question: Why is the use of a floater not recommended to sanitize my spa water?

Answer: We do not recommend the use of a floater for three reasons:

- The floater is unable to control the rate at which the sanitizer is dissolved into the water. When a floater is placed into a spa the sanitizer levels inside the spa can be extremely high. High sanitizer levels over a period of time will cause chemical burns and discolor the spa shell, jets, pillows, and spa cover underside. The use of floaters tends to lead to negligence of spa water sanitizer levels as well. Once the sanitizer is all dispensed and the floater is not checked daily, the low sanitizer level will allow viruses, algae and harmful bacteria like Legionella (Legionnaires disease) and E-Coli to grow.
- Floaters tend to stay in one area of the spa most of the time, causing this area to be exposed to extreme sanitizer levels. Most commonly a floater will become trapped near the filter weir or a seat, causing chemical damage to the section of the spa.
- The floater may allow small chunks or pieces of the concentrated sanitizer to fall out of its
 housing causing the chunks to settle at the bottom, causing pitting or chemical blisters to
 the spa shell. For this reason we advise you to use granulated chlorine or bromine as granulated sanitizers are designed for dissolve quickly inside of the spa with your jets activated.
 Chemical abuse is not covered under the terms of the limited warranty.

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 the 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.

Ozonator

The ozone generator releases ozone into the spa water. You will still need to test for chlorine/bromine and occasionally replenish it to return the sanitizer level back to baseline. For spas without a circulation pump, "Pump 1" will run at low speed and the ozonator will run during filtration.

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

Make sure water diverter valves are turned all the way to the left or right, and never left in the center position during filtration cycles. When the diverter valve is in the center potion, there is not enough suction from the pump in order to inject ozone into the spa. The ozonator will generate ozone, but it would not be injected into the water effectively.

Troubleshooting Water Clarity

Problem Cloudy Water	 Probable Causes Dirty Filter Excessive oils/ Organic matter Improper sanitation Suspended particles/organic matter Overused or old water 	 Clean filter Shock spa with sanitizer Add sanitizer Adjust pH and/or alkalinity to recommended range Run jet pump and clean filter
Water Odor	 Excessive organics in water Improper sanitation Low pH 	 Drain and refill spa Shock spa with sanitizer Add sanitizer Adjust pH to recommended range
Musty Odor	Bacteria or algae growth	Shock spa with sanitizerAdjust pH to recommended range

Problem	Probable Causes	Possible Solutions
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 s cum and refill the spa
Algae Growth	High pHLow sanitizer level	Shock spa with sanitizer if problem is visible or persistent, drain, clean and refill the spa
Eye Irritation	Low pHLow sanitizer level	 Adjust pH Shock spa with sanitizer and maintain sanitizer level
Skin Irritation/ Rash	Unsanitary waterFree chlorine level above 5ppm	 Shock spa with sanitizer and maintain sanitizer level Allow free chlorine level to drop below 5 ppm before spa use
Stains	 Total alkalinity and/or pH is too low High iron or copper in source water 	 Adjust total alkalinity and/or pH Use a stain and scale inhibitor
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 water Use a stain and scale inhibitor

Chemical Abuse

Chemical abuse is defined as negligent/careless use of both recommended spa chemicals, and use of prohibited chemicals. The spa shell is designed to last for many years, but when the shell is exposed to excessive chemicals, or improper chemical application; this can cause reactions on the shell that can cause pitting, cracks, bubbling, and other blemishes on the shell.

Spa jets, pillows, and other components are designed to withstand sanitizer levels within the range mentioned in this manual. Excessive sanitizer use will cause oxidation of the interior of the spas metals and other components, which can cause rust/oxidation of jets, deterioration of spa pillows, speakers and plastics, and damage/oxidation of the spa cover.

Components & materials damaged by chemical abuse are not covered under warranty. Depending on the extent of damage the entire spa warranty can be voided, as stated in the limited warranty.

Removing and Re-seating Pillows

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

Grab the lower edge of the pillow with both hands and firmly pull up, as you do this the pillows inserts will pop out of the holes.

Re-seat the pillows by aligning the pillow inserts with the holes and striking the pillow hard enough for the insert pegs to pop back in place.



Jet Removal and Replacement

Jets can be easily removed for cleaning.

Grasp the outer lip/rip of the jet and turn it counter-clockwise until it completely stops, you may feel the jet loosen and pop out a bit, pull the jet outward. The jet will be very snug and may require additional turning force to pop-out. DO NOT PRY OUT JETS

To replace the jet, place it in the fitting and turn clockwise until it click into place and can be rotated freely to open and close water flow again.





Note: have the jets turned off when removing jet inserts, it will be easier to remove when there is no water flow through it.

Cleaning the Hydrostreamers

To ensure proper flow through the hydrostreamers, follow this maintenance process should any jet(s) have diminished flow.

Step 1. Turn the jet counter-clockwise to remove the chrome jet head.



Step 2. Pull the chrome cap off.



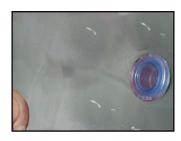
Step 3. Pull the plastic jet opening and its gasket



Step 4.(2) The plastic filter is shown completely removed from its housing



Step 6. Slide the plastic filter back in the Jet.



Step 8. Place the gasket into the plastic spout and then insert the spout into the jet body.



Step 10. Place the chrome ring cap back on and turn clockwise to tighten it down.



Step 4. Pull out the inner plastic filter.



Step 5. Tap the filter and/or blow out the debris to ensure all holes are clear.



Step 7. Re-insert the gasket into clear plastic spout.



Step 9. Insert the plastic spout into the jet body.



Spa Cover and Locking System Installation

The spa cover can be considered one of the most important parts of your spa. The spa cover helps retain the heat inside of your spa in all different types of weather. The cover works as a lid on a thermos, when the spa is not in use the cover helps lower the amount of time the spas heater has to run for. Using the cover will help lower your operating cost of your spa when the spa is not in use.

Note: The cover is constructed of rigid foam and metal, but it is not meant to support weight for your safety, do not sit, stand, or lie on the cover, nor should you place objects on top of the spa cover

- Covered spas will protect your spas finish from the suns ultraviolet rays.
- You are required to use the spa cover to maintain warranty coverage.
- Covering your spa prevents children or pets from drowning in your spa.

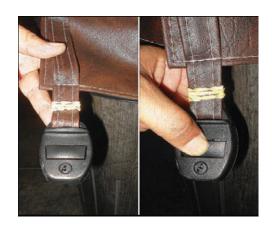
Step 1

Place cover on spa. Make sure it is correctly positioned, with the skirt of the cover wrapping over your spa shell. This helps prevent blistering and cracking from sun exposure.



Step 2

Position the tie-down hardware (attached to the straps of your cover) on the side of the spa so they are easily reached by the cover tie-down straps.



Step 3

With the straps pulled tight (but not overly right), lightly pre-drill the location for screw placement. Gently drill 3 holes - one for each screw slot in the lock.

Note: Use a low torque drill, or use the lowest setting on your drill, do not drill in the screw all the way as the corners are designed with an air pocket inside to retain heat inside of your spa. Too much force lay deform the shape of the corner and would not look as appealing.







Note: Illustrated corners may appear differently to the ones on your spa.

Use a screwdriver to finish screwing in the three screws, repeat this process for the remaining 3 corners.



Step 5

Keep the cover fastened down at all times when not in use, locking hardware may be locked with a key (provided in the packaging of the spa cover)





Step 6

The provided key will allow you to lock down your spa cover. We recommend locking your spa cover when the spa is not in use. Store your key somewhere safe, away from children.





FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN INJURY OR DROWNING NON-SECURED OR IMPROPERLY SECURED COVERS ARE A HAZARD. REMOVE COVER COMPLETELY BEFORE ENTRY OF BATHERS. ENTRAPMENT POSSIBLE.

KEEP COVER ON SPA AND LOCKED WHEN NOT IN USE

Draining Your Portable Spa

Your spa should be drained every four to six months for cleaning and maintenance and refilled with fresh tap water. Before you begin turn the power off to the spa at the breaker and remove your filters.

Step 1. Locate Your Drain

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



Step 2. Remove the cap

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



Step 3. Connect Valve to a 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 too.

Step 4. <u>Drain the Spa</u>

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 the hose and replace the cap.

Winterizing (Cold Climate Draining)

Depending on your region in your country, the temperature could drop below $32F(0^{\circ}C)$. If you are one of those regions, we recommend that you always have your spa full of water and running at normal spa temperatures between $80^{\circ}F - 100^{\circ}F$ ($26.7^{\circ}C - 37.8^{\circ}C$). This will help reduce the risk of water freezing in your spa and inside of the spa equipment.

WARNING: If you find the need to drain your spa, be aware of the potential risk of water 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 under warranty.

- 1 Open all filter covers.
- 2 Remove the filter baskets and filters
- 3 Drain your spa completely.
- 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 equipped with a UV light, loosen the quarts tube nut to let the water drain from the UV light chamber.
- 7 Disconnect the unions from both sides of the pump.

Note: Do not use antifreeze to treat your spa, irreversible damage will occur to seals and spa finish.

- 8 Blow out any remaining water out of the jets, suctions, filter canister, and equipment area with a wet/dry shop vac.
- 9 When it has completely finished draining, replace the quarts tube in the UV lamp chamber, and tighten the nut. Close the bleeder valves and re-connect the unions on the pumps.
- 10 Replace the filter basket and filters.
- 11 Cover your spa with a good spa cover and an all weather tarp to ensure 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 properly filtering your spa than using excessive amounts of chemicals, excessive filtration times, or by water replacement.

Vacation Care

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

Note: Always lock your spa cover using the cover locks if you plan to be away from home and the spa is filled with water, these instructions will help maintain your water quality for up to two weeks. Use of the spa during this period of time by guests or family can affect the clarity and conditions of the spa.

Select a low range temperature of 80F (27C)

Note: Platinum Spas & Escape Spas with Gecko systems, Refer to filtration mode "Away From Home"

- 1. Use a test strip, Adjust pH, AK, and CH if necessary.
- 2. Shock the spa water with your selected sanitizer (Add either bromine or chlorine)
- 3. Lock the spa cover to the cover locks.
- 4. When you return, test the water again and adjust pH and shock the water again.

If you will not be using your spa for longer than 14 days and the spa is not able to be maintained, we recommend following the cold climate procedure to prevent algae growth, bacteria, and spa damage.

Cleaning Your Spa

Spa Cover and Pillows

Due to constant punishment your spa cover and pillow receive, you should protect them by applying a vinyl and leather cleaner as part of your monthly maintenance plan. Use a product that is designed specific to spa covers and pillows, to protect them from UV ray damage without leaving an oily residue. Contact your spa dealer for recommendations.

Warning DO NOT use any kind of automotive vinyl protectants on spa pillows or covers (ex. Armor all, Meguiar's, etc). These products are oil based and will leave an oily layer on your water line and will cause severe water clarity issues that require hours of work to correct, including multiple flushes of the system.

Spa Shell

Each time the spa is drained, before the spa is refilled it should be cleaned with an all purpose cleaner, or a mild detergent, followed up with a surface protectant. Do not use abrasive chemicals or cleaning tools as it may scratch the acrylic. Use a non oil based protectant designed for spas to protect the finish from mineral build up associated with normal spa use.

Using the Freedom Sound System

The Freedom Sound System™ entertainment option contains a Bluetooth enabled speaker system that is available for certain Cal Spa models. Any Bluetooth- enabled device can be used to play audio through your spa. Before you can use the sound system, you will need to pair the speakers to your smart device via Bluetooth. The Freedom Sound System will respond to equalizer (EQ) from your mobile device, use your devices settings to adjust bass, treble, or certain frequencies you wish to amplify.

On your mobile device, open the settings and select Bluetooth, the device will begin to scan for available devices. Bluetooth signal is the strongest when you are next to the spa with a range of 5-10 feet based on conditions and the position of the spa.

The sound system will appear as "Aquatic AV" on your mobile device. Apple devices may require a password to pair, use "0000" to pair the spa to your device. Android devices will pair at initial selection from your devices Bluetooth menu.

Once your device is paired and connected, all sounds from your device will be played through the sound system, including system sounds and telephone.









Working Out with Your Swim Spa

Air Injection/Resistance

Use the control panel to start and stop jets, and use the air ventruis at the end of the swim spa next to the main hand rail of the swim spa to inject air into the swim jets. When air is introduced to the spa jets, water resistance increases, giving you the ability to have more vigorous exercise. You may also adjust the angle of the main swim jets to push water upward or lower to increase buoyancy and resistance.

Swim Tether

The swim tether pole has three pieces and assembles easily. slide the ends of the top and middle sections into the middle and bottom sections.

Insert the tether in the anchor hole when you are read to use it. Buckle the strap around your waist, it is easily adjustable and can accommodate most sizes as its designed as a one fits most.

Exercise Equipment

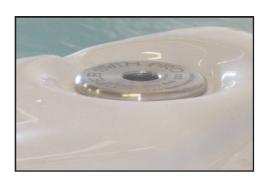
Optional Add on Item**

Important: Always consult your physician before starting any exercise activity or fitness program, the exercise equipment is designed for resistance training using elastic bands. When these bands are stretched the bands are under high tension. Improper use or failure to connect the exercise equipment can lead to injury, under high tension these bands can snap back towards the user or to others in or near the spa. Always inspect all of the exercise equipment and their connections before beginning any exercise. Never use any damaged equipment, and only use this equipment for its intended purpose.

Connecting the Exercise Equipment

The drawings starting on page 86 show the exercise kits placement in different spa models. Refer to the following pages to learn where the proper anchor points are within your swim spa.





For 14 foot spas including F1325, X

The exercise kit contains

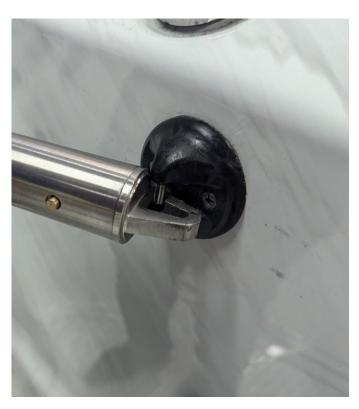
- Two hand grips
- Two 6" elastic bands
- Two 18" elastic bands
- Two 25" elastic bands
- · Two rowing bars

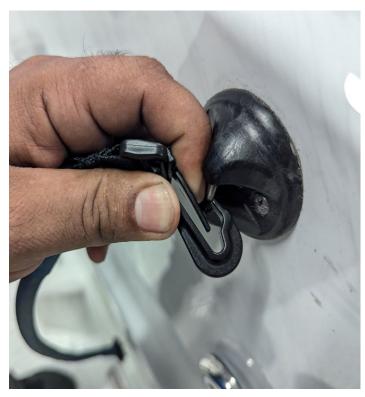
For 16 and 17 foot spas

The exercise kit contains

- Two hand grips
- Two 18" elastic bands
- Two 25" elastic bands
- Two 56" elastic bands
- Two rowing bars.

Anchor Points for Fitness Straps





There are there are several different anchor points within you swim spa. These anchor points can be used to install fitness equipment including the row bars and fitness straps. All equipment within the fitness equipment pack uses plastic clips or metal hooks

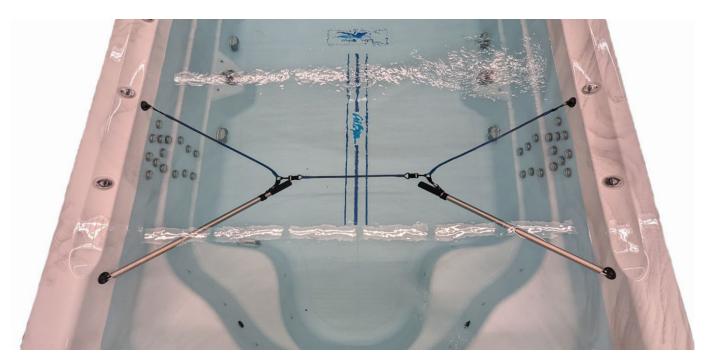
Swim spas are not included with fitness equipment, this is an add on accessory. You can purchase this equipment from your dealer, or from our website at www.quickspaparts.com.



Note: When attaching the row bar align the row bar to hook towards the front of the spa. These row bars slide onto the anchor point by lining up the row bar into the anchor, hook and slide it.

Hook the row bar with caution to avoid scratching the acrylic within your spa.

Note: When the fitness equipment is not in use, do not leave the elastic straps/bands, handles, or row bars inside of the spa. After each use dry the equipment with a towel and store within its provided duffel bag.



For illustration purposes only*

Refer to pages 86-89 for proper placement of exercise straps/row equipment

The Fitness straps should be used to secure the row equipment in place. First secure the row itself with a anchor point, a 25" strap will be used on each side. The smaller 18" strap should be used to connect the two rows together.

Note: Always be cautious when setting up the fitness equipment, the straps have tension once they are set in the row position, and have tension when used to do other warm up exercises.





The kit is designed to do a variety of different stretches and exercises. The swim spa has multiple anchor points that can be used to suit a variety of desired exercises.

Note: Always proceed with caution when using elastic bands, improper operation can snap the bands and cause damage to the spa or personal injury.

Anchor Points for Fitness Equipment

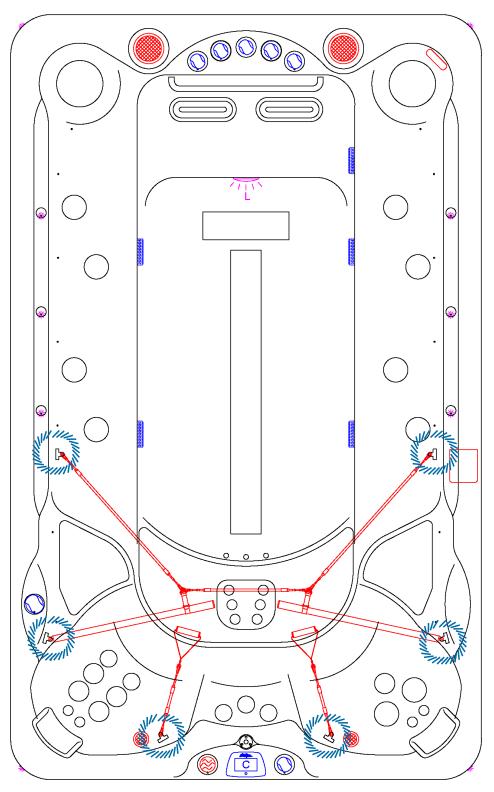
The diagrams below show where each of the anchor points are. Each point is circled within the diagram. These diagrams also show the expected position of each strap style

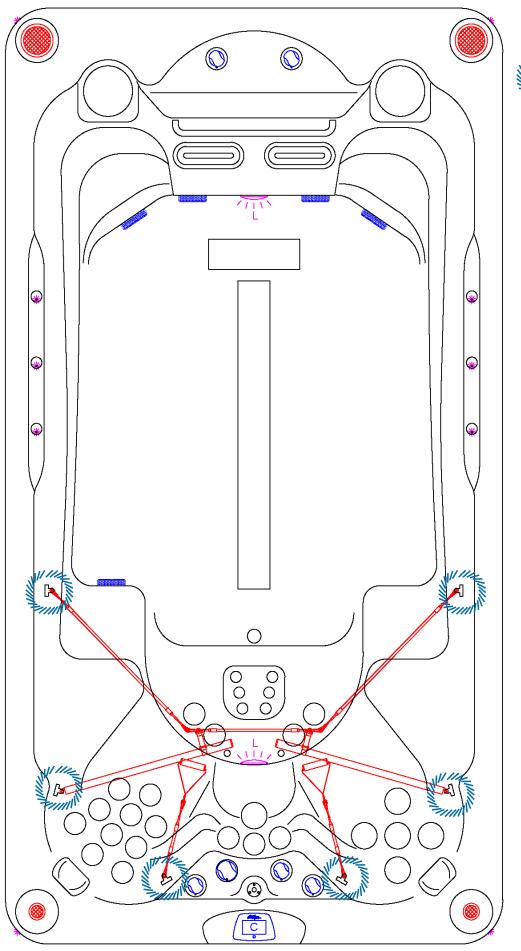
Note: The center anchor point is not circled. This is meant for a swim tether.





= Anchor Point

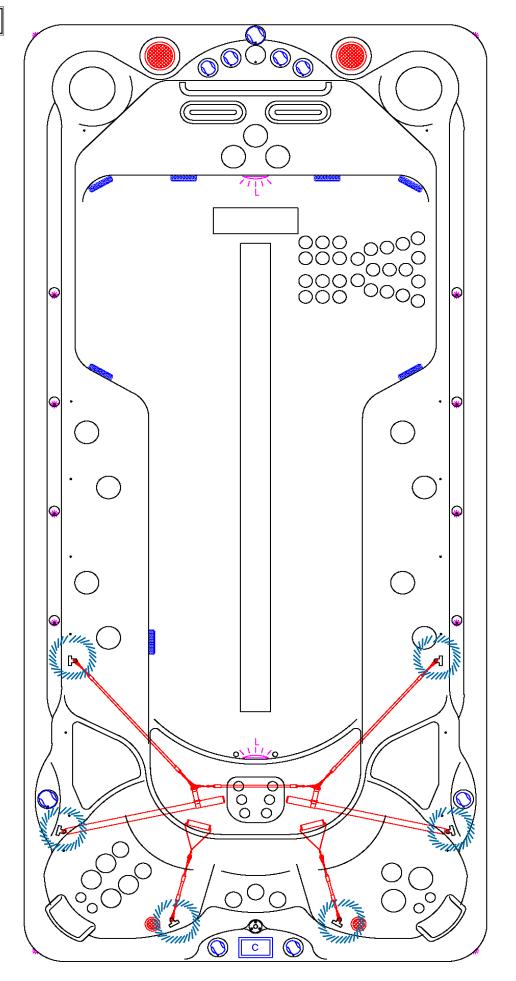




F-1437X

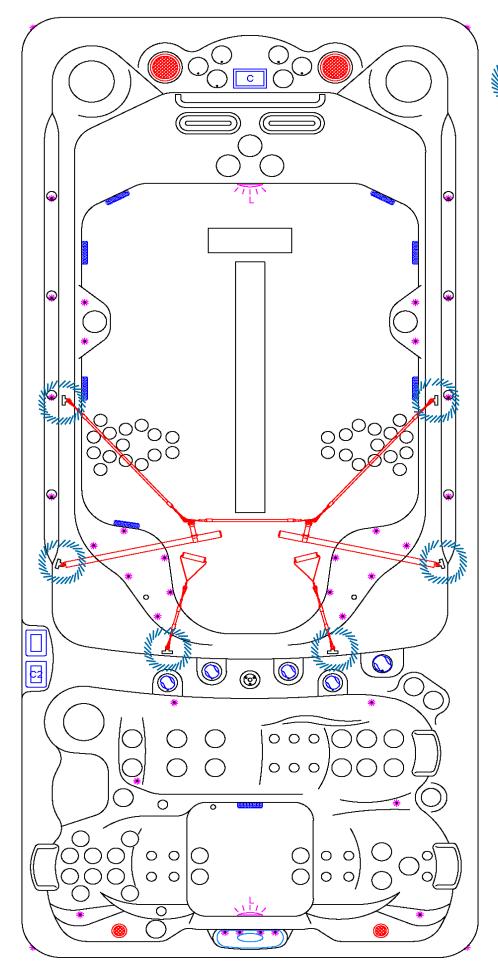


= Anchor Point



F-1655X



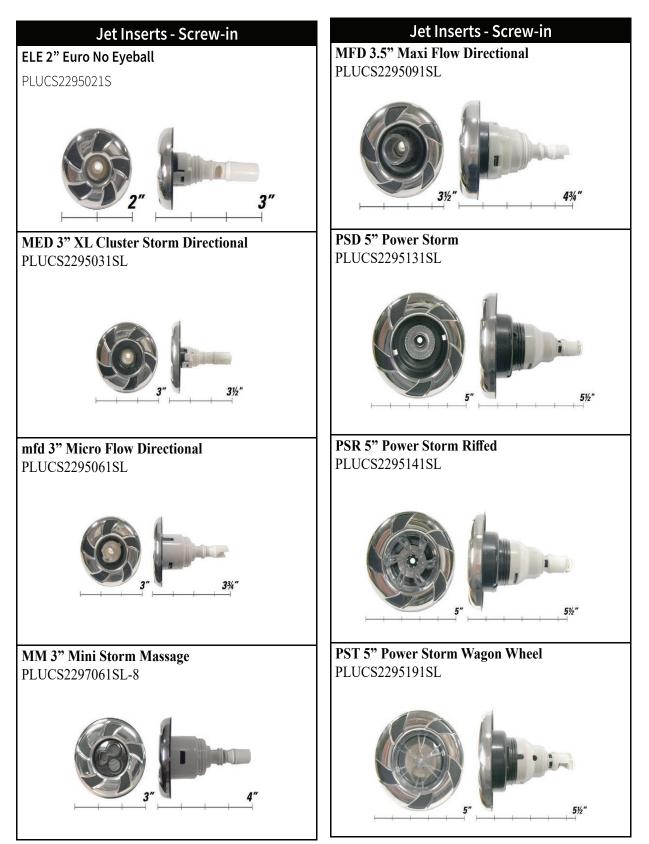


F-1868DZ



Appendix

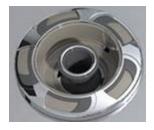
Replacement Parts



89

POWER JETS

Part#: PLUCS2444009SS-CDCL 5" Power Storm, Directional Eyeball Velocity Metal



Part#: PLUCS2444019S-CDCL Power Storm Tri Directional Eyeball Velocity Metal

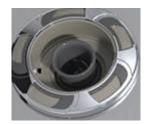


Part#: PLUCS2444059S-CDCL Power Strom Multi-Massage Velocity Metal



WHIRLPOOL JETS

Part#: PLUCS2394009S-CDCL Adjustable Whirlpool Velocity Metal



CLUSTER JETS

Part#: PLUCS2441009S-CDCL 4" Cluster Storm Internal, Directional Velocity Metal



Part#: PLUCS2442059S-CDCL 3" Mini Storm Internal, Multi-massage Velocity Metal



Part#: PLUCS2441029S-CDCL 2" Cluster Storm Internal, Twin Velocity Metal



POLY JETS

Part#: PLUCS2443009SS-CDCL 4" Poly Storm Directional Eyeball Metal Velocity



MINIJETS

Part#: PLUCS2442009SS-CDCL 3" Mini Storm Directional Eyeball Metal Velocity



Part#: PLUCS2443039SSCDHL 4" Poly Storm, WW Roto Eyeball Metal Velocity



Part#: PLUCS2444049S-CDCL 5" Power Storm, Twister Velocity Metal



JET INSERTS (Updates)

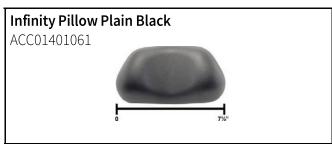






PILLOWS





Water Diverter Valves

Diverter Valve 2" Titanium Black (CS600303T1-TT)

PLU21300465



Diverter Valve 1" Titanium Black (CS600426T1-TT)

PLU21300453



Diverter Valve 1½" On/Off ASSY (600-4601)

PLU21100045



Air Control Valve

Air Control with Titanium Black CS660350T1-TT

PLU21300504



Drains

Drain Super Hi Flo Suction 2½" Black (640-

3581LGV)

PLU21400146



Low Profile Drain 3/4" Black (640-0511)

PLU21400401



Teleweir Skimmer

50 square foot teleweir skimmer: ft. (510-4601)

FIL11700006



Filters

50 sq ft female threaded antibacterial for Teleweir skimmer shown above) FIL11100208



Additional Parts

50 Sq Ft Filter Housing Part#:FIL11700007LC

(Spas built after 6/2024)



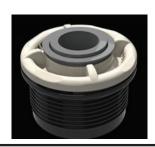
50 Sq Ft Filter Housing Grey Part#: FIL517-4609-CDHL

(Spas built after 6/2024)



DYNA-FLO PLUS FILTER, 75SF 2"CKV 4SCLP; HIGH VOLUME; LESS CARTRIDGE

Part # FIL510-9559-CDCL



TELEWEIR FILTER, 50SF 2"CKV 6SCLP LESS CARTRIDGE 2-TONE CDG/HLG

Part # FIL510-4609-CDCL *Models built from 1/2024-6/2024*



SUCTION

Part #PLU21400203

5"DESIGNER PRO-SUCT. ASSY. 2.5"S 2-TONE, ELL GASK. (EPDM 50 SHORE) &

LOAD WASHER



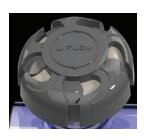
LED Lights 1-LED light string **Part #:** LIT16100330 2-LED light string **Part #:** LIT16100331 4-LED light string **Part #:** LIT16100332 1 to 3 ext. cord LIT16100335 1 to 1 port ext. cord LIT16100338 Interior light with logic (7 LED) LIT16100333 Interior light without logic (7 LED) LIT16100336

Main light housing, LED lens, fitting nut

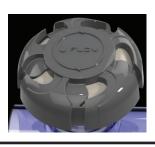
LIT16100336

AIR CONTROL

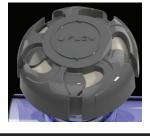
Part # CS6603709-CDHL "Cal Spas 1" Air Control Complete Assembly, Velocity Style, CDG/HLG



Part # PLUCS6054309-CDCL "Cal Spas 1" Air **Control** Complete Assembly, Velocity Style, CDG/HLG"



Part # CS6053309-CDHL "Cal Spas 2 "Top Access Diverter Valve Sub-Assembly, Velocity Style,CDG/HLG"



Cover Lock and Keys Part #: ACC01800026

Additional Parts



75 Sq Ft Filter
Part#: FIL75-5D145H2OE-3

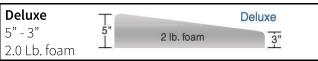


Replacement of Cabinet Panels

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

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.



93" x 141"

Fits spa models: F-1222

COV93141DBK-3 Deluxe Taper Black
COV93141DDB-3 Deluxe Taper Dark Brown
COV93141DG-3 Deluxe Taper Gray

93" x 171"

Fits spa models: F-1420, F-1437

COV93171DBK-3 Deluxe Taper Black
COV93171DDB-3 Deluxe Taper Dark Brown
COV93171DG-3 Deluxe Taper Gray

93" x 200"

Fits spa models: F-1640, F-1770

COV93200DBK-3 Deluxe Taper Black
COV93200DDB-3 Deluxe Taper Dark Brown

COV93200DG-3 Deluxe Taper Gray

93" x 210"

Fits spa model F-1896DL

COV93210DBK-3 Deluxe Taper Black
COV93210DDB-3 Deluxe Taper Dark Brown
COV93210DG-3 Deluxe Taper Gray

93" x 151"

Fits spa model F-1335

COV93151DBK-3 Deluxe Taper Black
COV93151DDB-3 Deluxe Taper Dark Brown
COV93151DG-3 Deluxe Taper Gray

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
Problems starting up		
	Pump won't prime	See priming instructions
	Breaker keeps shutting off	Reset the GFCI breaker. If this continues, contact your dealer or a qualified spa technician.
Р	Power 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
		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
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!

Symptom	Possible Solutions
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.

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
	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	Power may be switched off. Turn the power back on.
stream from any jets)	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.

Pump 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
	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.

Symptom	Possible Solutions
Pump turns off during operation	Automatic timer may have completed its cycle. Press JETS or JETS 1 button to 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 while running	A burning smell may be a sign of damage. Contact your dealer for service.
Pump does not run	Pump may have over heated. Let it cool for an hour and try operating the spa 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.

"Thermal Creep"

Cal Spas are designed with energy-efficient components and systems that are meant to sustain heat generated by the equipment, which is then cycled back into the spa water. In hot weather or in situations where the spa is set to extended run times, Thermal Creep may occur. Thermal Creep is a condition where the measured water temperature can be higher than the set temperature. To manage Thermal Creep you may:

Vent your cover. This means placing a folded cloth about 3/4" (2cm) thick under all four corners of the cover before you lock the cover down.

Open your cover. Opening the cover at night will also quickly cool the water down if desired.

Open all air controls. Set your filtration cycles to run during the cooler times of the day or night.

Reduce the length of your filter cycles.

Visit your local dealer for additional guidance.

Since Thermal Creep only occurs in well-insulated hot tubs, it is not indicative of something that is wrong with your spa or its equipment.

LIMITED WARRANTY

This Limited Warranty is extended to the original purchaser of the spa produced by Lloyd's Material Supply company, Inc. Which Manufactures the Cal Spas brand portable spa manufactured after January 1st, 2025 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.

Swim Spas

Structural	Warrantied against spa shell collapse, leaks caused by the shell, or dangers of structural integrity due to defects in the spa shell.	10 Years
Shell Surface	Warrantied against spontaneous blistering, cracking, or delaminating of the interior spa shell.	7 Years
Equipment & Controls	Electrical Equipment- limited to spa pumps, standard heater, and control system/panels, are warranted against malfunction due to defects in workmanship or materials.	5 Years
Plumbing	Warrantied against leaks/cracks due to defects in workmanship or materials	5 Years
Spa Cabinet	Warrantied against defects in workmanship or materials. Normal wear and weathering of the finish will occur naturally over time and are not defects.	5 Years
Sanitation	Salt cells & bromine generators are warrantied against defects in workmanship or materials, this includes sanitation control panels & electrical.	1 Year
Ozone/UV	Ozone Generators and UV treatment systems are warranted against defects in workmanship and materials. (Excluding UV bulbs older than one year)	2 Years
LED Lighting	LED lights are warranted against malfunction due to defects in workmanship and materials	2 Years
Sound System	The Freedom Sound System is warranted against malfunction due to defects in workmanship and materials. This does not cover normal wear and tear.	1 Year
Spa Cover	The spa cover is warranted against malfunction due to defects in workman- ship and materials. This does not cover normal wear and tear.	3 Years

Warranty for Other Components

The fuses, headrests, cal grip, labels, and filters are warrantied to be free of defects in workmanship and material at the time of delivery. All other factory-installed components not mentioned specifically, including, but not limited to the wood frame, jets, diverter valves, filter lids, and other mechanical components, are warranted against malfunction due to defects in workmanship and material for two years from the original date of delivery. This warranty is void if the spa has endured neglect, chemical abuse, or use of unapproved chemicals or components.

Structural

This limited warranty covers defects within the spas fiberglass structural shell. This includes sudden spa shell collapse, leaking through the shell, and separation between the spa shell and spa acrylic, caused by faulty bonding. This does not include separation due to micro-abrasions, pin holes in the shell, or warping/bubbling due to sun exposure. This limited warranty does not apply when abuse of the spa shell is evident. This includes but is not limited too, heavy impact craters, fractures on the spa surface due to poor spa care, sun exposure, or reckless use of the spa, and chemical abuse of the spa. This warranty does not cover damage caused by unleveled ground. Spas must rest on level ground, ideally on a cement slab of 3-6" of thickness depending on the spa weight. Spas that are not placed on a leveled foundation are prone to cracks, delamination, and compromised structural rigidity of the spa. It is the responsibility of the spa owner to ensure that the spas foundation is leveled and inspected before placing the spa.

Shell Surface

This limited warranty covers defects on the spas acrylic surface due to workmanship or materials. This covers wrinkles on the acrylic, blistering, peeling, delamination, or spontaneous cracking. This warranty does not cover shell damage caused by chemical abuse, improper water chemistry, excessive sun exposure, micro-abrasions, or damage caused by impacts or sharp objects. This warranty does not cover discoloration, or deterioration of the spa shell when exposed to improper chemistry levels, hard water, soft water, or chemical abuse.

Equipment and Controls

This limited warranty covers malfunction of factory installed spa control systems, spa control panels, spa heater, and spa pumps due to defects in workmanship or materials. This covers sudden control box failure, malfunction of control panels or control boxes, malfunctioning heaters, and malfunctioning spa pumps. This warranty coverage is void if the electrical installation of the spa does not follow the outlined diagrams and specifications, mentioned in this manual. Failure to properly follow the specified GFCI requirements, wire type, wire thickness, compliance with NEC guidelines and local codes will void your warranty. This warranty does not cover acts of god or nature that can damage spa equipment, such examples are flooding, lighting strikes, wildfires, or other scenarios out of the control of the manufacturer.

Plumbing

This limited warranty covers leaking of water through plumbing joints, tees, hoses, water features, and jet body grommets due to defects in workmanship and materials. This warranty does not cover damage caused by chemical abuse, improper water chemistry, or use of unapproved chemicals/sanitizers. This warranty does not cover freeze damage caused by frozen water expanding within the plumbing of the spa. The winterization procedure within this manual does not guarantee freeze damage prevention. The best method to ensure the spa does not encounter frozen water within the plumbing is to have the spa operating during the colder months of the year. This warranty does not cover freeze damage or damage to the plumbing due to acts of god and/or nature including but not limited too snowstorms, blizzards, power outages, etc. This warranty does not cover oxidation or warping of jets due to chemical abuse or exposing an empty spa to the elements with no secured cover.

Spa Cabinet

This limited warranty covers defects in workmanship and materials of spa cabinet panels. This warranty applies for warping of spa panels, cracking of corners and panels without clear impact markers, and buckling of spa panels. This warranty does not cover natural wear and tear, which occurs with plastics exposed to the sun. This warranty does not cover panel damage from excessive heat sources, calcium/water-spot build up from sprinklers or irrigation systems, or impact damage. Each claim for spa cabinets are evaluated on a case by case basis, it is the responsibility of the spa owner to acknowledge environmental factors, that can affect the maintenance of the spas cabinet panels. Using plastic spa protectants can prolong the life of your spa panels is highly recommended in high UV index climates. Deterioration/fading of color, natural wear and tear of plastic materials is expected over time, and is not considered a defect in materials. This coverage does not extend nor cover acts of god or nature that can damage spa panels, such examples are flooding, high winds, wildfires, tornadoes or other scenarios out of the control of the manufacturer

Sanitation

This limited warranty covers malfunctions of factory installed Salt Systems and Bromine generators, which are warranted against malfunction due to defects in workmanship or materials. This includes the salt cell, sanitizer control panels, bromine generator, and power supplies for Cal Salt systems. This warranty does not cover negligent operation of sanitizer systems, chemical abuse, damage caused by improper water chemistry, or disregard of specified data points for safe operation; including but not limited to, incorrect ppm levels of salts, excess operating hours of the Cal Salt cell, or improper maintenance of sanitation components. The spa filter is not a part of this warranty, and is considered a disposable item subject to regular wear and tear.

Ozone/UV Systems

This limited warranty covers malfunctions of factory installed Ozone and/or UV water treatment systems. This includes leaks through welded components, water back-flow into the ozone generator, and short circuited Ozone or UV systems. This warranty does not cover UV bulbs that are older than 10 months, the UV light must be replaced every 10-12 months as this is normal wear and tear of component. This warranty is voided if alterations/modifications of these systems are evident, or if the spa electrical connections were not installed in accordance to defined specifications within this manual, evidence of chemical abuse, and acts of god and/or nature.

Sound System

This limited warranty covers malfunctions of factory installed sound system components. This includes the sub-woofer/amplifier, speakers, speaker grills, power supply, or Bluetooth antenna. Natural wear and tear of speaker cones is not covered by this warranty, nor are deterioration of speakers exposed to chemical abuse.

Spa Cover

The spa cover is warranted against defects of materials and workmanship for the defined period mentioned in this warranty. Exposure to UV rays on untreated or poorly maintained spa covers are not covered by this warranty. It is the responsibility of the spa owner to use spa UV plastic protectants on their spa covers, especially in high UV index climates. Exposure to UV light without proper treatment leads to problems such as cracking/peeling of vinyl covers, and sudden fading of color. This warranty does not warrant against damage caused by chemical abuse, nor yellowing or oxidation of the spa cover when exposed to excess sanitizer. If a defect is found within the first 90 days of ownership, your Cal Spas dealer and Cal Spas can directly assist the spa owner filing a claim and replacing the spa cover if deemed necessary. Spa owners with spa covers past the 90 day period that are discovered to have a defect, can contact your Cal Spa dealer to begin the process of filing a claim. When filing a claim of a spa cover than is older than 90 days, this warranty will cover the material cost of issuing a new vinyl sleeve for the cover, and/or replacement foam for your cover. Shipping/freight costs are not covered in this warranty, and are the sole responsibility of the spa owner. Images of the cover from all sides including the top and underside are necessary to file a claim.

Genuine Cal Spas Parts & Accessories

This Limited Warranty is void if Lloyd's Material Supply Company, Inc., Manufacturer of the Cal Spas brand 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, replacement 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. Only parts/components approved by Cal Spas should used when preforming a warranty repair. If parts are required to complete a warranty claim, the cost of the parts are covered by this warranty. Approved labor and genuine part costs are covered when a warranty claim is approved, the cost of shipping parts/components is not covered by this warranty, and its the sole responsibility of the spa owner.

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 Spas 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. Parts and components can be shipped to the servicing dealer or to the customer. The servicing dealer may charge the owner a travel/service fee as well as a diagnose fee if the cause of the issue is unknown, these charges are not covered under warranty. Your spa dealer nor Cal Spas is responsible for damages or costs to rebuild decks, cement structures, or other decor/structures placed against the sides of the spa. Minimum clearance of 3 feet on each side is mandatory for all spas. In the event that the spa is removed to a repair facility for repair and reinstalled, the cost of removal and re-installation will be your responsibility as the spa owner. If Lloyd's Material Supply Company Inc., The manufacture of the Cal Spa brand determines that repair of the covered defect is not feasible, it reserves the right to provide a replacement spa of equal or lesser value to the original purchase price. 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 spa will be the responsibility of 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 of the spa, relocation, or installation of any component other than by the manufacture. If the desired spa is more expensive than what the spa owner originally financed or paid for, the price difference shall be paid by the spa owner. Additional costs can be incurred if the use of heavy machinery such as a crane, bulldozer, etc, is considered necessary to access, remove, or perform a repair/correction to the affected spa.

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; or if the failure is caused by accident, acts of God or other causes beyond the control of the Manufacturer including acts of nature (damage caused by animals, rodents, or other pests) are not covered by this warranty. Additionally; the limited warranty is void for spas that were subject to neglect, misuse and abuse including 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, chemical balancing, the use of abrasives or improper cleaners, and the use of 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 Lloyd's Material Supply Company Inc, or a designated Cal Spas representative. This Limited Warranty is void if damage occurs to the spa shell because of excessive heat buildup due to failure to cover a spa that is empty of water while exposed to direct sunlight.

Proration of Warranty

Units determined by the manufacture to be non-repairable will be replaced on a prorated basis with the same or a comparable unit. The owner will be charged 1% of the current retail cost for each full month of ownership from the date of purchase through the date failure is determined to be non-repairable. This charge will be waived during the first 6 months of ownership. [example]: Product failure is determined during seven months of ownership. Owner will be responsible to pay for 7% of the products current cost. As the spa owner you have the choice to replace the spa, with a spa equal to or less than the value of the originally financed/purchased spa; if the desired replacement spa is of a higher cost than the originally financed/purchased spa, the spa owner will pay the difference of price, including any percent value lost over time through the spas proration period. The cost of shipping a new spa and its installation is not covered by this warranty as stated in the "Performance" section of this warranty.

Limitations

The manufacture disclaims all warranties, expressed or implies, 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 manufacture or its designated representative using authorized Cal Spas 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 manufacture 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. Extended warranties or care plans offered to you by a spa dealer is an agreement strictly between the spa owner and the spa dealer, out of the control of the manufacture of Cal Spas.

Disclaimers

Lloyd's Material Supply Company, Inc., Manufacture of Cal Spas brand 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 produce even if the manufacture was advised of the possibility of damage. The liability of the manufacture 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 manufacture 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 depending on consumer regulations. Some states do not allow limitations on how long an implied warranty lasts, so this time limitation may not apply to you.

Additional Disclaimers

Spa owners who have purchased a Cal Spa, and the spas final resting place is not in the United States or Canada, Cal Spas will be able to send components and parts directly to the spa customer if the original Cal Spa dealer is not within range of the spa. It is the responsibility of the spa owner to find a experienced electrician, plumber, or technician to perform the necessary repairs. A preliminary over the phone technical meeting with a Cal Spas representative is necessary, to ensure the experienced laborer is familiar with the spas operation, and recommended repair methods. Labor costs of a repair in such circumstances must be first approved by a Cal Spas representative, before moving forward with any repairs covered in this warranty. It is advised to request a labor quote from said experienced laborer, and to send this quote to a Cal Spas representative. If all prerequisites are met and the repair is approved, Cal Spas will reimburse the cost of labor directly to the spa owner upon completion of repairs. Reimbursements of charged labor will be sent as a check to the spa owners residence, with a varying estimated disbursement window.

For all repairs/warranty claims within the United States and Canada and other nations, may be required to send parts/components back to Cal Spas when deemed necessary. In some circumstance where shipping the component/part is necessary, Cal Spas will provide a shipping label to send the affected or requested components/parts. It is the responsibility of the spa owner to properly package and secure the package for shipping. In some circumstances only images and proof of purchase would be necessary to file a warranty claim, in such circumstances if a Cal Spas representative deems that the parts do not have to be returned, follow all local regulations and laws to properly dispose of said components.

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Visit our website www.calspas.com. or scan the QR code or purchase accessories and spare parts at www.quickspaparts.com



CONTACT INFORMATION

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

Lloyd's Material Supply Company, Inc. Customer Service Department 1462 East Ninth Street Pomona, CA 91766.

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