

OWNER'S MANUAL

Fitness Spa with Pro-Trainer (SP2) Option

2018



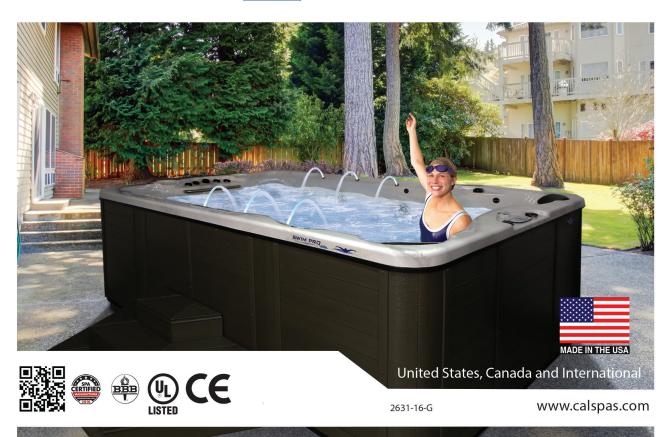


Table of Contents

Important Safety Instructions 1	2. Sanitation and Shock28
Preparing for Your New Portable Spa . 2 Pre-Delivery Checklist	3. Filtration

Copyright 2018 LMS. All rights reserved. Duplication without written consent is strictly prohibited.

Cal Spas® and Freedom Sound System™ are registered trademarks.

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

LTR20181002, Rev. E 5/17/18

CONTACT INFORMATION

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

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

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

Important Safety Instructions

READ AND FOLLOW ALL INSTRUCTIONS.

DANGER -- Risk of accidental drowning:

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

DANGER -- Risk of injury:

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

Never operate the spa if the suction fitting or filter baskets are broken or missing. Never replace a suction fitting with one that is rated less than the flow rate marked on the original suction fitting.

DANGER -- Risk of electric shock:

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

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

Replace a damaged power cord immediately.

Do not bury the power cord.

Connect to a grounded, grounding-type receptacle only.

WARNING -- To reduce the risk of injury:

The spa water should never exceed $104^{\circ}F$ ($40^{\circ}C$). Water temperatures between $100^{\circ}F$ ($38^{\circ}C$) and $104^{\circ}F$ ($40^{\circ}C$) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.

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

The use of alcohol, drugs or medication before or during

spa use may lead to unconsciousness, with the possibility of drowning.

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

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

HYPERTHERMIA DANGER:

Prolonged exposure to hot air or water can induce hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level $3\,^\circ\text{F}$ to $6\,^\circ\text{F}$ above the normal body temperature of $98.6\,^\circ\text{F}$ (or $2\,^\circ\text{C}$ to $4\,^\circ\text{C}$ above $37\,^\circ\text{C}$). While hyperthermia has many health benefits, it is important not to allow your body's core temperature to rise above $103\,^\circ\text{F}$ ($39.5\,^\circ\text{C}$).

Symptoms of excessive hyperthermia include dizziness, lethargy, drowsiness and fainting. The effects of excessive hyperthermia may include:

- Failure to perceive heat
- Failure to recognize the need to exit spa or hot tub
- Unawareness of impending hazard
- Fetal damage in pregnant women
- Physical inability to exit the spa
- Unconsciousness

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

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

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

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

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

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

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

SAVE THESE INSTRUCTIONS.





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 your spa.

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

Planning the Best Location

Safety First

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

Consider How You Will Use Your Spa

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

Plan for Your Environment

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

Consider Your Privacy

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

Provide a View with Your Spa

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

Keep Your Spa Clean

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

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

Allow for Service Access

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

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



Preparing a Good Foundation

Your spa needs a solid and level foundation. The area that it sits on must be able to support the weight of the spa, with water and the occupants who use it. If the foundation is inadequate, it may shift or settle after the spa is in place, causing stress that could DAMAGE YOUR SPA SHELL AND FINISH.

Damage caused by inadequate or improper foundation support is not covered by the warranty. It is the responsibility of the spa owner to provide a proper foundation for the spa.

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

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

If you are installing the spa indoors, pay close attention to the flooring beneath it. Choose flooring that will not be damaged or stained.

If you are installing your spa on an elevated wood deck or other structure, it is highly recommended that you consult a structural engineer or contractor to ensure the structure will support the weight of 150 pounds per square foot (732 kg / m2).

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



12" / 30 cm minimum distance from edge

Opening the Front Door Panel for Electrical Hookup

The following electrical connections must be performed by a licensed electrical contractor. Unscrew and remove the two corner panels on each side of the spa's front door.







Reach in and pull the drain assembly through by a few inches. Carefully unscrew the black outer drain knob and then unscrew and remove the front door panel.

Pictured to the right is the inside of the spa behind the front door. The electrician now has access to connect the spa for power. While the front door is off, refer to page 6 for instructions on ensuring the plumbing fittings are secure (but do not be tempted to over-torque or over-tighten these fittings).



Pull the drain pipe through the front door panel, reattach the black outer drain knob and pull the drain assembly back inside so that the knob is flush with the panel again. Reattach and screw panels back in. (Front door first, then corner panels)



240 Volt Electrical Installation

All 240V spas must be permanently connected (hard wired) to the power supply. See the GFCI and wiring requirements on page 5.

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

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

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

Failure to comply with state and local codes may result in fire or personal injury and will be the sole responsibility of the spa owner.

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

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

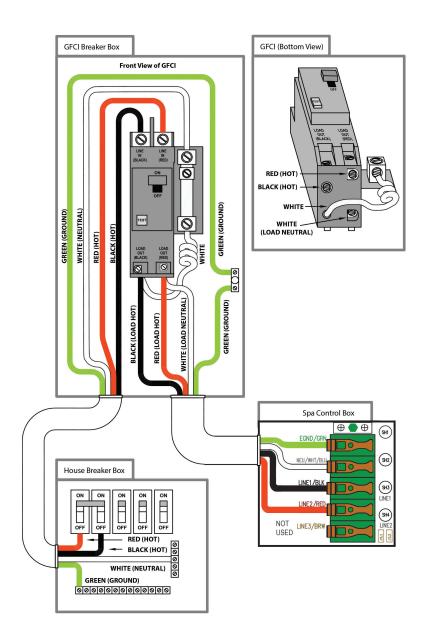
Use the table below to determine your GFCI and wiring requirements.

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 Requirement/GFCI Wiring Diagram for US & Canada

Control System	GFCI Required	Wires Required
NEO 2100	One 60 amp GFCI - SIEMENS brand	Four #6 AWG copper wires



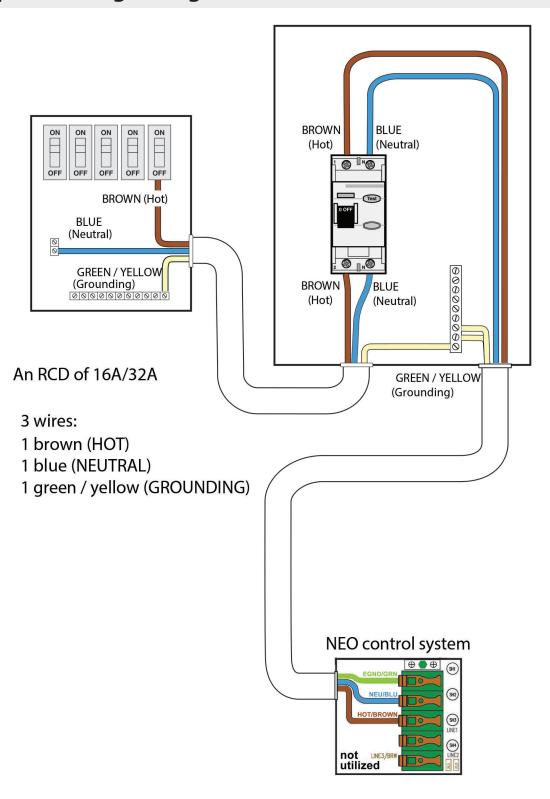
See the Cal Spas Pre-Delivery Guide for more information on spa placement for service access and electrical service.

www.calspas.com/manuals





European Wiring Configuration





120 Volt Electrical Installation

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

Use only a dedicated electrical line with a 15 amp

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

Always use a weatherproof-covered receptacle.

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

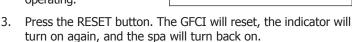
Do not bury the power cord. If your cord becomes damaged, replace it before next usage.

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

Testing the GFCI plug

Test the GFCI plug prior to first use and periodically when the spa is powered.

- Plug in the GFCI into the power outlet. The indicator should turn on.
- Press the TEST button. The GFCI will trip, the indicator will turn off, and the spa will stop operating.



The spa is now safe to use.

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



Testing the 240 Volt GFCI Breaker

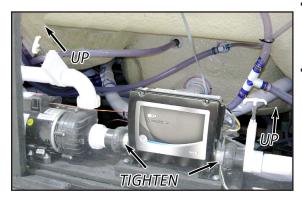
Test the GFCI breaker prior to first use and periodically when the spa is powered. To test the GFCI breaker follow these instructions (spa should be operating):

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

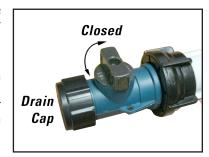
Filling and Powering Up Your Portable Spa

1. Inspect the spa equipment.

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



- Make sure unions in the equipment pack are tight. (Be careful not to over-tighten the plumbing fittings.)
- If your spa has gate valves, make sure they are all in the UP or OPEN position.
- Make sure the drain valve is closed and capped. (See page 37 for a description of drain valves.)





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



2. Remove the cartridge from filter canister.

If you have a skimmer like this:

Grip the filter by the handle and unscrew it from the canister. Never try to pull the filter cartridge while the spa is running in low or high speed (i.e., any speed).



If you have a skimmer like this:

Remove the black skimmer cap and barrel, grip the filter by the handle and unscrew it from the canister.



Teleweir Mega filter skimmer

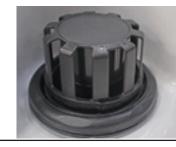
- 75 square feet filtration
- Smooth cap

If you have a skimmer like this:

Rotate and remove the black locking ring. Remove the black skimmer cap and barrel, grip the filter by the handle and unscrew it from the canister.

Replace and lock the locking ring and slide the skimmer cap and barrel back in the canister.

Note: The skimmer cap and barrel were locked in place at the factory to prevent damage during shipment. It must be unlocked and replaced in the filter canister so that it can float when the spa is filled. If you do not remove the cap and barrel, your spa's filtration system will not perform as it was designed to.



Teleweir filter skimmer

- 50 square feet filtration
- Spoked cap



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

3. Fill the spa.

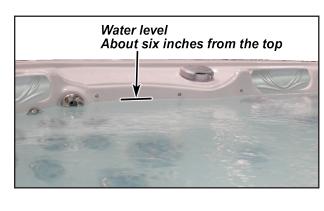
Place a garden hose in the filter canister and fill your spa.

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



Fill the spa until water level is about six inches from the top.

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





Never fill your spa with soft water.

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

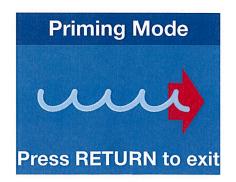


4. Turn on power to the spa.



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

5. Prime the pump.



The system will enter the priming mode. **Priming Mode** will display on the control panel. In Priming Mode, all devices such as jets and lights are operable. Jets can be turned on and off to help prime the pump. The system will exit Priming Mode and go to the Main display when the RETURN button is pressed, or after four minutes of inactivity.

6. Install the filter into the filter canister.



Make sure the filter has soaked at least 30 minutes before you install it. Insert the filter all the way and screw it in. Do not over-torque the cartridge during installation, just hand tighten gently.



7. Adjust water chemistry.

Test and adjust the water chemistry. See the section on page 21 for instructions on keeping your water clear.

Spa owners with the bromine generator need to follow the instructions on page 34.

8. Let the spa heat up.

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



Priming the Pump

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



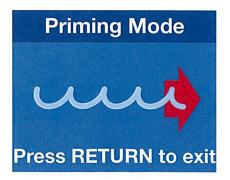
The pump will not work properly while air is trapped in it. Continuing to operate the pump in this way will cause damage.

Sometimes air can become trapped in the pump while filling the spa. You will know this has happened when after you have filled and started the spa, the nump does not seem to function. You will hear the nump operating but

the pump does not seem to function. You will hear the pump operating, but no water will be moving.

Starting Up: Priming Mode for NEO-Pack Systems

The system will enter the priming mode. **Priming Mode** will display on the control panel. In Priming Mode, all devices such as jets and lights are operable. Jets can be turned on and off to help prime the pump. The system will exit Priming Mode and go to the Main display when the RETURN button is pressed, or after four minutes of inactivity.



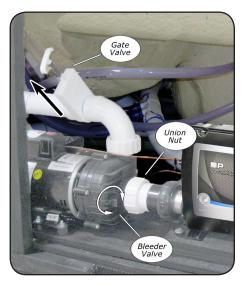
Exiting Priming Mode for NEO-Pack Systems

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

Bleeding Air from the Pump

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

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





Operating Your Spa

NEO Control Panel Operation

Primary Navigation and Functions of NEO Two-pump System





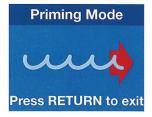
MAIN SCREEN:

The main screen displays current time, water temperature, and status of the system accessories. The screen below from bottom, left to right indicates LIGHT ON, BLOWER ON, JET 1 at low speed.

PRIMING MODE:

When power is ON, the system will enter a priming mode with priming screen display on the panel. In this mode, all devices such as JETS, BLOWERS or LIGHT are operable. JETS can be turned on and off to prime the pump. System will exit priming mode and go to MAIN display when RETURN button is pushed, or after 4 minutes of inactivity.







SPA OPERATION:

Turn system accessories ON and OFF by pushing appropriate button on the right side of panel (LIGHT, JET 1, BLOWER, JET 2...) These accessories have timeout defaults from the manufacturer and will turn OFF automatically after the time has expired. Timeout time for LIGHT default is 60 minutes; BLOWER default is 15 minutes; JET at low speed default is 60 minutes; and JET at high speed is 15 minutes. User can change these default times in "DEVICE TIMEOUT" setting menu.

MENU NAVIGATING:

- MENU button: use to enter setting menu and sub-menu screens. For screens with several settable fields (example: DATE-TIME screen), use MENU button to navigate between different fields within the screen.
- UP and DOWN button: use to navigate between different options or changing values of a field.
- RETURN button: use to confirm the setting and goes back to previous screen.

SETTING TEMPERATURE:

To change water set temperature, use UP and DOWN buttons to set the desired temperature. The screen will display "SET TEMP" with the current set temperature. After 5 seconds without any change to the set temperature, the screen will reverse back to MAIN screen with current water temperature display. Changing set temperature will make heat pump turn on to get accurate water temperature to determine if water needs to be heated up.



Control Panel Quick Reference

- 1. Press UP button to set desired temperature, If in a MENU mode, then the UP to navigate the screen up.
- 2. Press DOWN button to set desired temperature. If in a MENU mode, then the DOWN to navigate the screen down.
- **3.** Press **MENU** button to get into the **MENU** for setting. Use **UP** or **DOWN** button to navigate, press **MENU** button then **UP** or **DOWN** button to set your desire. Refer to your Instruction Manual for additional details.
- 4. Press RETURN button to activate or back to previous setting.
 Optional: The RETURN button can be used for BLOWER, JET or AUX
- Press LIGHT button, the Spa Light turns ON, press LIGHT button again, the Spa Light turns OFF.



Default Timeout setting: Spa LIGHT is 60 minutes; BLOWER is 15 minutes, JET at low speed is 60 minutes; and JET at high speed is 15 minutes. User can change these default times in DEVICE TIMEOUT setting menu.



SELECTION ICONS:



ENERGY SAVING HEAT MODE



FILTER CYCLE 2





3 FILTER CYCLE 3





4 FILTER CYCLE 4

















HEATER START-UP

PANEL TIMEOUT:

If user is in Setting Menus and no button is pushed within 15 seconds, the screen will timeout, current screen setting will be lost and panel reverts back to MAIN screen.

In MAIN screen, if no buttons is pushed within 60 minutes, all LED and LCD lights will turn off and panel goes to sleep. Any button pushed in this time will wake the panel up, LED and LCD lights will turn back on and panel will poll for water temperature.

ENTER SETTING SCREENS:

Press MENU button to display a list of set up screens.

Use UP and DOWN to navigate between various set up screens.

Press MENU again to enter a particular set up screen or press RETURN to goes back to MAIN screen.

Rotate View
Special Temp
Heat Mode
Filter Cycles
Date-Time

Rotate View
Special Temp
Heat Mode
Filter Cycles
Date-Time

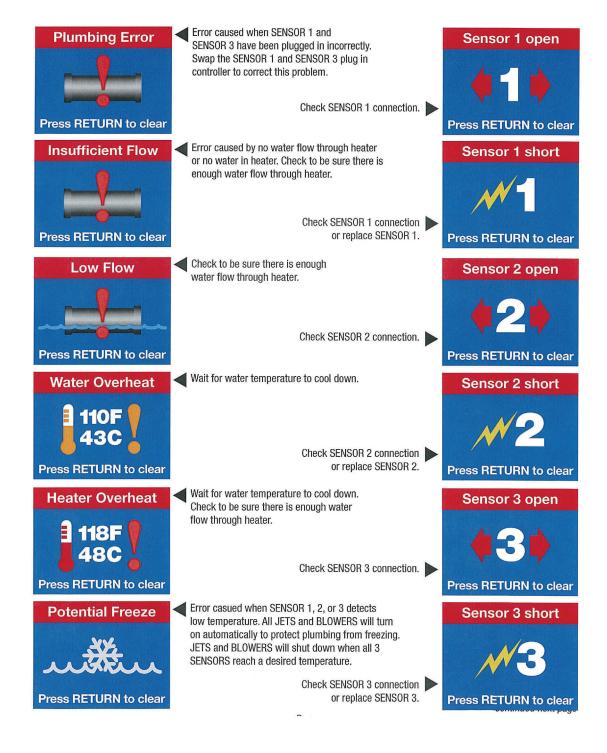


Settings Screens

- ROTATE VIEW: rotate the view 180 degrees, the UP and DOWN buttons also swap when rotated. With ROTATE VIEW highlighted, press MENU to enter ROTATE VIEW setting. Use UP/DOWN to select desired setting and RETURN to exit and confirm the setting.
- SPECIAL TEMP: to temporarily heat spa to 105°F or 106°F once, and return to previous temperature setting. With SPECIAL TEMP highlighted, press MENU to enter SPECIAL TEMP setting. Use UP/DOWN to select the desired setting and RETURN to exit and confirm the setting.
- **HEAT MODE:** select STANDARD heating mode for most users or ENERGY SAVING mode (reduces polling for water temperature) or VACATION mode (set temp set to 60°F). With HEAT mode highlighted, press MENU to enter HEAT mode setting. Use UP/DOWN to select the desired setting and RETURN to exit and confirm the setting.
- FILTER CYCLES: set up filter cycle START TIME, DURATION and DATE for filtering the spa. For FILTER CYCLE 1 and 2, if DURATION is set to ZERO the system will do a purge cycle at the start time setting. With FILTER CYCLE highlighted, press MENU to enter FILTER CYCLE 1, 2, 3, or 4 setting. Select a FILTER CYCLE and press MENU again to enter TIME/DURATION setting screen. In this screen, press MENU to move between HOURS, MINUTES and DAYS setting; use UP/DOWN to change the values and RETURN to exit and confirm the setting. FILTER CYCLES 3 & 4 default OFF. To select it, enter START TIME, DURATION and enable ALL DAY or specific day for both FILTER CYCLES 3 & 4.
- DATE-TIME: set up date and time for the spa. With DATE-TIME highlighted, press MENU to enter DATE-TIME setting. In this screen, pressing MENU will move and highlight various fields that can change the setting; UP/DOWN to change the values and RETURN to exit and confirm the setting.
- **DEGREE F/C**: displays spa temperature in Celsius or Fahrenheit. This option is only available for 60 Hz countries. Unit automatically displays Celsius for 50 Hz. With DEGREE F/C highlighted, press MENU to enter DEGREE F/C setting. Use UP/ DOWN to select the desired setting and RETURN to exit and confirm the setting.
- TIME DISPLAY: displays spa time in AM/PM or 24 hours time. With TIME DISPLAY highlighted, press MENU to enter TIME DISPLAY setting. Use UP/DOWN to select the desired setting and RETURN to exit and confirm the setting.
- DEVICES TIMEOUT: allows changes to timeout setting for various devices. LIGHT can be set to a maximum of 4 hours; PUMP in high speed
 and BLOWER can be set to a maximum of 1 hour; and PUMP in low speed can be set to a maximum of 2 hours. With DEVICES TIMEOUT
 highlighted, press MENU to enter and select various devices setting. Use UP/DOWN to select the desired time setting and RETURN to exit
 and confirm the setting.
- PANEL LOCK: provide a choice to select PANEL LOCK for locking all panel buttons except MENU button; use TEMP LOCK to lock UP/DOWN
 button for changing set temperature; and MENU LOCK to lock MENU button (push and hold MENU button more than 15 seconds to unlock
 the Menu). With PANEL LOCK highlighted, press MENU to enter PANEL LOCK setting. Use UP/DOWN to select the desired setting and
 RETURN to exit and confirm the setting.
- NO HEAT TIME: set the time frame for not allowing heater to turn on. With NO HEAT TIME highlighted, press MENU to enter NO HEAT TIME setting. In this screen, pressing MENU will move and highlight various fields that can change the setting; use UP/DOWN to change the values and RETURN to exit and confirm the setting.
- SERVICE MODE: only available for Authorized Dealers and Spa Manufacturer.
- DEMO MODE: to demonstrate all device capabilities of the spa. With DEMO MODE highlighted, press MENU to enter MODE setting. Use UP/DOWN to select the desired setting and RETURN to exit and confirm the setting.
- **GENERAL INFORMATION:** displays general information for the spa. With GENERAL INFORMATION highlighted, press MENU to enter GENERAL INFORMATION menu. Use UP/DOWN to view different pages and information and RETURN to exit the page. Screen will indicate which plug should be inserted to correct side connector.
- LANGUAGES: to select various languages for the spa display. With LANGUAGES highlighted, press MENU to enter and select a specific language. Use UP/DOWN to select the desired setting and RETURN to exit and confirm the setting.
- SERENITY MODE: set to turn off all outputs and provide quiet while in spa. With SERENITY MODE highlighted, press MENU to enter and select a specific time. Use UP/DOWN to select the desired time setting. Press MENU again to navigate to EXIT/START. Select the desired option and RETURN to exit and confirm the setting.
- ENERGY INTERVAL: only available for Non-Circ systems. With ENERGY INTERVAL highlighted, press MENU to enter ENERGY INTERVAL
 setting. Use UP/DOWN to select the desired minutes setting and RETURN to exit and confirm the setting.
- **CLEANER CYCLE:** only available for Non-Circ systems. To turn on filtration after using the spa for short cleaning period. With CLEANER CYCLE highlighted, press MENU to enter and select a specific duration. Use UP/DOWN to select the desired time setting. Press Menu again to navigate to Exit/Start. Select the desired option and RETURN to exit and confirm the setting.
- Reset Wi-Fi: only available with Wi-Fi module in the system. To reset Wi-Fi network setting in Wi-Fi module. With RESET Wi-Fi highlighted, press MENU to enter. Use UP/DOWN to select the desired setting and RETURN to exit and confirm the setting.



Error Screens





Operating the NEO Wi-Fi App

To connect and operate your Smart Device with Waterway Spa Pack WiFi please follow these instructions:





- 1. Download and install the App from App Store or Google Store.
- 2. Click on Create an Account.





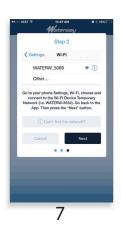
- 3. Enter your email address, password, confirm and submit.
- 4. Click on Configure a Device.





- 5. Make sure your Spa Control pack is powered on and press Next.
- 6. Go to your phone setting, WiFi, and connect to the Waterway Wi-Fi device temporary network. For example: WATERW-XXXX.







- 7. Go back to the App, press Next.
- 8. Select your home network from the list (If your network name is not on the listed, it can be entered manually).





- 9. Enter your home network password and press Connect.
- 10. Then the device will configure and connect to your home WiFi network and the Worldwide Web, Press OK .





- 11. Click on configured Waterway Wi-Fl device, i.e. WATERW-XXXX.
- 12. Now you can control your spa from anywhere in the world using your smart phone. You can set the temperature, heating operation mode and turn the light ON/OFF. In order to access the application menu press ON in top left corner.

 11:3



Connecting to a Device or Network



Direct connection

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







HOW TO CONNECT TO IT:

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

Through home network with no internet access



Allows one local connection at a time

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









HOW TO CONNECT TO IT:

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

Through a network with internet access, using Cloud connection or other hotspot connection

Allows unlimited simultaneous connections

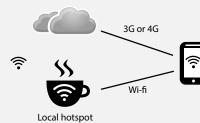
Range: Worldwide

Range limit: Limited to 3G / 4G / hotspot

availability







Internet

HOW TO CONNECT TO IT:

Follow connection instructions from section (2) above. The Cloud icon appears automatically when network connection is made. You can then connect to the spa's wi-fi module.







Phone or

device







Internet cloud Local wi-fi connection

Jets

Almost all of the jets in your spa are adjustable. Rotating the face of an adjustable jet to the left (counterclockwise) 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 here.)

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





Swim Spa and Swim Workout Instructions



1. Press the **SWIM** button to turn the pump **ON** – the blue **SWIM** icon on the LCD screen turns **ON**.



Swim Speed

5%

1 **

2. Then press UP or DOWN button to select your desired SPEED %.

3. Press the **SWIM** button again to turn **OFF** the pump – the blue **SWIM** icon on the LCD screen turns **OFF**.



Swim Workout Programming

Rotate View
Special Temp
Heat Mode
Filter Cycles
Date-Time

1 • To program the SWIM WORKOUT; press the MENU button; then UP button and select SWIM WORKOUT by pressing the MENU button to get to the SPEED 1 setting.

2. Press the UP or DOWN button to select the SPEED % for SPEED 1; then press the MENU button to select DURATION in minutes; then press the MENU button twice to get to SPEED 2.



Swim Workout



Speed 1
Speed:

5%
Duration:
20 Min >>







3. Press the UP or DOWN button to select the SPEED % for SPEED 2; then press the MENU button to select DURATION in minutes; then press the MENU button twice to get to SPEED 3.



4. Press the UP or DOWN button to select the SPEED % for SPEED 3; then press the MENU button to select DURATION in minutes; then press the MENU button twice to get out of SPEED 4. Repeat this step for up to 10 speed settings.



5. Press the UP or DOWN button to select the SPEED % for SPEED 4; then press the MENU button to select DURATION in minutes; then press the RETURN button twice to get out of SWIM WORKOUT screen.



6. Press the SWIM WORKOUT button to turn ON the pump – the red SWIM icon on the LCD screen turns ON. The WORKOUT feature will activate to cycle each of the SPEED setting and specific DURATION setting for WORKOUT. If you need to increase or decrease the pump speed manually; then press the UP or DOWN button to your desired SPEED % in each cycle.



7. Press the SWIM WORKOUT button again to turn OFF the pump – the red SWIM icon on the LCD screen turns OFF.



ATS Plus Therapy System



Pump On / Off Button:

Press this button once to turn on the ATS pump. The pump will turn on full speed with letter "H" displayed in the seven segment LED, the Pump LED light on the control panel will appear and the back light will turn on if it was off previously. Press this button a second time to turn off the ATS pump, the Pump LED light, and clear the seven segment display. The ATS pump must be on before you can use any other features of this system.

Pulse Mode Button:

Press this button once to turn on the pulse mode. The last pulse mode number will be displayed and the ATS pump will run in the pulse mode that it displays. There are total of 9 pulse modes and user can choose the Up or Down button to select the desired pulse mode. Press this button a second time to turn off pulse mode and return to normal pump on with letter "H" displayed. See the image for 9 pulse mode descriptions.

Up / Down Buttons:

These buttons only activate when pulse mode is on. They allow you to cycle through 9 pulse modes. At the end of pulse mode 9, if the Up button is pushed the system will go to "DEMO" mode. In DEMO mode, the system will cycle through all 9 pulse modes with 30 seconds for each mode and flashing letter "d1" through "d9" while cycling through each pulse mode. At the end of demo pulse mode 9, the system will exit the demo mode and return to normal Pump On with letter "H" displayed.

Time Out:

The Pump On will run for 15 minutes, then automatically shut off. If the Pulse Mode button is pressed during this time, the timer will reset and allow Pulse Mode to run for 15 minutes, then automatically shut off. For another 15 minutes session, press the Pump On and the Pulse Mode button. Back light will timeout 30 minutes after Pump Off.

Pump Protection:

If the pump is getting too hot during pulse mode (or after stop), the Pulse Mode will stop and ATS system will automatically go to a cool down cycle. During cool down cycle, the pump will turn on full speed with flashing letter "C" displayed in the panel. The ATS system will run until pump temperature goes down and then turn off. Pulse Mode is disabled during cool down cycle and cool down cycle will take between 10 to 30 minutes.

Pump Purge:

To prevent water stagnantion for a long time in the ATS system, the ATS system will purge water once a day. Every 24 hours from the last system run, the ATS system will turn on full speed for 20 seconds with flashing letter "P" displayed in the panel.



1	Annanananananananananananananananananan
2	Medium continuous bursts
3	Accelerated continuous bursts
4	1111111111111111111111111111111111111
5	3 gentle bursts followed by 1 vigorous burst
6	Quick, powerful continuous bursts
7	Gentle, powerful alternating bursts
Q	7-7-7-7-

Medium low rolling bursts

Extended low rolling bursts

ATS Sensor:

ATS sensor is used to monitor temperature to prevent ATS system from freezing or getting too hot. If temperature is too cold, the ATS system will turn on full speed with flashing letter "F" displayed in the panel. If it is too hot, the system will turn on full speed with flashing letter "C" displayed in the panel. In these cases, it will run until pump temperature goes back to normal and the system will shut down automatically.

If ATS sensor is not connected or not mounted to the system correctly, a flashing letter "E" will display in the panel when system is not running. With sensor error (flashing "E"), ATS system is still be able to operate normally but after the first 15 minutes of pulse mode, a flashing "L" will display in the panel. After the second 15 minutes of pulse mode, the system will force a cool down cycle for 30 minutes before user can use it again. There will be no freeze protection for sensor error and in some pulse modes the system will run very hot so user should fix the problem as soon as they can to enhance the pump life.



Aquatic Air Therapy™ (AAT)

AQUATIC AIR THERAPY™ JETS

The Aquatic Air Therapy™ (AAT) Jets in conjunction with the massage ring provides a massage therapy experience for sore muscles or aching joints (Available only in select areas of spa).



The Flex Jet™ delivers a gentle but strong stream of water to more delicate areas of the body including wrists, joints and extra sensitive muscles. Experience immediate alleviation from the massage ring included on the Flex Jet™.



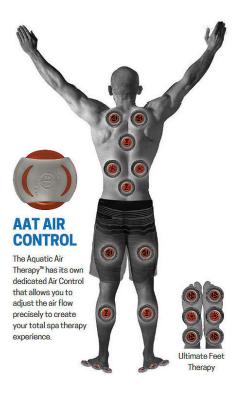
DUO JET

The Duo Jet™ is perfect for larger parts of your body including lower back, legs and shoulders. Place your back on the the Duo Jet™ for a complete rehabilitating massage therapy experience.



PRECISION JET™

The Precision Jet™ emits the perfect combination of air and water to target specific problematic areas while a soft massage ring provides relief on contact. Relieve muscle tension and soreness with the Precision Jet™.



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 to the next color in sequence or eventually a different light pattern.
- **2. Flashing:** When you are cycling through all the colors, the next time you push the LIGHT button, the LED lights may start flashing. This is another normal operational pattern option.

- **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 and water valve is equipped with 4 LED points.
- Every jet 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, or in most cases from floor jets to wall jets. This is accomplished by rotating the diverter knob to the left (counterclockwise), decreasing the amount of water flow through a section of jets. To increase the amount of water flow through the other section of jets, rotate the handle to the right (clockwise).





Air Venturis

Air venturis are the 1" knobs located around the top of your spa. Each one will let you add a mixture of air with the jet pressure. This is accomplished by rotating the air venturi knob to the left (counterclockwise) to increase the amount of airflow through the jets. To decrease the amount of airflow through the jets, rotate the handle to the right (clockwise).





Waterfalls

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



Hydro Streamer Waterfall

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 with no experience with water chemistry. Everyone's experience with maintaining water quality is different, but there are some general concepts you need to know.

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

Before you begin, we recommend you become familiar with some water quality terms and their definitions (see next

Whether you're filling your spa for the first time (see page 7) or refilling it after draining it for regular maintenance (see page 37), start and maintain your spa water by following the plan we describe in this section.

1 Chemical Balance

See page 26 to learn how to balance your spa water.



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

You need to test the level of calcium hardness, total alkalinity, and pH.

Spa owners with a bromine generator also need to check total dissolved solids and phosphates.

3 Filtration

See page 29 for filter cleaning instructions.



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

A clogged or dirty filter will cause the heater and pump to work harder than they need to, possibly causing them to fail.

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

Sanitation and Shock

See page 28 to learn how to use sanitizer and shock.



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

You also need to add shock to the water to stimulate the chemical sanitizer. How much you use and how often depend on frequency and intensity of use.

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

Regularity

See page 30 for the schedule of recommended maintenance.



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

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

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. See page 28 for discussion on sanitizers.

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. See page 28 for discussion on **sanitizers**.

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. See page 26 for testing for and balancing calcium hardness.
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 26 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 . See page 28 for discussion of sanitation.
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. See page 27 for discussion of shocking the 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. See page 25 for testing for and balancing total alkalinity.
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.



Adding Chemicals to the Spa Water

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 directly into or in front of the filter compartment while a jet pump is running, and it must run for a minimum of ten minutes.

- 1. Fold back the cover.
- Press the **Jets** or **Jets 1** button.
- 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, in your eyes, on the spa surface, or on the siding.
- 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 to 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. 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.

1. Balancing the Water Chemistry Levels

Maintaining spa water chemistry can be tricky, especially since there are many methods of keeping your water clear and clean. Follow the maintenance schedule on page 30 to determine how often you should test your water.

We do not recommend any brand of chemical. See page 30 for a table of common chemicals used in spas and their generic equivalents.

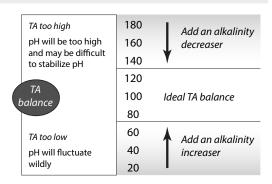
See a spa dealer for guidance and recommendations on spa chemicals and supplies. Various chemicals often sold under brand names, but a spa dealer can advise you on generic chemicals that are often much less costly than proprietary brands.

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 water's "pH buffer". In other words, it's a measure of the ability of the water to resist changes in pH level.

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

If the Total Alkalinity is too high, the pH level will tend to be high and may be difficult to bring down. It can be lowered by using sodium bisulfate(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 the spa's water. That's why calcium-low water (commonly known as "soft" water) is not recommended. It is very corrosive to the equipment, and can cause staining of the spa shell.

If the CH is too high (commonly known as "hard water"), formation of scale on the spa's shell surface and equipment can result. You can use a generic calcium remover to remove hardness from water. CH can also be decreased by dilution – a mixture of 75% hard and 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.

	CH too high Causes scale to deposit on spa and equipment	275 250 225	Dilute the spa with soft water
	equipment	200	
L	CH palance	175	Ideal CH balance
V	balance	150	
	GU to a la	125	Add a calcium
	CH too low Causes equipment	100	hardness increaser
	corrosion	75	I

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 spa 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 spa's equipment may corrode.

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

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

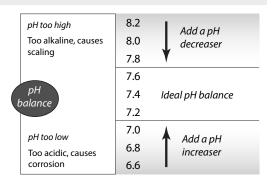
- The sanitizer is less effective.
- Scale will form on the spa shell surface and the equipment.
- The water may become cloudy.
- The filter cartridge pores may become obstructed.

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

NOTE: After adding sodium hydrogen carbonate or sodium bisulfate, wait two hours before testing the water for pH. Measurements taken too soon may not be accurate.

It is 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 the type of sanitizer used.

When the pH is within the recommended range, proceed to sanitation.





2. Sanitation and Shock

Sanitizers kill bacteria and other organic waste by breaking them down to non-harmful levels 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 either **bromine** or **chlorine** as your sanitizer. Both work well when maintained regularly.



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

Whichever plan you decide on, follow it completely and don't take shortcuts. It will provide you with clean, safe, clear spa water with a minimum of effort. Spa owners with an ozonator still need to use a chemical sanitizer. See page 32 for

a description of how the ozonator works.

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 below.

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

Starting and Maintaining Sanitizer Levels

Sanitizing your spa with chlorine or bromine is very similar. Each sanitizer has its advantages and disadvantages.

Bromine: Whereas chlorine can sometimes cause offensive odors and skin irritation, bromine is less likely to do so. Additionally, unlike chlorine, when bromine combines with bather waste and other contaminants in the water, it remains a very effective sanitizer. Bromine is also far less pH-dependent than chlorine. **Always remember that bromine by itself is not a sanitizer, and it needs to be activated by shock in order to be effective.**

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 to 7.6. A disadvantage of using chlorine is that when chlorine combines with bather waste and other contaminants in the water, not only does it lose its sanitizing ability, it can cause odors and irritate eyes and skin.

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

Starting with fresh water:

- Establish a baseline by adding either granulated chlorine or bromine.
 - Use half an ounce of chlorine for every 500 gallons of water.
 - Use half an ounce of bromine for every 100 gallons of water.
- 2. Run the jets for 10 minutes.
- Test the water. Make sure the pH, TA, and CH levels all fall within the ranges shown on the previous page. Make adjustments where they are needed.
- 4. At this point, if you use bromine, it is not yet activated and it will not sanitize the water. You need to shock-oxidize the spa water. Depending on the size of your spa, add one to two ounces of shock. You can use any kind of shock you want.
- Test the water again. When the water is balanced, your spa is ready to use.

Note: If you choose to use bromine, we do not recommend using a floater. You have more control over the bromine level by adding bromine as needed. For more discussion on this, see page 31, "Common Water Chemistry Questions".



Shocking the Water

In addition to using a chemical sanitizer, you will periodically need to shock the water. Shocking helps refresh the water by breaking down organic waste contaminants which cause odor and cloudy water. After treatment, water quality and clarity is often completely restored.

The two types of shock are sodium dichlor and potassium monopersulfate (MPS). You can use either type of shock regardless of which sanitizer you use. Even if you use bromine, you can use a chlorinated shock if you wish -- in fact, you may find a chlorinated shock is more effective than dichlor or MPS alone.

If irritating chloramines are present, shocking also converts them back to active chlorine. If you use bromine sanitizer, shocking activates the bromide ion (which by itself has no disinfecting capability) which becomes hypobromous acid in water, a good sanitizer.

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

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

3. Filtration

The filter is the part of your spa that removes the debris from the water and needs to be cleaned on a regular basis to maximize your spa's filtering performance and heating efficiency.

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

Changing the NEO Filtration Setting

FILTER CYCLE 1 and 2, if duration is set to zero the system will do a purge cycle at the start time setting. With FILTER CYCLE highlight press MENU to enter FILTER CYCLE 1, 2, 3, or 4 setting. Select a FILTER CYCLE and press MENU again to enter TIME/DURATION setting screen. In this screen, press MENU to move between HOURS, MINUTES and DAYS setting; UP/DOWN to change the values and RETURN to exit and confirm the setting.

Cleaning the Filter

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

We recommend you clean your filter at least once a month, possibly every two weeks depending on how frequently you use your spa, and replace it once a year or as necessary. See page 38 for instructions on removing and cleaning the filter.



4. Regularity (Maintenance 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 (see page 29 on shocking the water).	
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 $\frac{1}{2}$ 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 (see page 38). 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 (see page 39)	
	Clean and treat the spa cover and pillows (see page 39)	
	Deep clean the filter (see page 38)	
	Refill your spa (see page 7)	
Each time you refill the spa	Follow the section "Filling and Powering Up Your Portable Spa" on page 7.	
Once a year	Replace filter cartridges if the pleats appear frayed (see page 38).	

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 Subtractor, 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
Bromine	sodium bromide	under 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 additives		
Common name	Usual chemical name	Common brand names
Stain and scale inhibitor	chemical formulations and cannot	Metal Stain Gone, Scale Inhibitor, Stain and Scale Preventer, Stain and Scale Defense
Foam inhibitor	be purchased as a single generic chemical.	Foam Gone, Foam Down, Defoamer
Clarifier	Chemican	Water Brite, Spa Bright, Water Clarifier, Clear Water, Natural Clarifier, Brite & Clear

Do NOT use these in your spa:

- Sodium hypoclorite (household bleach)
- Trichlor
- · Chemical floaters
- Bromine tablets
- Muriatic acid

- Borax or boric acid in any form, including brand names such as 20 Mule Team Borax or generic as sodium tetraborate
- Cyanuric acid, also called sun protector or chlorine protector

Common Water Chemistry Questions

Question: Why is the use 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 first placed in a spa, the sanitizer level can be extremely high. High sanitizer levels can chemically burn
 or discolor the spa's shell or the underside of the cover. Then, after a period of time, the sanitizer level
 dispensed by the floater will fall to near zero. A low sanitizer level will allow viruses, bacteria or algae 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.
- The floater may allow pieces of the highly concentrated sanitizer to fall out and settle on the floor or seat
 of the spa shell. These pieces of sanitizer will chemically burn (blister) the spa shell. Although your spa
 shell is specifically designed to resist the effects of spa chemicals, no spa surface can withstand this type
 of highly concentrated chemical. Remember, chemical abuse is specifically not covered under the terms
 of the warranty.

Question: When I open my spa, I smell chlorine. How do I get rid of this smell?

Answer:

There are two types of chlorine in your spa. The first is the Free Available Chlorine, which is the chlorine available to sanitize your spa. This free Available Chlorine does not have an odor. The second is Chloramine, which is residue from chlorine already expended. Chloramines have a strong chlorine odor. The smell from Chloramines can be eliminated by shocking the water. If you smell chlorine in the water, your spa is reminding you to add a shock treatment.

Question: Why can't I fill my spa with soft water?

Answer: Soft water is essentially the same as regular water, except that most or all of the calcium has been replaced

by sodium. Soft water may be corrosive to the heater and other components. Replacement of spa components damaged by soft water is extremely expensive.

2018 Portable Spa LTR20181002, Rev. E Question: I am trying to reduce the number of chemicals to which my family is exposed. Do I really need to use so many

chemicals and in such large amounts?

Answer: While over-exposure to any chemical can be unhealthy, many low levels of chemicals are effective and

beneficial. In the case of spa water, the chemicals we recommend are needed to protect the user from water-

borne pathogens (disease-causing microbes) and to prevent corrosion of spa components.

Question: Why isn't water chemistry damage covered by the warranty?

Answer: The chemical levels and water quality of the water in the spa are under your direct control. With proper basic

care, the spa will provide many years of hot water relaxation. If you are unsure about any chemical or its

usage in the spa, contact your spa dealer.

Do's and Don'ts

 DO add all chemicals slowly into or in front of the filter compartment with the jet pump operating for ten minutes.

• DO use special care if using baking soda to clean either the interior or exterior plastic surfaces.

- DO use only a granular form of bromine sanitizer.
- DON'T use swimming pool (muriatic) acid to lower pH.
- DON'T splash pH increaser additives on the siding.
- DON'T use compressed sanitizers.

The use of bromine sticks or tablets in floaters, which may become trapped in a lounge or cooling seat (or sink to the spa floor), have been shown to cause discoloration of or surface distress to a spa's shell.

 DON'T use a floater type sanitization system as a low or no maintenance solution to your spa maintenance program. Floating dispensers can become trapped in one area and cause an over-sanitization (or chemical burn) of that particular area.

If the dispenser setting is too high, the high concentration can discolor the spa shell and damage the underside of the cover.

Automatic floating dispensers have a tendency to either over-brominate or under-brominate as the rate of erosion varies greatly. Damage to the spa and cover can occur very quickly.

- DON'T use a sanitizer which is not designed for spas.
- DON'T use household bleach (liquid sodium hypochlorite).
- DON'T broadcast or sprinkle the chemicals onto the water surface. This method may cause chemicallyinduced spa surface blistering (chemical abuse).

Bather Load

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

Recommendations are designed for spas with average

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

Ozonator

The ozone generator releases ozone into the spa water. You will still need to test for chlorine or bromine and occasionally replenish it to return the sanitizer level to the baseline. See page 27.

For spas without a circulation pump, pump 1 will run at low speed and the ozonator will run during filtration. You will need to increase your filtration to a minimum of six hours per day.

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

The spa's control system is factory-programmed with one

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

See instructions for setting filtration cycles on page 14.

Always 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 position, there is not enough suction from the pump in order to inject ozone into the spa. The ozonator will generate ozone, but it will not be injected into the water.



Troubleshooting Water Clarity Problems

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



Bromine Generator

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

Start-up/Operating Instructions

Be certain that you start with a clean spa. It should be free of contaminants and other residues that can accumulate on the sides and/or around the jets. It is also important to only use spa cleaning products that have **no phosphates** or phosphonic acids since phosphates will deplete free bromine and are super-food for algae. Always start your spa with a clean filter before filling with water.

If the water source is "well water" or a non-municipal water source, have your water tested for Total Dissolved Solids (TDS) and metals. Water with high TDS is likely to have higher metal content and will need a metal remover to decrease the metals and ensure a successful start. This test can be done by your local spa dealer. The ideal range for your start-up TDS is between 50 and 200 ppm - mg/L. If TDS from your source water is above 500 ppm, a metal remover is strongly recommended.

DO NOT FILL THE SPA WITH SOFT WATER.

- Using your PURE FILL Spa Pre-Filter, fill your spa with water to the recommended level (six inches below the lip of the spa) and DO NOT FILL WITH WATER FROM A "RESIDENTIAL WATER SOFTENER."
- Before starting the system, balance your water chemistry to ensure a successful start up. Ideal ranges are as follows:

	Ideal Range	
	Minimum	Maximum
рН	7.2	7.6
Total alkalinity	80 ppm	120 ppm
Calcium hardness	150 ppm	250 ppm
Phosphates	0 ppb	30 ppb

Use the phosphate test kit included with your system. Bromide residuals will be significantly reduced if phosphate levels are high. If phosphates are detected, purchase a phosphate remover and follow the directions accordingly. **Any** phosphates in your spa will reduce bromine levels.



 Determine the level of "NaBr" (Sodium Bromide) required for your spa size. NaBr should be added at a rate of 1.2 lbs per 100 gallons or approximately 1300-1500 ppm.

Example: For a 500 gallon spa add approximately 6 lbs of NaBr. **1.2 lbs x (5) 500 gallons = 6lbs NaBr.**

- 4. Turn the jets on high speed. Sprinkle the NaBr across the surface of the water to evenly distribute the NaBr in the spa and circulate for 30 minutes.
- Test the Sodium Bromide concentration with the Tru-Blu NaBr test kit. The correct amount of NaBr will secure a reading of between 1300-1500 ppm.
- 6. Adjust the filtration time to circulate for 8 hours every 24 hours on a 2 speed pump.
- 7. For a spa between 300-500 gallons, start at a power level of "6" and then press the "boost" feature. This will accelerate the production of bromine for 8 hours. Wait for proper bromine levels before entering the spa.
- Always keep your bromine level between 3-5ppm. Test
 the bromine level after 24 hours and adjust the power
 setting accordingly. An occasional heavier bather load
 may require the "boost" feature.



Maintaining the Bromine Level

Always keep your spa or hot tub water in balance. Maintaining the pH and the alkalinity is part of being a spa owner.

The bromine generator requires you to determine your power setting based upon your circulation time and your spa usage. It requires a minimum of eight hours of circulation per day. If the spa is not circulating, the bromine generator is not generating bromine. If you find that you are having trouble maintaining the desired level, make sure the spa is circulating the required amount.

A spa that is frequently used will require a higher power setting. If you have a bromine reading that is too high or too low, adjust the **DECREASE / INCREASE** control accordingly. Depending on the amount usage, circulation time, and type of spa, each spa owner's setting will be different.

The bromine generator can go up to 12 months before a drain and fill is required, unlike non-equipped spas that require it every three months. This is because the bromine generator does not add unwanted chemical by-products like traditional chemicals do.

Sodium bromide is not the only contributor to the TDS count in your water. Over time, the TDS count in your water will rise (from such things as residuals from other chemicals and minerals, and unfilterable material). Test the TDS every few months to make certain it stays within range.

Shower prior to entering any hot tub or spa. This will help prevent phosphate contamination and reduce the demand on the bromine.

Shocking your tub is recommended after heavy bather load.

Intelligent Controller Codes for the Bromine Generator



(Low Conductivity) will appear when the unit detects that the conductivity is below the minimum level. At startup, you will experience this if you have not added the Sodium Bromide. Check the Sodium Bromide level in the water and add the appropriate amount per your spa. If the NaBr level is correct, the cell may be experiencing scaling. In this case, you will want to clean the cell. Please consult with your spa dealer for further information.



will appear when the BOOST feature is on. Depressing this key once will increase the bromine production to twice that of the last bromine production setting for the next accumulated eight hours of pump circulation time. The BOOST cycle should be depressed after heavy bather load or usage.



(Open Element) will appear if the system controller is unable to detect a connection to the electrode cell. You may see this if the electrode is not connected properly, there is inadequate water flow, or the cell is not functioning due to unknown circumstances. This may require that the cell be evaluated and possibly cleaned of scale build-up or even replaced. If this happens, please consult with your spa dealer.



High Current) will appear when the TDS (Total Dissolved Solids) is too high resulting in High Current at the electrode cell. If this reading appears at or near start up of your system, check your source water for TDS and proper NaBr readings. If this reading appears after an extended period of operation, draining 25% of the water and refilling can help reduce TDS levels. If "HC" remains present, consult with your spa dealer for a comprehensive water analysis and recommended course of action.



LOC: Press increase for 3 seconds to unlock

(Locked) Your Top Side controller includes a "LOC" feature which ensures that the system is "Locked" when not being utilized to manage your Spa's water. Your system will automatically produce bromine when necessary. This feature is simply for your protection. In order to "Unlock" simply depress the "increase" key on your unit for 3 seconds.





Cleaning and Maintenance and Sound System

Removing and Reseating the Pillows

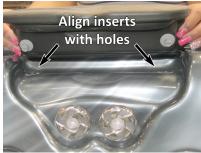
You can remove the pillows for cleaning and maintenance quickly and easily. This method works for all types of pillows.

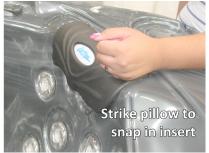
Grab the lower edge of the pillow with both hands firmly and pull up. As you do this, the pillow inserts will pop out of the holes.

Reseat the pillows by aligning the pillow inserts with the holes and striking the pillow hard enough to insert the pegs back into the holes.









Jet Removal and Replacement

Jets can be easily removed for cleaning.

Screw-in jet removal

Grasp the outer rim of the jet and turn it counter-clockwise. The jet will unscrew from the fitting until it is free.

To replace the jet, place it in the fitting and turn it clockwise until it is snug in place and it can be rotated freely about half a turn. Do not overtighten the jet.





Snap-in SQR jet removal

Grasp the outer rim of the jet and turn it counter-clockwise until it completely stops. You may feel it slightly loosen pop out a bit from the fixture. Pull the jet out from the jet fixture. The jet will be very snug and may require some force to remove it. DO NOT PRY OUT JETS.

To replace any jet, place it in the fitting and turn it clockwise until it snaps in and can be rotated freely about half a turn. Do not overtighten the jet.







Draining Your Portable Spa

Your spa should be drained every four to six months for cleaning and maintenance and refilled with fresh tap water. See page 39 for instructions on cleaning the shell, cover, and pillows. See page 7 for instructions on refilling your spa. Before you begin, turn off power to the spa at the breaker and remove all filters.

1. Locate your drain.

For spas with drain inside the spa

Using a Phillips screwdriver, remove the screws to the access panel and open it. Locate hose ending with the $\frac{3}{4}$ inch hose-bib fixture as shown below.



For spas with cabinet-mounted drain

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



2. Remove the cap.

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

For spas with drain inside the spa



For spas with cabinet-mounted drain



3. Connect valve to a garden hose.

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

4. Drain the spa.

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

For all spas





Winterizing (Cold Climate Draining)

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

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

- Remove the filter baskets and filters.
- 2. Drain your spa completely as described in the instructions above.
- Vacuum water from the spa's main drain and from the jets with a wet/dry vacuum.
- 4. Open the bleeder valves on the pumps.
- 5. Disconnect the unions from both sides of all pumps.
- Blow any remaining water out of the jets and equipment area with the wet/dry vacuum.
- When the spa has completely finished draining, close the bleeder valves and re-connect the unions on all pumps. Replace the filters and filter baskets.
- 8. Cover your spa with a good spa cover and an all-weather tarp to ensure that neither rain nor snow enters the spa.

Cleaning and Replacing the Filter

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

See the section "Cleaning the Filter" on page 29 for more information.

Set the spa in Hold Mode before you remove the filter. Hold Mode pauses all spa operations for 60 minutes for service functions like cleaning or replacing the filter. See page 9 for instructions on using Hold Mode.

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

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

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

Spa Cover

Important! Keep the spa covered when not in use!

- Covered spas will use less electricity in maintaining your set temperature.
- Covering your spa will protect your spa's finish from the sun's ultraviolet rays.
- You are required to keep the spa covered to maintain warranty coverage.

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

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

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



Vacation Care

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

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

- 1. Select the Low Range temp choice used for vacation mode. (See instructions on page 13 for vacation setting.)
- 2. Following the water quality instructions starting on page 23, adjust the pH.
- 3. Shock the water (add either chlorine or bromine sanitizer).
- 4. When you return, check and adjust the pH and shock the water.

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

Cleaning Your Spa

Spa Cover and Pillows

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

Warning: *Do not* use automotive vinyl protectants on spa covers or pillows. These products are generally oil-based and will cause severe water clarity issues that are difficult to correct.

Spa Shell

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

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

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

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.

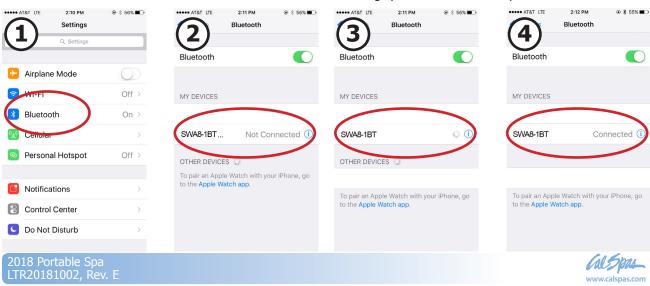
Before you can use the sound system, you need to pair the Bluetooth module with your device. The Bluetooth module is installed within the spa cabinet. Everything can be done with your device. The example shown below is from an iPhone device. Your device may appear differently. Before you begin, make sure Bluetooth in enabled on your device.

Select Bluetooth from your device's option list.

- Select **SWA8-1BT...** from the list of available devices to pair.
- 3. Allow your device to pair with the spa's Bluetooth module.
- When the devices have been connected, the device SWA8-1BT... will be highlighted.

Only one Bluetooth device can be paired with the Freedom Sound System $^{\text{\tiny M}}$ at any time.

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





Appendix

Appendix

Replacement Parts

Screw-in Jet Inserts			
Description	Used by		
ELE 2" Euro No Eyeball PLUCS2295021S	Patio Patio+ Inground Spas		
2" 3"			
ED 2" Euro Directional PLUCS2295051S	Patio Patio+ Inground Spas		
2" 3"			
MED 3" XL Cluster Storm Directional PLUCS2295031S	Patio Patio+ Inground Spas		
3" 3½"			
mfd 3" Micro Flow Directional PLUCS2295061S	Patio Patio+ Inground Spas		
334"			



Note: All Cal Spa models use a combination of screw-in and snap-in jet inserts where removable jets are used.



Screw-in Jet Inserts			
Description	Used by		
PSTR 5" Power Storm Twin Roto PLUCS2295181S	Patio Patio+ Inground Spas		
MMP 5" Power Storm Riffed PLUCS2295141S	Patio Patio+ Inground Spas		
5"	5½"		
PST 5" Power Storm Wagon Wheel PLUCS2295191S	Patio Patio+ Inground Spas		
5"	5½"		



If you need jet bodies, go to www.quickspaparts. com or refer to the Cal Spa Replacement Parts Catalog, which can be downloaded from www.calspas.com/replacementparts.



Snap-in SQR Jet Inserts

Description

Used by

Velocity 5VTX Blue Jet

Symbol: 5VTX

Part #: PLU29950-011-400

Size: 5"D x 5.5"L

Escape Escape+ Platinum+



Velocity 5VTX LED Jet

Symbol: 5VTX

Part #: PLU29950-011-100

Size: 5"D x 5.5"L



Escape Escape+ Platinum+

Snap-in SQR Jet Inserts Description Used by

Velocity Roto Blue Jet

Symbol: 5R

Part #: PLU29950-081-400

Size: 5"D x 5.5"L



Escape Escape+ Platinum+

Velocity Roto LED Jet

Symbol: 5R

Part #: PLU29950-081-100

Size: 5"D x 5.5"L



Escape Escape+ Platinum+

Velocity Directional Blue Jet

Symbol: 5D

Part #: PLU29950-012-400

Size: 5"D x 5.5"L



Escape Escape+ Platinum+



Snap-in SQR Jet Inserts Description Used by Velocity Directional LED Jet

Symbol: 5D

Part #: PLU29950-012-100

Size: 5"D x 5.5"L



Escape Escape+ Platinum Platinum+

Velocity Massage-14 Blue Jet

Symbol: 5MM

Part #: PLU29950-071-400

Size: 5"D x 5.5"L



Escape Escape+ Platinum Platinum+

Velocity Massage-14 LED Jet

Symbol: 5MM

Part #: PLU29950-071-100

Size: 5"D x 5.5"L





Escape Escape+ Platinum Platinum+

Snap-in SQR Jet Inserts

Description

Used by

Velocity Tornado/WP Blue Jet

Symbol: 5T

Part #: PLU29950-501-400

Size: 5"D x 5.5"L





Escape Escape+ Platinum Platinum+

Velocity Tornado/WP LED Jet

Symbol: 5T

Part #: PLU29950-501-100

Size: 5"D x 5.5"L





Escape Escape+ Platinum Platinum+

Velocity Double Roto Blue Jet

Symbol: 5DR

Part #: PLU29950-032-400

Size: 5"D x 5.5"L





Escape Escape+ Platinum Platinum+

If you need jet bodies, go to www.quickspaparts. com or refer to the Cal Spa Replacement Parts Catalog, which can be downloaded from www.calspas.com/replacementparts.



order your replacement parts.

Snap-in SQR Jet Inserts Used by

Description

Velocity Double Roto LED Jet

Symbol: 5DR

Part #: PLU29950-032-100

Size: 5"D x 5.5"L





Escape Escape+ Platinum Platinum+

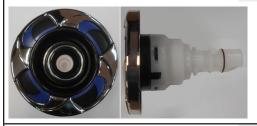
Velocity Directional Blue Jet

Symbol: 4D

Part #: PLU29940-112-400

Size: 4"D x 4.5"L

Escape Escape+ Platinum Platinum+



Velocity Directional LED Jet

Symbol: 4D

Part #: PLU29940-112-100

Size: 4"D x 4.5"L



Escape Escape+ Platinum Platinum+

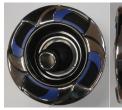
Snap-in SQR Jet Inserts Description Used by

Velocity Roto Blue Jet

Symbol: 4R

Part #: PLU29940-122-400

Size: 4"D x 4.5"L





Escape Escape+ Platinum Platinum+

Velocity Roto LED Jet

Symbol: 4R

Part #: PLU29940-122-100

Size: 4"D x 4.5"L





Escape Escape+ Platinum Platinum+

Velocity Double Roto Blue Jet

Symbol: 3DR

Part #: PLU29930-191-400

Size: 3"D x 3.25"L





Escape Escape+ Platinum Platinum+

If you need jet bodies, go to www.quickspaparts. com or refer to the Cal Spa Replacement Parts Catalog, which can be downloaded from www.calspas.com/replacementparts.



Snap-in SQR Jet Inserts Description Used by Velocity Double Roto LED Jet

Symbol: 3DR

Part #: PLU29930-191-100

Size: 3"D x 3.25"L





Escape Escape+ Platinum+

Velocity Massage-7 Blue Jet

Symbol: 3M

Part #: PLU29930-142-400

Size: 3"D x 3.25"L





Escape Escape+ Platinum+

Velocity Massage-7 LED Jet

Symbol: 3M

Part #: PLU29930-142-100

Size: 3"D x 3.25"L





Escape Escape+ Platinum+

Snap-in SQR Jet Inserts

Description

Used by

Velocity Directional Blue Jet

Symbol: 3D

Part #: PLU29930-112-400

Size: 3"D x 3.25"L





Escape Escape+ Platinum Platinum+

Velocity Directional LED Jet

Symbol: 3D

Part #: PLU29930-112-100

Size: 3"D x 3.25"L





Escape Escape+ Platinum Platinum+

Velocity Roto Blue Jet

Symbol: 2R

Part #: PLU29920-022-400

Size: 2"D x 3"L



Escape Escape+ Platinum Platinum+



Snap-in SQR Jet Inserts

Description Used by

Velocity Roto LED Jet

Symbol: 2R

Part #: PLU29920-022-100

Size: 2"D x 3"L

Escape Escape+ Platinum Platinum+



Velocity Directional Blue Jet

Symbol: 2D

Part #: PLU29920-012-400

Size: 2"D x 3"L

Escape Escape+ Platinum Platinum+



Velocity Directional LED Jet

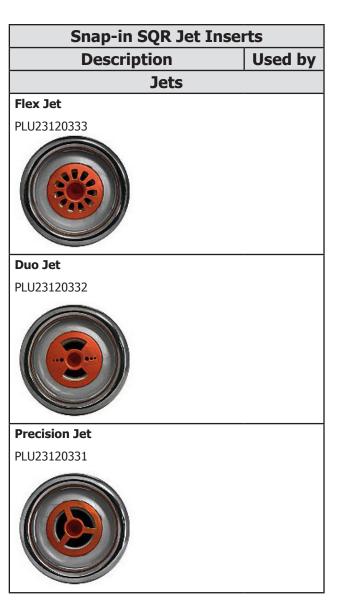
Symbol: 2D

Part #: PLU29920-012-100

Size: 2"D x 3"L

Escape Escape+ Platinum Platinum+





If you need jet bodies, go to www.quickspaparts.com or refer to the Cal Spa Replacement Parts Catalog, which can be downloaded from www.calspas.com/replacementparts.



Velocity Diverter Valves

Velocity

1" Blue Diverter Valve

Symbol: D1

Part #: PLU25056-202-400

Size: 2.5" x 5"L



Velocity

1" LED Diverter Valve

Symbol: D1

Part #: PLU25056-202-100

Size: 2.5" x 5"L



Velocity Air Control Blue

Symbol: A

Part #: PLU25059-202-400

Size: 3.125" x 5"L



Velocity Diverter Valves

Velocity Air Control LED

Symbol: A

Part #: PLU25059-202-100

Size: 3.125" x 5"L



Velocity

2" Diverter Valve Blue

Symbol: D2

Part #: PLU25058-202-400

Size: 4.5" x 7.75"L



Velocity

2" Diverter Valve LED

Symbol: D2

Part #: PLU25058-202-100

Size: 4.5" x 7.75"L



Velocity Diverter Valves

Velocity Underwater

2" Diverter Valve Blue

Symbol: D2

Part #:

Size:

Velocity Underwater

2" Diverter Valve LED

Symbol: D2
Part #:
Size:

Velocity

1" Diverter Valve Wall Fitting LED

Part #: PLU25030-089-200



Velocity

Air Control Wall Fitting LED

Part #: PLU25090-089-200



Velocity

2" Diverter Valve Wall Fitting LED

Part #: PLU25048-089-200



Velocity Diverter Valves

Velocity

Wall Fitting 2" Black (#25048-004-200) (for Diverter Valve)

Part #: PLU21701738



Velocity

Wall Fitting 1" Black (#25030-004-200) (for On-Off Valve)

Part #: PLU21701739



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



Aquatic Air Therapy (AAT)
Air Control

PLU25059-211-00



Drains

Drain Super Hi Flo Suction 21/2" Black (640-3581LGV)

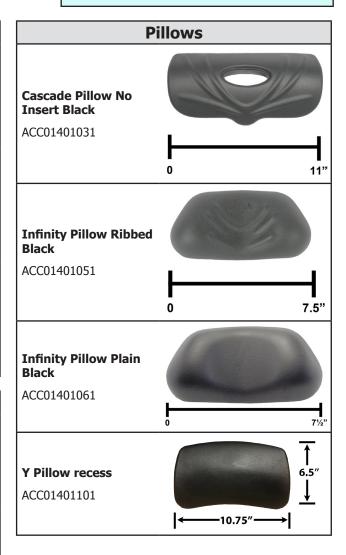
PLU21400146



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

PLU21400401

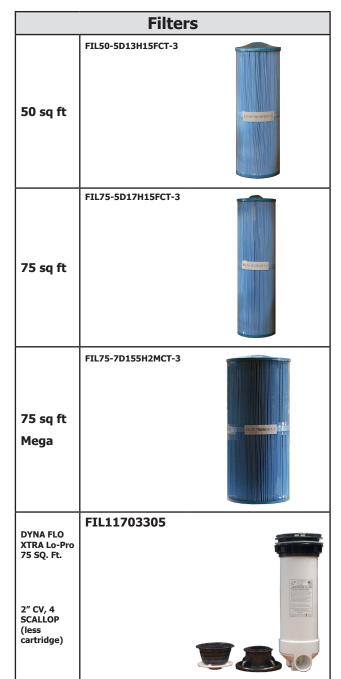




If you need jet bodies, go to www.quickspaparts. com or refer to the Cal Spa Replacement Parts Catalog, which can be downloaded from www.calspas.com/replacementparts.













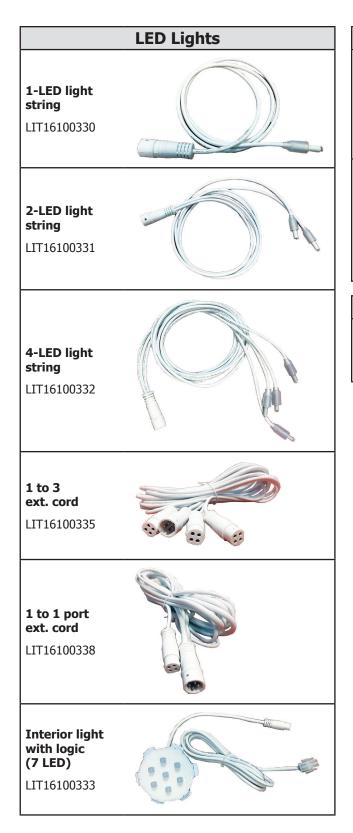
PLU21800825TEX

PLU21800828

Cascade II Waterfall Curved Black Textured with Valve and Logo 12-3/8" '14







Interior light without logic (7 LED) LIT16100337 Main light housing, LED lens, fitting nut LIT16100336

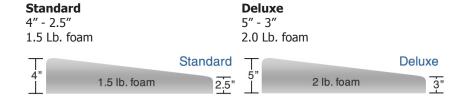
Replacement Cabinet Panels

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



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 1.5 lb or 2.0 lb foam.



	Gray Standard	Slate Standard	
54" x 78"	COV5478S53G-CC-2	COV5478S53S-WN-2	
Fits spa models: PZ-517L, PPZ-525L	COV5476553G-CC-2	COV54/85535-WIN-2	
64" x 84"	COVC494CE2C CC 2	COVEARACESC WIN S	
Fits spa model: PPZ-537L	COV6484S53G-CC-2	COV6484S53S-WN-2	
72" x 72" triangle	COV/7272TDCF2C CC 2	COV7272TDCE2D WWW 2	
Fits spa models: PZ-617T, PPZ-628T	COV7272TRS53G-CC-2	COV7272TRS53R-WW-2	
78" x 84"	601/70046526 66 3	COV/700 4CF2C MIN 2	
Fits spa models: PZ-621L, PPZ-631L	COV7884S53G-CC-2	COV7884S53S-WN-2	
78" round	COVZ0DDCE3C CC 3	COVIZODDCESC WALS	
Fits spa model: P2511R	COV78RDS53G-CC-2	COV78RDS53S-WN-2	
87" x 87"	COV0707CE2C CC 2	NI/A	
Fits spa model: EP-760DL, EC-754DL	COV8787S53G-CC-2	N/A	

	Gray Standard	Gray Deluxe	Slate Standard	Slate Deluxe
93" x 130" Fits spa model: EC-947E	N/A	COV93130D53G-CC-2	N/A	N/A
84" x 84" (7 foot spas) Fits spa models: P2-722L, P2-722B, PP-732L+, PP-732B+, EC-735L, EC-735B, EC751L, EC751B, EP-761L, EP-761B, PL-760L, PL-760B, PPL7L+	COV8484S53G-CC-2	COV8484D53G-CC-2	COV8484S53S-WN-2	COV8484D53S-WN-2
93" x 93" (8 foot spas) Fits spa models: EC-835L, EG835B, EC-851L, EC-851B, EC-852L, EC-864L, EC-864B, EP-861L, EP-864B, PL-860L, PL-861B, PL-880L, PL-881B, PPL-8B+	COV9393S53G-CC-2	COV9393D53G-CC-2	COV9393D53S-WN-2	COV9393D53R-WW-2



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 on page 10.
Breaker keeps shutting off	Reset the GFCI breaker. If this continues, contact your dealer or a qualified spa technician.
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 (see page 13).
	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 Error Screens on page 14.
Heat 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 (page 10)
	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 (page 10)
	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 a Cal Spa brand portable spa manufactured after January 1, 2018 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.

This warranty applies only to these spa lines:	Patio, Patio+	Escape, Escape +	Special Edition
Shell Structural	5 years	10 years	10 years
Warranted against water loss due to defects in the spa shell.	5 years	10 years	10 years
Shell Finish			
Warranted against blistering, cracking, or delaminating of the interior surface of the spa shell.	2 years	7 years	7 years
Equipment and Controls			
Electrical equipment components – specifically limited to the pumps, standard titanium heater, and control system – are warranted against malfunctions due to defects in workmanship or materials.	2 years	5 years	5 years
Plumbing			
Warranted against leaks due to defects in workmanship or materials.	2 years	5 years	5 years
Cabinet - Synthetic, Fiberglass, or Wicker			
Warranted against defects in workmanship or materials. Normal wear and weathering of the finish will occur naturally over time and are not defects.	1 year	5 years	5 years

Warranties for Other Components

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

Genuine Cal Spas Parts & Accessories

This Limited Warranty is void if Cal Spas (the "Manufacturer") or its designated representative determines that the spa has been subjected to damage or failure due to installation of aftermarket parts that are not genuine Cal Spas branded parts and accessories. This disclaimer includes, but is not limited to filters, ozone systems, salt systems, repair parts and other accessories. Genuine Cal Spas brand parts and accessories are built to our highest standards of quality, durability and performance, and they are designed to work with your spa to ensure optimal performance and function.

Performance

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

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

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



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

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

Warranty Limitations

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

Limitations

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

Disclaimers

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

Legal Rights

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





Warranty Registration

Registering your new Cal Spas product is quick and easy. 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 www.calspas.com/warranty. 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 inside of the door for the equipment area. You will need this number to properly register your spa and activate coverage. Write this information in the space provided below.

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