

United States and Canada  
(Adjust-Pro Swim System)

**Cal Spas®**

# OWNER'S MANUAL

Swim-Pro Spas

2017



United States, Canada



2631-16-G

[www.calspas.com](http://www.calspas.com)

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

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8/16/17

100-1394

### CONTACT INFORMATION

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

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

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



# Important Safety Instructions

1

Read This First!

## 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°F (40°C). Water temperatures between 100°F (38°C) and 104°F (40°C) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.

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

The use of alcohol, drugs or medication before or

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

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

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

### **HYPERTHERMIA DANGER:**

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

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

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

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

**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.

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

## Planning the Best Location

### Safety First

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

### Consider How You Will Use Your Spa

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

### Plan for Your Environment

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

### Consider Your Privacy

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

### Provide a View with Your Spa

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

### Keep Your Spa Clean

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

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

### Allow for Service Access

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

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

## 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 / m<sup>2</sup>).

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.



## 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 and on the next page 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.



## GFCI and Wiring Requirements

**Applies to all fitness spas except F-1781**

### Standard configuration with one 5.5 kW heater

| Spa Model | Control System | GFCI Required   | Wires Required           | Wiring Diagram                    |
|-----------|----------------|-----------------|--------------------------|-----------------------------------|
| F-1222    | BP501G1        | One 50 amp GFCI | Four #8 AWG copper wires | Use wiring diagram 1 (see page 6) |
| F-1325    | BP501G1        | One 50 amp GFCI |                          |                                   |
| F-1420    | BP501G1        | One 50 amp GFCI |                          |                                   |
| F-1437    | BP501X         | One 50 amp GFCI |                          |                                   |
| F-1641    | BP20X          | One 60 amp GFCI |                          |                                   |
| F-1681    | BP20X          | One 60 amp GFCI |                          |                                   |

### Configuration for Option OPT17-200 (auxiliary 5.5 kW heater)

| Spa Model | Control System | GFCI Required                       | Wires Required           | Wiring Diagram                    |
|-----------|----------------|-------------------------------------|--------------------------|-----------------------------------|
| F-1437    | BP501X         | One 50 amp GFCI                     | Four #8 AWG copper wires | Use wiring diagram 1 (see page 6) |
| F-1641    | BP20X          | One 60 amp GFCI and one 30 amp GFCI | Four #8 AWG copper wires | Use wiring diagram 1 (see page 6) |

**Applies to model F-1781 only**

### Standard configuration with one 5.5 kW heater

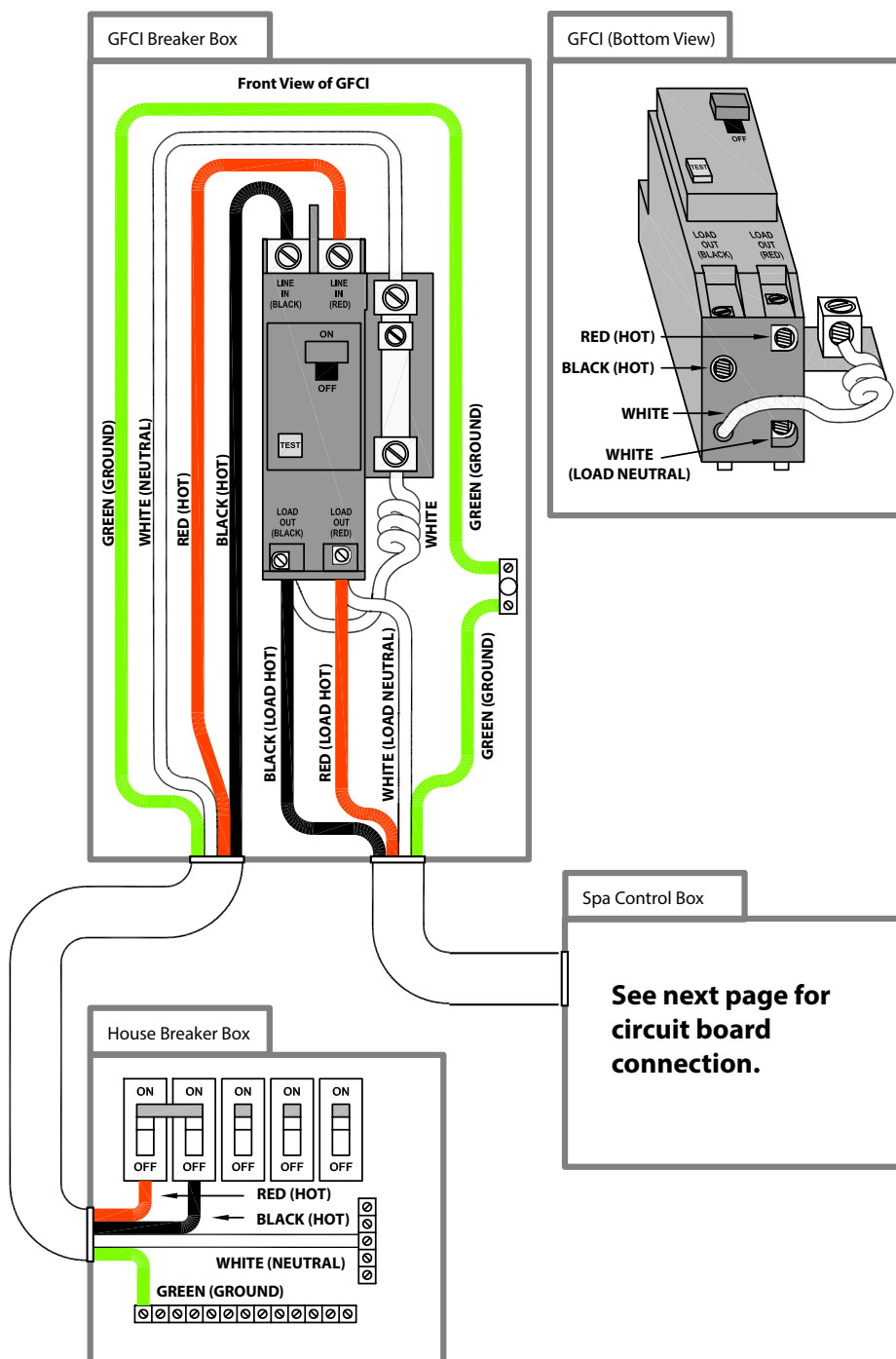
| Control System | Spa Side           | GFCI Required   | Wires Required           | Wiring Diagram                    |
|----------------|--------------------|-----------------|--------------------------|-----------------------------------|
| BP501G1        | Service (spa side) | One 40 amp GFCI | Four #8 AWG copper wires | Use wiring diagram 1 (see page 6) |

### Configuration for Option OPT17-200 (auxiliary 5.5 kW heater)

| Control System | Spa Side              | GFCI Required   | Wires Required            | Wiring Diagram                    |
|----------------|-----------------------|-----------------|---------------------------|-----------------------------------|
| BP20X          | Service 1 (swim side) | One 60 amp GFCI | Four #8 AWG copper wires  | Use wiring diagram 1 (see page 6) |
|                | Service 2 (swim side) | One 30 amp GFCI | Three #8 AWG copper wires |                                   |

## Electrical Requirements and Wiring Diagram

| Control System | GFCI Required   | Wires Required           |
|----------------|-----------------|--------------------------|
| NEO 1500       | One 50 amp GFCI | Four #8 AWG copper wires |

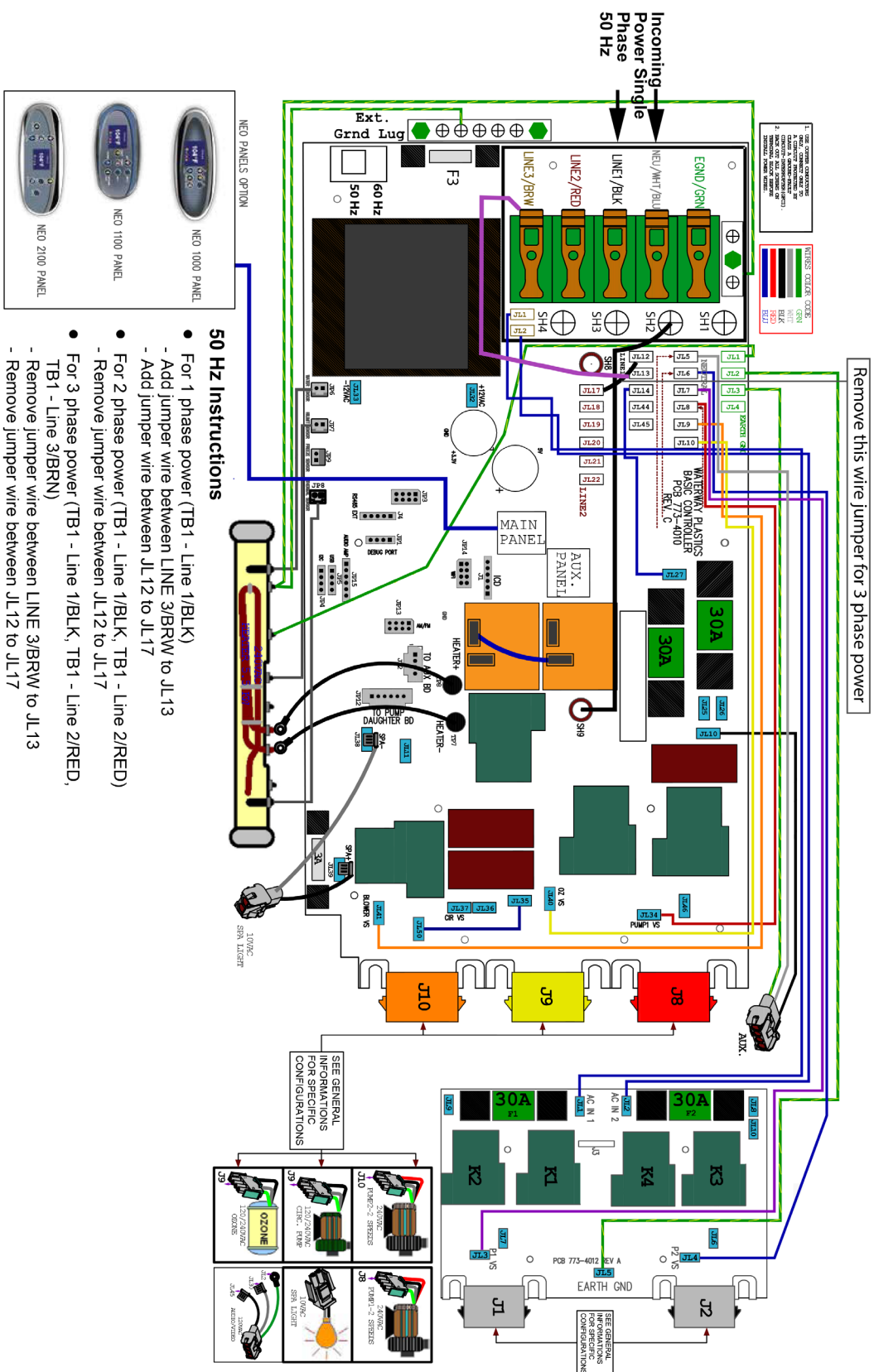




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## Circuit Board Connection (50 Hz)

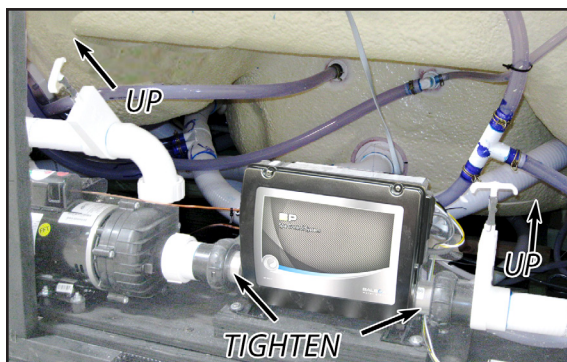




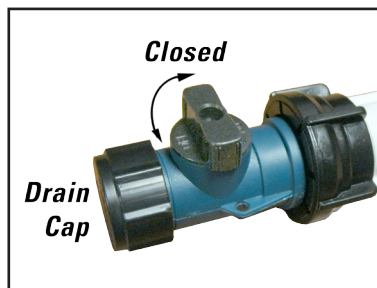
## Filling and Powering Up Your Portable Spa

### 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 30 for a description of drain valves.)



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

### 2. Remove the cartridge from filter canister.

#### If you have a skimmer like this:

Grip the filter by the handle and unscrew it from the canister.



#### 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.

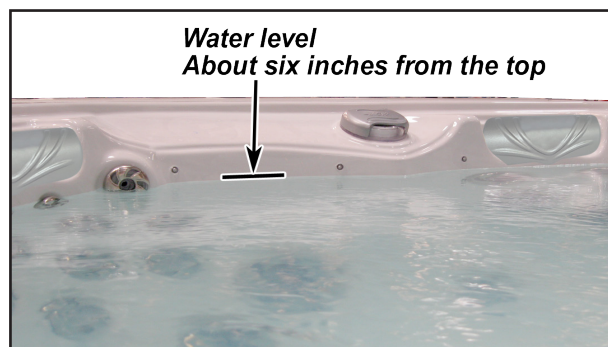
Place a garden hose in the filter canister and fill your spa.

**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.***

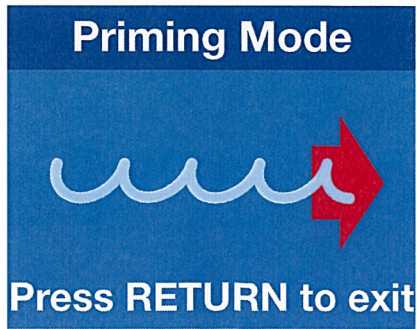
Soft water makes it impossible to maintain the proper water chemistry and may cause the water to foam, which will ultimately harm the finish of the spa and void your warranty.

### 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 activity.

## 6. Install the filter into the filter canister.



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



## 7. Adjust water chemistry.

Test and adjust the water chemistry. See the section on page 23 for instructions on keeping your water clear.

## 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.

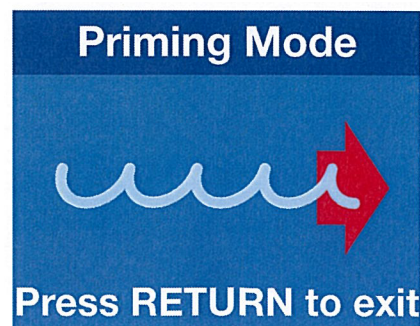
Sometimes air can become trapped in the pump while filling the spa. You will know this has happened when after you have filled and started the spa, the pump does not seem to function. You will hear the pump operating, but no water will be moving.



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

### Starting Up: Priming Mode

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 activity.



### Exiting Priming Mode

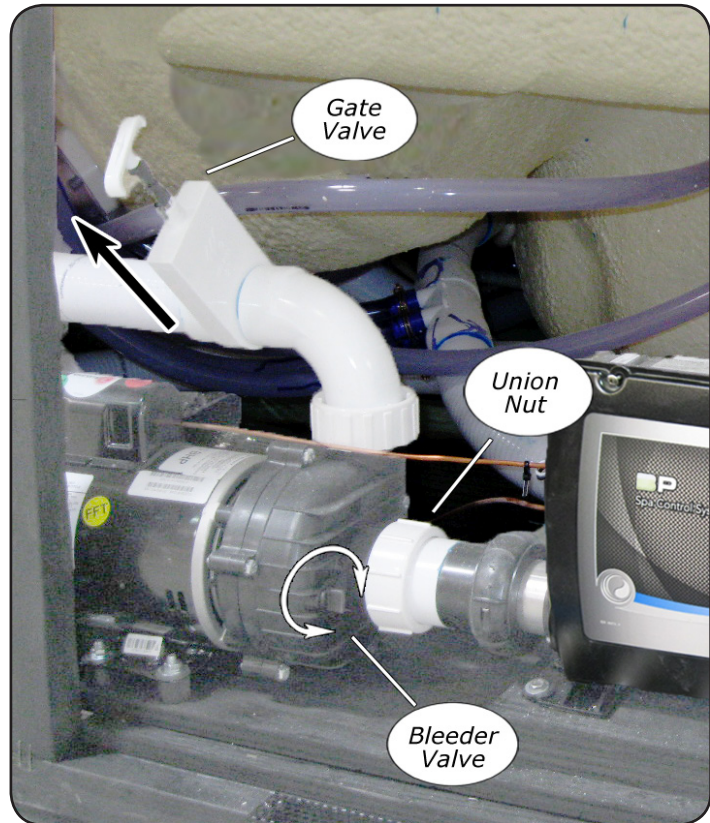
You can manually exit Priming Mode by pressing the RETURN button. Note that if you do not manually exit the priming mode, the priming mode will be automatically terminated after 4 to 5 minutes. Be sure that the pumps have been primed by this time.



## Bleeding Air from the Pump

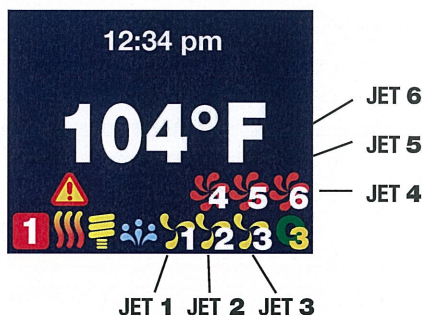
If you have tried priming the pump several times unsuccessfully using the control panel, you can bleed the air from the pump manually.

1. 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

## Spa Operation



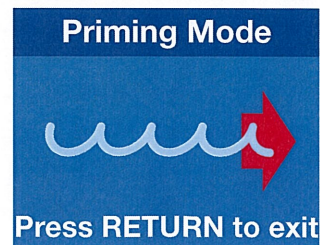
### MAIN SCREEN:

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, and JET 2 at high 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.



**SELECTION ICONS:** FILTER CYCLE 1 FILTER CYCLE 2 FILTER CYCLE 3 FILTER CYCLE 4 LIGHT ON HEATER ON HEATER START-UP ENERGY SAVING HEAT MODE VACATION HEAT MODE CLEANER CYCLE POLLING CYCLE TEMPERATURE LOCK PANEL LOCK OZONE ON JET ON LOW SPEED JET ON HIGH SPEED BLOWER ON SPECIAL TEMP SELECT OPTION**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

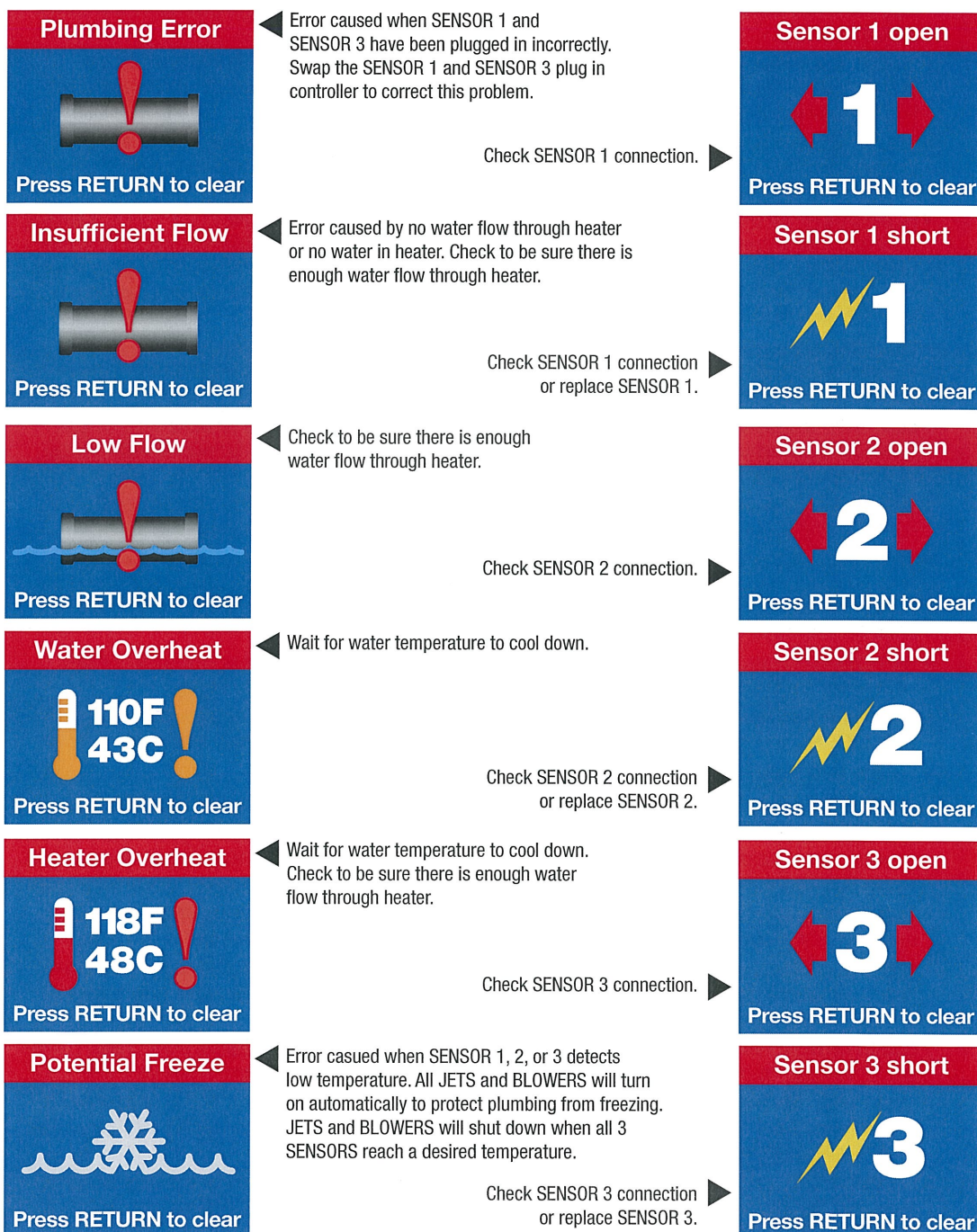
Rotate View  
Special Temp  
Heat Mode  
Filter Cycles  
Date-Time



## Settings Screens

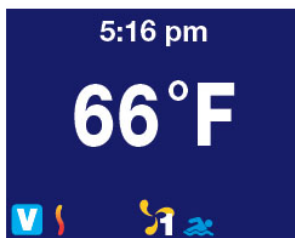
- **ROTATE VIEW:** rotate the view 180 degrees, the UP and DOWN button also swap when rotated. With ROTATE VIEW highlighted press MENU to enter ROTATE VIEW setting. Use UP/DOWN to select the desired setting and RETURN to exit and confirm the setting.
- **SPECIAL TEMP:** to temporarily heat spa to 105°F 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 50°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 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.
- **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 and 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:** display 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 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 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:** locks all panel buttons except MENU button. 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.
- **TEMP LOCK:** locks TEMPERATURE setting with UP/DOWN buttons. With TEMP LOCK highlighted press MENU to enter TEMP LOCK setting. Use UP/DOWN to select the desired setting 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.
- **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:** to turn off all outputs and provide a quiet time setting. 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.
- **SILENT TIME:** *only available for Non-Circ systems.* Set up the time for no polling. With SILENT TIME highlighted press MENU to enter SILENT 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.
- **CLEANER CYCLE:** *only available for Non-Circ systems.* To turn on filtration after using the spa for short cleaning period. With CLEANER CYCLE highlight 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.

## Error Screens

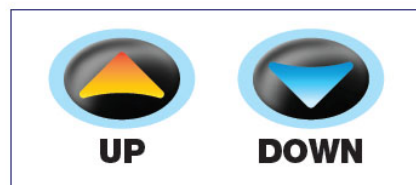


## Swim Spa Workout

### SWIM SPA & SWIM WORKOUT INSTRUCTIONS

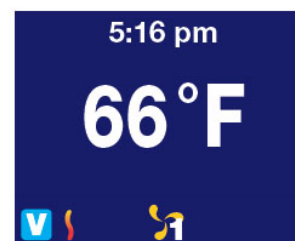


1. Press the **SWIM** button to turn the pump **ON** – the blue **SWIM** icon on the LCD screen turns **ON**.

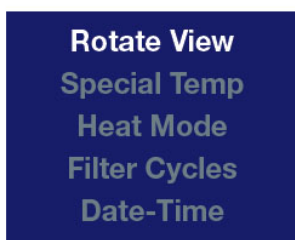


2. Then press **UP** or **DOWN** button to select your desired **SPEED #**.

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

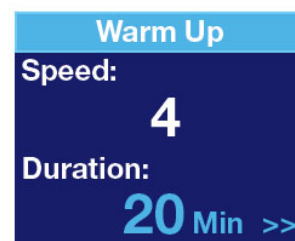
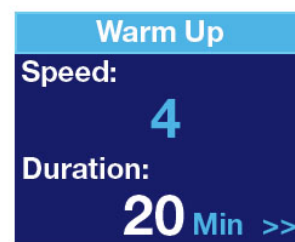
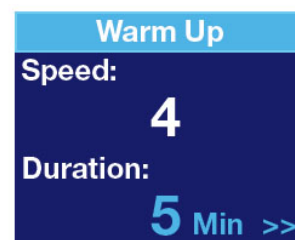
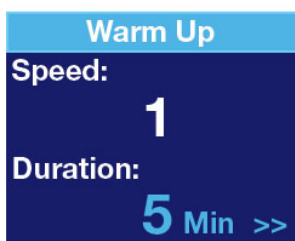
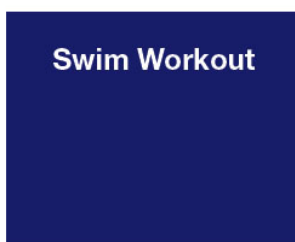


### SWIM WORKOUT PROGRAMMING

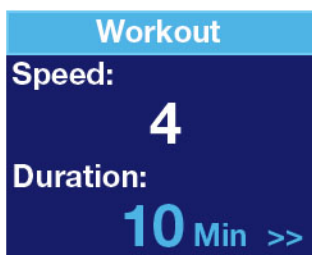


1. To program the **SWIM WORKOUT**; press the **MENU** button; then **UP** button and select **SWIM WORKOUT** by pressing the **MENU** button to get to the **WARM UP** setting.

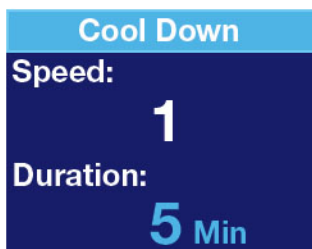
2. Press the **UP** or **DOWN** button to select the **SPEED #** for **WARM UP**; then press the **MENU** button to select **DURATION** in minutes; then press the **MENU** button twice to get to **WORKOUT**.



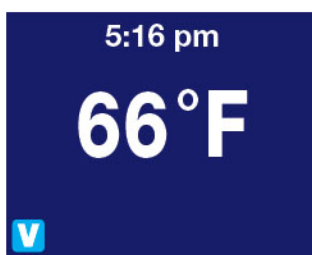
## SWIM WORKOUT PROGRAMMING



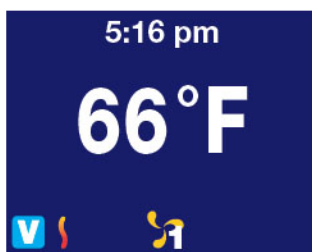
- 3.** Press the **UP** or **DOWN** button to select the **SPEED #** for **WORKOUT**; then press the **MENU** button to select **DURATION** in minutes; then press the **MENU** button twice to get to **COOL DOWN**.



- 4.** Press the **UP** or **DOWN** button to select the **SPEED #** for **COOL DOWN**; then press the **MENU** button to select **DURATION** in minutes; then press the **RETURN** button twice to get out of **SWIM WORKOUT**.



- 5.** 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.



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



## Electrical Power Efficiency

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

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

- Keep the spa's operating temperature 5°F below the desired usage temperature when not in use. One or two hours before use, set the temperature to the desired temperature.
- If the spa usage exceeds two hours a week, the set temperature should remain at the desired usage temperature.
- The air venturis should be used sparingly. When open, water temperature drops quite rapidly and can also dissipate chemicals.

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

## Jets

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

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



## LED Lighting

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

The LEDs operate in three modes:

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

Each time you press the button, you immediately advance 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.

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).



## 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).



## 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).



## 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.

### The Key to Clear Water

Excellent water quality is a simple matter of four things:

#### Chemical Balance

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

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

See page 24 to learn how to balance your spa water.

#### Sanitation

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

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

See page 25 to learn how to use sanitizer.

#### Filtration

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

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

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

See page 26 for filter cleaning instructions.

#### Regularity

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

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

See page 27 for the schedule of recommended maintenance.



## Testing and Adjusting Spa Water

You have two types of testing methods to choose from:

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

### Balancing the Total Alkalinity

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

**The recommended total alkalinity is 80 - 120 ppm.**

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

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

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

### Balancing the Calcium Hardness

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

**The recommended calcium hardness is 150 - 200 ppm.**

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

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

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

### Balancing the pH

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

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

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

### Ideal Water Chemistry

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



## Sanitation

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

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 27 for a description of how the ozonator works.

### Using Chlorine as a Sanitizer

If you choose to use chlorine as a sanitizer, only use granulated chlorine, not liquid chlorine.

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

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

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

Follow the maintenance schedule on page 27.

### Using Bromine as a Sanitizer

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

Use granulated sodium bromide to establish your bromine base.

When you begin with fresh water, add 2 ounces of granulated bromide. Open all of the jets and run the spa at high speed with the cover open for at least 30 minutes.

Follow the maintenance schedule on page 27.

### Shocking the Water

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

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

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

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

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

## Bather Load

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

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

## Filter Cleaning

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

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

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

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

### Cleaning the filter

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

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

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

## Pure Cure™ Water Sanitizer

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

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

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

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

a second filter cycle can be enabled. Filtration time may need to be increased with heavy bather load.

See instructions for setting filtration cycles on page 17.

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

## Ozonator

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

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

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

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

See instructions for setting filtration cycles on page 17.

## Maintenance Schedule

|                                     |   |
|-------------------------------------|---|
| <b>Each time you refill the spa</b> | Follow the section "Filling and Powering Up Your Portable Spa" on page 9.   |
| <b>Prior to each use</b>            | Test the spa water using either test strips a reagent test kit. Adjust chemical levels as necessary.  |
| <b>Once a week</b>                  | Test the spa water using either test strips a reagent test kit. Adjust chemical levels as necessary.<br><br>If your water source is high in calcium, add stain and scale preventer.   |
| <b>Once a month</b>                 | Deep clean your spa's filter. (Follow filter cleaning instruction at beginning of this section)   |
| <b>Every two to four months</b>     | 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: <ul style="list-style-type: none"> <li>• Clean and polish the acrylic surface (see page 32)</li> <li>• Clean and treat the spa cover and pillows (see page 32)</li> <li>• Deep clean the filter (see page 26)</li> <li>• Refill your spa (see page 9)</li> </ul> |
| <b>Once a year</b>                  | Replace filter cartridges if the pleats appear frayed.<br><br>If you use the Cal Pure UV water sanitizer, you will need to replace the UV lamp (see page 33 for UV lamp maintenance).   |

## Troubleshooting Water Clarity Problems

| Problem                                | Probable Causes   | Possible Solutions   |
|--|---|--|
| Cloudy Water                           | <ul style="list-style-type: none"> <li>• Dirty filter</li> <li>• Excessive oils / organic matter</li> <li>• Improper sanitization</li> <li>• Suspended particles / organic matter</li> <li>• Overused or old water</li> </ul> | <ul style="list-style-type: none"> <li>• Clean filter</li> <li>• Shock spa with sanitizer</li> <li>• Add sanitizer</li> <li>• Adjust pH and/or alkalinity to recommended range</li> <li>• Run jet pump and clean filter</li> <li>• Drain and refill the spa</li> </ul> |
| Water Odor                             | <ul style="list-style-type: none"> <li>• Excessive organics in water</li> <li>• Improper sanitization</li> <li>• Low pH</li> </ul>  | <ul style="list-style-type: none"> <li>• Shock spa with sanitizer</li> <li>• Add sanitizer</li> <li>• Adjust pH to recommended range</li> </ul>  |
| Chlorine Odor                          | <ul style="list-style-type: none"> <li>• Chloramine level too high</li> <li>• Low pH</li> </ul>   | <ul style="list-style-type: none"> <li>• Shock spa with sanitizer</li> <li>• Adjust pH to recommended range</li> </ul>   |
| Musty Odor                             | <ul style="list-style-type: none"> <li>• Bacteria or algae growth</li> </ul>  | <ul style="list-style-type: none"> <li>• Shock spa with sanitizer – if problem is visible or persistent, drain, clean and refill the spa</li> </ul>  |
| Organic buildup / scum ring around spa | <ul style="list-style-type: none"> <li>• Buildup of oils and dirt</li> </ul>  | <ul style="list-style-type: none"> <li>• 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</li> </ul>  |
| Algae Growth                           | <ul style="list-style-type: none"> <li>• High pH</li> <li>• Low sanitizer level</li> </ul>  | <ul style="list-style-type: none"> <li>• Shock spa with sanitizer and adjust pH</li> <li>• Shock spa with sanitizer and maintain sanitizer level</li> </ul>  |
| Eye Irritation                         | <ul style="list-style-type: none"> <li>• Low pH</li> <li>• Low sanitizer level</li> </ul>   | <ul style="list-style-type: none"> <li>• Adjust pH</li> <li>• Shock spa with sanitizer and maintain sanitizer level</li> </ul>   |
| Skin Irritation / Rash                 | <ul style="list-style-type: none"> <li>• Unsanitary water</li> <li>• Free chlorine level above 5 ppm</li> </ul>   | <ul style="list-style-type: none"> <li>• Shock spa with sanitizer and maintain sanitizer level</li> <li>• Allow free chlorine level to drop below 5 ppm before spa use</li> </ul>  |
| Stains                                 | <ul style="list-style-type: none"> <li>• Total alkalinity and/or pH too low</li> <li>• High iron or copper in source water</li> </ul>   | <ul style="list-style-type: none"> <li>• Adjust total alkalinity and/or pH</li> <li>• Use a stain and scale inhibitor</li> </ul>   |
| Scale                                  | <ul style="list-style-type: none"> <li>• High calcium content in water – total alkalinity and pH too high</li> </ul>  | <ul style="list-style-type: none"> <li>• Adjust total alkalinity and pH – if scale requires removal, drain the spa, scrub off the scale, refill the spa and balance the water</li> <li>• Use a stain and scale inhibitor</li> </ul>                                    |



## Cleaning and Maintenance

### 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.

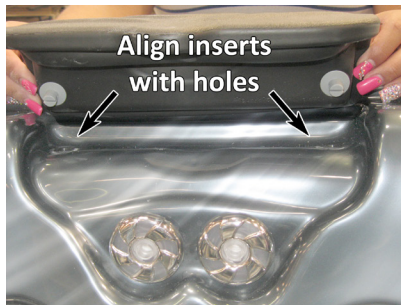
Reseat the pillows by aligning the pillow inserts with the holes and striking the pillow hard enough to insert the pegs back into the holes.



Hold lower edge



Pull up firmly



Align inserts with holes



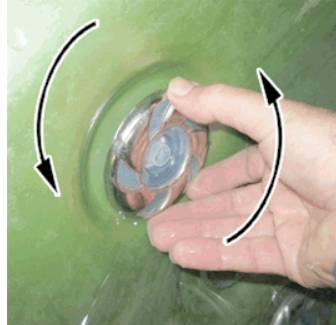
Strike pillow to snap in insert

### Jet Remove/Replace

Jets can be easily removed for cleaning.

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. Do not overtighten the jet.



### 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.

## Draining Your Portable Spa

Your spa should be drained every four to six months for cleaning and maintenance and refilled with fresh tap water. See page 32 for instructions on cleaning the shell, cover, and pillows. See page 9 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*

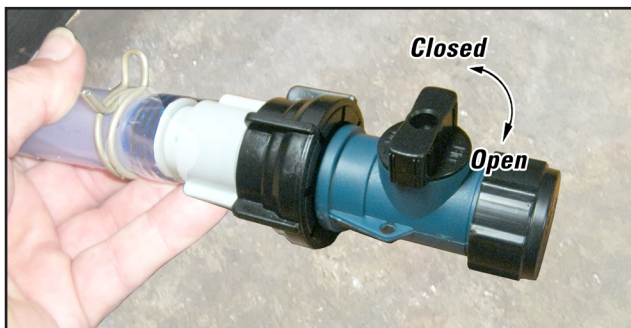
Pull the knob out of the cabinet. The cabinet drain is screwed into the drain pull knob.



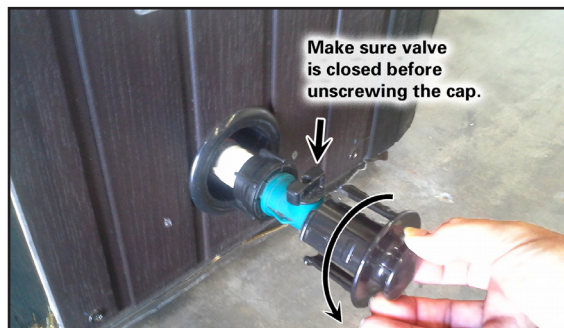
### 2. Remove the cap

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 drains*



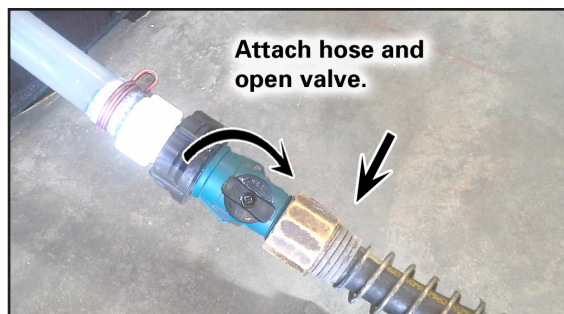
### 3. Connect valve to a garden hose.

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.**

1. Open all filter covers.
2. Remove the filter baskets and filters.
3. Drain your spa completely as described in the instructions above.
4. Vacuum water from the spa's main drain fitting with a wet/dry vacuum.
5. Open the bleeder valves on the pumps.
6. For spas with the UV lamp chamber mounted flat on the equipment floor:  
Loosen the quartz tube nut at the top of the UV lamp chamber and pull up the quartz tube to let the water drain from the UV lamp chamber.
7. Disconnect the unions from both sides of the pump.
8. Blow any remaining water out of the jets and equipment area with the wet/dry vacuum.
9. When it has completely finished draining, replace the quartz tube in the UV lamp chamber and retighten the nut. Close the bleeder valves and re-connect the unions on the pumps. Replace the filter baskets and filters.
10. Cover your spa with a good spa cover and an 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 "Filter Cleaning" on page 26 for more information.

## Vacation Care

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

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

1. Select the Low Range temp choice used for vacation mode. (See instructions on page 17 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.



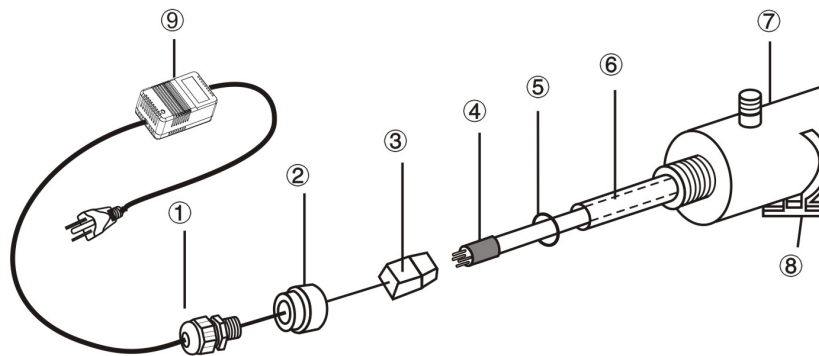
## Changing the UV Lamp

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

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



|   |                           |
|---|---------------------------|
| 1 | Water-proof strainer      |
| 2 | Aluminum nut              |
| 3 | Lamp socket and lead wire |
| 4 | Germicidal UV lamp        |
| 5 | Rubber O-ring             |
| 6 | Quartz thimble            |
| 7 | Chamber                   |
| 8 | Clip                      |
| 9 | Ballast                   |

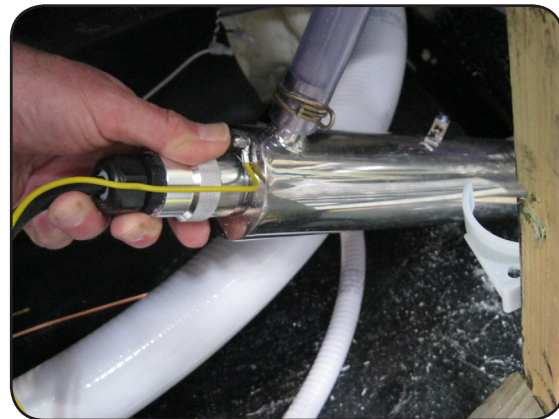


See page 41 for part numbers for replacement parts.

### To remove the UV lamp

1. Disconnect power.
2. Turn water off and open down stream of system to relieve pressure.
3. Cut the tie wrap that attaches the UV lamp chamber to the spa frame.
4. Remove the water-proof strainer (1) and unscrew the aluminum nut (2).
5. Pull out the lamp (4) approximately 2" from the chamber (7).
6. While holding the lamp end, remove the lamp socket (3) from the end now exposed.
7. Remove the lamp from the chamber.
8. Remove the O-ring (5) from the end of the quartz thimble (6).
9. Remove the quartz thimble.

To reinstall the replacement UV lamp, follow these steps in reverse.



When replacement UV lamp has been installed, conduct a final leak check:

1. Restore power to the spa at the GFCI.
2. Turn on the pump and let water run for five minutes to check for leaks.

## Using the Digital Media Locker



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

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

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

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

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

See page 37 for instructions on protecting the media locker from water damage.

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

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

## Aquatic AV AQ-DM-5UBT Media Locker

### Synchronizing (Pairing) the Remote Control with the Media Locker

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

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

- 1 Before you begin, make sure the docking bay is **OFF**. If the red **Power** light inside the docking bay is on, press it once to turn it off.



- 2 Press the red **Power** button on the remote.



- 3 Press and hold the **Mode** button on the remote. The display on the remote will read PAIR.

- 4 While still holding the **Mode** button, press and hold the **Power** button inside the docking station for five seconds.



The display on the remote will read WELCOME or show a mode position such as RADIO.



When the remote and docking bay are paired, the power button light will turn blue.



AQ-DM-5UBT

### If you have trouble pairing the devices:

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

If they do not pair the first time, repeat these four steps until it is successful.

## Listening to Devices

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

### 1. Connecting via USB

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



Apple USB connector



USB micro B connector

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

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

### Search for Songs and Playlists

#### Apple devices

1. Press **SEARCH** to enter iPod searching mode.
2. Once in searching mode, the remote will display 'Playlist'. Continue to press **SEARCH** to scroll through the search modes below:
  - 1) Playlist 2) Artist 3) Album 4) Song 5) Genre 6) Composer 7) Audio Book
3. Press **PLAY/PAUSE** To select the desired search mode.
4. Press **Volume UP/DOWN** to scroll through your media in the selected search mode.
5. Once you find the desired media, press **PLAY/PAUSE** to make your selection. If your selection is a song, it will begin to play. If you select a playlist,

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

#### Other USB devices

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

### 2. Connecting via Bluetooth

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

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

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

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

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

### 3. Connecting via Auxiliary Input

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





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

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

### Listening to FM Radio

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

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

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

### Closing and Locking the Door

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

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



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

### Remote and Keypad Functions

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

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



## 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.

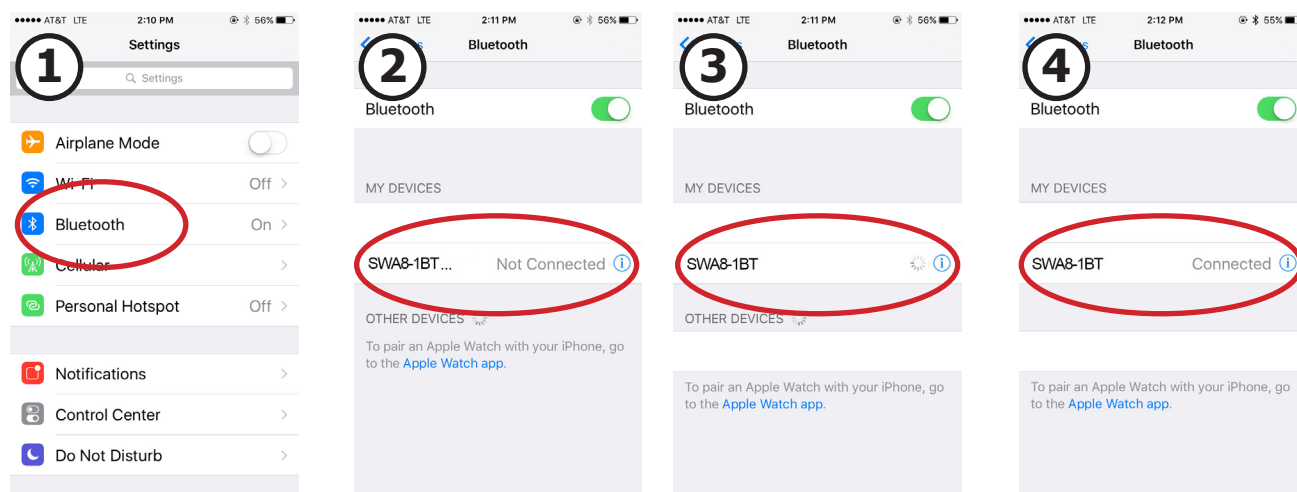


Before you can use the sound system, you need to pair the Bluetooth module with your device. The Bluetooth module is installed within the spa cabinet. Everything can be done with your device. The example shown below is from an iPhone device. Your device may appear differently. Before you begin, make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

1. Select Bluetooth from your device's option list.
2. Select **SWA8-1BT...** from the list of available devices to pair.
3. Allow your device to pair with the spa's Bluetooth module.
4. 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™ 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.

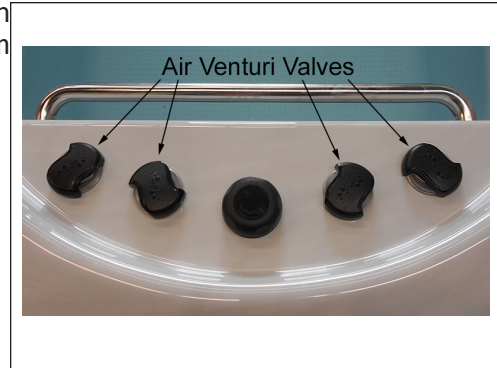


# Keeping Fit With Your Swim Spa

## Jetstream Propulsion System

Use the control panel to start and stop the Jetstream Propulsion System. The **JETS1** and **JETS2** buttons control the top and bottom jets.

Use the air venturi valves to inject air in the water streams.



## Swim Tether

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

Insert the tether in the anchor hole when you are ready to use it.

Buckle the strap around your waist. It is easily adjustable and can accommodate most sizes.



## Exercise Equipment

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

This equipment attaches to the exercise anchors located on the spa walls.

### Connecting the Exercise Equipment

The drawings below show different ways the exercise kit can be connected depending on the exercises you wish to do.

#### For 14 foot spas and model F1222

The exercise kit contains:

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

#### For 16 and 17 foot spas

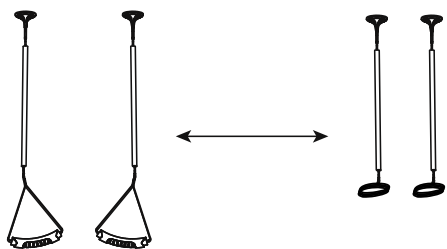
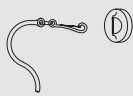
The exercise kit contains:

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

When attaching the rowing bar, place the hook into the eye pad as shown.

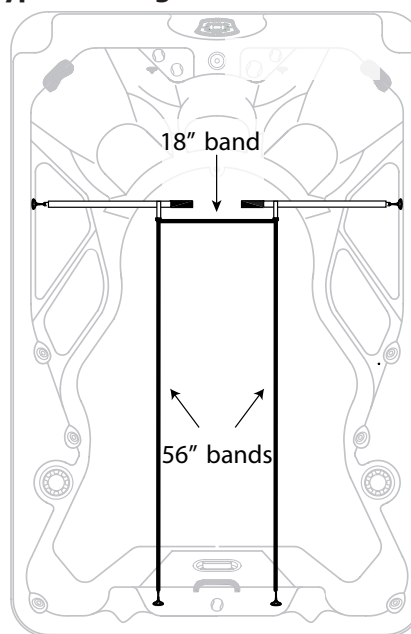


Elastic bands attach to the eye pad as shown.

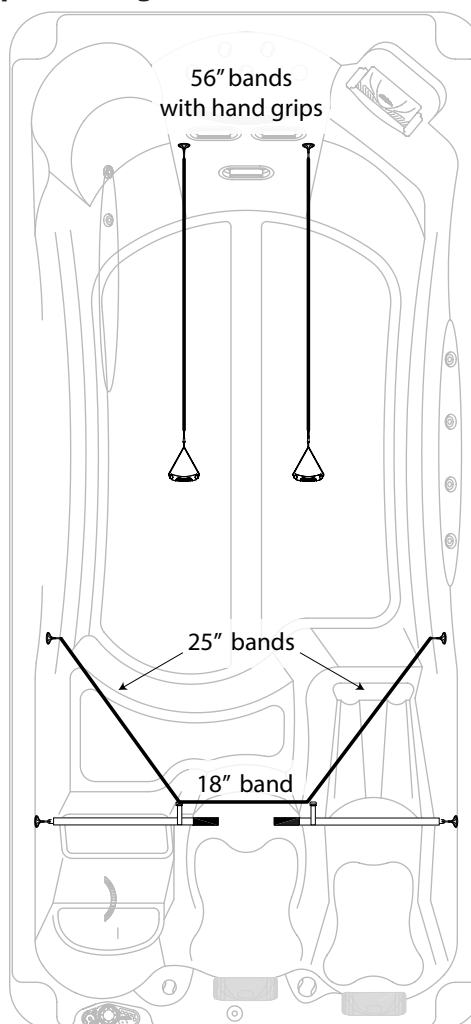


All elastic bands can be connected to either end of the spa and used with hand grips or ankle braces.

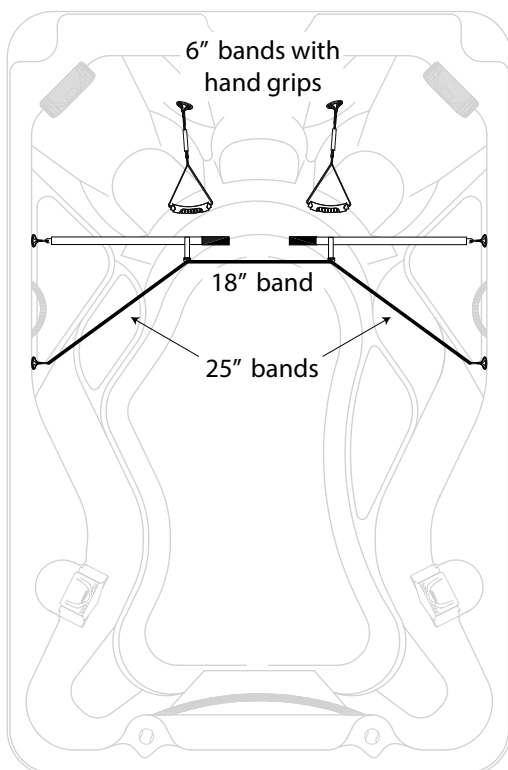
### Typical configuration for F1222 spa



### Typical configuration for 16' and 17' spa



### Typical configuration for 12', 13', 14' spa





## Replacement Parts

### Jets Inserts - Screw-in

#### ELE 2" Euro No Eyeball

PLUCS2295021SL



#### MED 3" XL Cluster Storm Directional

PLUCS2295031SL



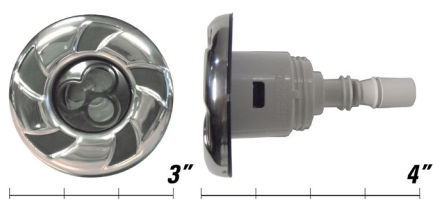
#### mfd 3" Micro Flow Directional

PLUCS2295061SL



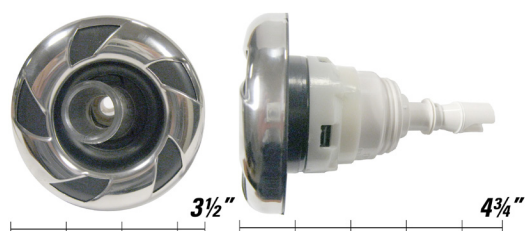
#### MM 3" Mini Storm Massage

PLUCS2297061SL-8



#### MFD 3.5" Maxi Flow Directional

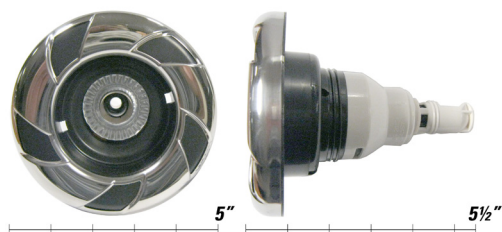
PLUCS2295091SL



### Jets Inserts - Screw-in

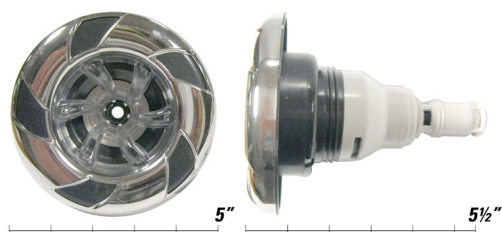
#### PSD 5" Power Storm

PLUCS2295131SL



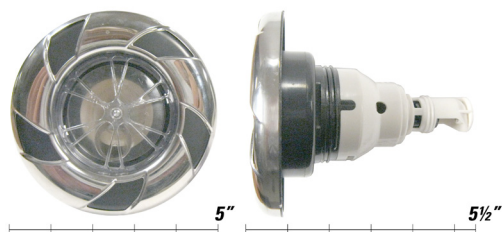
#### PSR 5" Power Storm Riffed

PLUCS2295141SL



#### PST 5" Power Storm Wagon Wheel

PLUCS2295191SL



#### River Jet Assembly Black with Stainless Steel Rim 210-5101SCS

PLU210-5101SCS



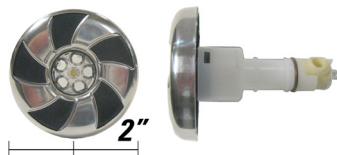
Please visit [www.quickspaparts.com](http://www.quickspaparts.com)  
to order your replacement parts.

### Jets Inserts - Snap-in SQR

**SQN candy cane, 2" neck jet, 100% shut-off**

**Candy cane w/clear center**

PLU29923-144-000



### Waterfall

**SQL, SQR dual hydrostream (#25269-404-000) - includes jet insert, jet body, gasket and nut**

PLU25269-404-000



### Pillows

**Cascade Pillow No Insert Black**

ACC01401031



**Infinity Pillow Ribbed Black**

ACC01401051



**Infinity Pillow Plain Black**

ACC01401061



### Water Diverter Valves

**Diverter Valve 2" Black/Titanium**

PLU21300465



**Diverter Valve 1" Black/Titanium**

PLU21300453



**Diverter Valve 1 1/2" On/Off ASSY (600-4601)**

PLU21100045



### Air Control Valve

**Air Control Black/Titanium**



### Drains

**Drain Super Hi Flo Suction 2 1/2" Black (640-3581LGV)**

PLU21400146



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

PLU21400401



### Teleweir Skimmer

**Teleweir filter skimmer 50 sq. ft. (510-4601)**

FIL11700006

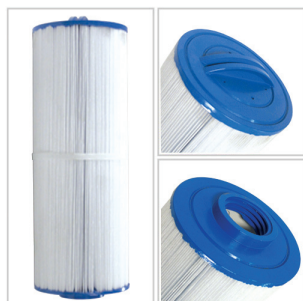


Please visit [www.quickspaparts.com](http://www.quickspaparts.com)  
to order your replacement parts.

### Filter

**50 sq ft female  
threaded -  
antibacterial (for  
Teleweir skimmer  
shown above)**

FIL11100208



### LED Lights

**1-LED light  
string**

LIT16100330



**2-LED light  
string**

LIT16100331



**4-LED light  
string**

LIT16100332



**1 to 3  
ext. cord**

LIT16100335



### LED Lights

**1 to 1 port  
ext. cord**

LIT16100338



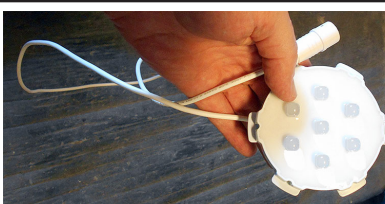
**Interior light  
with logic  
(7 LED)**

LIT16100333



**Interior light  
without logic  
(7 LED)**

LIT16100337



**Main light  
housing, LED  
lens, fitting  
nut**

LIT16100336



### Pure Cure™ UV Water Sanitizer

**Pure Cure complete  
system (Wonder PP-  
1)**

LIT16000380



**Germicidal UV lamp  
(T515)**

LIT16000381





Please visit [www.quickspaparts.com](http://www.quickspaparts.com) to order your replacement parts.

| <b>Pure Cure™ UV Water Sanitizer</b>            |   |
|---|---|
| <b>Rubber O-ring (D24.5)</b><br>LIT16000384     |  |
| <b>Quartz thimble (24.5X350)</b><br>LIT16000383 |  |
| <b>Ballast (UV-3)</b><br>LIT16000382            |  |
| <b>Clips</b><br>LIT16000385                     |  |
| <b>Main Light Without Logic</b><br>LIT16100629  |   |

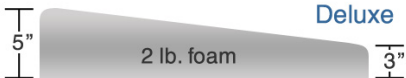
| <b>Exercise Equipment</b>                                     |
|---|
| <b>Exercise Kit for 7 Foot and 8 Foot Spas</b><br>EXC12000006 |
| <b>Exercise Kit for 11 Foot Spas</b><br>EXC12000005           |

| <b>Exercise Equipment</b>                                       |
|---|
| <b>Exercise Kit for 12 Foot and 14 Foot Spas</b><br>EXC12000008 |
| <b>Exercise Kit for 16 Foot and 17 Foot Spas</b><br>EXC12000007 |
| <b>Exercise Kit Attachment Plate</b><br>EXC11000065             |

| <b>Replacement Cabinet Panels</b>   |
|---|
| 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 <a href="http://www.quickspaparts.com">www.quickspaparts.com</a> . |

| <b>Covers</b> |
|---------------|
|---------------|

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

|  |   |
|--|---|
| <b>Deluxe</b><br>5" - 3"<br>2.0 Lb. foam |  |
|--|---|

### **93" x 141"**

Fits spa models: F-1222

### **93" x 171"**

Fits spa models: F-1420, F-1437

### **93" x 200"**

Fits spa models: F1640, F-1770

### **93" x 151"**

Fits spa model 1335

#### **Deluxe**

**Gray** COV93151D53G-CC

**Slate** COV93151D53S-WN



# Basic Troubleshooting

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

| Symptom   | Possible Solutions  |
|---|---|
| <b>Problems starting up</b>                           |   |
| Pump won't prime                                      | See priming instructions on page 12.  |
| Breaker keeps shutting off                            | Reset the GFCI breaker. If this continues, contact your dealer or a qualified spa technician.   |
| <b>Power and system problems</b>                      |   |
| 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.<br><br>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.<br><br>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.<br><br>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 18.   |
| <b>Heat problems</b>                                  |   |
| Spa water does not get hot                            | Spa may be in low temperature range. Set the spa to high temperature range.<br><br>The filter may be dirty or may need to be replaced. Clean or replace the filter.<br><br>The water level may be too low. Fill the spa with water level at 4 to 6 inches from the top.<br><br>The temperature is not turned up high enough. Raise temperature on topside control.<br><br>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.<br><br>The heater element may be old, deteriorated, coated with scale, or defective. Contact your dealer for more assistance.<br><br>The gate valves may be partially or completely closed. NEVER OPERATE YOUR SPA WITH THE GATE VALVES CLOSED! |
| Spa overheats - temperature greater than 110°F / 43°C | Overheating can occur during summer months and may not necessarily indicate a malfunction. When it occurs, a message code may also appear on the control panel.<br><br>Temperature may be set too high. Turn the set temperature down to a lower temperature.<br><br>Filtration time may be too long. Turn the filtration cycles down during the warm months.<br><br>The spa may not be properly ventilated. Make sure the front of the spa is not blocked to allow air flow.<br><br>High speed pumps may have been running too long. Limit pump running time to no more than 15 to 30 minutes.   |
| <b>Water pressure problems</b>                        |   |
| Low water pressure                                    | Jet valves may be partially or fully closed. Open the jet valves.<br><br>Filter cartridge may be dirty. Clean or replace the filter.<br><br>Pump may have airlock. Remove airlock by priming spa (page 12).<br><br>The suction fittings may be blocked. Remove any debris that may be blocking them.<br><br>The filter skimmer may be blocked. Remove the blockage.<br><br>Gate valves may be closed. Open gate valves. Note: Never operate your spa with the gate valves closed!   |

| Symptom   | Possible Solutions   |
|---|--|
| No water pressure (no water stream from any jets) | Power may be switched off. Turn the power back on.<br><br>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.<br>Filter cartridge may be dirty. Clean or replace the filter.<br>Pump may have airlock. Remove airlock by priming spa (page 12).<br>The suction fittings may be blocked. Remove any debris that may be blocking the suction fittings.<br>Gate valves may be closed. Open gate valves. Note: Never operate your spa with the gate valves closed!<br>Air may be leaking into the suction line. Contact your dealer for assistance.<br>Debris may be inside the pump. Contact your dealer for assistance.<br>Noise may be a sign of damage. Contact your dealer for service. |
| Pump turns off during operation          | Automatic timer may have completed its cycle. Press JETS or JETS 1 button to start the cycle again.<br>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.<br>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.<br><br>Power to the spa may be shut off. Turn on or reset the GFCI circuit breaker. If this does not solve the problem, contact your dealer or a qualified spa technician.   |

# LIMITED WARRANTY

This Limited Warranty is extended to the original purchaser of a Cal Spa brand portable spa manufactured after January 1, 2017 and installed for residential use in the United States of America and Canada. This warranty begins on the date of delivery of the spa, but in no event later than one year from the date of manufacture.

## Shell Structural

Warranted against water loss due to defects in the spa shell.

10 years

## Shell Finish

Warranted against blistering, cracking, or delaminating of the interior surface of the spa shell.

7 years

## Equipment and Controls

Electrical equipment components – specifically limited to the pumps, standard titanium heater, and control system – are warranted against malfunctions due to defects in workmanship or materials.

5 years

## Plumbing

Warranted against leaks due to defects in workmanship or materials.

5 years

## Cabinet - synthetic, fiberglass, or wicker

Warranted against defects in workmanship or materials. Normal wear and weathering of the finish will occur naturally over time and are not defects.

5 years

## Warranties for Other Components

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

## Genuine Cal Spas Parts & Accessories

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

## Performance

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

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

In the event that the spa is removed to a repair facility for repair and reinstalled, the cost of removal and reinstallation will be your responsibility as the spa owner. If the Manufacturer determines that repair of the covered defect is not feasible, it reserves the right to provide a replacement spa instead, equal in value to the purchase price of the original spa. In such an event, reasonable costs for removal of the original spa, shipping costs from the factory for the replacement spa and delivery and installation of the replacement will be your responsibility as the spa owner. The replacement spa will carry the balance of the original spa's warranty. Spa covers are not included.

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

### **Warranty Limitations**

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

### **Limitations**

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

### **Disclaimers**

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

### **Legal Rights**

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





### **Locating the product serial number**

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

Spa Model: \_\_\_\_\_

Spa Serial Number: \_\_\_\_\_

Date Purchased: \_\_\_\_\_

Date Installed: \_\_\_\_\_

Dealer's Phone Number: \_\_\_\_\_

Dealer's Address: \_\_\_\_\_

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

