

DRIFTWOOD
S P A S

SPA Installation and Directions of Use



Content

Content.....	1
Warnings.....	2-3
Important Safety Instructions.....	4-5
Equipment compartment Drawing.....	6-7
I. Control System Usage Instructions.....	
A. USA BALBOA Control System.....	
1. Touch2 control panel.....	6-15
II. Brief Introduction	16
1. Materials.....	16
2. Functions (Standard Configuration).....	16
III. Description on Using Parts.....	17-19
1. Thermostat.....	
2. Air pump.....	
3. Paper element filters daily maintenance.....	
4. Ozone sterilization instruction.....	
5. Change and instruction of the selective fragrance box pieces.....	
6. Manual of the waterproof Bluetooth /Amplifier system.....	
IV. Description on Installation.....	20-21
V. Care and Maintenance.....	22
VI. Instructions on Maintenance.....	22
VII. Troubleshooting and RFQ	23-24

■ **Warnings:**

Please read the following instructions before operation and installation, which is a safety guaranty to SPA users.

1. The system must be installed by qualified technicians, switch for electricity leakage should be installed at a place convenient to be controlled or operated.
2. Reliable grounding protection for the SPA is a must, if not, we won't take responsibility for the bad grounding!
3. Taking load capacity of the wires into consideration when installed, otherwise, this will impact normal function or even occur safety accidents!
4. To ensure sanitation of bathtub, those who have skin or infectious disease should not use the SPA.
5. All the jets, and fountains cannot be shut down completely while keep water pumps working simultaneously, for this will damage the water pumps.
6. Before filling water into the SPA for the first time, please check and shut all drain valves, and all the jets, water pumps joints must be highly tightened (they might be loosen during transportation).
7. The old, kids and those with heart disease and low/high blood pressure should use the SPA cautiously and under the care of the healthy adults; without doctor's professional instruction, pregnant women cannot use the SPA.
8. Risk: when drinking alcohol, taking drugs or medicine, it will be dangerous when using the SPA.
9. Make sure that water slips out of jets regularly, or the relative components will be damaged.
10. Please check the SPA's water temperature before entering.
11. SPA input water temperature should not be over 40 Celsius degrees so as not to get hurt; 30-40 Celsius degree is the safety scope for human body. When you have been in the SPA for over 10-15 minutes, please try to lower the water temperature.
12. Before using the SPA drugs, please take the physical property into consideration, for example, granular or root-like drugs must be walled within filter bag.
13. After finishing strenuous exercise please do not use the SPA immediately.
14. If feeling uncomfortable while or after using the SPA, please stop it right away and go to see the doctor.
15. Do not move or open the lid of filter casually.
16. Excessive exposure to the sun for a long time will damage the SPA surface, when you are not using the SPA, please cover it up against the sunshine.
17. If you use the SPA daily, please clean the paper element filter once per week.
18. The heat preservation cover is formed of foam, prevent kids from playing on it.
19. When filling in water, water should be 2-3cm over the probe screw when installed China control system, and 2-3cm over all the jets when installed Balboa system.
20. No water or water level doesn't reach the probe screw or over all the jets, do not operate the spa.
21. If the spa not to use, please tighten the screw or locks of the hem door.
22. All the maintenance must be done after electricity has been cut off.
23. After the repair work and maintenance completed, check if all the functions run well.
24. In the very cold areas or seasons, please keep the SPA connected with electricity, filled with

enough water in the SPA, so as to protect SPA from being frozen or broken, or you can drain water completely and check to assure no water left inside pipes.

25. All the preservation and maintenance must be done by qualified professionals. For more service, please contact the suppliers or sales agents.
26. The product must be permanently connected to the fixed wiring.
27. Parts incorporating electrical components must be located or fixed so that they cannot fall into the SPA..
28. The product should be supplied through a residual current device (RCD), having a rated residual operated current not exceeding 30mA.
29. If your SPA is placed in direct sunlight , as possible as you can, please avoid to place it on the glass floor or near the location of the glass wall , speculate reflection effects can lead too high temperature
on partial skirt which will cause skirt deformation.
30. The bearing of the water pumps may get stuck after this SPA hasn't been used for a long time, so the water pumps may not working when pressing the water-pump buttons on control panel. If the water pump not working because of water bearing get stuck, then you can notice that no water current through jets or no suction- force in the skimmer. Please shut down the power ,open the hem doors, find out the water pumps, rotate the blade inside water pumps, turn on the power again, activate the water pumps by pressing the water-pump buttons several times.
31. Sometimes, the water pumps may work or rotate slowly at the beginning and back to normal after working 2-3 seconds. If the water pumps still rotate slowly after 2-3 seconds, please press the water-pump buttons on panel to re-activate the pumps.
32. When you notice the hum of the water pumps while pumps not working (no water current through jets) and overheating water pump surface, please shut down power immediately. It results from air kept inside of water pumps or pipes be block. Please check the water pumps and pipes, fix the problem , and turn on the power again.
33. During installation of the SPA, please keep the whole construction area clean and clear .No mud or metal be left beneath the SPA tub body or near the water pumps. Keep sufficient space for dissipating heat of the working water pumps.
34. Parts containing live parts, except parts supplied with safety extra low voltage not exceeding 12 V, must be inaccessible to a person in the bath;
35. Earthed appliances must be permanently connected to fixed wiring;
36. Parts incorporating electrical components, except remote control devices, must be located or fixed so that they cannot fall into the bath;
37. The appliance must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 MA;
38. The floor has to be capable of supporting the expected load; 39. an adequate drainage system has to be provided to deal with overflow water.



IMPORTANT SAFETY INSTRUCTIONS

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. WARNING – To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
3. A wire connector is provided on this unit to connect a minimum 8 AWG (8.4 mm²) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5 m) of the unit.
4. DANGER – Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use this spa unless they are supervised at all times.
5. 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 that the flow rates are compatible. Never operate spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.
6. DANGER – Risk of Electric Shock. Install at least 5 feet (1.5 m) from all metal surfaces. As an alternative, a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum 8 AWG (8.4 mm²) solid copper conductor to the wire connector on the terminal box that is provided for this purpose.
7. DANGER – Risk of Electric Shock. Do not permit any electric appliance, such as a light, telephone, radio, or television, within 5 feet (1.5 m) of a spa.
8. WARNING – To reduce the risk of injury:
 - a) The water in a spa should never exceed 40°C (104°F). Water temperatures between 38°C (100°F) and 40°C are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.
 - b) Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 38°C (100°F).
 - c) Before entering a spa, the user should measure the water temperature since the tolerance of water temperature-regulating devices varies.
 - d) The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness with the possibility of drowning.
 - e) Obese persons and persons with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a spa.
 - f) Persons using medication should consult a physician before using a spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.



SAVE THESE INSTRUCTIONS

REDUCE THE RISK OF ELECTROCUTION

1. Never place an electric appliance within 5 feet of spa.

REDUCE THE RISK OF CHILD DROWNING

1. Supervise children at all times.
2. Attach spa cover after each use.

REDUCE THE RISK OF OVERHEATING

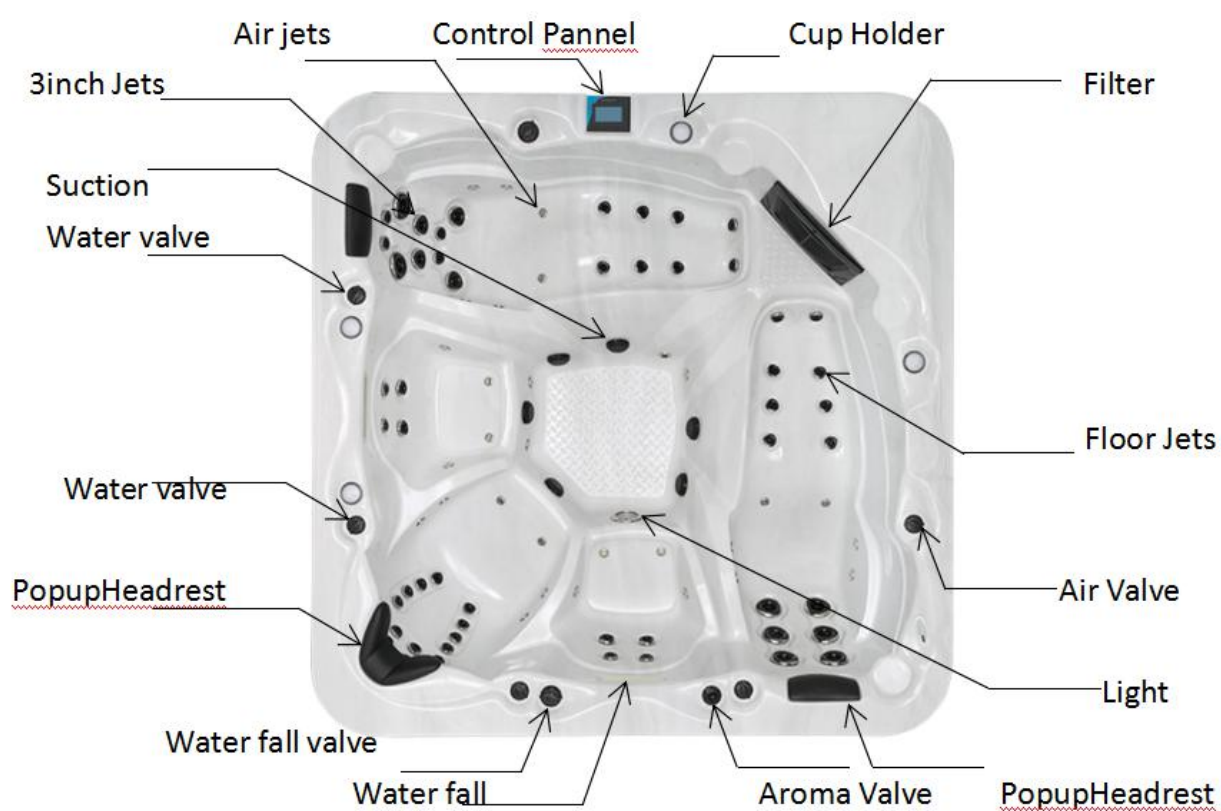
1. Check with a doctor before use if pregnant, diabetic, in poor health, or under medical care.
2. Exit immediately if uncomfortable, dizzy, or sleepy. Spa heat can cause hyperthermia and unconsciousness.
3. Spa heat in conjunction with alcohol, drugs, or medication can cause unconsciousness.

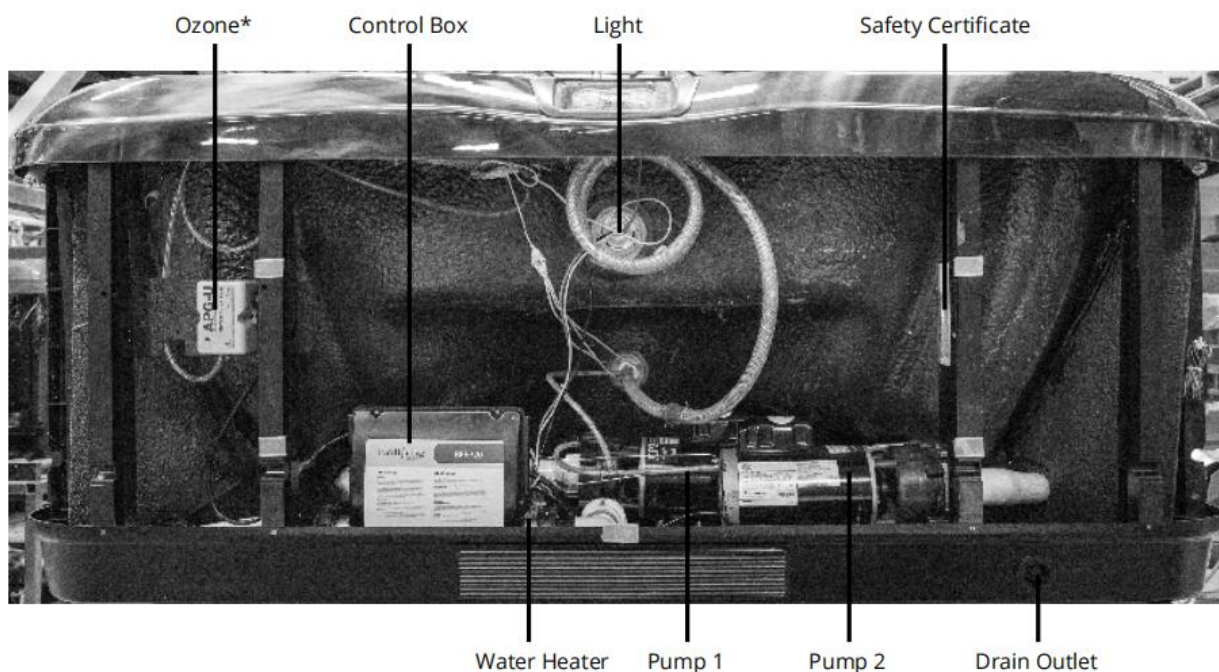
WHEN PREGNANT, soaking in hot water for long periods can harm your fetus. Measure water temperature before entering.

1. Do not enter spa if water is hotter than 100°F (38°C).
2. Do not stay in spa for longer than 10 minutes.

"Connect only to a circuit that is protected by a ground-fault circuit-interrupter (GFCI)."

Equipment compartment Drawing





*Optional

I.BALBOA Control System Usage Instructions

1.BP6013 Balboa Control System (Touch 2 control panel)





RECTANGLE



TRAPEZOID

spaTouch™ Icon Driven Control Panels

Balboa Water Group BP Series Systems User Interface and Programming Reference

The spaTouch™ Icon Driven panel is compatible with all BP systems that already support the TP800 and/or the TP900.

If this panel is used with a system that supports only the TP400 and/or TP600, many screens will work correctly, and the spa screen will try to display all of your equipments, but in some cases it may not display correctly.



The Main Screen

Spa Status

DRIFTWOOD SPAS

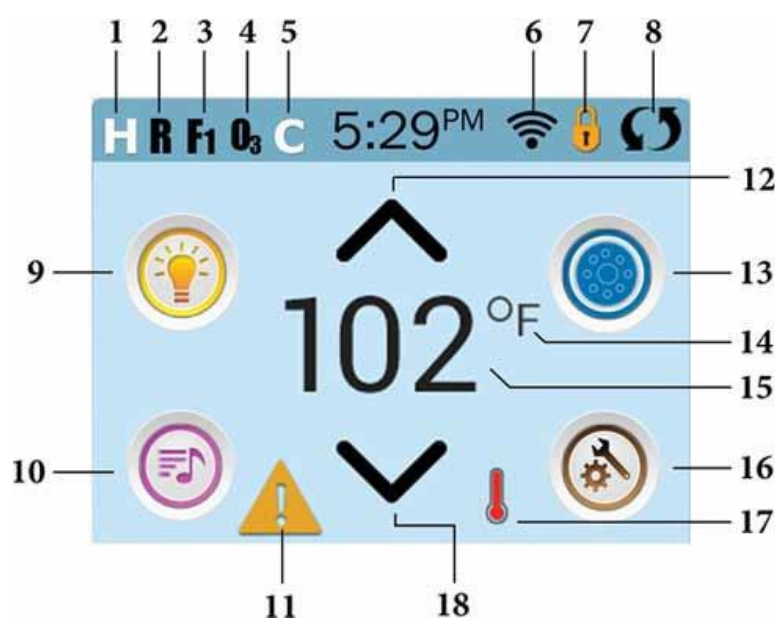
Important information about spa operation can be seen on the Main Screen.

Most features, including Set Temperature adjustment, can be accessed from this screen.

The actual water temperature can be seen, and the Set Temperature can be adjusted (see page 5). Time-of-Day, Ozone and Filter status is available, along with other messages and alerts.

The selected Temperature Range is indicated in the upper left corner. The Spa Equipment Control Icon will spin if any pump is running.

A Lock icon is visible if the panel or settings are locked.



ICON Specifications

1. H = High Temperature Range
2. R = Ready Mode
3. F1 = Filter Cycle 1 Running
4. O3 = Ozone Running
5. C = Cleanup Cycle
6. Wi-Fi Signal Indicator
7. Lock Indicator Icon
8. Invert Screen
9. Light Icon = Turns On/Off
10. Music Icon = Press To Enter Music Screen
11. Message Waiting Indicator
12. Set Temperature Up
13. Spa Equipment Control Icon
14. Temperature Scale (F/C)
15. Current Water Temperature
16. Settings Icon
17. Heat Indicator
18. Set Temperature Down

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

The Main Screen – Continued

ICON Specifications

1. = High Temperature Range. = Low Temperature Range.
2. = Ready Mode. = Ready And Rest Mode. = Rest Mode.
3. = Filter Cycle 1 is running. = Filter Cycle 2 is running. = Filter Cycles 1 and 2 are both running.
4. = Ozone is Running. If you don't see the icon that means the Ozone is OFF.
5. = Cleanup Cycle is Running. Note: Not all systems that can run a Cleanup Cycle display this icon.
6. = Wi-Fi icon just indicates that the Wi-Fi link is connected. It does not indicate signal strength. Note: Not all systems that support Wi-Fi display this icon.

7. Lock Icon:

When displayed, indicates the panel is in a locked mode. To unlock or lock a setting or panel lock, first press the corresponding icon on the Lock Screen, then press and hold the word "Lock" for 5+ seconds until the text and icon change to the opposite state.

There are 2 lock icons that can be shown on the title bar of most screens. A tall skinny one representing a settings lock is applied. It is shown on screens that are affected by the settings lock. And the standard lock icon Padlock which represents the Panel being locked. If both settings and panel are locked, only the panel lock will show since the settings lock doesn't do much in that situation. When the panel is locked, the Settings Screen will only show items not affected by that lock (System Info and Lock Screens).

8. = Invert (or flip) Screen.
9. = Lights is turned ON. = Light is Inactive. = Light is Disabled.
10. = Music is Active. = Music is Inactive. = Music is Disabled.

11. Message Waiting Indicator:

The Message Waiting Indicator will show one of the following icons:

- = Fatal error (Spa can't function until it's fixed)
- = Normal Error or Warning
- = Reminder Message
- = Information

Message.

Touch the Indicator to go to a Message Screen which shows the message.

Some messages will include the "Call for Service" text as it requires a service technician to fix the problem. If the panel is locked and a message alert appears, you will be taken to the Lock Screen (where you will need to Unlock the panel) before you can clear the message.

Touching the Error/Warning/Reminder/Info Icon on the Message Screen will take you to the System Information Screen to allow for troubleshooting over the phone or for a field service tech to better understand what is going on. Exiting the System information Screen will take you back to the Message Screen in that situation.

12. Adjust set temperature higher.
13. = Spa Equipment Control Icon. Brings up a screen where the spa jets, blower or other equipment can be controlled. While on the Spa Equipment Screen, you can press a Jets button once for low speed, and if configured press it again for high speed. = Jet is Inactive. Indicates if a pump is running or not.
14. Indicates if the temperature is in = Fahrenheit or = Celsius.
15. Current water temperature if or is solid; set temperature if or is flashing.
16. Setting Icon. = Settings is Active. = Settings is Inactive (when the panel is locked). Takes you to Settings Screen

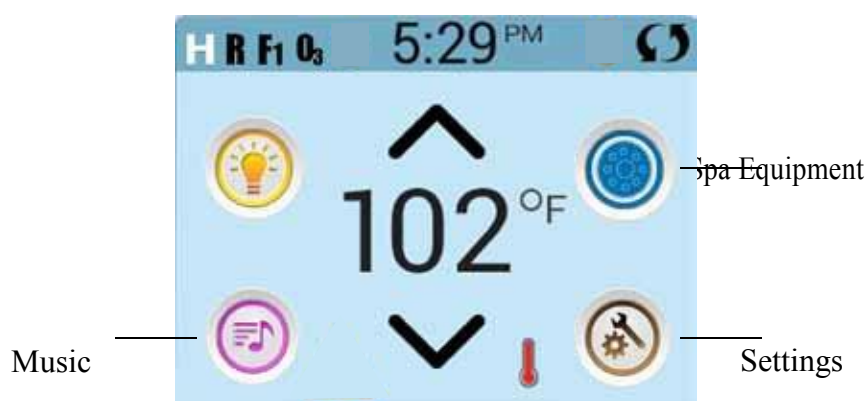
17.  Different animation sequences, including blinking, may indicate different stages of heating.
18.  Adjust set temperature lower.

Navigation

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

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

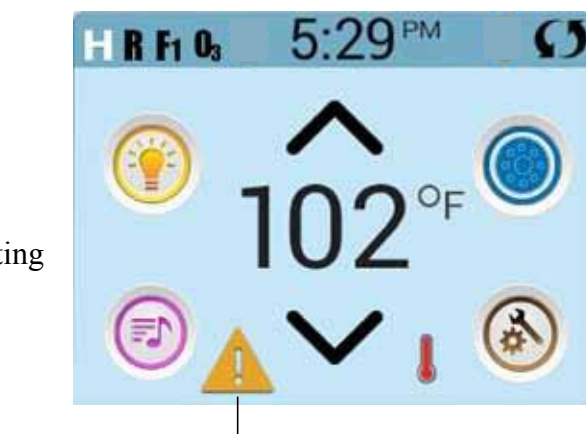
Most menu screens time out and revert to the main screen after 30 seconds of no activity.



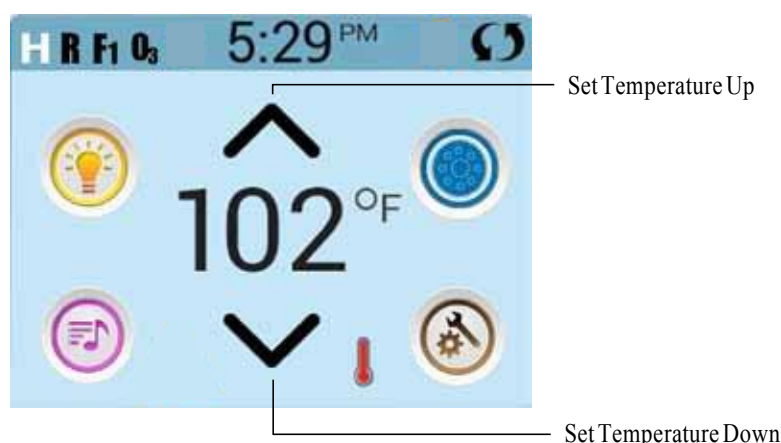
Messages

At the bottom of the screen, at certain times an indicator may appear showing that a message is waiting. Touch this indicator to go to the Message Display Screen. On that Screen some of the messages can be dismissed. For more on the Message Display Screen, see pages 25-30.

A Warning Message is waiting



The Set Temperature



Set Temperature

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

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

Press-and-Hold

If Up or Down is pressed and held, the temperature will continue to change until you stop pressing, or until the Temperature Range limits are reached.

All Equipment Access

The Spa Screen shows all available equipment* to control. The display shows icons that are related to the equipment installed on a particular spa model, so this screen may change depending on the



installation.

The icon buttons are used to select and control individual devices.

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



If the Spa has a Circ Pump, a Circ Pump Icon will appear to indicate its activity, but outside of Priming Mode, the Circ Pump cannot be controlled directly.



*One exception: The Main Spa Light is not shown on the Spa Screen; it is only shown (and controlled) on the Main Screen.

Bluetooth Audio

Basic Installation and Configuration Guidelines

Use minimum 6AWG copper conductors only. Torque field connections between 21 and 23 in lbs. Readily accessible disconnecting means to be provided at time of installation. Permanently connected power supply. Connect only to a circuit protected by a Class A Ground Fault Circuit Interrupter (GFCI) or Residual

Current Device (RCD) mounted at least 5' (1.52M) from the inside walls of the spa/hot tub and in line of

sight from the equipment compartment. CSA enclosure: Type 2 Refer to Wiring Diagram inside the cover of

the control enclosure. Refer to Installation and Safety Instructions provided by the spa manufacturer.

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 a spa or hot tub immediately following strenuous exercise.

Warning: Prolonged immersion in a spa or hot tub may be injurious to your health. Warning: Maintain water chemistry in accordance with the

Manufacture instructions. Warning: The equipment and controls shall be located not less than 1.5 meters horizontally from the spa or hot tub.

Warning! GFCI or RCD Protection.

The Owner should test and reset the GFCI or RCD on a regular basis to verify its function.

Warning! Shock

Hazard! No User

Serviceable Parts.

Do not attempt service of this control system. Contact your dealer or service organization for assistance. Follow all owner's manual power connection instructions. Installation must be performed by a licensed electrician and all grounding connections must be properly installed. Caution:

- Test the ground fault circuit interrupter before each use of the spa.
- Read the instruction manual.
- Adequate drainage must be provided if the equipment is to be installed in a pit.
- For use only within an enclosure rated CSA Enclosure 3.
- Connect only to a circuit protected by a Class A ground fault circuit interrupter or residual current device.
- To ensure continued protection against shock hazard, use only identical replacement parts when servicing.
- Install a suitably rated suction guard to match the maximum flow rate marked. Warning:
- Water temperature in excess of 38°C may be injurious to your health.
- Disconnect the electrical power before servicing. Attention:

- Toujours vérifier l'efficacité du disjoncteur différentiel avant d'utiliser le bain.
- Lire la notice technique.
- Lorsque l'appareillage est installé dans une fosse, on doit assurer un drainage adéquat.
- Employer uniquement à l'intérieur d'une clôture CSA Enclosure 3.
- Connecter uniquement à un circuit protégé par un disjoncteur différentiel de Class A.
- Afin d'assurer une protection permanente contre le danger d'électrocution, lors de l'entretien employer seulement des pièces de rechange identiques.
- Les prises d'aspiration doivent être équipées de grilles convenant au débit maximal indiqué.

Avvertissement:

- Des températures de l'eau supérieures à 38 °C peuvent présenter un danger pour la santé.
- Déconnecter du circuit d'alimentation électrique avant l'entretien. Warning/Avvertissement:
- Disconnect the electric power before servicing. Keep access door closed.
- Déconnecter du circuit d'alimentation électrique avant l'entretien. Garder la porte fermée.

In case of the control system crash, etc., you need to manually turn off the power, wait for 30-60 seconds, and then manually turn on the power again.

II. Brief Introduction of All SPA Models

Materials Spa models are made of acrylic plate with fiber glass reinforced. (Color of Acrylic: Silver White Marble, Ocean Wave, Midnight Opa, Osyter Opal, Sahara, Gypsum, White Pearlescent etc.)

1. Functions: Water massage、 Air bubble、 Heating 、 Circulation、 Ozone sterilization、 FM radio、 Bottom LED lights、 Control panel、 Plastic Hem skirt, etc.

2. Options: Cover、 Stair、 Heat insulation on tub body and hem、 small LED lights (12-60pcs) 、 Aroma、 Bluetooth、 Fountain、 Waterfall, etc.

3. Functions (Standard Configuration)

Product Model:

1: ZR6001, ZR6002, ZR6003, ZR6004, ZR6005, ZR6006, ZR6007, ZR6008, ZR7011, ZR7025, ZR7035, ZR7038, ZR8001, ZR9002

2: L301, L501;

3: ZR7801, ZR6801, ZR6802, ZR6803;

Standard Configuration	
Shell	US Aristech
Support Frame	Chemical treated wood frame/ 304 stainless steel frame
Skirt	PVC
Controller	Balboa system
Pump	LX
Jets	Rising Dragon

1) Functions of Spa: water force surf and massage, bubble bath, heating, filter, ozone disinfecting, FM radio, CD (optional), underwater lamp, computer control, plastic skirt etc.

2) Optional fittings: Spa insulation cover, ladder, spa body, insulation foam on bottom tub body or skirt hem, small LED for 20-40 pieces, some of the models could be equipped with fountain and waterfall function, some could choose to install aromatic perfume, etc

III. Description on Using Parts

1. Heater/Thermostat

1) Normal starting up time is 4-8 hours

2) SPA Thermostat cannot be heated by man in the air, or there will be danger. If there is something wrong in operation, professional servant is a must to prevent the risk of electricity leakage.

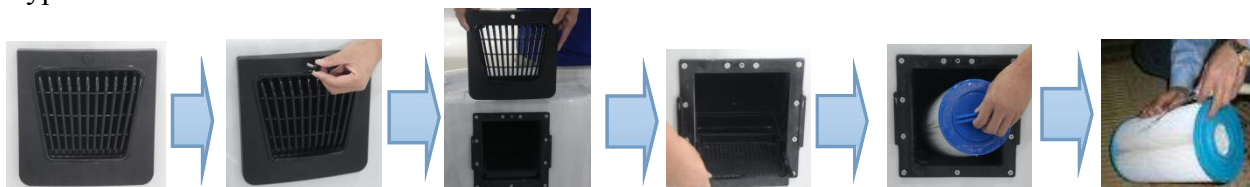
2. Air pump

Normal working time is 15-30 minutes (air pump shall not be working continuously over 120min., because it may overheat the whole part or shorten service life).

Please notice that water level should not be 7cm over the tub water level to prevent air pump being burnout by water leakage.

3. Paper element filters daily maintenance

Type one:



- 1) Remove the outer cover of the skimmer
- 2) Pull out the skimmer screw
- 3) Take out the paper core
- 4) Wash the paper core with water, reset it after cleaning and dry out

Type two:



- 1) Pull apart the crystal package of the paper core
- 2) Pull out the cover of filtration bucket
- 3) Match the paper core inside and screw it tight, then put the cover of filtration bucket back

Type three:

					
Remove the locknut according to the picture show direction			Remove the cover on the filter box, put the filter paper in , then screw the cover and locknut.		

Type four:



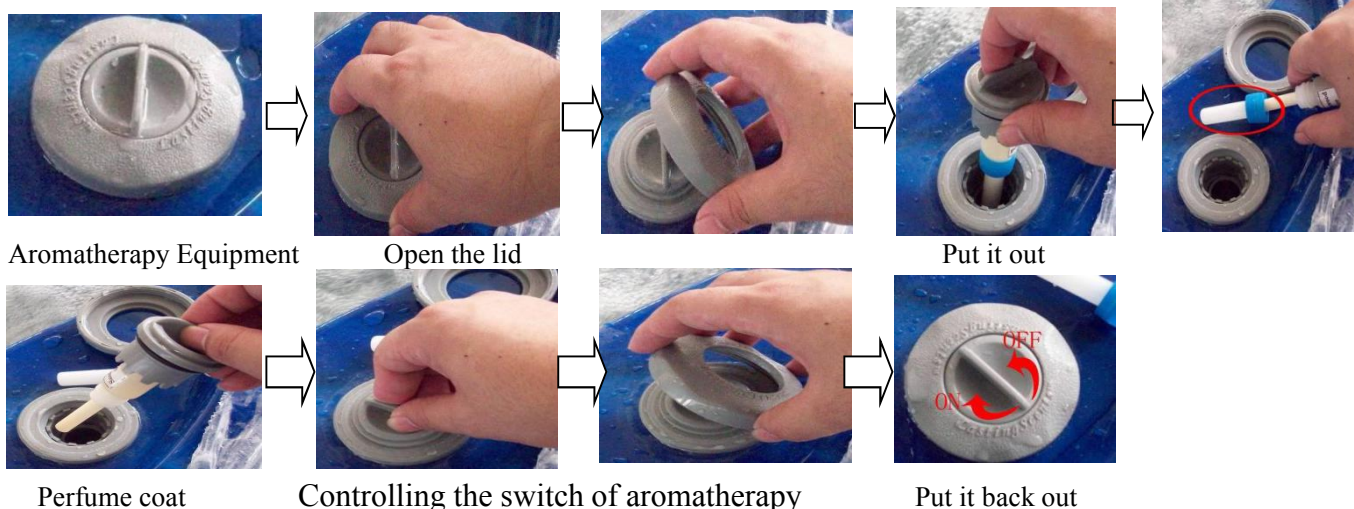
- 1) Remove the cover on the filter, and screw the core paper filter out.
- 2) Repeatedly Clean the core paper filter with water.
- 3) Put the core paper filter back to use after dry out.
- 4) Change the core paper filter half a year once, depends on the high quality of water, lifetime of paper filter can be properly extended.
- 5) Change a new paper filter, take out a new one and tear out the package of the paper core and put it inside the filtration bucket.
- 6) Match the paper core correctly inside and screw it down in sequence, then put the cover of filtration bucket on top.

Notice: Different spa model with standard configuration will be equipped with one of these two filtration, please install and clean the paper core in accord with the proper filtration system you purchase.

4. Ozone sterilization instruction

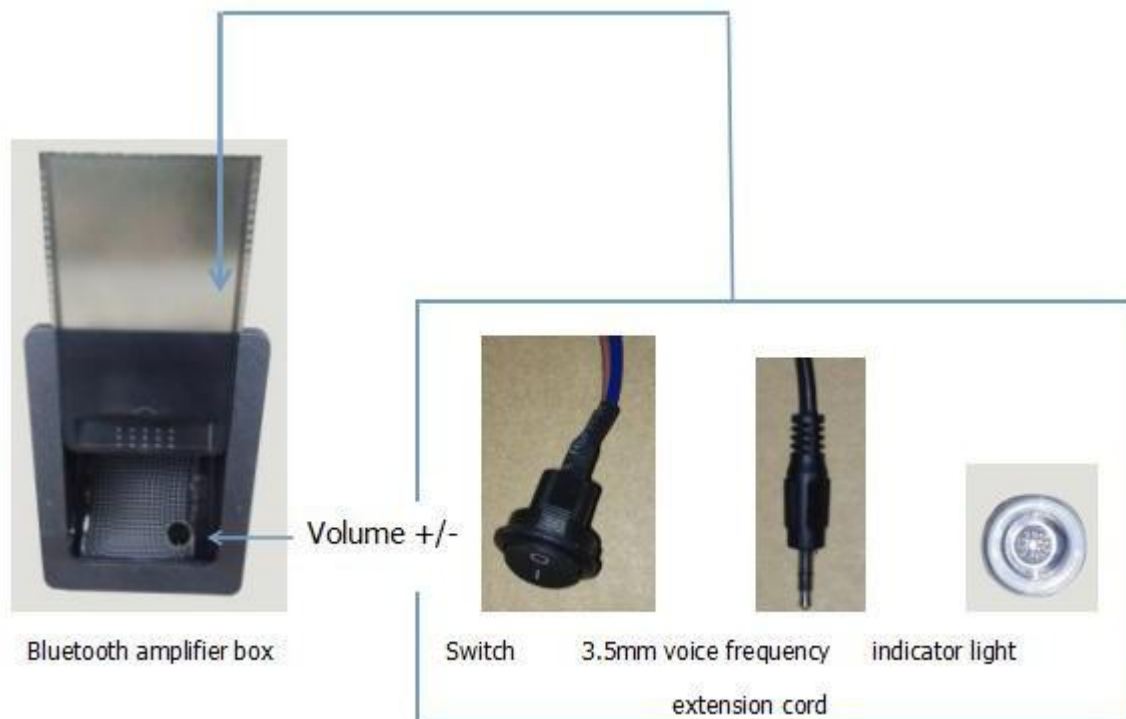
The lasting time of ozone sterilization is different in different systems; there will be strong smell if operating it too long.

5. Change and instruction of the selective fragrance box pieces



6. Manual of the waterproof Bluetooth /Amplifier system

Specifications: 1, 2pieces of waterproof speakers, 8Ω 30-50W; 2, 1 piece of Bluetooth box; 3,1 piece of amplifier; 4, 3.5mm audio extension cord;5, 1piece of Bluetooth switch; 6, 1 piece of indicator light.



- 1、 Power on, open the switch, then the indicator light will flash;
- 2、 Open the bluetooth devices switch on Phone or Ipad, choose search device, When searching out “SPA” device, there will be bluetooth matching request on phone, input “PIN” number “5188”, press confirm, then the handling device will connect successfully with the bluetooth player.
- 3、 Open mobile phone’ s music player, play the music, audio on mobile phone will connect to the SPA’s speakers via wireless connection .
- 4、 Smartphone like IPHONE, Samsung etc.、 flat computer like IPAD etc., could control the SPA’s music playing by connecting to the bluetooth system. For dumb phone and MP3 player, it could play music via connecting to the 3.5mm audio extension cord.
- 5 、 If one Smartphone or flat computer have connected to the bluetooth system already, other Smartphone or flat computer cannot connect it unless the previous one has disconnected.
- 6 、 Without walls and other special obstacles, the device can be connected properly to bluetooth player at the range of 10 meters. Over 10 meters distance may not able to be connected.
- 7 、 Oversize mobile phone or Flat computer may too big to put into the bluetooth box, so it is recommended to be placed at some other proper place within 10 meters.

IV. Description on Installation:

The position of electric box(power supply switch) and drain is various according to different SPA models.

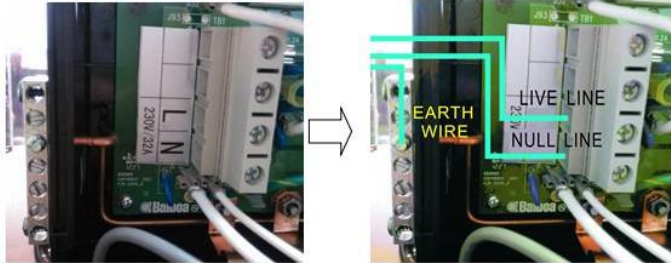
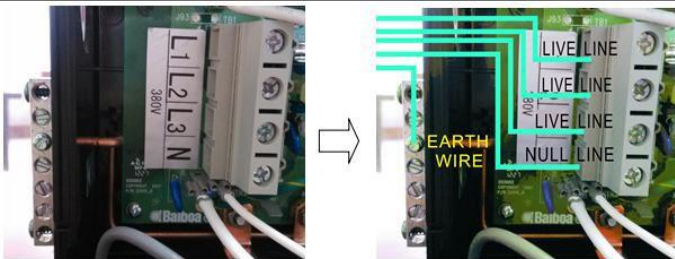
1) Please reserve an independent - controlled electric leakage switch before installing the SPA and reserve

power cord no less than 3*6mm². For big swimming SPA, at least two group of power cord 3*6mm² is needed. If customer requires 380V power supply, please reserve the 380V leakage switch and power cord at least 5*4mm² and two group of power cord at least 5*6mm² for big swimming SPA.

2) 1 inch soft pipe for connecting the drain of SPA is needed before installation.

Power cord of SPA

Balboa control system (BP6013)

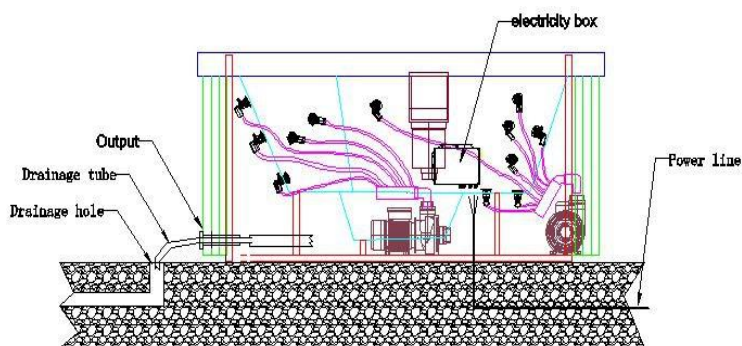
Panels	 RECTANGLE  TRAPEZOID
Electric box	
Diagram of 220V-230V (L/N/E)	
Diagram of 380V (L/N/E)	

Water pipes connection of SPA

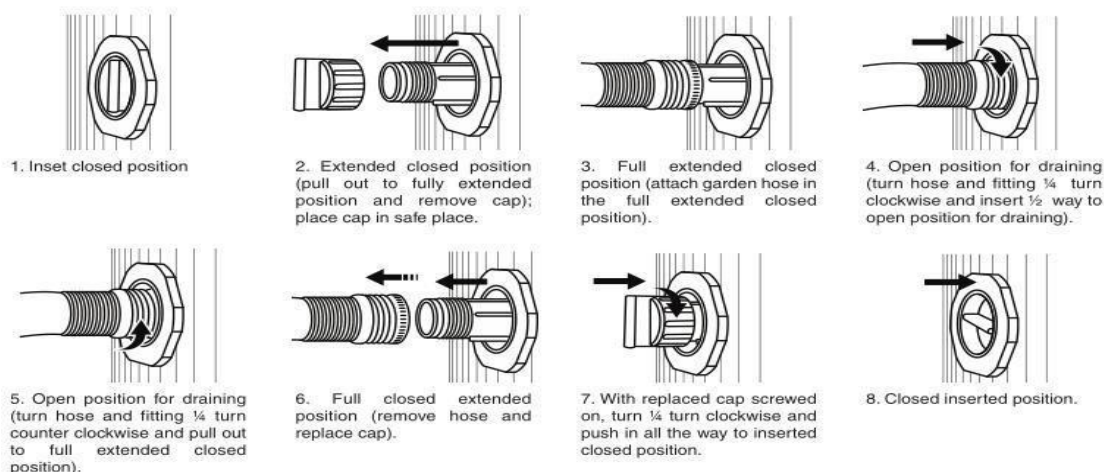
Drain of SPA in hem side



sketch map of connection



DRAIN INSTRUCTIONS



V. Care and Maintenance

- 1) Please clean the massage bathtub with neutral detergent and soft fabric. Do not clean it with acetone, solution, ammonia water and organic solvent, otherwise, it may possibly damage the surface of the bathtub. Mildly wipe off the adhesive stains on the bathtub with soft fabric and gasoline.
- 2) If there's scratches on the bathtub, please grind with 2000# grinding paper with water, and then polish with toothpaste and soft fabric.
- 3) Please wipe off the water scale on the bathtub with light acid detergent such as citric acid and vinegar.
- 4) Remove the water-return unit and nozzle for cleaning and removing dirt.
- 5) Do not frequently wipe the gold and chrome plated parts (do not contact it with organic solvent).
- 6) Please keep blunt and knife away from the surface, and butt or the things over 60 degree should

be away from that too.

7) One time to check button of electricity leakage every month.

Make frequent checks on the electrical wires, buttons, connectors always to see if they are bitten by rats or worms.

8) Make frequent checks on the feed pipe and drain pipe always to see if there is some parts broken or hand make sure it is smooth.

9) When storing the products, do not put converted and overlapped, make sure they are far away from formic acid and methanal as well as any other organic solvent.

10) If they are needed to be carried, do take those actions lightly, in case of high pressure, mechanical impact strength and succession.

11) If the bathtub are not to be used for a long time, dry inside the bathtub and make the circumstance dry and ventilated as well as no corrosive gas.

VI. Instructions on Maintenance

1) Replace the massage water pump: cut off power supply, open the bathtub side plate, drain empty the SPA

water, remove the wires and open the water pump, loosen the fixed bolts and take out the water pump, after replacing the pump, install power wire, fix the bolts, put into small amount of water into the bathtub, check if there's leakage at the pump, and then install the side plate of the bathtub.

2) Replace the filter water pump: cut off power supply, open the bathtub side plate, turn off the valves on both ends of water pump, remove the wires and open the water pump, loosen the fixed bolts and take out the water pump, after replacing the pump, install power wire, fix the bolts, put into small amount of water into the bathtub, turn on the valve, check if there's leakage at the pump, and then install the side plate of SPA.

3) Replace the thermostat: cut off power supply, open the bathtub side plate, turn off the valves on both ends of thermostat, remove the wires, loosen the fixed bolts and take out the thermostat, after replacement, install power wire, fix the bolts, put into small amount of water into the bathtub, turn on the valve, check if there's leakage at the pump, and then install the side plate of the bathtub.

4) Replace the filter core: cut off power supply, open the bathtub side plate, turn off the valves, loosen the bolts on top of the filter, take out the filter, remove dirt on bottom of the filter.

5) Anti-frozen of filter: In some area, water may be frozen in winter, under this case, please stop using filter, to remove it and clean the core, store it in safe place or move the filter core to interior. Or keep the SPA at standby state.

VII. Troubleshooting

Faults	Reason	Solution
No reaction for panel Key	11. Panel was locked 12. Panel is broken	Unlock the panel Change panel
No power supply	1. There's problem for the power circuit; 2. Protective switch is cut off.	Check the circuit; Check and remove short circuit, Connect the protective switch
Nozzle doesn't spray water	1. There's problem for power supply of water pump; 2. Water pump is not started. 3. Massage water pump is damaged 4. There is air in pipe	Check and connect the power wire Check the massage water pump Replace the massage water pump Purify pipe by taking the loose joint part
Bottom lamp doesn't light on	1. Bulb is broken; 2. Fuse is damaged.	Replace the bulb Replace the fuse
Poor filtering effect	1. Filter water pump is not started; 2. Filter is not cleaned; 3. Filter water pump is damaged.	Start the filter water pump Clean the filter Replace the filter water pump
Constant temperature effect is unavailable	1. Thermostat is damaged; 2. Power supply is unavailable. 3. Filter is jammed.	Repair or replace the thermostat Check the power supply Clean or replace the filter paper core
Bathtub is scratched		Grind with 2000# grinding paper with water, and then polish with toothpaste and soft fabric

RFQ

1.Maintenance of water purity, especially pH values and chlorine concentrations;

A:The SPA comes with a paper core filter with a garbage collection box, but handles some surface treatments such as hair dander. After using the SPA for a certain number of times or time, you need to buy some SPA-specific cleaning agents to clean or ask the professional cleaning company to maintain the cleaning.

2.Use and installation of a cover;

A:The cover belongs to the external accessory, not the function of the SPA itself. It depends on the actual situation and the installation and operation instructions of the shielding cover itself.

3.Disposal of water;

A:The water is drained from the drain to the outside of the cylinder through the connection drain between the bottom of the SPA and the skirt.

4.Precautions to avoid damage due to water freezing;

A:Keep the SPA energized and set the water temperature;

Keep the SPA energized, the control system comes with a water freeze program

5.Precautions to avoid damage when the appliance is left empty for an extended period;

A:The SPA should turn off the power and ensure that it is not powered when it is intended to be dry for a long time.

NOTICE: The usage manual is only for reference, and all data subject to the actual product, any update without notice.