

# Luxuria Hot Tubs

## Acrylic Spa Owner's Manual



Customer Service **1•800•656-7571**

**READ AND FOLLOW ALL INSTRUCTIONS**



Unit is IPX5 Compliant

*Congratulations on your purchase!*

Your new spa will bring you years of  
enjoyment and relaxation.

Please take the time to familiarize yourself with the safety  
precautions, operational procedures, routine water maintenance and  
cleaning.

*Enjoy!*

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### CONTACT INFORMATION

For customer service, please call 1-800-656-7571

*The manufacturer reserves the right to make product modifications and enhancements without notice.*

*Specifications and dimensions are approximate and for reference only.*

Customer Service 1•800•656-7571

## *Important Safety Instructions and Warnings*

**READ AND FOLLOW  
ALL INSTRUCTIONS**

***To reduce the risk of injury,  
do not permit children to use  
this product unless they are  
always supervised.***



- Do not use drugs or alcohol during or before the use of a spa or hot tub.
- Pregnant or possibly pregnant women should consult a physician before using a spa or hot tub.
- Water temperature in excess of 100°F may be a health risk.
- Before entering the spa or hot tub, measure the water temperature with an accurate thermometer.

### **!WARNING!**

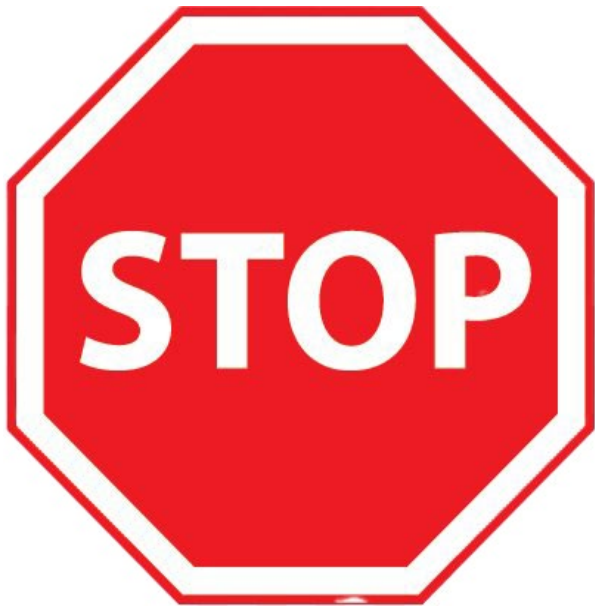
- Children should not use spas or hot tubs without adult supervision.
- Do not use spas or hot tubs unless all suction guards are installed to prevent body and hair entrapment.
- People using medications and/or having adverse medical history should consult a physician before using spa or hot tub.
- People with infectious diseases should not use spa or hot tub.
- To avoid injury, exercise care when entering or exiting the spa or hot tub.
- Do not use a spa or hot tub immediately following strenuous exercise.

**SAVE THESE INSTRUCTIONS**

## ***Important Safety Instructions and Warnings***

**READ AND FOLLOW  
ALL INSTRUCTIONS**

***To reduce the risk of injury, do not permit children to use this product unless they are always supervised***



### **!WARNING!**

- The use of alcohol or drugs can increase the risk of fatal hyperthermia in hot tubs or spas.
- People or children with reduced physical, sensory, mental capabilities, or lack of experience and knowledge should not use this appliance without supervision.
- Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above normal body temperature.
- Prolonged immersion in a spa or hot tub may be a health risk.
- Do not permit or use electric appliances (light, telephone, television or radio, etc.) within 5 feet of spa or hot tub.
- Maintain water chemistry in accordance with the manufacturer's instructions.
- To avoid a hazard due to inadvertent resetting of the thermal cutout. This appliance must not be supplied through an external switching device such as a timer or connected to a circuit that is regularly switched on and off by the utility.
- Symptoms of Hyperthermia may include:
  1. Unawareness of impending hazard.
  2. Failure to perceive heat.
  3. Failure to recognize the need to exit the spa or hot tub
  4. Physical inability to exit the spa or hot tub.
  5. Fetal damage in pregnant women.
  6. Unconsciousness

## Prepare for Your New Spa

### Prepare for Your New Spa

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 local code enforcement officer can provide information on which permits may be required and how to obtain them prior to the delivery of your spa. Curbside delivery does not include delivery to the final location of the spa. Planning a strategy to transport the hot tub from its curbside delivery location to the final location of the spa is recommended. Local hot tub companies or moving companies are options to assist you in transporting the spa

### Prepare a Good Foundation

**Damage caused by an inadequate or improper foundation is not covered by the warranty. The spa owner is responsible for providing a proper foundation.** Place the spa on a solid, level foundation. If you are installing the spa indoors (not recommended), pay close attention to the flooring beneath it. Choose flooring that will not be damaged or stained. If you are installing your spa on an elevated wood deck or other structure, consult a structural engineer or a contractor to ensure the structure will support the weight of 150 pounds per square foot. An adequate drainage system must be provided to deal with overflow water. Recommended foundations are concrete, pavers, or wood decks. Consult with a contractor to ensure the foundation is adequate to support the weight of the hot tub.



### Plan the Best Location SAFETY FIRST

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

## Consider Spa Use

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.

## Climate, Privacy and View

Place the spa near a house entry if you live in a snowy or rainy environment so you have a place to comfortably change clothes. Consider seasonal changes, too. Bare trees don't provide much privacy. And don't forget to think of your neighbor's view of you, and your view of your neighbors.

## Keep Your Spa Clean

In planning your spa's location, consider a location where there is a clean path to and from the house. Use a mat at the spa's entrance to encourage bathers to clean their feet before entering your spa.

## Allow for Service Access

If you are installing your spa near a wall or with any type of structure on the outside, such as a gazebo, remember to allow a minimum of 18" access for service.



## Prepare for Your New Spa

# 240 Volt Electrical Installation

(North America 60Hz)



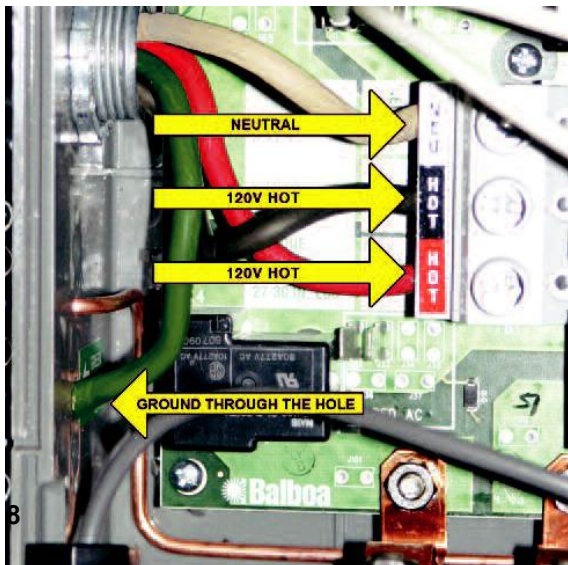
### WARNING:

The electrical circuit must be installed by an electrical contractor and approved by a local building or electrical inspector. Customer must provide a disconnect in the fixed wiring.

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. Improper installations present hazards which can result in personal injury or property damage and void the warranty on the spa.

Spa jumpers and dip switches are preconfigured for a 240V installation.

- All 240V spas must be permanently hardwired to the power supply. See US wiring diagram on page 9, European wiring diagram on page 10.
- Spas must be wired using this procedure. Any variance from these instructions 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 National Electric Code, ANSI/NFPA 70-2008 and any applicable local, state, and federal codes.
- All disconnect boxes must be at least 5 feet from spa or based on city ordinances of whichever is greater.



## GFCI and Wiring Requirements

- The power supplied to the spa must be on a dedicated GFCI protected circuit as required by ANSI/NFPA 70 with no other appliances or lights sharing the power.
- Use copper wire with THHN insulation. **Do not use aluminum wire.**
- Use the table on the next page to determine your GFCI and wiring requirements.
- When NEC requires the use of wires larger than #6 AWG, install a junction box near the spa and use #6 AWG wire between the junction box and the spa.
- Wire runs over 85 feet must increase wire gauge to the next lower number.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

## Testing the GFCI Breaker

Test the GFCI breaker prior to first use and periodically when the spa is powered. To test the GFCI breaker follow these instructions

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

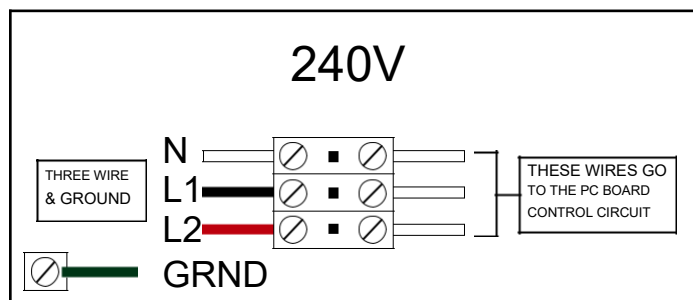
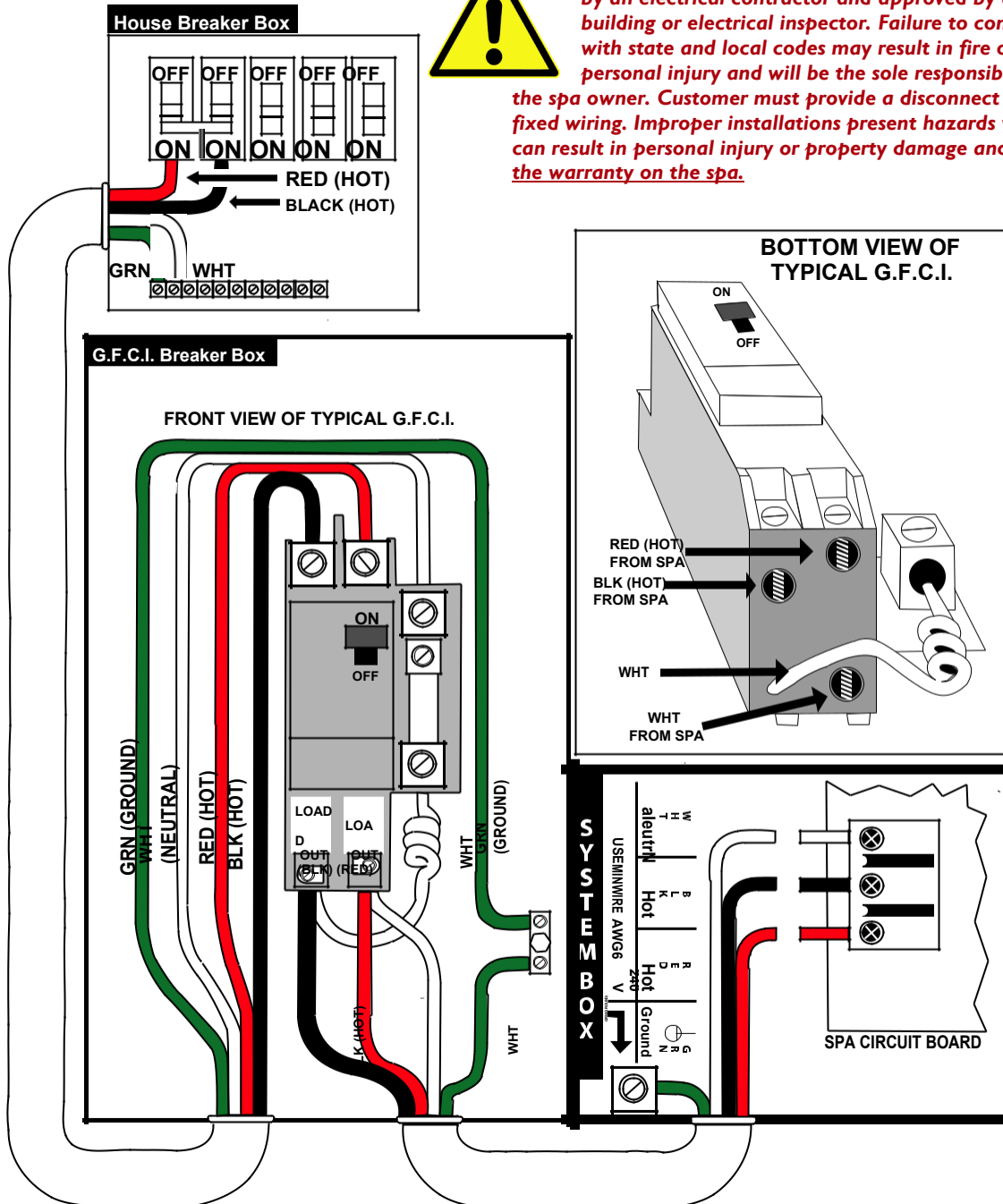
## Point of Entry for Electric Service

Installations can vary greatly from spa to spa, therefore the manufacturer does not have any pre-determined entry points for electrical service. The installer will need to determine the best point of entry and create an entry point. Any of the 4 walls or the spa base can be drilled through to make this access point. Prior to drilling, be sure that there are no components on the interior of the cabinet that will possibly be damaged or in the way while making the hole. The manufacturer recommends that some form of moisture barrier is used at the hole to pre-vent water from entering the spa. As long as all the above criteria are met, this will in no way void the warranty that is included with the spa.

# GFCI Wiring Diagram (North America 240V 60hZ)



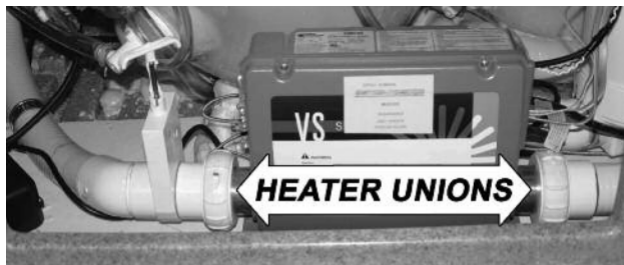
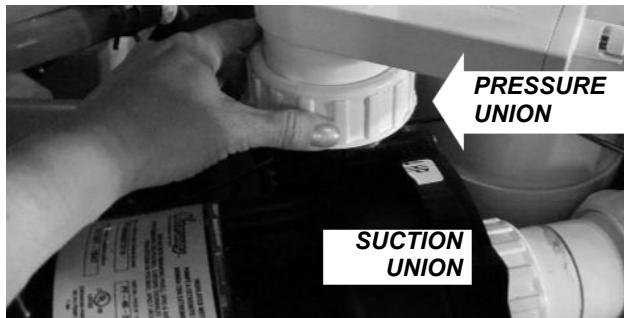
**WARNING:** The electrical circuit must be installed by an electrical contractor and approved by a local building or electrical inspector. Failure to comply with state and local codes may result in fire or personal injury and will be the sole responsibility of the spa owner. Customer must provide a disconnect in the fixed wiring. Improper installations present hazards which can result in personal injury or property damage and void the warranty on the spa.



## Operate Your Spa

# Filling and Starting

1. Place spa on an approved surface and have it properly wired by a licensed electrician.
2. Remove exterior spa panel near Service Access Side label by inserting a flathead screwdriver at bottom edge of resin panel and prying out or by prying out decorative plugs on UltraTec panels and unscrewing screws or unscrewing decorative metal threaded fasteners on panels.
3. Make sure white plumbing unions are secure and did not loosen during shipping. There will be 4 unions on a 1-pump spa: 6 unions on a 2-pump spa. Hand-tighten any loose unions.



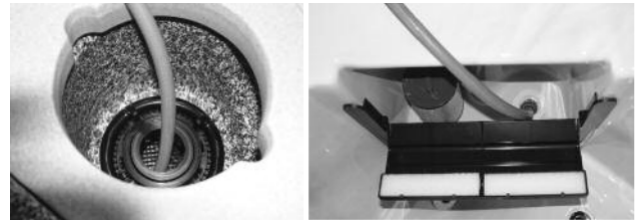
4. Open all gate valves in the equipment area. Before operation, these valves must be in the UP/OPEN position and have plastic clips inserted. Never run the spa with the gate valves closed or without water circulating for any period.



5. Remove the filter(s) (and weir and basket, if equipped) from filter chamber. Photos may vary from your spa model. Remove plastic film if applicable.



6. Place a garden hose in the filter chamber and fill your spa with regular tap water to 2" higher than the highest jet (excluding neck / shoulder jets). There is also a provided fill line indicator near your filter area. If the water is too high, it will overflow when people enter the bathing area. If the water is too low, air will enter through the filter and possibly cause airlock or even damage to the unit over time.



7. Install the filter(s) (and weir and basket, if equipped) into the filter chamber.

8. Once the water is at the correct level, turn on the power at the GFCI breaker.

*Note: When the power is turned on, the controls will perform a diagnostic check for a few minutes. When complete, the spa will automatically operate at filter speed and continue heating until water reaches 100°F.*

9. If water does not flow from jets when the pump is running, there could be an air pocket. See next page, *Priming the Pump*, for methods of removing air pockets from the pump(s)

## **Priming the Pump**

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 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.***

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.

***To remove a large air lock within the pump:***

- 1. Turn off power at the breaker.**
- 2. Remove the spa panel closest to the pump.**
- 3. Loosen the white Pressure Union on top of the pump by hand or with a strap wrench. When air is bled out, tighten the union, turn breaker on and set the pump on high speed.**



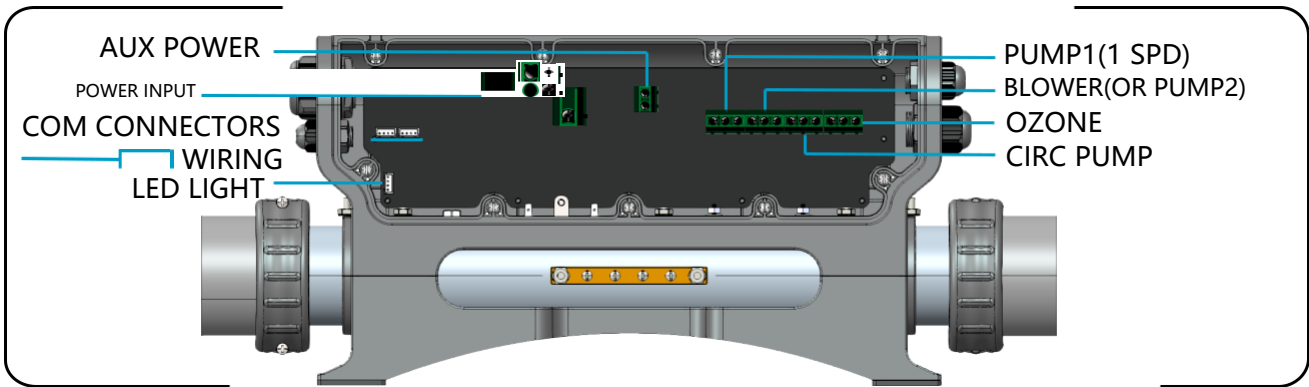


# P25B85

## Control System Installation Guide

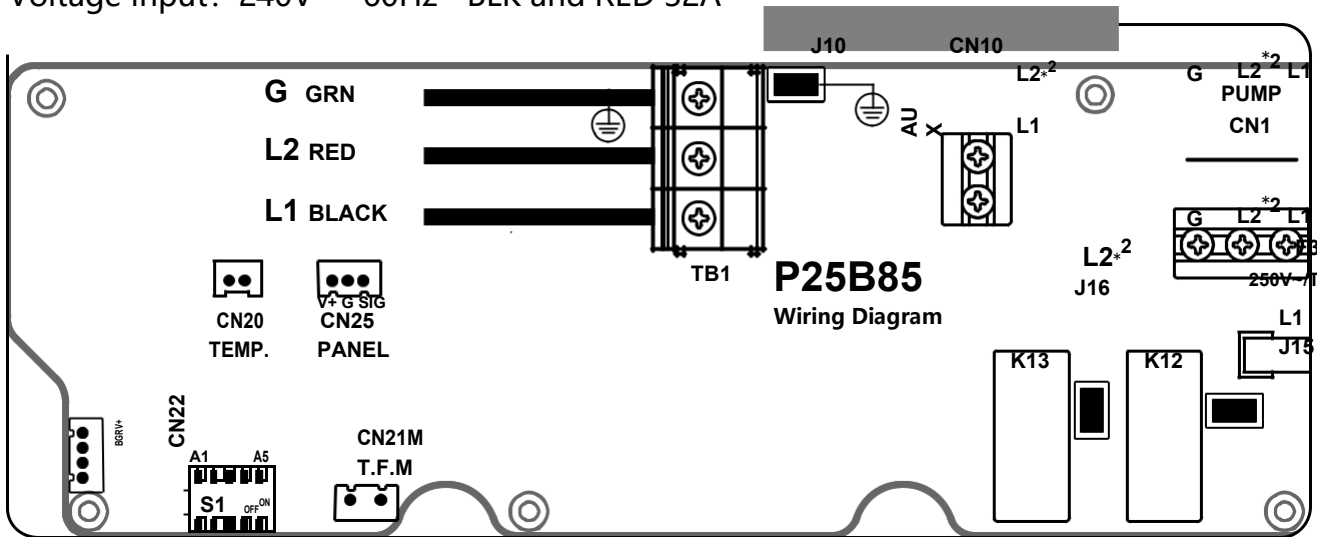


V1.1



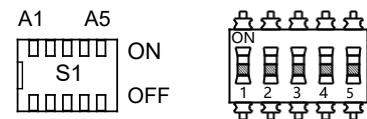
Connect the main power, when the system is powered off

Voltage input: 240V~ 60Hz BLK and RED 32A



Load configuration

Configure dial switch position A1-A5 according to the dial switch S1 configuration table (figure on the right) on the control system PCB



HOST SYSTEM	▲ A1 ▼	SLAVE SYSTEM
POWER NOT LIMIT	▲ A2 ▼	POWER LIMIT
BLOWER OUTPUT (CN2)	▲ A3 ▼	PUMP2 OUTPUT (CN2)
SETTING	▲ A4 ▼	STORE SETTING
PUMP1 1 SPEED	▲ A5 ▼	PUMP1 2 SPEED

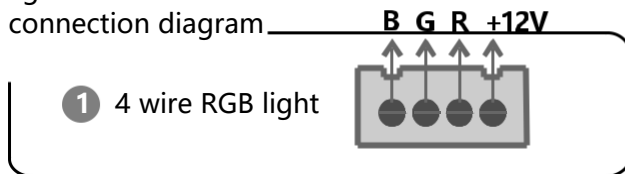
- Code position A1: If there is only one control system in the whole system, then please configure A1 as HOST SYSTEM; if there are two control systems in the whole system, then please configure one control system A1 as HOST SYSTEM, the other control system A1 as SLAVE SYSTEM.
- Configure A2 、 A3 and A5 according to specific function requirement.
- Pull A4 to ▲ON. Power the control system on and enter Set interface in the control panel. Press "←" or "⌚" for 3 seconds to enter Function interface. Then configure the loads as shown in the below figure. After configuration, please return to Set interface immediately so that the configuration can be stored. Note: the configuration must be done within 60 seconds after the control system is powered on.
- After configuring the loads with control panel, please power off the control system, and pull A4 to ▼ OFF.

**Choose the correct loads according to load parameter table.  
(Please connect the loads when the system is powered off)**

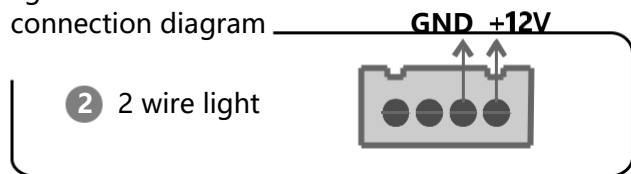
**HEATER PUMP OPTION (DEPENDS ON SWITCH A5)**

CIRC PUMP		LOW SPEED OF PUMP		BLOWER(PUMP2)	LIGHT	OZONE	AUX POWER
PUMP1(1 SPD)	CIRC PUMP	PUMP1(2 SPD)	CIRC PUMP				
10A MAX	2.5A MAX	HIGH:10A MAX LOW:2.5A MAX	N/A	10A MAX	12VDC 15W MAX	1A MAX	1A MAX
CN1	CN3	L (HIGH) - CN1 L (LOW) - CN3		CN2	CN22	CN4	CN10

light cable  
connection diagram



light cable  
connection diagram

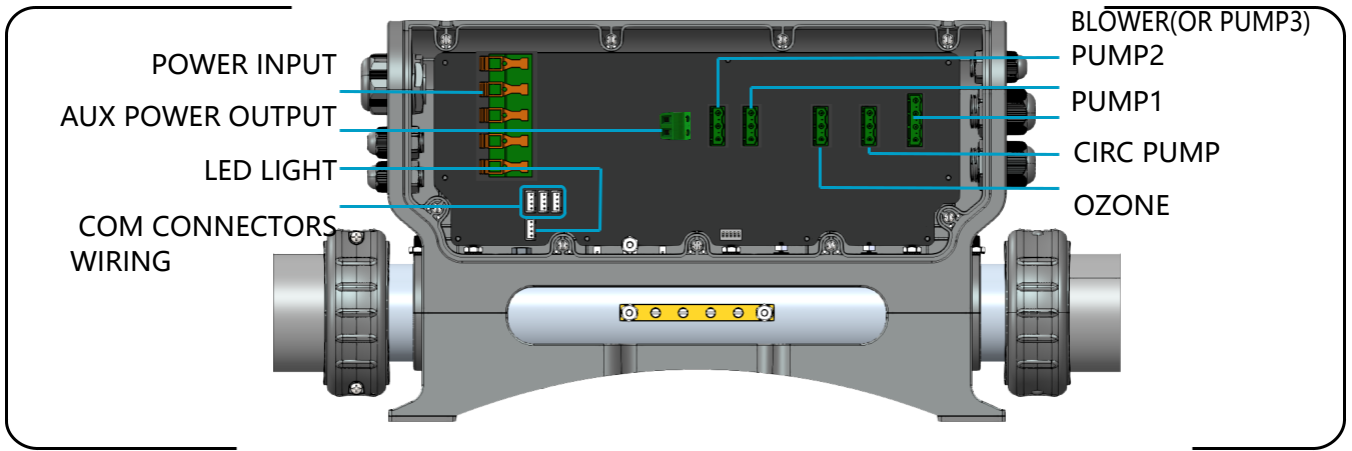




# P23B32

## Control System Installation Guide



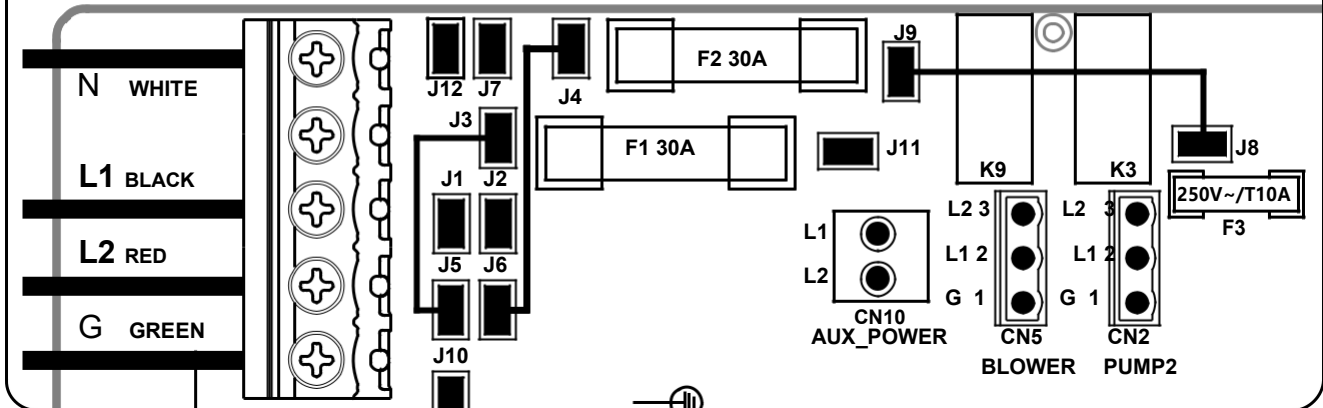


**Connect the main power, when the system is powered off (Please pay attention to connecting the jumper correctly)**

**NORTH AMERICAN USE**

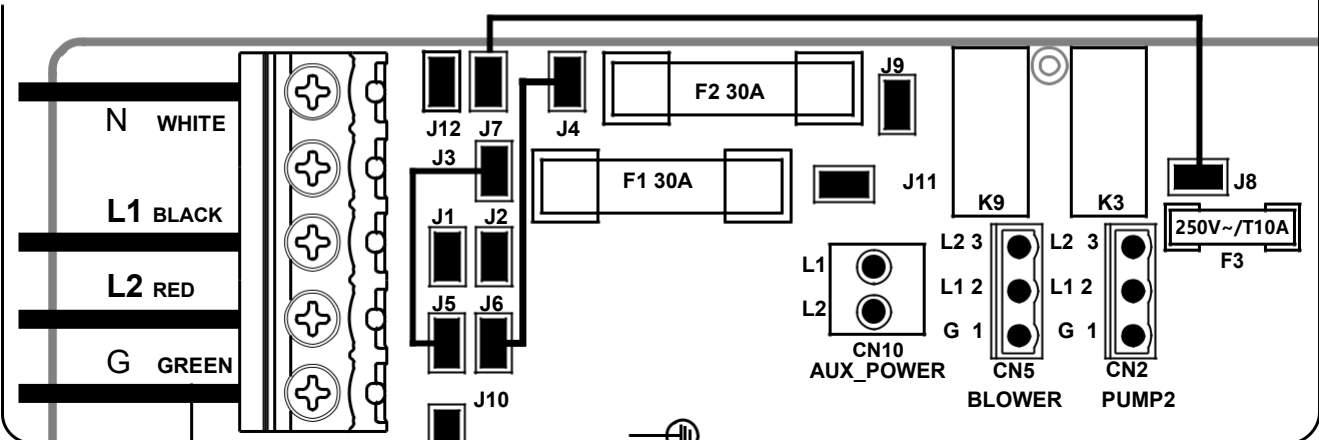
Voltage input: 240V~ 60Hz BLK and RED 45A /120V~ 60Hz BLK and WHT 6A  
Jumper: J8-J9 J3-J5 J4-J6

**The voltage of all loads is 240V**



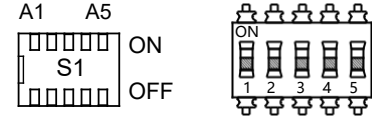
Voltage input: 240V~ 60Hz BLK and RED 45A /120V~ 60Hz BLK and WHT 6A  
Jumper: J7-J8 J3-J5 J4-J6

**The voltage of circ pump and ozone is 120V, The voltage of other loads is 240V**



## Load configuration

Configure dial switch position A1-A5 according to the dial switch S1 configuration table (figure on the right) on the control system PCB



<b>HOST SYSTEM</b>	▲ A1 ▼	<b>SLAVE SYSTEM</b>
<b>POWER NOT LIMIT</b>	▲ A2 ▼	<b>POWER LIMIT</b>
<b>BLOWER OUTPUT (CN5)</b>	▲ A3 ▼	<b>PUMP2 OUTPUT (CN5)</b>
<b>SETTING</b>	▲ A4 ▼	<b>STORE SETTING</b>
<b>PUMP1 1 SPEED</b>	▲ A5 ▼	<b>PUMP1 2 SPEED</b>

1. Code position A1: If there is only one control system in the whole system, then please configure A1 as HOST SYSTEM; if there are two control systems in the whole system, then please configure one control system A1 as HOST SYSTEM, the other control system A1 as SLAVE SYSTEM.
2. Configure A2、A3 and A5 according to specific function requirement.
3. Pull A4 to ▲ON. Power the control system on and enter Set interface in the control panel. Press "←" or "↶" for 3 seconds to enter Function interface. Then configure the loads as shown in the below figure. After configuration, please return to Set interface immediately so that the configuration can be stored. Note: the configuration must be done within 60 seconds after the control system is powered on.
4. After configuring the loads with control panel, please power off the control system, and pull A4 to ▼OFF.

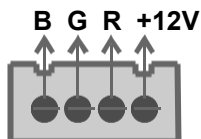


**Choose the correct loads according to load parameter table.  
(Please connect the loads when the system is powered off)**

HEATER PUMP OPTION (DEPEND ON SWITCH A5)								
CIRC PUMP		LOW SPEED OF PUMP1						
PUMP1(1 SPD)	CIRC PUMP	PUMP1(2 SPD)	CIRC PUMP	PUMP2	BLOWER (PUMP3)	OZONE	LIGHT	AUXPOWER
10A MAX	2.5A MAX	HIGH:10A MAX LOW:2.5A MAX	N/A	10A MAX	10A MAX	1A MAX	12VDC 15W MAX	1A MAX
CN1	CN6	CN1		CN2	CN5	CN7	CN22	CN10

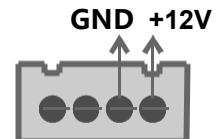
light cable connection diagram

● 4 wire RGB light



light cable connection diagram

● 2 wire light



**USER NOTES:**

# PB557 Control Panel Operation Instructions



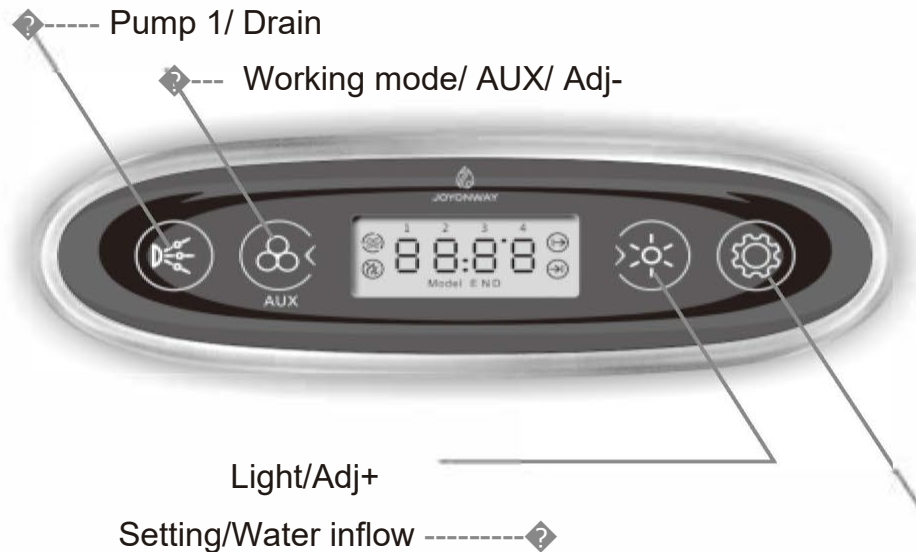
## WARNING

1. Please connect power strictly according to the SPA power data plate.
2. Please do not turn the SPA power on until the water reaches water level line inside the tub.



## WARNING

Please set time and date before using the SPA control system.



Main interface: the below two interfaces will be displayed in turn:




## I. Functions

### Pump I

When the control system is powered on and not in sleeping mode, if pump I is a single speed pump, then press the key one time to turn on and twice to turn off to. If pump I is a two speed pump, then press the key one time for low speed, two times for high speed, and three times to turn off.

Pump I will turn off automatically after running for a certain period of time.

### Drain (when the control system is equipped with this function)

When the control system is powered on and not in sleeping mode, press the key for 2 seconds to control the on/off of drain jet. When the drain solenoid is on,  will be displayed in the main interface.

**Pump 2** (when the control system is equipped with this function)

When the control system is powered on and not in sleeping mode, or setting mode, press the key to control the on/off of pump 2.

Pump 2 will turn off automatically after running for a certain period of time.

**Blower** (when the control system is equipped with this function)

When the control system is powered on and not in sleeping mode, or setting mode, press the key to control the on/off of blower.

Blower will turn off automatically after running for 30 minutes.

**Manual cycle pump** (when pump 1 is set as single speed pump and the system does not have pump 2 or blower function)

When the control system is powered on and not in sleeping mode, or setting mode, press the key to control manual cycle pump.

When heating cycle pump or timing water cycle or pump 1 is started, cycle pump cannot be manually turned off.

Manual cycle pump will turn off automatically after running for a certain period of time.

**Working mode**

When the system is powered on and not in setting mode, press the key for 2 seconds to switch the working mode.

The system has three working modes (the system being powered is considered as standard mode by default):

Standard mode (LCD displaying Model N): heating function will be valid in 24 hours. If system time falls in water cycle set time period, filtering water cycle function will be valid.

Economy mode (LCD displaying Model E): if system time falls in water cycle set time period, filtering water cycle function is valid; if system time falls in heating set time period, heating function will be valid. If system time is out of the set time period, freezing proof function will be started.

Sleeping mode (LCD displaying Model D): freezing proof will be started, and other loads will be turned off and cannot be controlled by keys.

## Light

When the control system is powered on and not in sleeping mode, or setting mode, press the key to control light. Press the key for 2 seconds to turn off the light in short time. Light will automatically turn off after working for 2 hours.

Light has two modes. In on/ off mode, light turning on and off are controlled. In RGB mode, the control regulation is as below:

- state 1 auto color change (color changing among state 2 to state 8 in cycle)
- state 2 red
- state 3 green
- state 4 yellow
- state 5 blue
- state 6 purple
- state 7 cyan
- state 8 white
- state 9 turning off



**Water inflow** (when the system is equipped with this function)

When the control system is powered on and not in sleeping mode, press the key for 2 seconds to control the water inflow solenoid. When the water inflow solenoid is on, will be displayed in the main interface.

When water is detected in the system, water inflow solenoid will be turned off automatically.

## Freezing proof

When water temperature is lower than 43°F, heating will be started. When the temperature reaches 50°F, heating will be turned off.

**Water level sensing** (when the system is equipped with this function)

If the control system is equipped with water level sensing function, pump, cycle pump, and heating can only be started when there is water detected. If no water is detected in normal usage, the mentioned loads will be turned off.

## Timing water cycle

When system works in standard and economy mode, timing water cycle is valid. In sleeping mode, timing water cycle is invalid.

The control system has two water cycle setting time periods. Before usage, please set the two time periods.

If the system time falls in either of the time periods, water cycle will be started. If the system time is in neither of the time periods, water cycle will be turned off.

## Ozone



Ozone will be turned off when pump, blower, water inflow or draining is started.

When pump, blower, water inflow and draining are turned off and heating cycle pump or timing water cycle is started, ozone will be automatically started. When both heating cycle pump and timing water cycle are turned off, ozone will be turned off automatically.


## Heating



Heating function will be started automatically in standard mode. In economy mode, it will start in set time periods. In sleeping mode, it will start when temperature is lower than 43°F.

## II. Setting



Press "" and "" at the same time for 2 seconds to change the temperature unit (°C or °F).


### Temperature setting

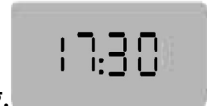
When the system is powered on, press "". LCD displays with



flashing temperature unit (F°/C°). Press "" or "" to set the temperature value. The system will store the set temperature value.

## Clock Setting

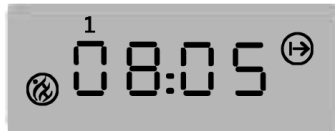
Press "  " until LCD displays the hour value flashing. Then press "  " (up) and

"  " (down) to adjust the hour value. Press "  " until clock minute setting.



LCD will display minute value with flash. Then press "  " (up) and "  " (down) to adjust the minute value.

## Setting Heat Time Periods



I Starting Time





Period I Ending Time






Period 2 Starting Time



Period 2 Ending Time

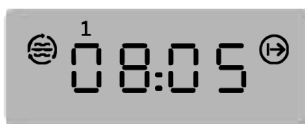
"1" and "2" in LCD stand for time period I and time period 2.  and  in LCD stands for start and end times.

Press "  " until entering heating time period setting interface. The correspondent time value will flash. Press "  " and "  " to adjust the time.

The system will automatically store the value after timing heating time period setting.

"  " indicates heating cycle.

## Timing water cycle time period setting



Timing water cycle time period I Starting time setting interface



Timing water cycle time period I Ending time setting interface



Timing water cycle time period 2 Starting time setting interface



Timing water cycle time period 2 Ending time setting interface

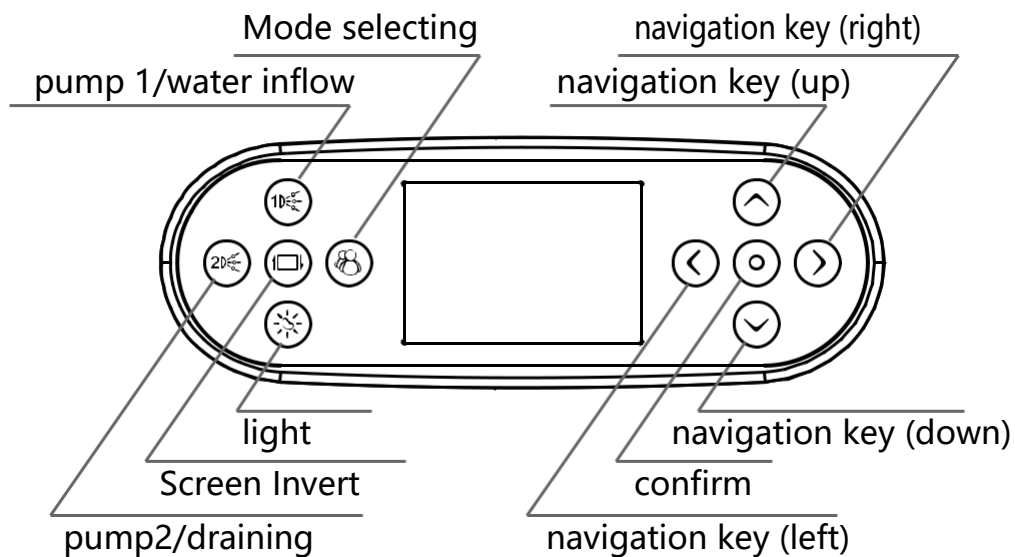
# PB553 Control Panel Operation Instructions

## **WARNING**

1. Please connect power strictly according to the SPA power data plate.
2. Please do not turn the SPA power on until the water reaches water level line inside the tub.

## **WARNING**

Please set time and date before using the SPA control system.



### **Pump 1:**

Will be used to control the on/off of pump 1, if pump 1 is single speed pump. If pump 1 is a double speed pump, pressing continuously the key can switch from low speed to high speed and off. The sequence is: start low speed, >start high speed >turn off.

### **Pump 2:**

Are with the same function as pump 1 shortcut key.  
Press for 1 second to start draining

### **Screen Invert:**

It can realize the displayed content 180 degree inverting and navigation key direction will be changed accordingly.


## Light:

Light has two modes, on/off. With each on/off cycle, the light color changes.

## Mode selecting shortcut key:

It has five different modes. Pressing the key in turn can select the different modes stored by the users. Each mode must be programmed by user.

## Manual Heating









When manual heating function is started, a heating icon “ Heat” added in the menu. Users can manually start the heater in the home interface. When the manual heating function is turned off, the heating icon will disappear. We recommend using programmed heating times instead of manual heating times.



## Timing heating and its time setting


Programmed times allow heater to turn on/off automatically. The two time periods are independent from each other although periods can be overlapped.

For example, if time period 1 is 06:15 ---13:15, time period 2 is 10:15---16:15, the heater will work between 06:15---16:15. If the starting time is larger than the ending time, then the heater will continuously work till the ending time of next day. For example, if the time period is between 20:00---10:00, then the heater will work from the 20:00 of first day till the 10:00 of the next day. Note: when the time period is set as on, during the period, the heater will work. If the time period is set as off, heater will be turned off.

When the green cursor is on “1” or “2”, press  to set time period as on or off. Press  to enter time setting. Press  to move the cursor. Press  and  to set the time. Press  and  to exit the time editing. And cursor will move back to the very left side. After the time setting is done, press  to store the setting and return.

## Manual C.pump

When the manual cycle pump function is started, there will be a cycle pump icon



 **CPump** added in the function operation interface. Users can manually start cycle pump in the home interface. When the manual cycle pump function is turned off, this icon will disappear. We recommend setting automatic filtration times.




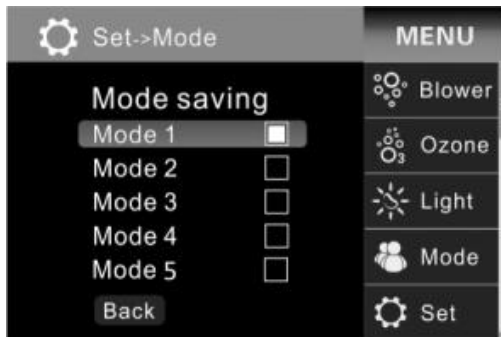
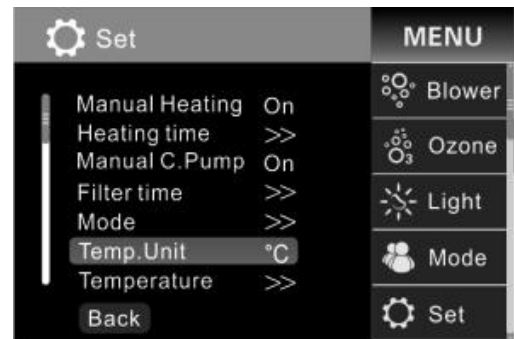
## Filter time

When the control system is set to timed water cycle mode, it is on/off and time period setting methods are the same as timed heating.

## Temperature unit

In Set of the menu, press “” and “” to move the cursor to Temp Unit. Then press



“”. Temperature unit can be set as °C or °F.




## Mode



PB553 control panel have five different modes. They can be stored and selected with navigation keys.



How to store the setting: In Set > Mode of


the menu, press “” and “” to move the cursor to the items need to be

saved then press “”. If the square on the right side of the item is solid, then it indicates the current mode is stored. Mode of jet(pump), blower, ozone, heat, and light can be stored.




Mode

How to select the mode stored: In the main interface, press “” and “” to

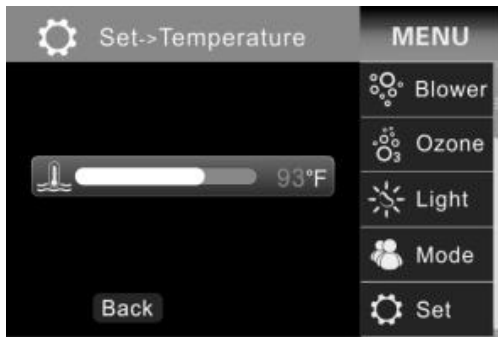
move the cursor to “ Mode”. Then press “” in turn to select the stored the modes. Modes of PB553 control panel can be selected by short-cut key

“”. Note: please pre-set mode function before use it the first time.

## Auto lock

In the set of menu, press “” and “” to move the cursor to “Auto Lock”. Then press “” to set the lock starting time as “off”, “30S”, “1 min” and “3 min”. When set as off, the lock function is turned off. When the lock is started, press

continuously “⊙” for 3S. When “Auto Lock” disappears from the screen, the auto lock function is disabled.



## Temperature setting

Temperature setting range is 50 F- 104F (10C - 40C). In Set > Temperature of the menu, temperature value can be increased or


decreased with “◀” and “▶”. Temperature setting will be automatically stored when exit menu.

## Ozone

Ozone function has manual mode and auto mode.

In the Set of the menu, press “◀” and “▶” to move the cursor to Ozone.

Then press “⊙” to set the ozone as auto start mode or manual start mode. Auto start operation can refer to control regulation description of the control system.

In manual mode, there will be a icon “ Ozone” added in the menu. Users can manually start the ozone in main interface. When manual start mode is turned off, the icon will disappear.

## Wifi

When the control system is connected with a wifi module, in the Set > of the menu, there will be wifi.

Wifi transceiver has three states: “OFF”, “AP”, and “Sta”.

Wifi mode can be compulsively set as AP or OFF. But it can not be set as Sta mode compulsively. When the wifi transceiver is connected to a router, the system will automatically set the wifi mode as Sta.

When the wifi mode is compulsively set as AP, the wifi transceiver will be automatically disconnected and the connected the wifi will be forgotten. When users compulsively set the wifi mode as OFF, wifi transceiver will stop working.

Reset the APP login password: when users forget APP login password, they can reset the password on the panel to the factory default “Joyonway” .



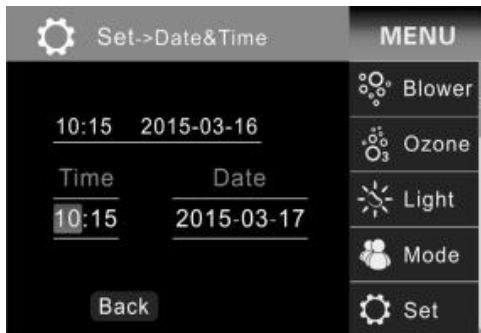
When the wifi transceiver is on OFF mode, pressing “▶”, wifi state will be displayed as “clean”. After a few seconds, when wifi state is switched to “AP”, it indicates the password is successfully reset. For wifi connection and operation method, please refer to SPA APP manual instruction.

### Backlight brightness setting

Backlight brightness setting range is 1-30.

In Set -> brightness of the menu, press

“<” and “>” to adjust the backlight brightness. The value will be automatically stored when exiting the menu.



### Date & time

In Set > Date & Time of the menu, press “>” to move the cursor, and set the date and time with

“<” and “>”. The setting will be automatically stored after exiting the menu. If the control system is off power, the correct time setting can be kept for a few days.

When some problems occur requiring users' attention, the alarming information will be displayed on the control panel. If several problems occur at the same time, the alarming information will be displayed in turn. Below is an example:

Below is the detailed description of the control system alarming information:



Alarming information display position

**F1:TEMPERATURE SENSOR DISCONNECTED**

### Temperature sensor disconnected

Control system detects the temperature sensor is disconnected. Please check the connection of temperature sensor to the system. And replace it with a new one if necessary. If the problem remains, please contact technical support.

**F2:TEMPERATURE SENSOR SHORTCIRCUIT**

### Temperature sensor short circuit display

Control system detects the temperature sensor is short circuited. Please check the temperature sensor and its connection. Replace it with a new one if necessary.

**F3:TEMPERATURE IS  
TOO HIGH**

**Temperature is too high**

Reason: the system detects the temperature sensor's temperature being too high. This can happen when the heater is on, and there is no water in the heating pipe, or the water flow is too slim. Action: please ensure there is water in the SPA tub. If the problems occur frequently, please contact technical support.

**F4:TEMPERATURE IS  
TOO LOW**

**Temperature is too low**

Control system detects temperature sensor's temperature being too low. Please pay attention to freezing problem.

**F5:AUTO-RESET  
THERMOSWITCH OPEN**

**Auto reset thermo switch open**

It indicates that the heating pipe temperature is too high. This may happen when heater is started and there is no water in heating pipe or water flow is too slim. Action: Please ensure there is water in the SPA tub. If the problem occurs frequently, please contact for technical support.

**F6:MANUAL-RESET  
THERMOSWITCH OPEN**

**Manual-reset thermo switch open**

It indicates the heating pipe temperature is too high. Please contact technical support.

**F8:EEPROM(MEMORY)  
ERROR**

**Eeprom (main Board Memory) Error**

Please disconnect the power and wait for 10 seconds to repower the system. If the problem remains, please contact technical support.

**F9:SYSTEM SETTINGS  
ERROR**

**System setting error display**

Reason: After power connection, the system reads the system configuration verification to be incorrect from EEPROM (main board memory). Action: please disconnect the power and wait for 10 seconds to repower the system. If the problem remains, please contact technical support.

## Operate Your Spa

### Two-Pump Spas and Two-Pump + Blower Spas

#### Jets 1

Touch the “Jets 1” button once to turn pump 1 on or off, and to shift between low and high speeds. If left running, the low speed of the pump will automatically turn off after 2 hours, and the high speed will automatically turn off after 15 minutes.

#### Jets 2

Touch the “Jets 2” button once to turn pump 2 on or off and to shift between low and high speeds. If left running, pump 2 will automatically turn off after 15 minutes.

#### Option (if equipped)

This button is used to turn on the blower/pump in 3 pump spas. This is 1-speed only and will turn off automatically after 15 minutes.

#### Lights

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. LEDs operate in four modes. The mode is changed by turning the light off and then immediately back on

**1. Fading:** The lights will cycle through all the colors in this order: White, Cyan, Magenta, Blue, Yellow/Green, Green, Red

**2. Color Locked:** This cycle offers a hard color change without fading.

**3. Quick Color Change:** Each time you press the button, you advance to the next color.

**4. Flashing white:** The LED lights will flash white.

#### “WARM / COOL” Buttons

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### Three-Pump Spas and Two-Pump + Blower Spas

#### Jets 1

Press the “Jets 1” button once to turn pump 1 on or off, and to shift between low and high speeds if equipped. If left running, the pump will turn off after a timeout period. The pump 1 low speed timeout on some systems may be as long as 4 hours.

On non-circ systems, the low speed of pump 1 runs when the blower or any other pump is on. It may also activate for at least 1 minute every 30 minutes to detect the spa temperature (polling) and then to heat to the set temperature if needed, depending upon mode. When the low speed turns on automatically, it cannot be deactivated from the panel; however, the high speed may be started.

#### Jets 2 (optional on some systems)

Press the “Jets 2” button once to turn pump 2 on or off. If left running, the pump will turn off after a timeout period.

#### Jets 3 (optional on some systems)

Press the “Jets 3” button once to turn pump 3 on or off. If left running, the pump will turn off after a timeout period.

#### Blower (optional on some systems)

1-speed operation: on/off; If left on, the blower will automatically turn off after a timeout period.

#### Lights

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. LEDs operate in four modes. The mode is changed by turning the light off and then immediately back on

**1. Fading:** The lights will cycle through all the colors in this order: White, Cyan, Magenta, Blue, Yellow/Green, Green, Red

- 2. Color Locked:** This cycle offers a hard color change without fading.
- 3. Quick Color Change:** Each time you press the button, you advance to the next color.
- 4. Flashing white:** The LED lights will flash white.

### Cool/Warm

Press the “Cool” or “Warm” button once to display the set temperature. Each time either button is pressed again, the set temperature will increase or decrease depending on which button is pressed. After three seconds, the LCD will automatically display the last measured spa temperature.

### Mode

This button is used to switch between Standard, Economy, and Sleep modes. Press “Mode” to enter mode programming, press “Cool” to cycle through to desired mode (LCD flashes until confirmed), then press “Mode” to confirm selection.

**Standard mode** maintains the desired temperature. Note that the last measured spa temperature displayed is current only when the pump has been running for at least 1 minute. “Std” will appear on the display momentarily when you switch into Standard Mode.

**Economy mode** heats the spa to the set temperature only during filter cycles. “Ecn” will appear solid when the temperature is not current and will alternate with the temperature when the temperature is current.

Pressing “Jets 1” while in Economy mode puts the spa in **Standard-In-Economy mode**, (“SE”) which operates the same as Standard Mode, then reverts to Economy Mode automatically after 1 hour. During this time, pressing “Cool” or “Warm” followed by “Light” will revert the mode to Economy immediately.

**Sleep mode** heats the spa to within 20°F (11°C) of the set temperature only during filter cycles. “SLP” will appear on the display until mode is changed.

### Standby Mode

Pressing “Cool” or “Warm” followed by “Blower” or “Jets 2” or “Aux” will turn off all spa functions temporarily. This is helpful when changing a filter. Pressing any button exits Standby mode. On some systems the “Jets 1” button will control the pump in

Standby Mode (“Drain Mode”). In this case, press any other button to exit. System will revert to previous mode after 1 hour.

**Control Pack Codes** See pages 32-34.

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## Operational and Energy Tips

### I. Control Valves – air and water controls on the top of spa

- a. Average to Cold Climate** - When not in the spa, make sure the valves are turned off. All these valves will inject a certain amount of air into the water which causes a cooling effect. Therefore, your spa will have to heat more often and cost more money to operate.
- b. Hot Climate** – Hot tubs are only designed to heat up and maintain temperature, therefore hot climate can make a spa overheat. In these areas, the control valves can be left open all the time to help cool the spa down.

### 2. Filter Settings – Time and Duration

#### a. Filter settings

- i. Filter times** - To set your filter time, simply power your spa on at desired filter start time. If you power the spa up at 8:00am, it will filter at 8:00am and 8:00pm daily until the power is turned off and on again.
  - 1. Savings** – if your electric provider offers different rate per KWH (peak / off-peak) then you will want your filter time to take place during off-peak time.
  - 2. Cooling a Spa** – if you are experiencing over heating with your spa, have the spa filter during cooler times of the day, and leave the control valves opened like mentioned prior.
- ii. Filter setting F2,F4,F6,F8,and FC = filter constantly**
  - 1.** The factory setting is F2, which means the spa will filter 2 hours for every 12 hour period. 4 hours total per day. Since we use a large primary pump for your filtration, it moves a lot of water quickly. Therefore, we recommend you keep your filtration at no

## Operate Your Spa

more than F4, anything longer will just waste electricity and in warm climates the spa may overheat.

### 3. Heating Modes – Standard, Economy, and Sleep

**a. 4 Button Controllers Only** - These options are not always unlocked from the factory and may require a settings change. Attempt to change the mode several times prior and if no results a dip switch will need changed.

#### b. Standard – St, Std

**i. Standard is the default setting**, and you are in standard mode if none of the other setting codes show up

1. Temperature will be at or near desired temperature constantly
2. Pumps turn on at regular intervals to check and maintain temperature
3. Best to use at startup of spa, it will heat until desired temperature is reached
4. Best to use in cold climates
5. Most costly to operate

#### c. Economy – Ec, Ecn

**i. Economy** is the power saving alternative for regular heating, you will know that you are in economy by the code displayed. If the pump is running the current temperature and code will alternate on the display.

1. Spa will only heat during filter period
2. Temperature will remain close to desired, but it will drop between filter periods
3. If users can get in a routine, filter period should overlap the usage time by a half hour. This will have spa temperature closest to the desired temperature.
  - a. Example, if using the spa at 8:00 have spa filter from 6:30 – 8:30.
4. Best used in mild to warm climates
5. Tests show a 20% reduction in energy consumption when compared to standard mode

#### d. Sleep – Sl, SLP

**i. Sleep** is considered a vacation heater setting, and will maintain your spa water at the most affordable price

1. Spa will only heat during your filter period
2. The water temperature may drop up to 20 degrees below your desired temperature
3. Will work in all climates, and will not allow

the spa to freeze

4. Tests show a 50%+ reduction in energy consumption when compared to standard mode

### 4. Steam Loss / Venting Around Spa

**Cover a. It is normal** to see an occasional burst of steam from around the cover due to pressure releasing from a high to low area. However, heat loss can be greatly impacted by use of the spa

**i. Control valves** should be turned off when getting out of the spa in a cool climate.

1. Air injects from the cabinet and enters into the water area. That air not only will cool the cabinet area but will also greatly increase the pressure under the cover and cause more steam to release.

**ii. Surfaces are different for all spas**, and covers may provide a better seal is spun differently.

1. If the folding seam goes over the controller area, often more steam will be able to escape. Try to position the cover so that the fold seam goes over the wider top surface areas on the adjacent sides.

### Proper Spa Cover Use

*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 photo for instructions on mounting the locks and how to lock and unlock the cover.
- In addition, while a soft 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.

# Personal Settings

## Jets



Most jets in your spa are adjustable. Rotating the face of an **adjustable jet** to the left (counterclockwise) will increase the amount of water flow through the jet. Rotating the face

of an adjustable jet to the right (clockwise) will decrease the amount of water flow through the jet.



**Neck jets** can be turned on and off using the nearby **water on/off knob**.

## Air Controls



Air controls are the **2" 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 control 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).

## Diverter Knobs (if equipped)

Diverter knobs are **3" 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).



## Water Feature Controls (if equipped)



Some spas include waterfalls and/or water columns. Increase or decrease the flow

of the waterfall using the **2" water on/off knob** nearest the water feature.

## Water Columns (if equipped)



### IMPORTANT!

When spa session is over, and before cover is closed, **these water features MUST be turned off using the water control knob nearest the feature** or water will continue to run through them, potentially causing draining of your spa, depending on how long they are left on.

# Chemical Safety

Read and follow all printed instructions listed on bottles and packages. Failure to follow chemical directions may result in serious injury, sickness, or even death.

All chemicals must be premixed and fully dissolved in a container outside of the spa and then added to the center of the spa with pumps on.

**! WARNING!**  
**Never add chemicals to your spa while bathers are in the spa!**

**! Do not exceed chemical dosages as recommended on chemical bottles and packages.**

**! Never change chemical brands or types without completely draining, flushing and thoroughly cleaning the spa and cover first.**

**! WARNING!**  
**Never mix chemicals together.**

**! Do not allow chemicals to come in contact with skin, eyes or clothing. Remove and wash clothing that may have been exposed to chemical contact prior to wearing them again.**

**! Inhaling or ingesting chemicals will cause serious injury, sickness, or even death.**

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

## **Maintenance Schedule**

### ***Each time you refill the spa***

- Follow the Filling and Starting procedure.
  - Heavy use of spa may require more frequent cleanings.

### ***Prior to each use***

- Test the spa water using either test strips or a reagent test kit. Adjust chemical levels as necessary.

### ***Once a week***

- Test the spa water using either test strips or a reagent test kit. Adjust chemical levels as necessary.

### ***Once a month***

- Deep clean your spa's filter.
- Apply spa vinyl cleaner/protectant to vinyl spa soft cover and pillows.

### ***Every 3-4 months***

- Drain and clean your spa with non-abrasive cleaner.
- Polish shell with acrylic surface cleaner.
- Follow the Filling and Starting procedure.

### ***Once a year\****

- Replace filter cartridge(s) if the pleats appear frayed or damaged.

\*May require more frequent replacement, depending on use.

### ***Every 2 years***

- Replace your ozonator.

## Draining Your Spa

Your spa should be drained every 3-4 months and refilled with fresh tap water. The following is the recommended method for draining your spa.

1. Turn off the power at the breaker.
2. Remove filter.
3. Your drain valve is located inside the spa cabinet on the Service Access Side.
4. Locate hose ending with the 3/4-inch hose shut-off valve.
5. Hook up the female end of a garden hose to the drain fitting.
6. Place the other end of the garden hose where you would like the water to drain to.
7. Twist the hose shut-off valve counterclockwise to open the drain.
8. Let spa drain completely, then remove garden hose.
9. Twist the hose shut-off valve clockwise to close it and replace cap.



Water drained from your spa is safe to dispose of in your yard, septic system or in a drain. Follow all local/municipal codes and regulations for disposal.

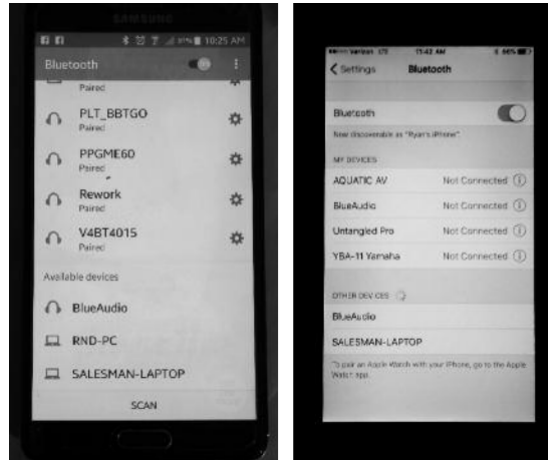
## Sound System Feature

(if equipped)

Marine grade stereo options are available. Spas equipped with an audio system are delivered with the manufacturer's operating instructions. Also:

- Make sure that hands are dry before use.
- Water damage is not covered by spa manufacturer or the sound system manufacturer's warranties.
- The system is water resistant but NOT waterproof. Take every precaution to keep this system dry. Water damage is not covered by spa manufacturer or sound system manufacturer's warranties.

### Bluetooth Stereo Instructions



Connect Bluetooth device by scanning for devices and selecting proper Bluetooth device.

Pair using code 2,2,8,8



### AUDIO EQUIPMENT RISK OF ELECTRIC SHOCK

- a) "CAUTION – Risk of Electric Shock. Do not leave compartment door open";
- b) "CAUTION – Risk of Electric Shock. Replace components only with identical components"; and
- c) "Do not operate the audio/video controls while inside in the spa".
- d) "WARNING – Prevent Electrocutation. Do not connect any auxiliary components (for example cable, additional speakers, headphones, additional audio/video components, etc.) to the system".
- e) These units are not provided with an outdoor antennae; when provided, it should be installed in accordance with Article 810 of the National Electrical Code, ANSI/NFPA 70
- f) Do not service this product yourself as opening or removing covers may expose you to dangerous voltage or other risk of injury. Refer all servicing to qualified service personnel.
- g) When the power supply connections or power supply cord(s) are damaged; if water is entering the audio/video compartment or any electrical equipment compartment area; if the protective shields or barriers are showing signs of deterioration; or if there are signs of other potential damage to the unit, turn off the unit and refer servicing to a qualified service personnel.
- h) This unit should be subjected to periodic routine maintenance (for example, once every 3 months) to make sure that the unit is operating properly.

## Winterizing and De-Winterizing Your Spa

# Winterization Procedure

**Important: Damage caused by improper winterization is not covered under the manufacturer's warranty.**

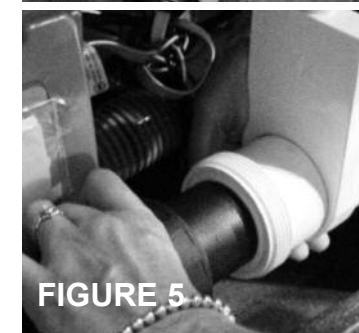
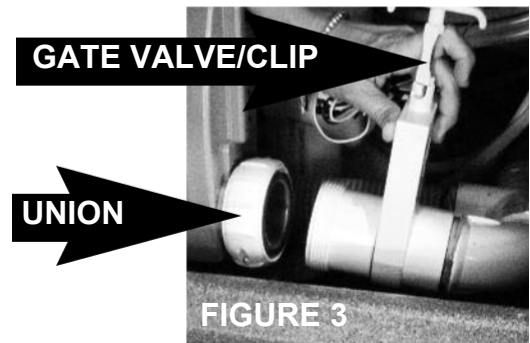
1. Turn off power at the **GFCI circuit breaker** before draining or servicing your spa.
2. Remove panel
3. Attach a garden hose to the drain and open the blue ball valve (Figure 2). Water will start to drain. You may have some water left in the spa shell that did not drain. Remove it with a wet-vac or by hand with a small cup.

Water drained from your spa is safe to dispose of in your yard, septic system or in a drain. Follow all local/municipal codes and regulations for disposal.

4. Loosen all large white unions from heater and pump(s) to let excess water drain from the lines (Figure 3). **Your spa may have more than one pump. Be sure to follow winterization procedures for each pump and all unions.**
5. After the spa has drained, you **MUST** also use a wet-vac to re-move the water from the lines by vacuum/suction. Water left in the lines and jets will freeze and damage them.

To adequately clean out the lines, place the wet-vac for 10-15 seconds over: each drain (Figure 4); each union (Figures 5 and 6); each jet face (Figure 7); each suction (Figure 8); and the filter cavity (Figure 9). See *filter removal procedure*.

6. Tighten all unions and make sure all gate valves are open with clips installed (Figure 3).
7. Pour a gallon of spa antifreeze into the top of each pump (Figure 10) and a gallon into the filter cavity (Figure 11).
8. Replace all exterior panels.
9. Close your spa cover.

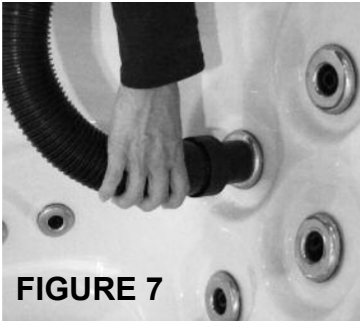


## Winterizing and De-Winterizing Your Spa

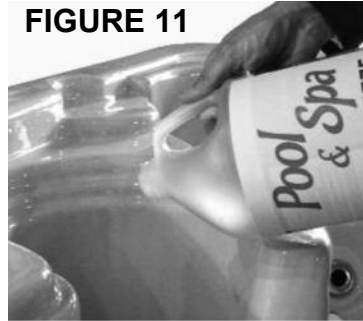


**Important: Damage caused by improper winterization is not covered under the manufacturer's warranty.**

**If you have any questions, please call Technical Support at 1-800-656-7571.**



**You may also wish to contact a professional to perform these services for you.**



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## De-Winterization Procedure

1. Fill the spa's footwell with water.
2. Drain the spa to clear the antifreeze out of the spa. See page 24. *Draining Your Spa*, for procedure.

*Water drained from your spa is safe to dispose of in your yard, septic system or in a drain. Follow all local/municipal codes and regulations for disposal.*

## Troubleshooting Water Quality Problems

<b>Problem</b>	<b>Probable Causes</b>	<b>Possible Solutions</b>
<b>Water is cloudy</b>	<ul style="list-style-type: none"> <li>• Dirty filter</li> <li>• Inadequate or improper sanitizing</li> <li>• Oils, lotions, organic matter</li> <li>• Old water</li> </ul>	<ul style="list-style-type: none"> <li>• Clean the filter</li> <li>• Run jet pumps and clean filter</li> <li>• Add sanitizer</li> <li>• Shock spa with sanitizer</li> <li>• Adjust pH or alkalinity to balance</li> <li>• Drain and refill spa</li> </ul>
<b>Algae</b>	<ul style="list-style-type: none"> <li>• pH too high</li> <li>• Sanitizer too low</li> </ul>	<ul style="list-style-type: none"> <li>• Shock spa with Sanitizer. Adjust pH</li> <li>• Shock spa with sanitizer and maintain good sanitizer level</li> </ul>
<b>Organic buildup or scum ring around spa</b>	<ul style="list-style-type: none"> <li>• Oils, dirt in spa water</li> </ul>	<ul style="list-style-type: none"> <li>• Wipe off scum ring using a clean rag. In extreme cases, you may need to drain, clean and refill your spa.</li> </ul>
<b>Water odor</b>	<ul style="list-style-type: none"> <li>• Organics</li> <li>• Inadequate or improper sanitizing</li> <li>• pH too low</li> </ul>	<ul style="list-style-type: none"> <li>• Shock spa with sanitizer</li> <li>• Add sanitizer</li> <li>• Adjust pH to balance</li> </ul>
<b>Chlorine odor</b>	<ul style="list-style-type: none"> <li>• Chloramine level too high</li> <li>• pH too low</li> </ul>	<ul style="list-style-type: none"> <li>• Shock spa with sanitizer</li> <li>• Adjust pH to balance</li> </ul>
<b>Musty odor</b>	<ul style="list-style-type: none"> <li>• Algae or bacteria</li> </ul>	<ul style="list-style-type: none"> <li>• Shock spa with sanitizer. If problematic or visible, you may need to drain, clean and refill your spa.</li> </ul>
<b>Eye irritation</b>	<ul style="list-style-type: none"> <li>• pH too low</li> <li>• Sanitizer too low</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust pH to balance</li> <li>• Shock spa with sanitizer and maintain good sanitizer level</li> </ul>
<b>Skin irritation or rash</b>	<ul style="list-style-type: none"> <li>• Unsanitary water quality</li> <li>• Free chlorine level too high (above 5 ppm)</li> </ul>	<ul style="list-style-type: none"> <li>• Shock spa with sanitizer and maintain good sanitizer level</li> <li>• Allow level to drop naturally to below 5 ppm before using spa</li> </ul>
<b>Stains</b>	<ul style="list-style-type: none"> <li>• Total alkalinity and/or pH are too low</li> <li>• High amounts of copper or iron in water</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust total alkalinity and/or pH</li> <li>• Use stain and scale inhibitor</li> </ul>
<b>Scale</b>	<ul style="list-style-type: none"> <li>• Calcium content of water is too high. Total alkalinity and pH are too high.</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust total alkalinity and pH. If needed, drain spa, scrub off scale, then refill and balance water.</li> <li>• Use stain and scale inhibitor</li> </ul>

## Troubleshooting Operations

Symptom	Possible Cause(s)	Possible Solution(s)
<b>POWER</b>		
<b>System does not work</b>	Power is turned off	Reset spa
<b>Control pad and spa equipment do not operate</b>	No electrical power to spa	Turn on or reset the GFCI circuit breaker. If this does not solve the problem, have a qualified electrician check the electrical service.
	The 30A fuse has blown	Contact customer service
<b>The spa does not turn off</b>	Spa is trying to heat up	Check the temperature setting is in Standard mode
	Spa is in filter cycle	Normal. No adjustment necessary
	Spa is in Standard mode	Check setting
<b>Control panel displays a message</b>	An error may have occurred	See diagnostic messages on pages 32-34 for message code meanings
<b>GFCI breaker trips repeatedly</b>	Improper wiring to spa or GFCI breaker is defective	Consult with a qualified electrician
	There is a defective component on spa	Contact customer service
<b>HEAT</b>		
<b>Spa does not heat</b>	Check mode. Set to Standard or Ready	See control panel instructions on pages 14-18.
	Water level is too low	Add water to correct level
	No electrical power to spa	Turn on or reset the GFCI circuit breaker. If this does not solve the problem, have a qualified electrician check the electrical service.
	Heater is defective	Contact customer service
	Gate valve is partially or fully closed	Open gate valves. Note: Never operate your spa with the gate valves closed!
<b>Spa gets warm but not hot</b>	Thermostat has been turned down	Set control panel to higher temperature
	Insufficient filtration time if Sleep or Economy mode	Increase filtration time
	Water level is too low	Add water to correct level
	No electrical power to spa	Turn on or reset the GFCI circuit breaker. If this does not solve problem, have a qualified electrician check the electrical service.
	Dirty filter cartridge	Clean filter cartridge
	Gate valves closed	Open gate valves
	Spa cover improperly positioned	Align spa cover
<b>Spa gets too hot</b>	Filtration time is set too long	Reduce filtration cycles, especially during summer months

## Troubleshooting Operations

Symptom	Possible Cause(s)	Possible Solution(s)
<b>WATER</b>		
<b>Water is not clean</b>	For all water clarity problems, see page 28.	
<b>High water consumption</b>	Very high evaporation due to air valves being open	Shut off air valves and refill as necessary
<b>Low water stream from the jets</b>	Running in FILTER mode - slow speed	Select high speed jets
	Blocked wall suction or skimmer	Clean wall suction/skimmer.
	Dirty filter	Clean filter and replace
	Jets are closed	Open jets
	Gate valves closed	Open gate valves
<b>No water stream from the jets</b>	Pump has airlock	Remove airlock by priming spa (page 13)
	Jets are closed	Open jets
	Power switched off, system off	Reset power
	Pump is defective	Contact customer service
	Pump fluctuations	Low water. Check level on skimmer flap
<b>Water leakage from below spa</b>	Check the connections and drain hoses	Tighten loose connections.
<b>WATER PRESSURE</b>		
<b>Jets surge on and off</b>	Water level is too low	Add water to normal level
<b>Jets are weaker than normal or do not work at all</b>	Jet valves are partially or fully closed	Open jet valves
	Filter cartridge is dirty	See Cleaning the Filter
	Air is trapped in the pump	Remove airlock by priming spa (page 13)
	The suction fittings are blocked	Remove any debris that may be blocking the suction fittings
	Gate valve is closed	Open gate valves. Note: Never operate spa with the gate valves closed!
<b>AIR AND JETS</b>		
<b>No airstream from the jets</b>	Air control not open	Open the control
	Jet spout opening not fixed properly	Check jet spout openings
	Jet spout opening missing	Check jets and replace as necessary
<b>LIGHT(S)</b>		
<b>Standard spa light doesn't work</b>	Light bulb has burned out	Replace light bulb
	Lighting system is defective	Contact customer service

## Troubleshooting Operations

Symptom	Possible Cause(s)	Possible Solution(s)
<b>PUMP(S)</b>		
<b>Pump runs constantly – will not shut off</b>	Problem with circuit board	Contact customer service
<b>Noisy pump</b>	Water level is too low	Add water to normal level
	Blocked wall suction or skimmer	Clean the wall suction/skimmer
	Damaged or worn-out motor block	Contact customer service
	Clogged floor suction or skimmer	Clean floor suction or skimmer
	Leakage of air into suction line	Contact customer service
	Debris is inside pump	Contact customer service
	Gate valves are closed	Open gate valves. Note: Never operate your spa with the gate valves closed!
	Damaged or worn motor bearings	Contact customer service
	Improper or defective wiring	Contact customer service
<b>Pump turns off during operation</b>	Automatic timer has completed its cycle	Start the cycle again
	The pump motor is defective	Contact customer service
<b>Pump has a burning smell while running</b>	Damaged or worn motor bearings	Contact customer service
<b>Pump does not work</b>	Power may be turned off	Reset power
	Pump has overheated	Let cool for one hour
	Incorrect or faulty wiring of electrical supply	Contact customer service
	Switch is off	Auto reset after the motor has cooled down
	House circuit breaker tripped or in OFF position	Reset circuit breaker Contact customer service
	Motor overload condition	Motor overload will reset automatically. If problem persists, contact customer service
	Damaged electrical cord	Contact customer service
	Pump cord not plugged in	Plug pump cord into appropriate receptacle
	GFCI tripped or in OFF position	Reset GFCI

# Product Registration

**Register your spa online!**

**Go to [luxuriahottubs.com](http://luxuriahottubs.com) and click on Hot Tub Registration.**

It is important that you register your product as soon as possible.

**IMPORTANT:**

***Warranty is void if the spa is moved to any location that is not the original 'Ship To' address. Locating the product serial number***

The serial number of your spa is located on a metal plate attached to exterior of the spa.

You will need this number to properly register your spa and activate coverage.

Write this information in the space provided below.

**Please have the following information ready when registering your spa.**

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

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

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

Date Delivered: \_\_\_\_\_

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

Dealer/Vendor Name \_\_\_\_\_

Dealer/Vendor Phone Number: \_\_\_\_\_

Dealer/Vendor Address: \_\_\_\_\_

**KEEP THIS PAGE FOR YOUR RECORDS!**

For customer service, please call

**I-800-656-7571**

**READ AND FOLLOW ALL INSTRUCTIONS**

***To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.***

**SAVE THESE INSTRUCTIONS**