



Kingston UV Spa

Owners Manual

240 x 216 x 93cm (95 x 85 x 36")

KH-10019



For Service Support please contact us anytime:
support.canadianspacompany.com



canadianspacompany.com

SAFETY INFORMATION - Europe (50Hz)

IMPORTANT SAFETY INSTRUCTIONS

When installing and using this electrical equipment be sure to follow these basic safety precautions:

1. **WARNING:** To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
2. **DANGER:** Risk of accidental drowning. Extreme caution must be exercised to prevent unauthorised access by children. To avoid accidents, ensure that children cannot use this spa unless they are supervised at all times.
3. **DANGER:** Risk of injury. The suction fittings in this spa are sized to match specific water flow created by the pump. Should the need arise to replace the suction fitting or the pump, ensure that the flow rates are compatible. Never operate the spa if 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.
4. **DANGER:** Risk of Electrical Shock. Install at least 5 feet (1.5m) from all metal surfaces. As an alternative, spa may be installed within 5 feet (1.5m) of metal surfaces if each metal surface is permanently connected (bonded) by a minimum ground wire.
5. **DANGER:** Risk of Electrical Shock. Do not permit any electrical appliance such as a light, telephone, radio, television, etc. within 5 feet (1.5m) of a spa unless such appliances are installed and built-in by the manufacturer.
6. **ELECTRICAL SUPPLY:** The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with the national electrical standards. This disconnect must be readily accessible and visible to the spa occupant but installed at least 5 feet (1.5m), from the spa water.
 - 7. **WARNING:** To reduce the risk of injury:
 - a) The water in the spa should never exceed 40°C (104°F). Water temperature between 38°C (100°F) and 40°C (104°F) is considered safe for a healthy adult. Lower water temperatures are recommended for young children and when the spa use exceeds 10 minutes.
 - b) Since excessive water temperatures have a high potential for causing foetal damage during early months of pregnancy, pregnant women should limit spa water temperatures to 38°C (100°F)
 - c) Before entering a spa, the user should measure the water temperature with an accurate thermometer 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.
8. **AUDIO/VIDEO EQUIPMENT WARNINGS (Optional equipment based on model)**
9. **CAUTION:** Risk of Electrical Shock. Do not leave compartment door open.
10. **CAUTION:** Risk of Electrical Shock. Replace components only with identical components.
11. **WARNING:** Prevent Electrocutation. Do not connect any auxiliary components (for example cable, additional speakers, headphones, additional audio/video components, etc.) to system.
12. **CAUTION:** Risk of Electrical Shock. Do not service this product yourself as opening or removing audio covers may expose you to dangerous voltage or other risk of injury. Refer all servicing to qualified service personnel.
13. **CAUTION:** Risk of Electrical Shock. 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 the servicing to a qualified service personnel.
14. This unit should be subject to periodic routine maintenance (for example, once every 3 months) to make sure that the unit is operating properly.
15. **CAUTION:** Do not operate audio video controls while inside the spa
16. Installation of the spa for other than a residential dwelling will result in voiding the manufacturer's warranty.
17. Do not bring any object into the spa that could damage the spa shell.
18. Never insert any object into any opening.
19. **WARNING:** Do not sit on the spa cover or place objects on it.
20. Remove any water or debris that may collect on the spa cover.
21. **WARNING:** Do not use the spa immediately after strenuous exercise.
22. If you feel pain or dizziness at any time while using the spa, discontinue use and contact a physician.
23. **WARNING:** To reduce risk of injury it is especially important that persons with pre-existing health conditions or problems such as obesity, heart disease, high or low blood pressure, circulatory problems, pregnancy or diabetes to consult their doctor before using the spa.
24. **WARNING:** Observe reasonable time limits when using the spa. Long exposures at high temperatures can cause high body temperatures. Symptoms may include dizziness, nausea, fainting, drowsiness, and reduced awareness. These effects could possibly result in drowning.
25. **WARNING:** The spa jets produce a stream of water with relatively high pressure. Prolonged exposure of localized area of the body may cause bruises to the skin.
26. **IMPORTANT:** The include warning sign must be posted where all users of the spa can see and read it.
27. **WARNING:** To avoid risk of drowning. The Spa cover should be in place and properly latched when spa is not in use.
28. **IMPORTANT:** Read and understand the warnings on the spa cover.
29. Proper water chemistry is necessary to maintain the water and prevent possible damage to spa components.

WARNING

| |
|--|
| REDUCE THE RISK OF ELECTROCUTION |
| 1. Never place an electric appliance within 5 feet (1.5m) of spa. |
| REDUCE THE RISK OF CHILDREN DROWNING |
| 1. Supervise children at all times. 2. Attach and lock down 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 hypothermia 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. |



REGISTER YOUR WARRANTY ONLINE

Please be sure to register your spa so we can efficiently assist with any questions you may have. Until your spa has been registered, we will not have record of your ownership.

To register your spa, visit: canadianspacompany.com/pages/warranty-registration

SERIAL NUMBER: _____ Purchase Date: _____



Delivery Video Guides on Canadian Spa Company channel

Delivery Options

Collection

Buyer collects hot tub using own transport from our warehouses. Please arrange 96 hours prior to collection

Kerbside

Delivery to outside the kerbside of house, customer to be present to sign for the delivery. Customer responsible to position the spa after it is removed from truck.

Back Garden Placement

Delivery from our warehouse and delivered to customers hot tub location. Customer to provide access for position. Check measurements required for each spa.

Cancellation Policy

We require a 48-hour cancellation notice in writing or email prior to your scheduled delivery. If we are notified later, then a reasonable cancellation charge will be applied.



<https://youtu.be/6-HNPIrDpT4>

Back Garden Placement & Demonstration

Delivery from warehouse to customer, moved into hot tub location then fully installed (including all accessories) and commissioned

(No Electrics). Followed by a maintenance tutorial. Customer to provide access for position.

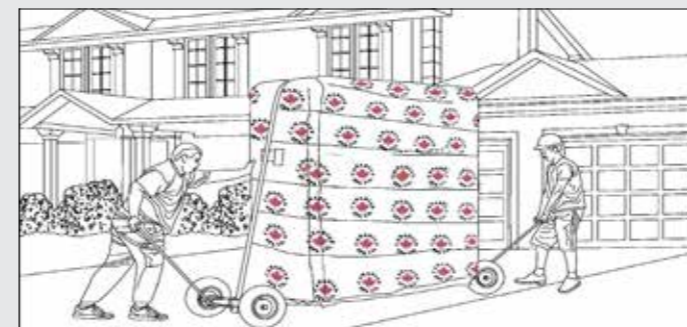
Check your measurement guidelines for each spa. Optional crane service is available on request

BACK GARDEN DELIVERY FORM

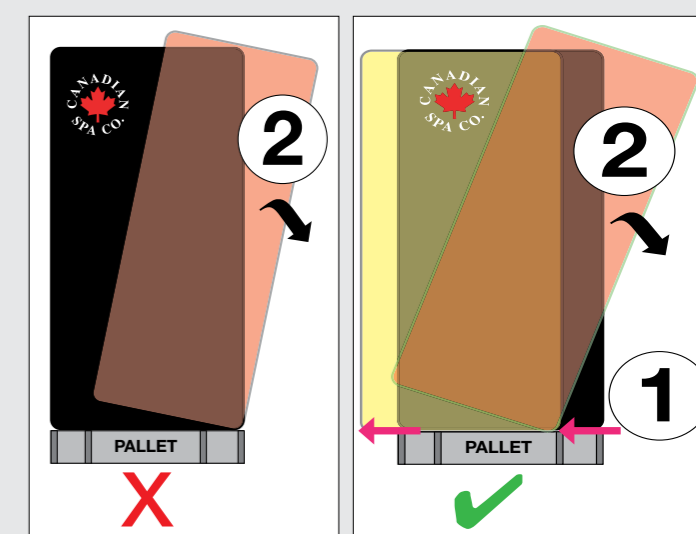


Take your smart phone and tape measure outside with you and attach information directly from your phone! At your convenience upload your information to our site and our experienced delivery team will organise your delivery and installation.

Back Garden Placement : Fill in our online Back Garden Form



Kerbside Drop Off: Arrange a convenient time to deliver



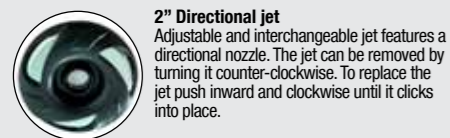
To avoid damage to Spa offload from pallet correctly



1. **FILTER BASKET:** Assembly that holds the filter cartridge (Note: configurations may differ from model to model).
2. **SPA PILLOW:** To rest your head and neck (replaceable).
3. **AIR CONTROLLER:** These are located around the top of your spa. Increase or decrease the force of your jets by opening or closing the air control valves.
4. **ILLUMINATED CUP HOLDERS:** Placeholder for drinking receptacle.
5. **WATERFALL & FOUNTAIN ON/OFF VALVES:** Located on top rail of spa used to adjust the waterfall/fountain flow.
6. **SPEAKERS:** Audio speaker system for playing music from an MP3 device
7. **AROMATHERAPY:** A small canister that holds scented beads and works in conjunction with the air control system to create an aromatic experience.
8. **TOPSIDE CONSOLE:** Button pad and temperature display panel located on the top of the spa into which various commands, control sequences and options for operating the spa can be input. User can set temperature, filtration cycle and heating mode through the console.
9. **SUCTION FITTING:** Located at the bottom of the spa, used to return water back into the filter and pump system.
10. **JETS (VARIOUS):** Device that ejects air and water, creating water movement in the spa. Adjustable, directional, rotational and interchangeable.
11. **WATERFALL & PERIMETER LIGHTING:** To create a relaxing spa mood.
12. **LARGE DIVERTER:** Diverts the flow of water from one jet zone to another
13. **LED FOUNTAIN JETS**
14. **MAIN SPA LIGHT**
15. **DRAIN OUTLET**

HOW JETS WORK

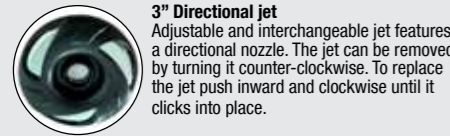
Air is mixed with the water by using the air controls to create massage(s) of varying degrees. Water flow is adjusted by simply turning the outer face of the full sized jets. Our hot tubs have a combination of pulsating, rotating, and directional adjustable jets.



2" Directional jet
Adjustable and interchangeable jet features a directional nozzle. The jet can be removed by turning it counter-clockwise. To replace the jet push inward and clockwise until it clicks into place.



Air Controller
These are located around the top of your spa. Increase or decrease the force of your jets by opening or closing the air control valves.



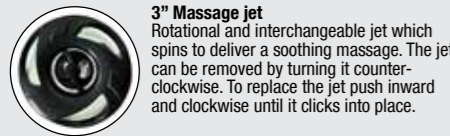
3" Directional jet
Adjustable and interchangeable jet features a directional nozzle. The jet can be removed by turning it counter-clockwise. To replace the jet push inward and clockwise until it clicks into place.



Waterfall control
Located on the topside of the spa, this valve adjusts water flow to the waterfall.



5" (Jumbo) Directional jet
Adjustable and interchangeable jet features a directional nozzle. The jet can be removed by turning it counter-clockwise. To replace the jet push inward and clockwise until it clicks into place.



3" Massage jet
Rotational and interchangeable jet which spins to deliver a soothing massage. The jet can be removed by turning it counter-clockwise. To replace the jet push inward and clockwise until it clicks into place.

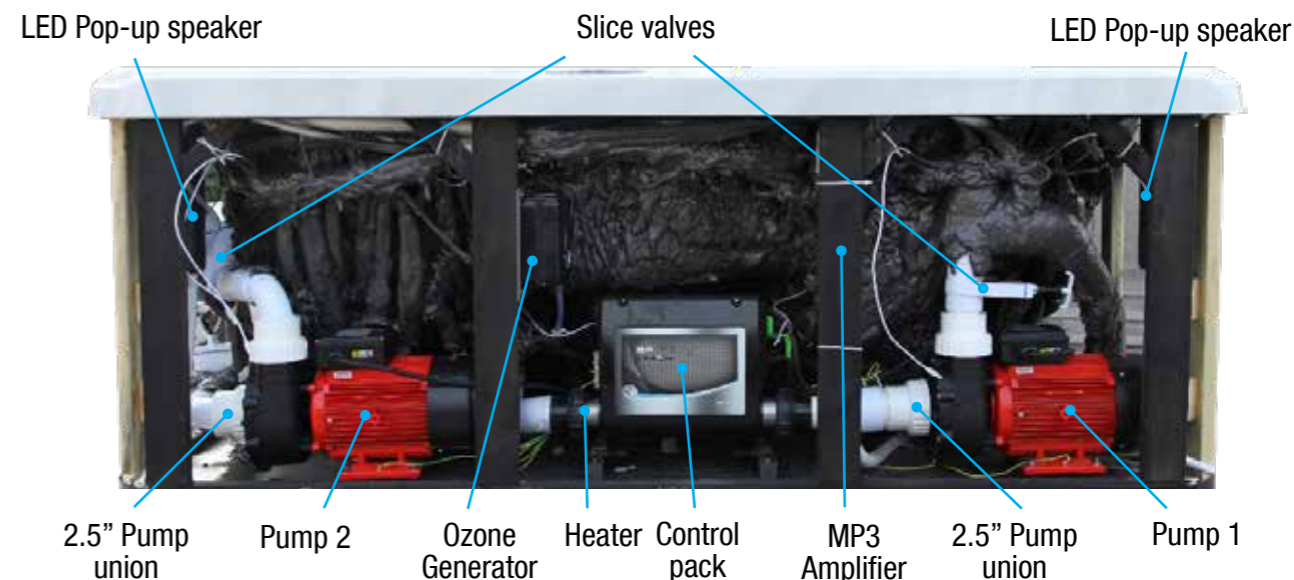


Aroma basket cap
Open cap to place aromatherapy beads. Close after use.



5" Massage jet
Rotational and interchangeable jet features an internal spinner to deliver a low pressure soothing massage. The jet can be removed by turning it counter-clockwise. To replace the jet push inward and clockwise until it clicks into place.

Hot tub equipment side



CONTROL PACK: Unit that controls spa operations, containing electronic programming boards, heater and all connections for Pump(s), Light(s), Ozone Generation Unit and Topside Console. Also referred to as 'Spa Pack' or 'Controller'.

HEATER: Electrical resistance device located in the Spa Controller containing the heating element and 2 temperature sensors. The flow through heater heats the spa's water as it flows across the heating element. Heaters are available in several wattages.

MASSAGE PUMP: Electro-mechanical device to move water, consisting of a wet end and a motor.

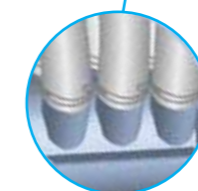
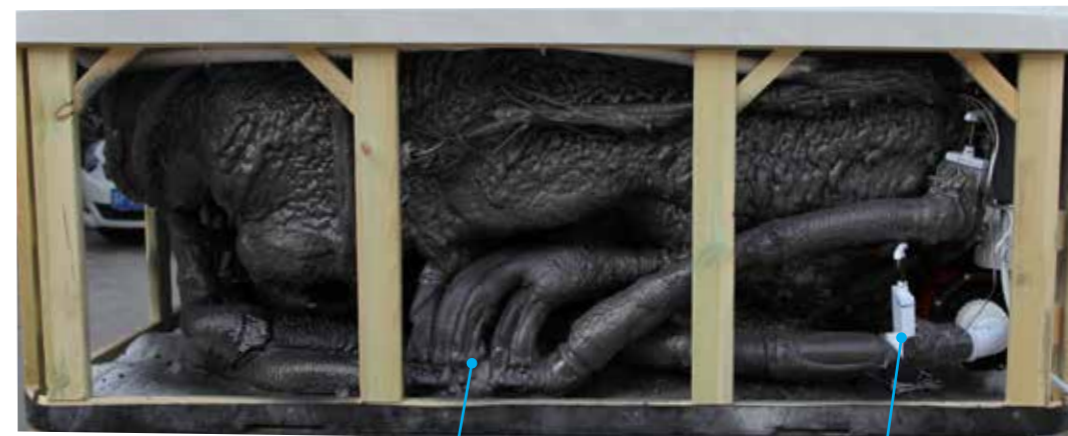
OZONE /UV GENERATOR: Device that generates ozone to aid in maintaining water quality. Generates Ozone and UV to help eliminate organic material such as body oils, dead skin cells and hair.

DRAIN VALVE: Valve located on the outside of spa cabinet used to drain water from the spa. A garden hose can be attached to the drain valve.

EQUIPMENT BAY: Located under the spa shell covered by access panels that houses the spa controller and equipment.

SLICE VALVE: Two-position (open or closed) sliding valve, used to cut off water flow which allows for service to be performed on the spa equipment without the need to drain the spa. Slice valve operations: up for open, down (toward the valve body) for closed.

Hot tub side view





UV Light Water Treatment System

- Input Voltage: AC 230V 50/60 HZ
- Operating Current: 100mA
- Power: 15W
- Purification of water: 15L / Minute
- UV Lamp Lifetime 6000-8000 Hr
- Replace UV Lamp Annually

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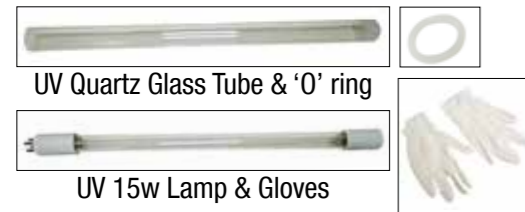
IMPORTANT:

- 1) Turn off the power.
- 2) Allow the UV Lamp to cool before replacing.
- 3) Do not look at lit Lamps to avoid eye damage.

Step 1: Turn both red vales off horizontal position (as photos below) to isolate the UV Silver chamber.



Black Ice UV Kit KK-11216



How to change the Black Ice UV Lamp & Tube

To replace UV Light Lamp Only

Remove pressure fit end and replace Lamp. The end of the Lamp has 4 pins that fit into 4 pin plug, there will be no water as the clear quartz tube is sealed in UV Chamber, replace end and put back in and turn on valves.



To replace UV Quartz Glass Tube & UV Light Lamp.

Follow UV Lamp replacement but before installing new UV Lamp unscrew end off UV Chamber and you will find a Quartz glass tube and a 'O' ring - replace tube and put 'O' ring near the top of the Tube, insert into chamber and screw back metal end, then install new UV Lamp. (Make sure to use gloves).



How to change Canadian Spa Wave Zone Lamp

IMPORTANT:

- 1) Turn off the power.
- 2) Allow the UV Lamp to cool before replacing.
- 3) Do not look at a lit UV Lamp to avoid eye damage.



Step 1: Unscrew the 2 red-marked screws. **Step 2:** Remove the red lid **Step 3:** Unplug this white connector **Step 4:** Take out this black protective sleeve



Step 5: Pull out the Lamp to change it **Step 6:** Put the Lamp inside the metal tube and cover it with black protective sleeve **Step 7:** Plug in the white connector **Step 8:** Cover the red lid and install these 2 screws



ON OFF

Turn both red vales off horizontal position (see photos opposite) to SHUT OFF the water and isolate the UV chamber.



Wave Zone UV Lamp Kit

KK-11202

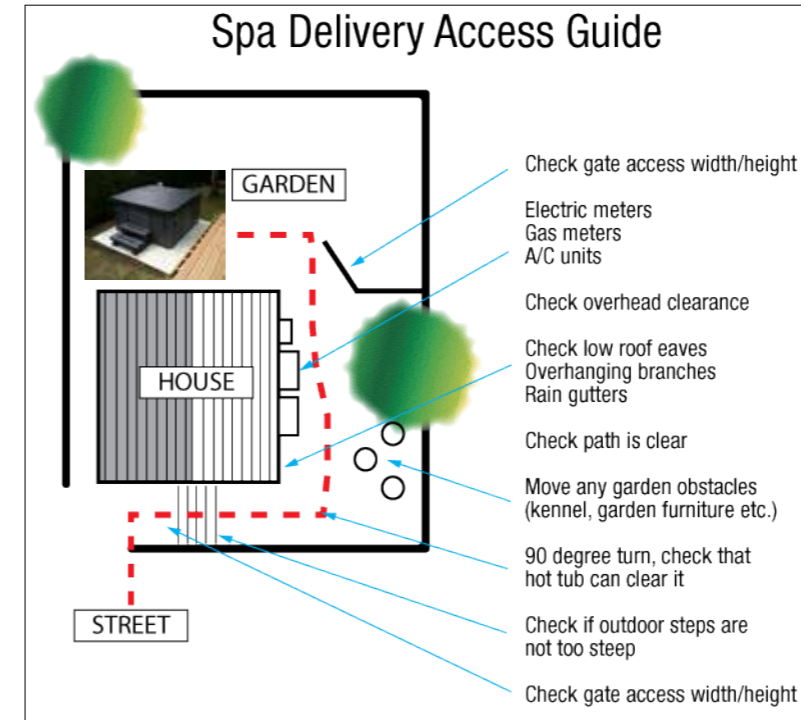
The Advanced Oxidation Process is used in Canadian Spa Company's Hot Tubs. Combining our Ozone Generator with Ultra Violet Light creates a unique bacteria fighting superhero: Super Hydroxyl Radicals. They easily overcome even the most powerful of bacteria.

Spa Status LED (Optional)

Our new Spa Status LED provides convenience, right at your finger tips. Check the status of your spa by looking at the colour of the LED light from afar – no more breaking your back trying to remove your cover just to see if your spa is running!



Pre-Delivery Information



Before delivery check your spa height and width and add 5cm clearance on each side to ensure access.



Check that the hot tub can clear a 90° turn



Rotary Isolation Switch (pictured). Make sure you have a qualified electrician prepare the electrics. Allow 5 metre slack to connect to Spa.



Ensure you have prepared a level concrete base or a properly fitted existing patio or decking with access to a drain.

NOTE: A 10-15 cm concrete base is ideal preparation for a hot tub.

Access: Canadian Spa hot tubs are usually delivered on a flat bed trailer, up to 5 metres long, 2.4 metres wide and 3.5 metres high. Please ensure that there is adequate access for such a vehicle to reach your property. When off loading from our vehicle to the spa site, a minimum of 1100mm width is required, (some models vary) this also needs to be flat and a minimum clear vertical height of 9ft should be considered also.

Electrical supply: If you are having your spa installed, it will be necessary to have a dedicated electrical circuit supply fitted. You will require up to 32 Amp (type C Breaker) supply, dependent on the length from the service point. Your spa must be protected via a RCD and suitable over current protection.

A minimum of 5 metres of cable is required for connection into your spa from the Isolator.

Electrical installation: Arrange for a licensed electrician run the required 230-volt power line to the spa installation site. This power line must be permanently connected (hard-wired) to the mains supply. Do not use extension cords or plug-in type connections. At the site where the spa is to be located leave 5 metres of cable and the appropriate cable gland. All electrical wiring to a spa must be installed by a qualified, licensed electrician, and meet required electrical standards.

Water: The best means of filling your spa is with a garden hosepipe (use cold water not hot water). Please ensure that you have one readily available. If you are aware that your water pressure is poor, we should be advised prior to delivery. The design of our spas allows for easy drainage, again, using the hosepipe which conveniently fits onto the drain valve situated at the base of your spa. Ideally, you should empty the water to a nearby drain. You may wish to purchase a suitable submersible pump to speed up this process.

Decking around your spa: Ensure that you are aware of the above measurements. Always consider during your planning that any decking boards and supporting beams that you install allow access to the sides of your Spa. It is the customers' responsibility to ensure that any decking is clear of these areas prior to any visit by our technicians (Allow 1 metre clearance around your hot tub and if you have decking ensure part of your decking can be removed in order to gain access for future repair or servicing). If you are unsure then please ask before ground construction and the delivery of your spa. Your spa must be sited on a solid, flat, level base which is the same size or larger than the spa. The base can be either a 10-15cm concrete slab or suitably strengthened timber decking or existing patio area assuming it has suitable foundations of hardcore. Whatever base area is chosen, it must be of suitable load bearing capacity. Please ensure your base has suitable drainage.



Ensure part of your decking can be removed in order to gain access for future repair or servicing



Optional CraneService is available

Filling up your Spa

IMPORTANT: Before filling the spa, it is important to read and understand the water chemistry section of this manual. Do not proceed until the water chemistry section is understood and the source water is tested.

Verify that the spa is in the desired final location. Once filled, the spa cannot be moved without draining.

Follow these filling instructions to avoid damage to the spa pumps:

1. Leave power to the spa off until spa is completely filled.
2. Never leave an unfilled spa exposed to direct sunlight with out the Spa Cover installed. Resulting damage such as bubbles and wrinkles in the spa shell and fading of the jet faces is not covered by the manufacturer's warranty.
3. Never operate spa pump without water because this could result in permanent pump and/or heater damage which is not covered by the manufacturer's warranty.
4. Remove all warning labels from spa shell.
6. Remove the filter lid, basket and filter cartridge.
7. Inspect all Jets (shipping may cause jets to become loose or detached). Check to see that the black Drain Valve (located to the left or right of the front access panel) is closed.

IMPORTANT: Follow the next steps closely to prevent damage to the Spa Pump.

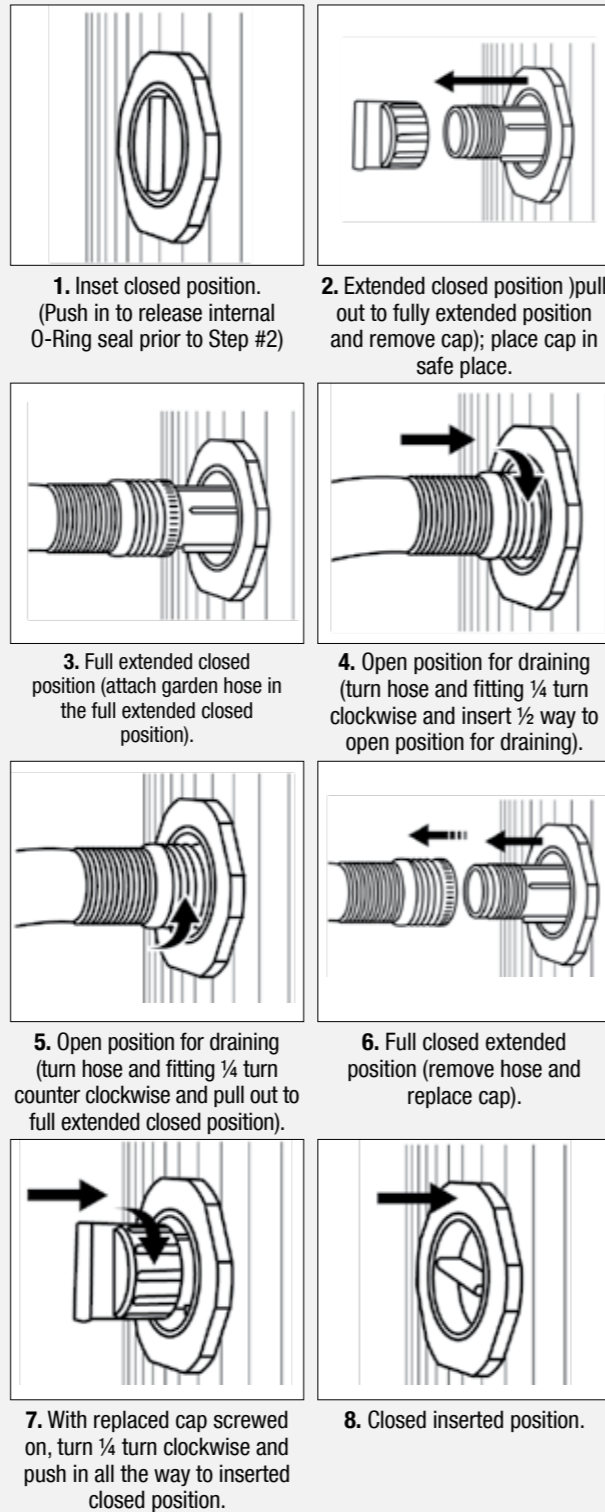
Filter Type: Glacier Antimicrobial Filter Set SKU: KA-10032



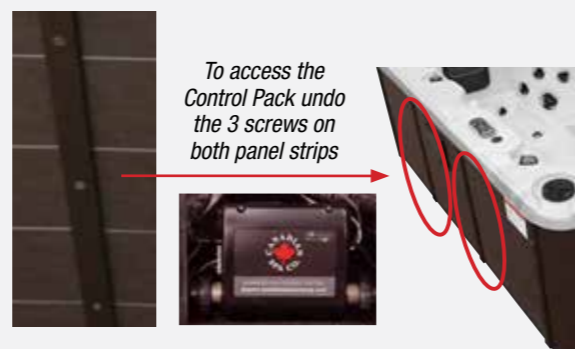
8. Insert garden hose or other clean water source directly into filter housing. Push hose pipe into filter housing until it stops. Fill up to top of the skimmer. Secure hose placement and turn on water. Filling the spa through the filter housing prevents an air lock from occurring in the spa pump, which is an air pocket preventing the flow of water through the pump. Permanent damage caused by running the pump with an air lock (or without water) is not covered by the manufacturer's warranty.
9. Check for leaks! Although spas are fully checked at the factory, shipping and delivery might cause a leak.
10. Before power is applied familiarise yourself with the spa control operations.
11. Turn water off and remove hose.
12. Reinstall filter cartridge, basket and filter lid.
13. Add start-up Chemicals after power is turned on.

Draining your Spa/Using drain valve

IMPORTANT: Before draining your spa shut off the electrical breaker connected to the spa.



Accessing your spa controls



Installation: Electrical power requirements

Power connections

Single Phase (A) is the normal wiring configuration for most household electrical installations (3 wires: live, neutral and earth). If however you have insufficient Amps you will need to use other connection (see below). **2 Single Phase connection (B)** is used in circumstances where the power supply is limited and where you need more Amps. **3 Phase (C)** is used in certain areas of Europe where 3 Phase power is available and the installation warrants it. **NOTE:** Canadian Spa Company requires that the electrical installation of your hot tub is carried out by a professionally licensed electrician and that all local electrical and building codes are adhered to.

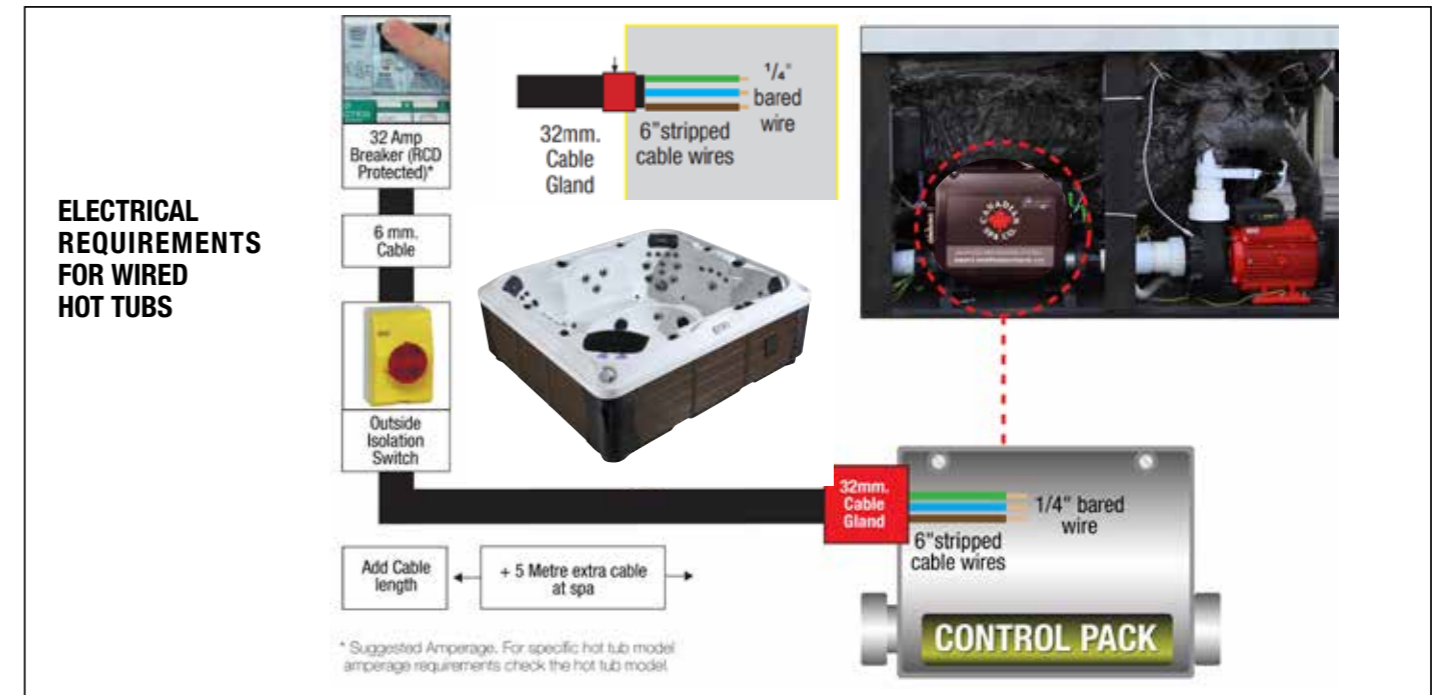
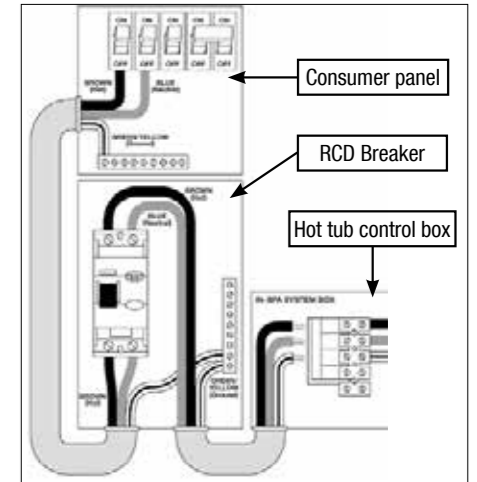
A.) Single Phase connection (Most common):

CONNECTING HOT TUB TO RCD AND CONSUMER PANEL:

- All hot tubs must be wired with the appropriate sized wiring. Failure to do so will cause equipment damage and will not be covered by your warranty
- All hot tubs must be protected with a appropriately sized RCD (Residual Current Device) in the consumer panel. Have your electrician verify using the diagram opposite.

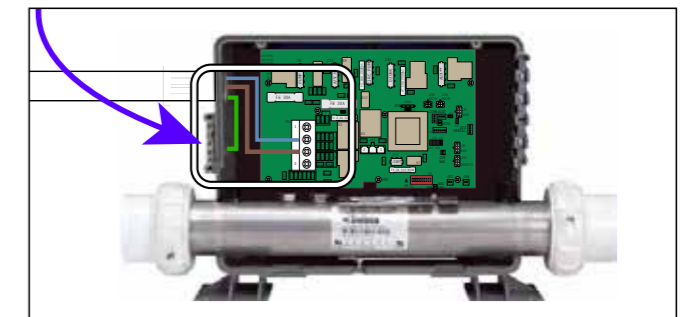
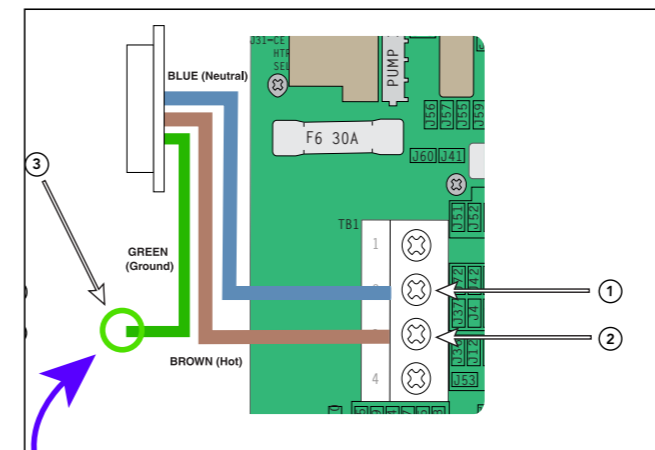
ADDITIONAL ITEMS NEEDED TO HELP COMPLETE ELECTRICAL CONNECTION:

1. RCD Breaker, 2. Electrical cable (check length and width for amperage and distance), 3. Cable gland. 4. Tidy clips

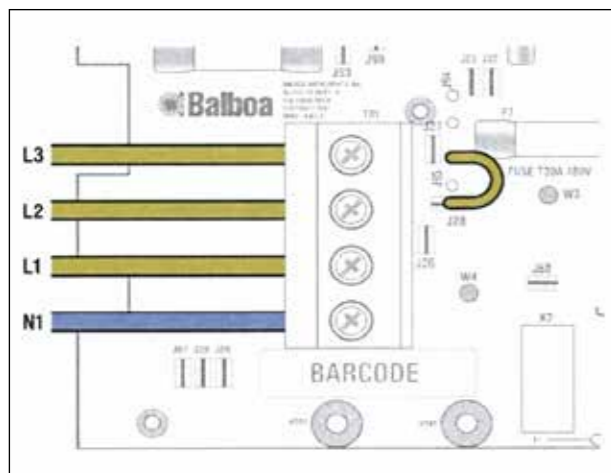


A.) Single Phase connection (most common):

Single Phase (live 1, neutral 1, live 2, neutral 2, ground)
230VAC, 50/60Hz, 2p, 16A, (Circuit Breaker rating = 20A max each phase line.)



Installation: Electrical power requirements



B.) 2 x Single Phase
(live 1, neutral 1, live 2, neutral 2, ground)]
 230VAC, 50/60Hz, 2p, 16A,
 (Circuit Breaker rating = 20A max each phase line.)

In 2x16A Service:
 Pump 2 (if any) and the Heater are on one service.
 Everything else is on the other service.

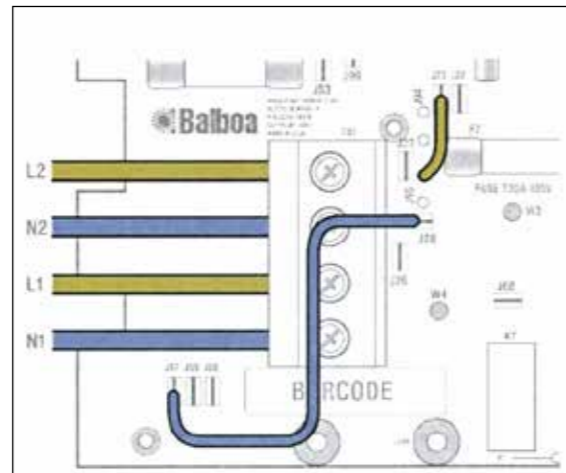
For 2-Wire connection:

1. Completely remove jumper on J51 and J88.
2. Completely remove jumper on J52 and J62.
3. Make a connection between jumper J60 and J36
4. Make a connection between jumper J41 and J12
5. Make a connection between jumper J46 and J75
6. Make a connection between jumper J20 and J77
7. Make a connection between jumper J38 and J54
8. Put DIP switches A2, A3 and A5 on ON

POWERING UP YOUR SPA

Once the spa is properly wired and filled with water, the spa power can be turned on and Start-up chemicals added.

1. Turn on RCD breaker. If breaker trips immediately check Neutral and Ground Wire connections. Upon initial power up, 4 sets of numbers flash on the LED display of the topside Console. The last number in the sequence is the incoming power meter which can be used to verify that the spa is wired correctly.
2. The spa begins an automatic priming routine which will last 6 minutes ("Pr" is on the LED display).
3. The priming routine will automatically run each spa pump to prime. When the "Pr" is displayed, press any PUMP button to prime that pump or wait for the priming routine to turn on the Pump. **IMPORTANT:** To avoid pump damage, do not run pumps for more than 1 minute without moving water. If no water is moving, turn the power off and perform air lock procedure.
4. The Topside Console display flashes "38C/100F" then press "--C/F" for approximately 2 minutes to determine water temperature as it flows through the heater.



C.) 3-Phase 5 wires (live 1, live 2, live 3, neutral, ground)]
 400VAC, 50/60Hz*, 3p, 16A, (
 Circuit Breaker rating = 20A max each phase line.)

In 3x16A Service:

Pump 2 is on one service.
 The Heater is on another service.
 Everything else is on the remaining service.

For 3-phase connection:

1. Completely remove jumper on J51 and J88.
2. Completely remove jumper on J52 and J62.
3. Make a connection between jumper J60 and J45
4. Make a connection between jumper J41 and J79
5. Put DIP switches A2 and A3 on ON and DIP switch A5 on OFF.

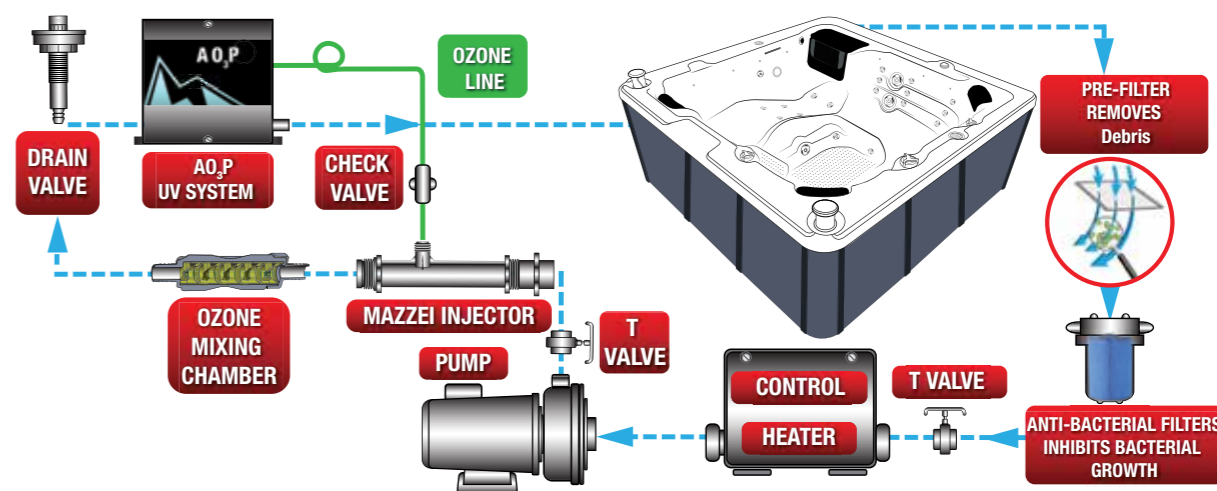
5. The default pre-set temperature is 36.5°C. The last measured temperature is constantly displayed on the LCD readout. This temperature will be current only when the pump has been running for at least 2 minutes. Set the desired temperature between 26- 40°C (80-104°F) by pressing the temp button(s). If the water temperature is below the set temperature, the spa's heater and heat indicator light will turn on. All features of the Topside Console will be available. The spa will heat approximately 1° every 30 minutes per 1,000 litres.
6. Check for leaks! Although spas are fully checked at the factory, shipping & delivery might cause a leak. Remember to pay particular attention to barrel unions adjoining the heater. Contact your Canadian Spa dealer directly if there is a problem.

If your new spa pump does not prime (flow) on the initial start-up you may be experiencing an "air lock".

This normal occurrence can be easily corrected by loosening the plumbing union on the suction side of the Jet or Pump until water flows into the pump and all air is expelled.

PRESS BUTTONS SLOWLY FOR FIRST RUN WHEN STARTING UP
 ONCE PR EXITS, SET TEMPERATURE ON SPA (SEE SPA OPERATION SECTION FOR DIFFERENT SPA TOPSIDES)

How your spa functions



ATTACHING YOUR SPA COVER

The Spa Cover is an important accessory to help preserve the spa's temperature. The Spa Cover also serves as a safety device, preventing unauthorised users from entering the spa. Proper installation of the Spa Cover is an important addition in the spa installation.

- 1) Remove Spa Cover from packaging.
- 2) Place Spa Cover on spa in order to allow easy access to the topside console when opening the cover.
- 3) Line up attaching straps and secure with mounting hardware and use locking mechanism to lock Spa Cover in place.

IMPORTANT:

Always lock Spa Cover in place when not using the spa. Do not walk or sit on Spa Cover. Remove snow build-up to avoid breaking the foam inner core. Do not drag Spa Cover on rough surfaces.



TOP MOUNT™HOT TUB COVER LIFTER

Fully compatible with ALL our Canadian Spa hot tubs and spas and most other brands; this Cover Lifter is the ideal choice to complement your Hot Tub, making cover removal and replacement a quick, one-handed operation and reducing wear and tear.

- Low-profile design
- Virtually zero clearance required behind spa – great for tight spaces (particularly if your spa is located in a gazebo)
- Mounts directly to the spa
- Fits up to 2.4m Spas
- Made of Aluminium **KA-10027**

BOTTOM MOUNT™ HOT TUB COVER LIFTER.

Fully compatible with Canadian Spas; this Cover Lifter is the ideal choice to complement your hot tub or spa, making cover removal and replacement a quick, one-handed operation while reducing wear and tear on your hot tub cover.

- Mounts directly to the spa
- Made of black powder-coated Aluminum
- Requires 31cm - 46 cm rear clearance **KA-10026**

LED LIGHTING

Change the colour of your spa with a press of a button, 13 colour options to choose from. Chromatherapy is a great way to relax in your spa using colours to change your mood



Spa Functions

Pumps

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 time-out period. The pump 1 low-speed will time out after 30 minutes. The high-speed will time out after 15 minutes.



The low-speed of pump 1 runs when the other pump is on. If the spa is in Ready Mode, Pump 1 low 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. When the low-speed turns on automatically, it cannot be deactivated from the panel, however the high speed may be started.

Filtration and Ozone

Pump 1 low and the ozone generator will run during filtration. The system is factory-programmed with two filter cycles that will run 10 minutes after power-up. The filter duration is programmable.

Freeze Protection

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

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

Clean-up Cycle

When a pump is turned on by a button press, a clean-up cycle begins 30 minutes after the pump is turned off or times out. The pump and the ozone generator will run for 30 minutes or more, depending on the system.

Temperature and Temp Range

Adjusting the Set Temperature

When using a panel with Up and Down buttons (Temperature buttons), pressing Up or Down will cause the temperature to flash. Pressing a temperature button again will adjust the set temperature in the direction indicated on the button. When the LCD stops flashing, the spa will heat to the new set temperature when required.



TEMPERATURE UP



TEMPERATURE DOWN

Pressing the button again will cause the temperature to change in one direction (e.g. UP). After allowing the display to stop flashing, pressing the Temperature Button will cause the temperature to flash and the next press will change the temperature in the opposite direction (e.g. DOWN). The temperature can be set between 16°C and 40°C (60°F and 104°F).

Press-and-Hold

If a Temperature button is pressed and held when the temperature is flashing, the temperature will continue to change until the button is released. If only one temperature button is available and the limit of the Temperature Range is reached when the button is being held, the progression will reverse direction.

LIGHTS

Press light button to turn on and off the lights. Each consecutive press will alternate through different lighting modes and colours.



Airlock warning messages

If you receive any of these error messages on your spa you could have an airlock: **FLO**

How to release an airlock

Air Lock Release Valves

To bleed air from the pump valves (see photo opposite):

- Turn one of these valves slightly until you can here a hissing noise
- Once water comes out tighten the valve back up, pump has been bled of the trapped air

If your spa pump does not prime (flow) on the initial start-up you may be experiencing an “air lock”.

This normal occurrence can be easily corrected by loosening the plumbing union on the suction side of the Jet or Pump until water flows into the pump and all air is expelled.

PRESS BUTTONS SLOWLY FOR FIRST RUN WHEN STARTING UP ONCE PR EXITS, SET TEMPERATURE ON SPA

Chemical Guide



Starter Chemical Kit

KA-10122



Deluxe Chemical Kit

KA-10089



Chlorine Granules - Disinfection

To protect your health, ensure that your spa water is disinfected thoroughly on a regular basis. This is particularly important in spas, as the high water temperatures provide an ideal breeding ground for bacteria. To prevent water care problems, there must always be sufficient levels of disinfectant in the water.

The use of Chlorine granules is the traditional method of disinfecting spas. Chlorine granules dissolve quickly, without residues, and do not bleach the surfaces. The granules are pH-neutral, i.e. the pH value of the water does not change with the dosing of the granules.

Check the pH value using the 3 function test strips at least once a week, and, if necessary, adjust it to 7.2 – 7.6. Add 10 g/m³ of Chlorine granules after each bathing session. Let the circulation pump run for 10 minutes, and then check afterwards using 3 function test strips that the ideal value of 1.0 – 1.5 ppm (mg/L). is reached. If necessary, continue to dose. The granules are dosed directly into hot tub water. **KA-10123**



pH Up and pH Down

The pH value is the basis for reliable disinfection. The care products only work perfectly when the levels are correct, meaning the water is not harmful to skin, hair or eyes. The ideal pH value is between 7.2 and 7.6. The pH value is influenced by various factors. For example it increases when fresh water is added. Increasing the water temperature or using the jets changes the pH value. Therefore, check the value at least once a week and, if necessary, increase the levels using pH Up or decrease with pH Down. The granules are dosed directly into the spa water.

pH Up: KA-10051 / pH Down: KA-10050



Scale Control

The overall hardness is a measure of the amount of calcium and magnesium in the water. Scale Control prevents calcium precipitations forming on the walls and in the pipes of your spa. You can find out the overall hardness level of your water by contacting your local water supplier. With a level over 200 ppm (mg/L), heating the water can cause lime-scale deposits on the walls, creating rough surfaces. To prevent lime-scale deposits, always use Scale Control after refilling.

KA-10055



Test strips

Canadian Spa 3 Way Test strips to check the levels of Chlorine, PH and Total Alkalinity. Simple and easy to use. Ensure your spa is always safe to use. Pack of 50 strips. Dip a test strip into the water and compare to the colour chart to take readings for: - Chlorine, pH, Total Alkalinity.

TIP: Chlorine and pH should be checked EVERY TIME the spa is used to ensure that the water is safe to use! Go to App, put in your test results and it will tell you what to add and how much. **KA-10052**



Foam Free

If your spa water has a tendency to foam, then we recommend you add Foam Free. The product is added directly to the spa water. If the water continues to foam, even after the product has been added, replace the water.

KA-10054



Alkalinity Booster

Alkalinity booster will prevent erratic changes in the pH level of the spa/hot tub water. Alkalinity Booster will help the bromine or chlorine in the spa/hot tub work more efficiently. Alkalinity Booster raises the total alkalinity of the spa/hot tub water preventing any corrosion that could be cause by low alkalinity.

KA-10146



Spa Clear

Super highly Concentrated Clarifier

- Adds brilliance back to spa water
- Aids filter in removing suspended particles
- Non-toxic. Will not affect pH level.
- Reduces chlorine demand when used regularly
- Restores water clarity

KA-10053



FREE Water Test App

Download on the App Store

GET IT ON Google Play

Spa Flush

Annually flush the spa to remove bio-film that has attached to the interior of the spa pipes.

KA-10164

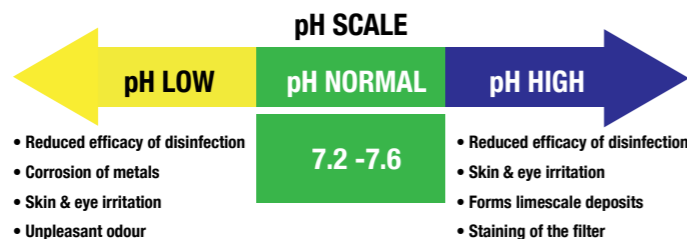


TROUBLESHOOTING GUIDE

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|---------------------------------|--|--|
| CLOUDY WATER | A) organic contaminants build-up B) suspended particles C) pH high D) total alkalinity too high E) poor filtration F) high dissolved solids | A) shock treatment with Granular Chlorine B) add Granular Chlorine, use SPA-BALL C) add pH DOWN until pH level reads 7.2-7.6 D) add pH DOWN, adjust total alkalinity to 80-150 p.p.m. E) dirty filter, replace filter F) empty spa and refill |
| COLOURED WATER | Debris in water | Use Chlorine Granules. |
| FOAMING | High concentration of oils and organic contaminants being agitated by jet | Squirt FOAM-FREE on foam. Use the SPA-BALL |
| SCALE DEPOSITS | High calcium level, high pH, high alkalinity | Drain partially, add Granular Chlorine, correct pH level to 7.2-7.6 and alkalinity to 80-150 p.p.m. |
| ODOUR | High level of organic contaminants combined chlorine. Chlorine level too high | Shock with Granular Chlorine |
| EYE/SKIN IRRITATION | A) pH too low B) combined chlorine due to high concentration of organic contaminants | A) add pH up until level is 7.2-7.6 B) shock with Granular Chlorine, add disinfectant |
| NO CHLORINE/ BROMINE READING | A) high concentration of organic contaminants using up sanitizers B) test trips may be ineffective | A) add Granular Chlorine B) replace at least once a year, keep cool and out of sunlight |



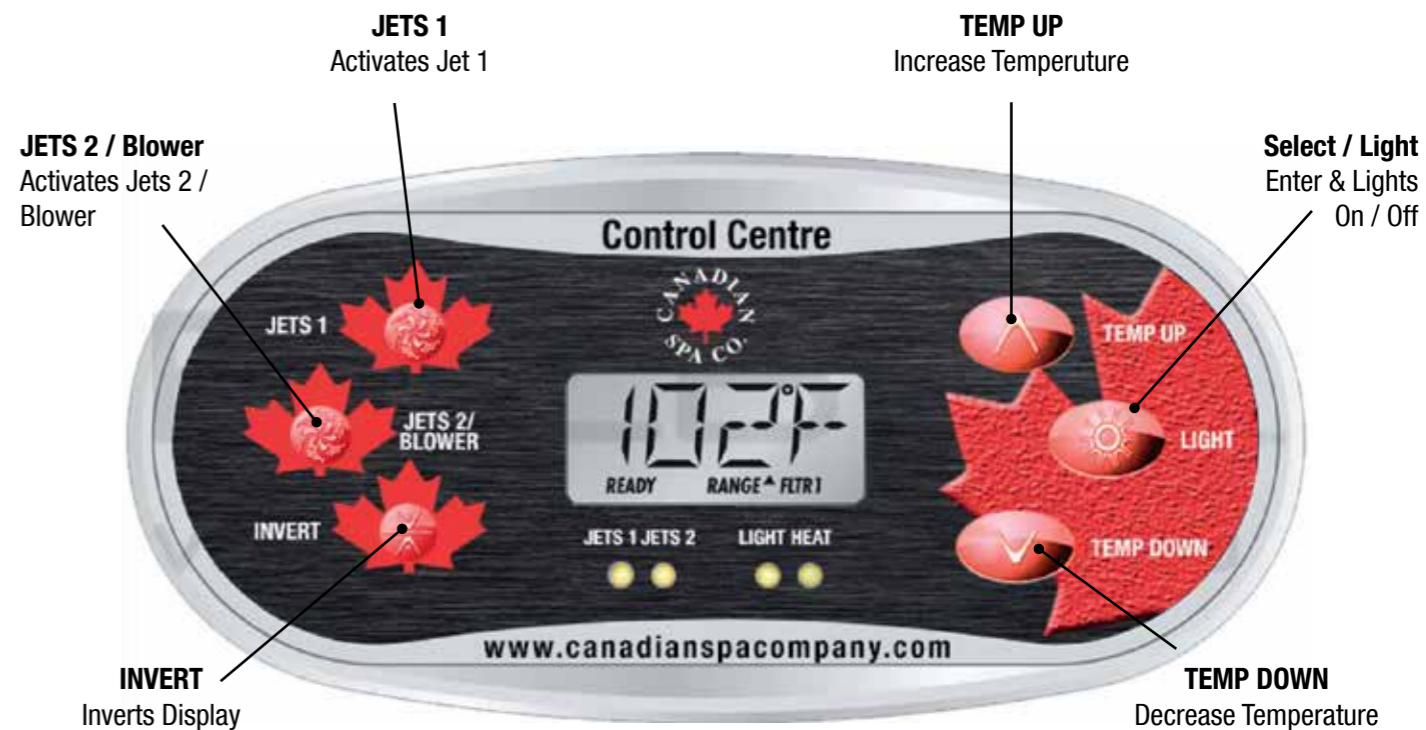
Low PH and low-quality chlorine causes the heater element to calcify



Helps to keep your spa clean and achieve crystal clear water!

Canadian Spa Company Spa Ball KA-10003

Configuration: Your Control Centre



Ready Mode
Range Temperature High



Jets 1 Light

Ready Mode
Range Temperature High



Jets 1 Light Heat

Rest Mode
Range Temperature Low



Jets 1 Light

Ready Mode
Range Temperature Low



Jets 1 Jets 2 Light

YouTube Chemical Video Guides on Canadian Spa Company channel



Settings 2 x Pumps standard & Simple Options

Press **Menu** button until you reach the mode you require.

TEMP

- **Temp Up** button – until arrow is either pointing up or down. (*Arrow up will maintain heat / Arrow down will drop the temp by 10 degrees.*)
- **Menu** button to select.

MODE

- **Temp Up button** – press until either Ready or Rest is displayed (*Ready maintains its set temperature / Rest will only heat within the filtration cycles*)
- **Menu** button to select.

SET TIME (Not used with Simple Option)

- **Temp Up** button – hour will flash on display.
 - press **Temp up** button until desired hour.
- **Menu** button to select – minutes will flash.
 - press **Temp Up** button until desired minute.
- **Menu** button to select.

FLIP

- **Temp Up** button – will invert the display so it can be seen in spa.
- **Menu** button to select.

LOCK

Panel Lock

- **Temp Up** button – **PANEL** will be displayed.
 - **Temp Up** button - cycle between On and Off.
 - Once **ON** is displayed press **MENU** button to select.
- (*The buttons on topside panel will now be unresponsive*)

Temp Lock

- **Temp DOWN** button – **TEMP** will be displayed.
 - Temp up button – cycle between On and Off.
 - Once **ON** is displayed press **MENU** button to select.
- (*The Temperature buttons will now be unresponsive – jet buttons will work*)

UNLOCK

- Press and hold down **TEMP UP** while you press the **MODE Button** 2 x Slowly. (*Topside panel is now unlocked and normal operations enabled*)

HOLD

- **Temp Up** button – '**HOLDING FOR 1:00**' will be displayed.

(*Pump/s will shut down for 1 minute to allow time to replace filters*)
- **Press Temp Up**-to restart or wait for the minute HOLD to end.

FLTR 1

(Set 1 -12 hours every 12 hours on simple)

- **Temp Up** button – **BEGN** will be displayed.
- **Temp Up** button – Hour will be flashing.
 - Press **Temp Up** button to cycle to the hour preferred to start.
- **Menu** button to select – minutes now flash.
 - **Temp Up** to adjust the minutes – goes up 15 minutes with every press.
- **Menu** button to select.

RUN HRS is then displayed.
- **Temp Up** button – press to how many hours you would like the filtration cycle to run.

(*recommended filtering cycle - 4 hours twice a day*)
- **Menu** button to select.
 - **Minutes** – press **TEMP Up** button – goes up in 15 minutes every press.
- **F1 ENDS - Menu** button to select.

FLTR 2

(Not used with Simple Option)

- **Temp Up** button – **OFF** will be displayed press **Temp Up** for it to be **ON**
- **Menu** button to select.
- **Temp Up** button – **BEGN** will be displayed.
- **Temp Up** button – Hour will be flashing.
 - Press **Temp Up** button to cycle to the hour preferred to start.
- **Menu** button to select – minutes now flash.
 - **Temp Up** to adjust the minutes – goes up 15 minutes with every press.
- **Menu** button to select.

RUN HRS is then displayed.
- **Temp Up** button – press to how many hours you would like the filtration cycle to run.
- **Menu** button to select.
 - **Minutes** – press **TEMP Up** button – goes up in 15 minutes every press.
- **Menu** button to select.

F2 ENDS – press **MENU** button to select.

PREF

Service tech

UTIL

Service tech

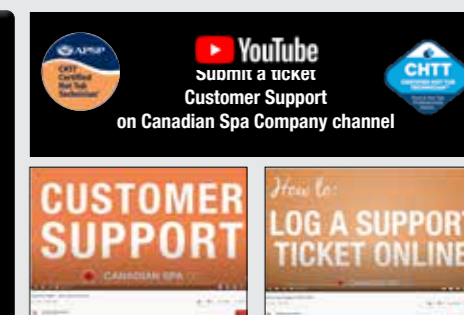
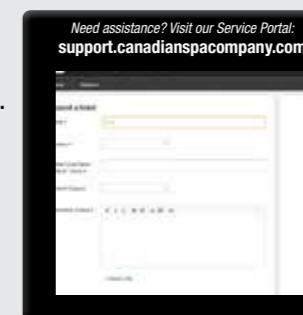
Trouble shooting

| ISSUE | POSSIBLE CAUSE | SOLUTION |
|---|--|---|
| • No power | Breaker or RCD off Loose wire connection | Check that RCD breaker is turned ON Check wire connections |
| • RCD trips | Mis-wired Component failure | Check wiring per diagram, especially neutral wire Perform elimination test to determine failed component. See elimination test section |
| • Heater not operating or spa not heating | Temperature set to low Water level too low Blown fuse Component failure | Set temperature above current water temperature Add water until water level is 1 inch (25mm) above Water Line Check 30amp bus fuse on control board Contact dealer |
| • Pump not operating or turns off after a short time | Air lock Improper voltage to pump Time out Component failure Thermal overload | See Air lock procedure (Page 12) Contact dealer or qualified electrician As a safety precaution, the Spa Controller only allows Pump operation for 15 minutes continuously Contact dealer or qualified electrician During extreme high ambient temperatures the pump motor may reach the motor thermal overload limit. Wait until motor cools and retry. If problem persists contact dealer |
| • Pump surging • Light will not turn on | Low water level Burned out bulb Light bulb may have fallen out | Add water until water level is 1 inch (25mm) above water line Change bulb Unscrew back housing and reinsert bulb |
| • Ozone Generation Unit will not operate | Blown fuse Burned out UV bulb Component failure | Check Ozone fuse Replace unit Contact dealer |
| • No water Flow from Jets | Air lock Adjustable jets turned off Faulty pump or motor Slice valve closed Clogged filter | See air lock procedure Turn jets on Contact dealer Open slice valve Clean or change filter |
| • Jet popped Out | Jet face not seated Broken jet | Insert jet and turn clockwise until jet snaps into place you will feel the jet seat Contact dealer |
| • No air flow from jet | Adjustable jets turned off Air control valve not open Broken jet Jet not seated properly | Turn jets on Open air control valve Contact dealer Insert jet and turn clockwise until jet snaps into place as it seats |
| • Noisy Pump or Motor | Air lock Low water level Clogged filter Damaged or worn motor bearings | See air lock procedure Add water until water level is 1 inch (25mm) above water line Clean or replace filter Contact dealer |
| • Spa Overheating | High ambient temperature | During extreme high ambient temperatures the spa may over heat due to internal friction with in the plumbing. Reduce set temperature or remove spa cover to cool. Reduce filtration cycle duration to minimum setting |
| • Spa will not turn off | Filtration duration Spa is trying to heat Spa is on high filter cycle | Check set temperature or heat indicator light on topside console is ON Check filter cycle and reduce to 2 or 4 |
| • Abnormal water | Excessive evaporation Excessive splashing | Check and adjust spa cover if needed Monitor water level after each use |
| • Water not clean | Dirty or clogged filter Poor water chemistry Insufficient filtration Cycle duration High solids content | Clean or replace filter See common water problems section Based on usage ,adjust filtration cycle duration See common water problem section |

SERVICE PORTAL

The FAQ section provides answers to your hot tub questions.

Submit a ticket in our system and our global team will effectively solve your issue quickly and efficiently 24/7.



Fill it up!

Preparation and Filling

Fill the spa to its correct operating level. Be sure to open all valves and jets in the plumbing system before filling to allow as much air as possible to escape from the plumbing and the control system during the filling process.

After turning the power on at the main power panel, the top-side panel display will go through specific sequences. These sequences are normal and display a variety of information regarding the configuration of the hot tub control.

Priming Mode - M019*

This mode will last for 4-5 minutes or you can manually exit the priming mode after the pump(s) have primed.



Regardless of whether the priming mode ends automatically or you manually exit the priming mode, the system will automatically start normal heating and filtering at the end of the priming mode. During the priming mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-flow or no-flow conditions. Nothing comes on automatically, but the pump can be energized by pushing the "Jets" or "Aux" buttons.

Priming the Pump

As soon as the above display appears on the panel, push the "Jets" button once to start the Pump in low-speed and then again to switch to high-speed. will now be running in high-speed to facilitate priming. If the pump has not primed after 2 minutes, and water is not flowing from the jets in the spa, do not allow the pump to continue to run. Turn off the pump and repeat the process. Note: Turning the power off and back on again will initiate a new pump priming session. Sometimes momentarily turning the pump off and on will help it to prime. Do not do this more than 5 times. If the pump will not prime, shut off the power to the spa and call for service.

Important: A pump should not be allowed to run without priming for more than 2 minutes. Under NO circumstances should a pump be allowed to run without priming beyond the end of the 4-5 minute priming mode. Doing so may cause damage to the pump and cause the system to energize the heater and go into an overheat condition.

Exiting Priming Mode

You can manually exit Priming Mode by pressing the "Warm" or "Cool" button. Note that if you do not manually exit the priming mode as described above, the priming mode will be automatically terminated after 4-5 minutes. Be sure that the pump have been primed by this time. Once the system has exited Priming Mode, the top-side panel will momentarily display the set temperature but the display will not show the water temperature yet, as shown below.

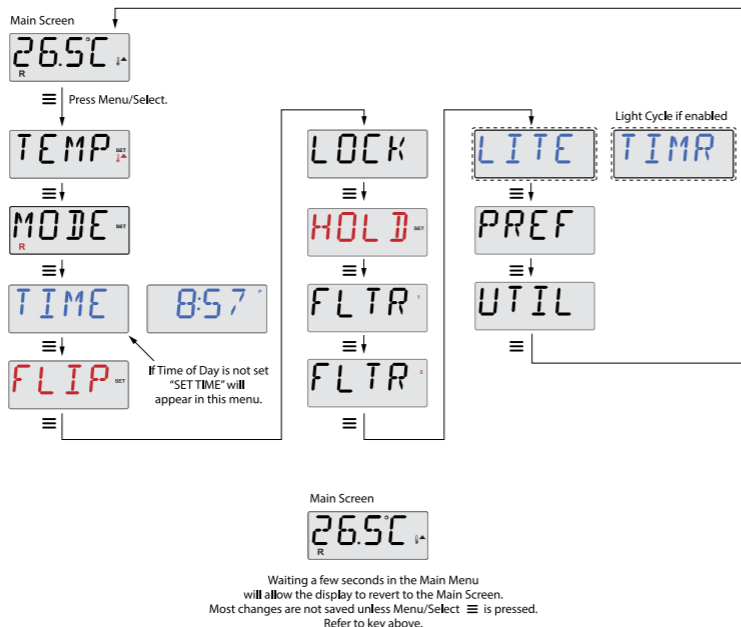
This is because the system requires approximately 1 minute of water flowing through the heater to determine the water temperature and display it.



Key

- Indicates Flashing or Changing Segment
- Indicates Alternating or Progressive Message - every 1/2 second
- A temperature button, used for "Action"
- Light or dedicated "Choose" button, depending on control panel configuration
- Waiting time that keeps the last change to a menu item.
- Waiting time (depends on menu item) that reverts to original setting and ignores any change to that menu item.

Power-up Screens
Each time the System powers up, a series of numbers is displayed. After the startup sequence of numbers, the system will enter Priming Mode (See Page 3).



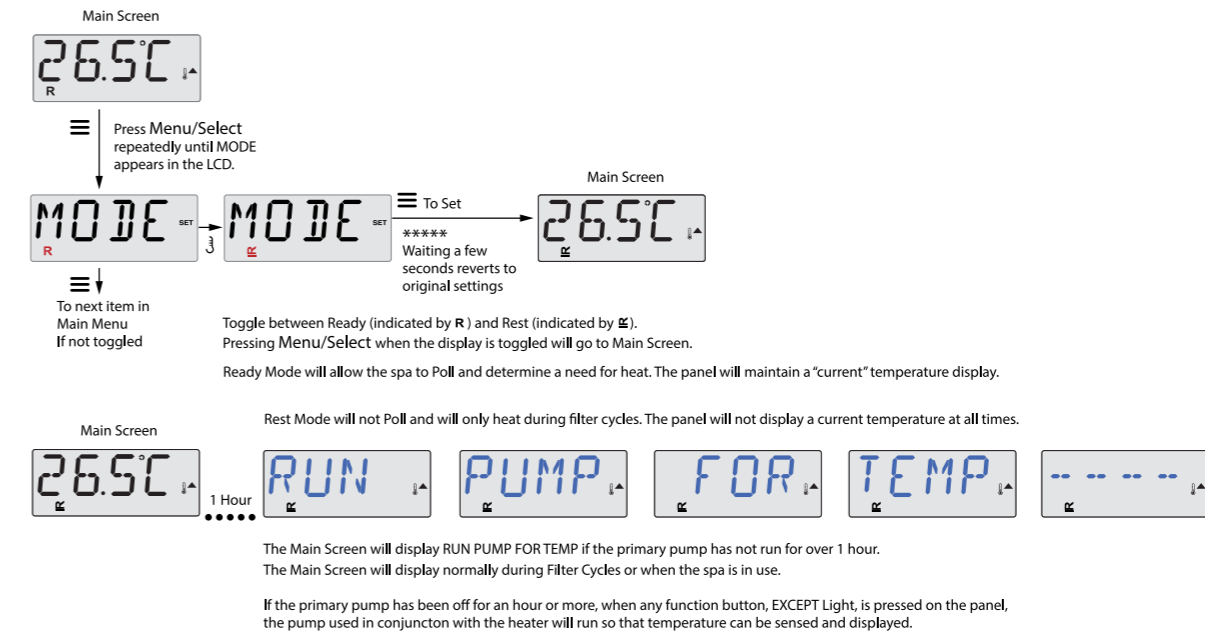
Ready Mode and Rest Mode

In order for the spa to heat, a pump needs to circulate water through the heater. The pump that performs this function is known as the "primary pump."

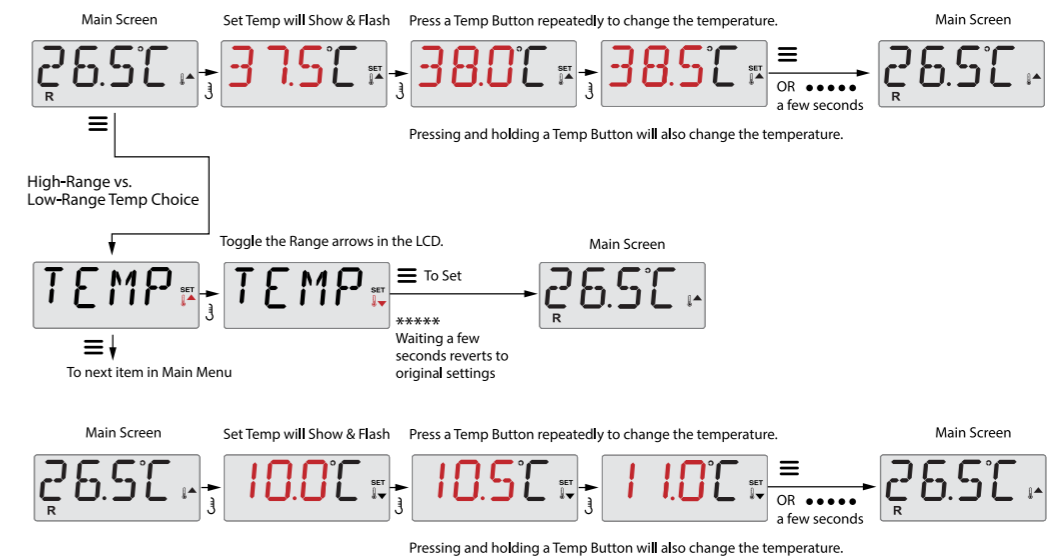
Primary pump is a 2-Speed Pump 1, Ready Mode (indicated by **R**) will circulate water periodically, using Pump 1 Low, in order to maintain a constant water temperature, heat as needed, and refresh the temperature display. This is known as "polling."

Rest Mode (indicated by **R**) will only allow heating during programmed filter cycles. Since polling does not occur, the temperature display may not show a current temperature until the primary pump has been running for a minute or two.

In Rest Mode, the spa will only heat to set temperature during programmed filter times.



Water Temperature Setting



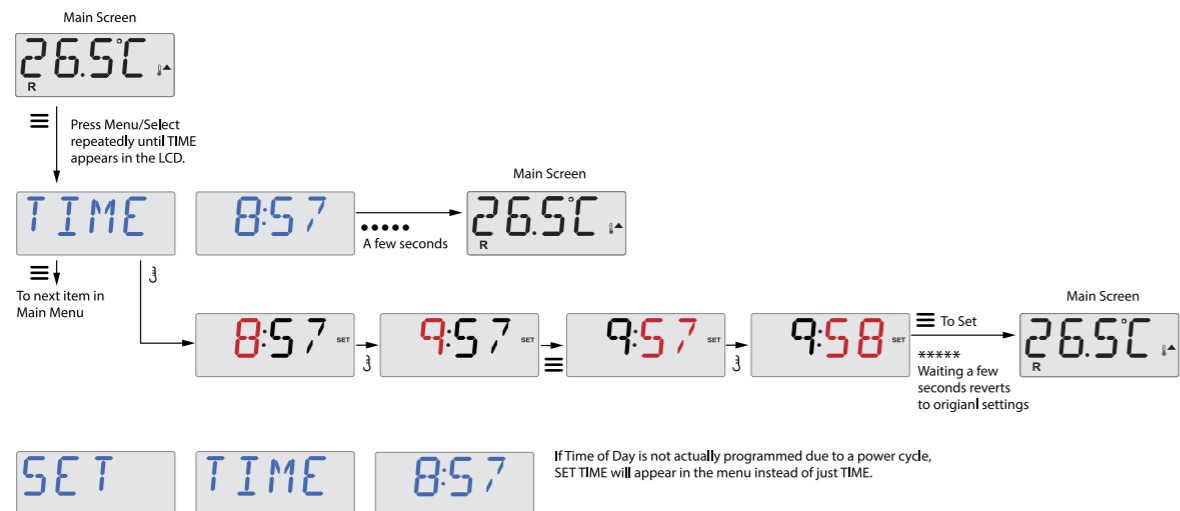
Show and Set Time-of-Day

Be sure to set the Time-of-Day

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

When in the TIME menu, SET TIME will flash on the display if no time-of-day is set in the memory.

24-hour time display can be set under the PREF menu.



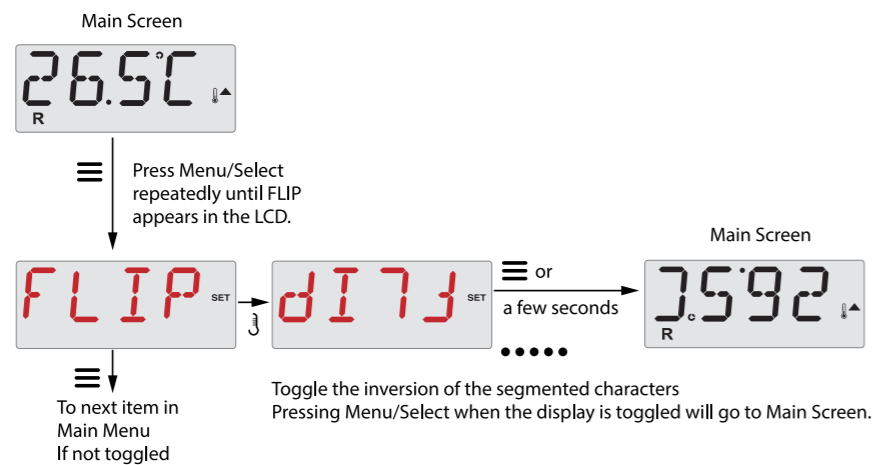
Note:

This note refers to systems that do not keep track of Time-of-Day when powered down.

If power is interrupted to such a system, Time-of-Day is not stored. The system will still operate and all other user settings will be stored. If filter cycles are required to run at a particular time of day, resetting the clock will return the filter times to the actual programmed periods.

When such a system starts up, it defaults to 12:00 Noon, so another way to get filter times back to normal is to start up the spa at noon on any given day. SET TIME will still flash in the TIME Menu until the time is actually set, but since the spa started at noon, the filter cycles will run as programmed.

Flip (Invert Display)

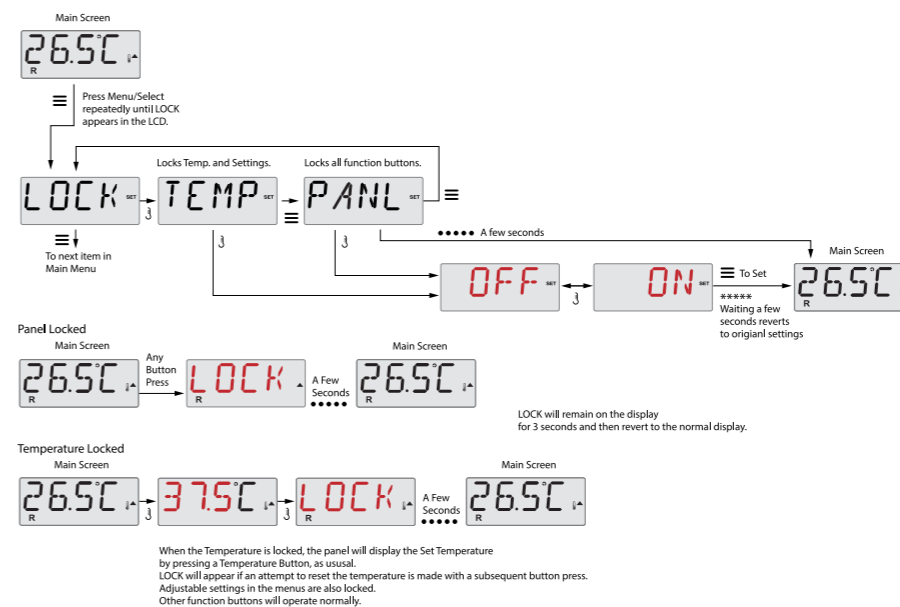


Restricting Operation

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

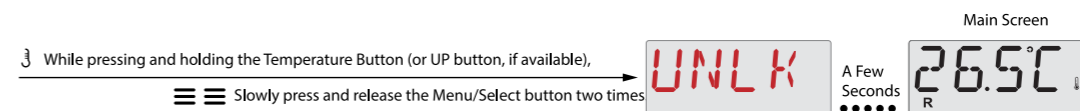
Locking the Temperature allows Jets and other features to be used, but the Set Temperature and other programmed settings cannot be adjusted.

Temperature Lock allows access to a reduced selection of menu items. These include Set Temperature, FLIP, LOCK, UTIL, INFO and FALT LOG.



Unlocking

This Unlock sequence may be used from any screen that may be displayed on a restricted panel. If the panel has both an UP and a Down button, the ONLY button that will work in the Unlock Sequence is the UP button. The temperature will not Unlock if the Unlock sequence is done while the panel is displaying "LOCK".

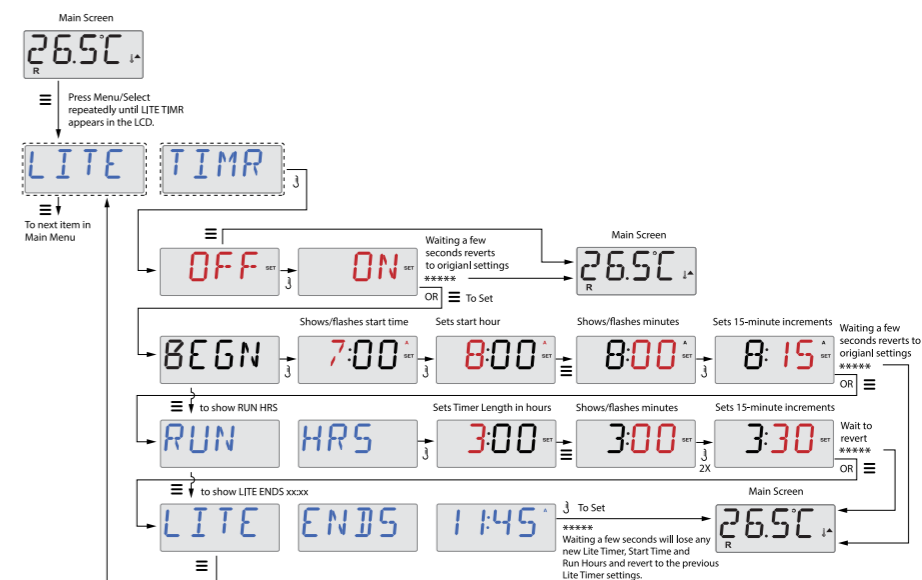


Light Timer Programming

Light Timer Option

If LITE TIMR does not appear in the Main Menu, the Light Timer feature is not enabled by the manufacturer.

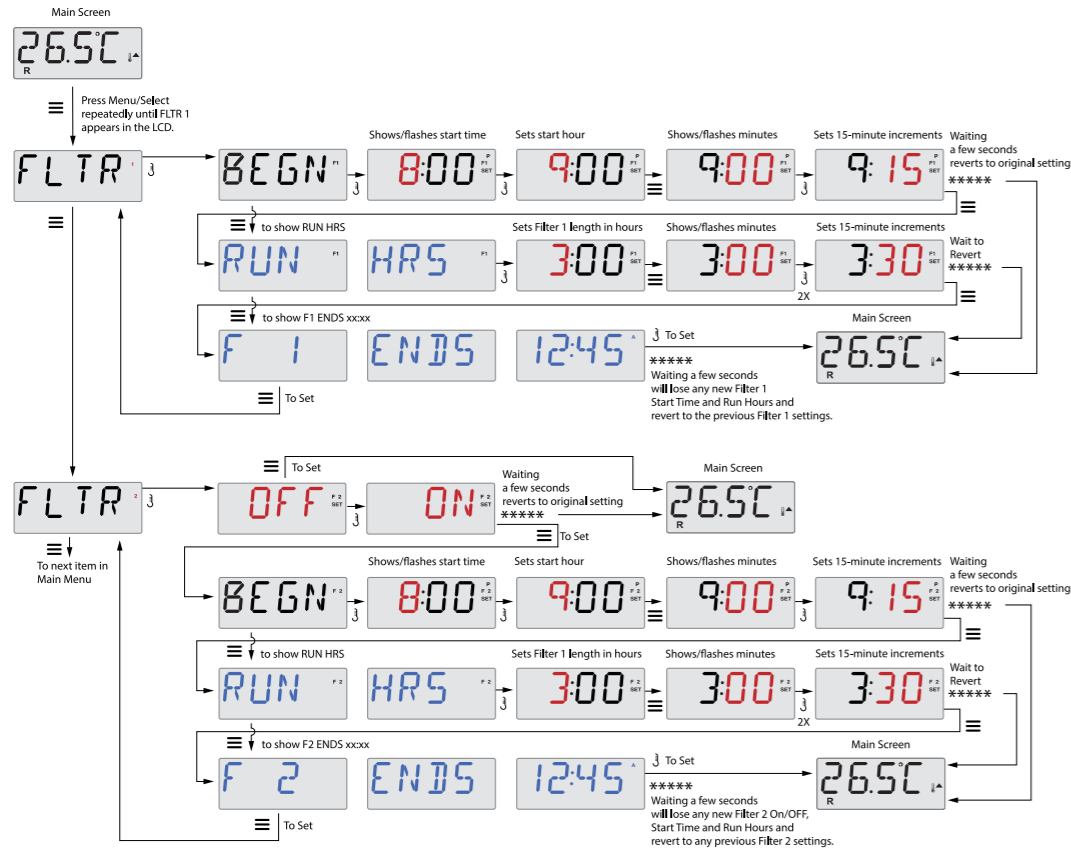
When available, the Light Timer is OFF by default.



Adjusting Filtration

Main Filtration

Filter cycles are set using a start time and a duration. Start time is indicated by an “A” or “P” in the bottom right corner of the display. Duration has no “A” or “P” indication. Each setting can be adjusted in 15-minute increments. The panel calculates the end time and displays it automatically.



Filter Cycle 2

Optional Filtration

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

Purge Cycles

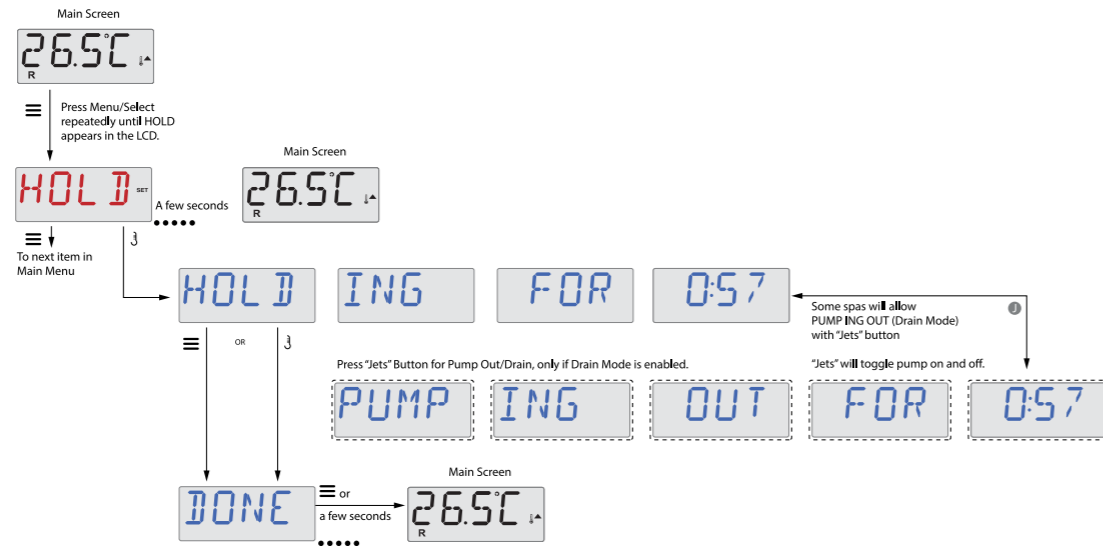
In order to maintain sanitary conditions, the pump will purge water from their respective plumbing by running briefly at the beginning of each filter cycle.

If Filter Cycle 1 is set for 24 hours, enabling Filter Cycle 2 will initiate a purge when Filter Cycle 2 is programmed to begin.

Hold Mode –

M037

Hold Mode is used to disable the pump during service functions like cleaning or replacing the filter. Hold Mode will last for 1 hour unless the mode is exited manually.



Drain Mode

Some spas have a special feature that allows a pump to be employed when draining the water. When available, this feature is a component of Hold Mode. Drain Mode will time out with Hold Mode.

Preferences

F / C (Temp Display)

Change the temperature between Fahrenheit and Celsius.

12 / 24 (Time Display) (Not used in Simple Mode)

Change the clock between 12 hr and 24 hr display.

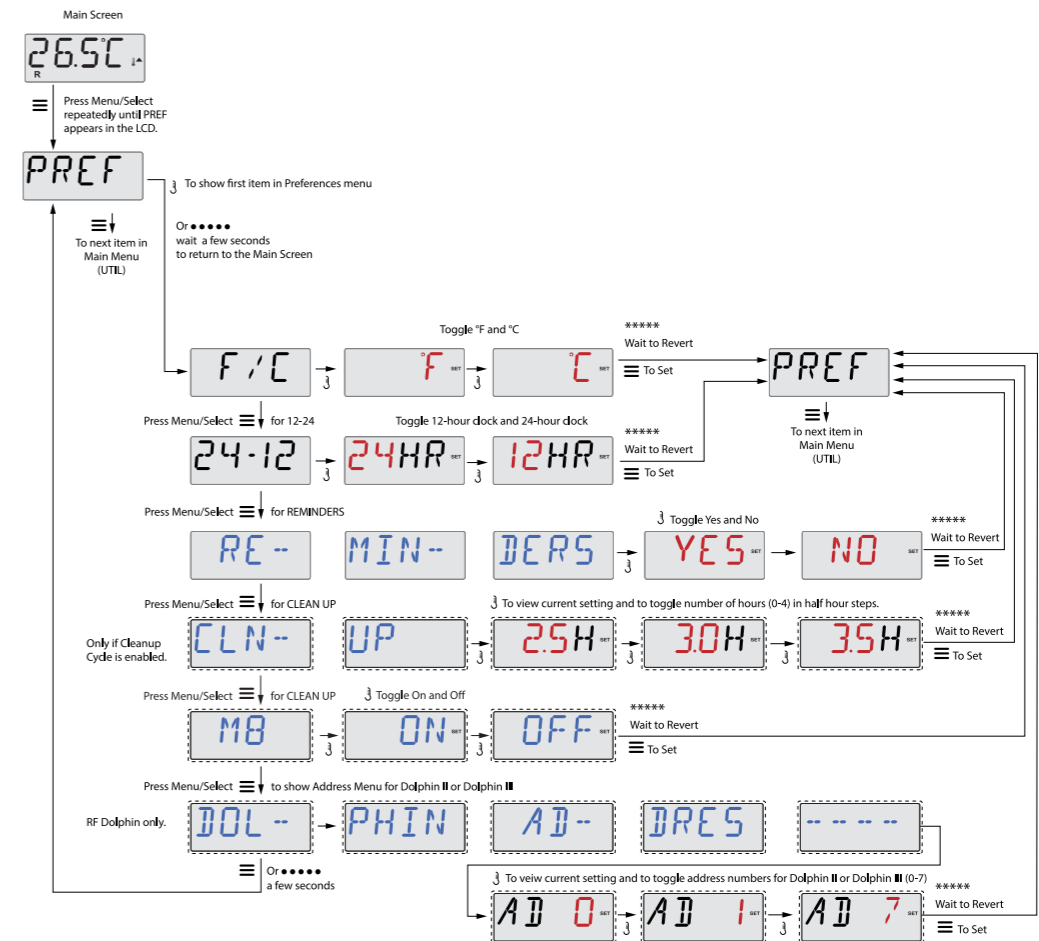
RE-MIN-DERS (Reminders)

Turn the display of reminder messages (like “Clean Filter”) On or Off.

Note: Reminders continue to run in the background even when not displayed. So turning the display of Reminders On or Off does not reset any Reminder counts.

CLN-UP (Clean-up)

Clean-up Cycle Duration is not always enabled, so it may not appear. When it is available, set the length of time Pump 1 will run after each use. 0-4 hours are available.



Additional Utilities

Utilities

In addition to INFO, The Utilities Menu contains the following:

A / B (A/B Sensor Temperatures)

When this is set to On, the temperature display will alternate to display temperature from Sensor A and Sensor B in the heater.

FALT LOG (Fault Log)

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

General Messages



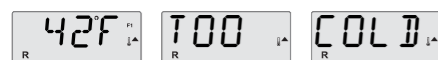
Priming Mode – M019

Each time the spa is powered up, it will enter Priming Mode. The purpose of Priming Mode is to allow the user to run each pump and manually verify that the pump is primed (air is purged) and water is flowing. This typically requires observing the output of each pump separately, and is generally not possible in normal operation. Priming Mode lasts 4 minutes, but you can exit it earlier by pressing any Temp button. The heater is not allowed to run during Priming Mode.



Water Temperature is Unknown

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



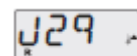
Too Cold - Freeze Protection

A potential freeze condition has been detected, or the Aux Freeze Switch has closed, and the pump is activated, depending on how your system was built. The pump is ON for at least 4 minutes after the potential freeze condition has ended, or when the aux freeze switch opens. In some cases, the pump may turn on and off and the heater may operate during Freeze Protection. This is an operational message, not an error indication.



Water is too Hot (OHS) – M029

One of the water temp sensors has detected spa water temp 110°F (43.3°C) and spa functions are disabled. System will auto reset when the spa water temp is below 108°F (42.2°C). Check for extended pump operation or high ambient temp.



J29 Warning – M044

J29 is typically used as a Heater Disable input. As such, it should not typically be shorted at power-up. This message appears if J29 is shorted at power-up.

Reminder Messages



Appears on a regular schedule, e.g. every 90 days.

Change the water in the spa on regular basis to maintain proper chemical balance and sanitary conditions.



Alternates with temperature or normal display.



Appears on a regular schedule, e.g. every 180 days. Vinyl covers should be cleaned and conditioned for maximum life.



Alternates with temperature or normal display.

Appears on a regular schedule, e.g. every 365 days. Filters should be replaced occasionally to maintain proper spa function and sanitary conditions.

Appears on a regular schedule, e.g. every 365 days. Check your ozone and/or UV generator per your spa manufacture's instructions.



Appears on a regular schedule, e.g. every 365 days. Have a service technician do a check-up on your spa per your spa manufacturer's instructions.

Heater-Related Messages



Heater Flow is Reduced (HFL) – M016

There may not be enough water flow through the heater to carry the heat away from the heating element. Heater start up will begin again after about 1 min. See "Flow Related Checks" below.



Heater Flow is Reduced (LF)* – M017

There is not enough water flow through the heater to carry the heat away from the heating element and the heater has been disabled. See "Flow Related Checks" below. After the problem has been resolved, you must press any button to reset and begin heater start up.



Heater may be Dry (dr)* – M028

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



Heater is Dry* – M027

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



Heater is too Hot (OHH)* – M030

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



A Reset Message may Appear with other Messages.

Some errors may require power to be removed and restored.

Flow-Related Checks

Check for low water level, suction flow restrictions, closed valves, trapped air, too many closed jets and pump prime. On some systems even when spa is shut down, some equipment may occasionally turn on to continue monitoring temperature or if freeze protection is needed.

Sensor-Related Messages



Sensor Balance is Poor – M015

The temperature sensors MAY be out of sync by or 3°F. Call for Service.



Sensor Balance is Poor* – M026

The temperature sensors ARE out of sync. The Sensor Balance is Poor fault has been established for at least 1 hour. Call for Service.



Sensor Failure – Sensor A: M031, Sensor B: M032

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

Miscellaneous Messages



No Communications

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



Pre-Production Software

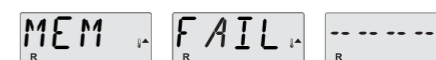
The Control System is operating with test software. Call for Service.



°F or °C is replaced by °T

The Control System is in Test Mode. Call for Service.

* This message can be reset from the topside panel with any button press.



Memory Failure - Checksum Error* – M022

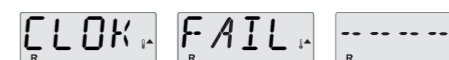
At Power-Up, the system has failed the Program Checksum Test. This indicates a problem with the firmware (operation program) and requires a service call.



Memory Warning - Persistent Memory Reset* – M021

Appears after any system setup change. Contact your dealer or service organization if this message appears on more than one power-up, or if it appears after the system has been running normally for a period of time.

* This message can be reset from the topside panel with any button press.



Memory Failure - Clock Error* – M020

Contact your dealer or service organization.



Configuration Error – Spa will not Start Up

Contact your dealer or service organization.



A Pump Appears to be Stuck ON – M034

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



A Pump Appears to have been Stuck ON when spa was last powered - M035

POWER DOWN THE SPA. DO NOT ENTER THE WATER. Contact your dealer or service organization.



The water level is too low

Some systems have a water level detect, and this message appears if it detects that the water level is too low. * This message can be reset from the topside panel with any button press.

Reminder Messages

General maintenance helps.

The display of Reminder Messages can be suppressed by using the PREF Menu.

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

Press a Temperature button to reset a displayed reminder message.

CHEK Alternates with temperature or normal display.

PH Alternates with temperature or normal display.

CHEM Alternates with temperature or normal display.

Set ups



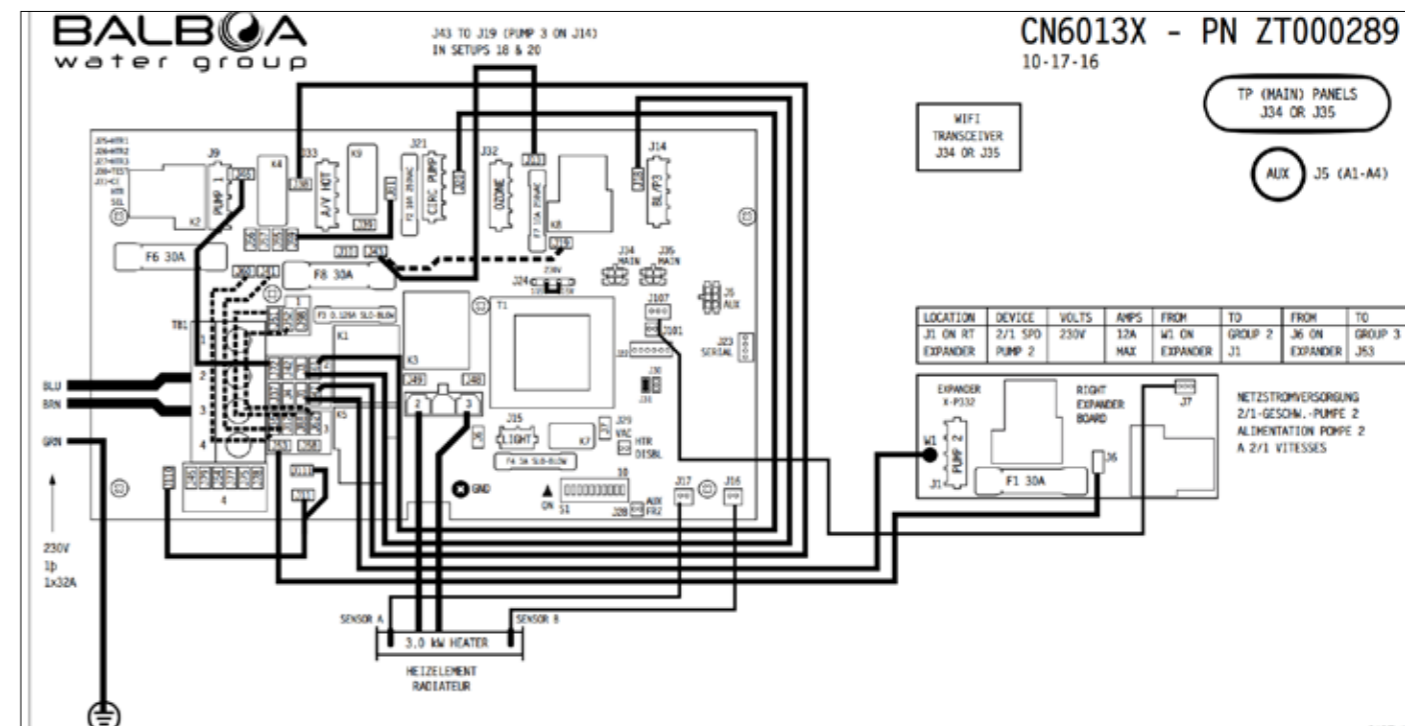
SC30 Buss fuse 30 Amp. KK-10382

Glass fuse 10 Amp. KK-10376

f3 fuse topside 1/8. KK-11107

Your Hot Tub Parts

| | | | | | | | |
|---|--|---|--|---|---|---|---------------------------|
| | | | | | | | |
| 2" Directional Jet KK-11204 Black Ice | 2" Massage Jet KK-11205 Black Ice | 3" Directional Jet KK-11206 Black Ice | 3" Massage Jet KK-11207 Black Ice | 5" Directional Jet KK-11208 Black Ice | 5" Massage Jet KK-11209 Black Ice | LED Fountain KK-10276 | 10" Waterfall KK-10155 |
| | | | | | | | |
| Filter Lid for skimmer KK-10908 | Filter face KK-10974 | Air Control KK-10790 | Waterfall valve KK-10791 | Water Diverter KK-10788 | Aromatherapy Cap KK-10349 | 5" LED Light Lens KK-10299 | Fixed Speaker KK-10043 |
| | | | | | | | |
| Black Ice Pillow KK-10735 | Big Red LX 5 hp 2 speed Pump KK-10319 | 94 x 85" 240 x 216 Brown Cover KC-10210 | Balboa CN613 Control 3 Kw heater KK-10328 | BP600/ 2100 (M7) Heater 3kW KK-10285 | UV + Ozone KK-KK-11328 | UV 15W lamp kit with sleeve KK-11202 | |



| Setup # | Circ Pump | Pump 1 | Pump 2 | Pump 3 | Blower | Temp Scale | Menu Style |
|---------|-----------------------------------|---------|---------|---------|---------|------------|------------|
| 1 | None | 2-Speed | 1-Speed | None | 1-Speed | °C | Standard |
| 2 | None | 2-Speed | None | None | 1-Speed | °C | Standard |
| 3 | None | 2-Speed | 1-Speed | None | None | °C | Standard |
| 4 | None | 2-Speed | None | None | None | °C | Standard |
| 5 | None | 2-Speed | 1-Speed | None | 1-Speed | °C | Simple |
| 6 | None | 2-Speed | None | None | 1-Speed | °C | Simple |
| 7 | None | 2-Speed | 1-Speed | None | None | °C | Simple |
| 8 | None | 2-Speed | None | None | None | °C | Simple |
| 9 | Programmable Filtration + Polling | 1-Speed | 1-Speed | None | 1-Speed | °C | Standard |
| 10 | Programmable Filtration + Polling | 1-Speed | None | None | 1-Speed | °C | Standard |
| 11 | Programmable Filtration + Polling | 1-Speed | 1-Speed | None | None | °C | Standard |
| 12 | Programmable Filtration + Polling | 1-Speed | None | None | None | °C | Standard |
| 13 | Programmable Filtration + Polling | 1-Speed | 1-Speed | None | 1-Speed | °C | Simple |
| 14 | Programmable Filtration + Polling | 1-Speed | None | None | 1-Speed | °C | Simple |
| 15 | Programmable Filtration + Polling | 1-Speed | 1-Speed | None | None | °C | Simple |
| 16 | Programmable Filtration + Polling | 1-Speed | None | None | None | °C | Simple |
| 17 | None | 2-Speed | 2-Speed | None | None | °C | Standard |
| 18 | None | 2-Speed | 1-Speed | 1-Speed | None | °C | Standard |
| 19 | None | 2-Speed | 2-Speed | None | None | °C | Simple |
| 20 | None | 2-Speed | 1-Speed | 1-Speed | None | °C | Simple |

DIP Switch Functions

Fixed-function DIP Switches

A1 Test Mode (normally Off).

A2 In "ON" position, add one high-speed pump (or blower) with Heater.

A3 In "OFF" position, add two high-speed pump with Heater.

A4 In "OFF" position, add 4 high-speed pump with Heater.

A5 In "ON" position, enables Special Amperage Rule B. means heater shuts off when pump is on high speed

A6 Persistent memory reset (Used when the spa is powering up to restore factory settings as determined by software configuration).

A7 In Off position 1 minute cool down for electric heating on for 5 minute cool down for gas heating.

A8 In Off position not assigned

A9 In Off position not assigned

A10 In Off position not assigned

WARNING: Setting DIP switches or jumpers incorrectly may cause abnormal system behaviour and/or damage to system components. Refer to Switchbank illustration on Wiring Configuration page for correct settings for this system.

A2, A3 and A4 work in combination to determine the number of high-speed devices and blowers that can run before the heat is disabled i.e A2 and A3 in the ON position and A4 in the OFF position will allow the heater to operate with up to 3 high-speed pumps (or two HS Pumps and Blower) running at the same time. Heat is disabled when the fourth high-speed pump or blower is turned on.

Note: A2/A3/A4 all off = No heat with any high or blower.

J31 Jumper on 1 pin with 2.0kW or smaller heater
Jumper on 2 pins with 3.0kW or higher heater

LIMITED WARRANTY

Canadian Spa Co. Manufacturing extends the following warranties to the original purchasers of its portable spas:

Structural Warranty: Canadian Spa Co. warrants structure of the spa shell against water loss due to structural failure for the period of 10 years from the date of purchase by the original owner. If in Canadian Spa Co. opinion, structure proves to be defective Canadian Spa Co. will repair or, at its option, replace the defective structure without charge to the customer

Surface Warranty: Canadian Spa Co. warrants the acrylic finish against defects in material and workmanship and specifically against blistering, cracking or delamination for the period of two (2) years from the original purchase date to the original purchaser. If, in Canadian Spa Co. opinion, the surface proves to be defective during this period, Canadian Spa Co. will repair or, at its option, replace the defective spa shell without charge to the customer.

Plumbing Warranty: Canadian Spa Co. warrants the plumbing of the spa will remain free from leaks for the period of two (2) years from the date of purchase to the original purchaser.

Equipment Warranty: Canadian Spa Co. warrants the equipment pack (pump, heater, and control system) against malfunction and defects in the materials and workmanship for two (2) years from the date of purchase to the original purchaser.

Skirting Warranty: Canadian Spa Co. warrants the wood skirting surrounding the spa to be free from defects in materials and workmanship at the time of purchase. Because wood is a natural product and subject to weathering, any fading, crazing, cracking or warping of the wood finish is not covered.

Extent of Warranty: This Limited Warranty applies to portable spas manufactured after March 31st 2022 and sold by authorised Canadian Spa Co. dealers to residential retail customers. This Limited Warranty is given only to the first retail purchaser and terminates upon transfer of ownership. No warranty is provided on UV lights, light bulbs, light lens covers, filters or any dealer installed accessories. Cost of installation, removal and/or shipping of the spa is not covered by this Limited Warranty. In the event Canadian Spa Co. deems necessary the removal of the spa to a place of repair or that the spa must be replaced, any and all costs of the spa removal and replacement; landscaping, decking, fencing and/or structure removal, alteration and/or replacement; or other costs of providing access to the spa will be for the purchaser. This Warranty applies only to spas in single family, residential installations. This Limited Warranty becomes void if the spa is placed in commercial application.

Guarantee of the insulating cover: Canadian Spa Co. guarantees that the cover the purchase is free from defects in materials and workmanship. Where the cover is exposed to strong external influences such as extreme weather conditions, regular maintenance or protection is essential. Canadian Spa Co. warrants the cover for the period of two (2) years. Defects caused by misuse or insufficient care are not covered by the warranty.

TERMS, CONDITIONS AND LIMITATIONS

Any defect or damage caused by installation, alteration or repair by anyone who is not an employee of Canadian Spa Co. or authorised service technician is not covered by the Warranty. This Warranty becomes void if the spa has been subjected to misuse, abuse, alteration or attempted alteration, repairs or attempted repairs by anyone other than an authorised Canadian Spa Co. service technician, improper installation, improper water chemistry, improper maintenance, acts of god, or damage caused beyond the control of Canadian Spa Co. Misuse and abuse shall include any operation of the spas other than as directed in the Canadian Spa Co. Manual. Examples of misuse and abuse include, without limitation:

- Damage of the spa surface caused by leaving the spa uncovered while the spa is empty of water or due to covering the spa with plastic film of any kind.
- Damage to the spa surface caused by contact with cleaners or solvents.
- Damage caused by the operation of the spas at water temperatures outside of the range of 2 – 40 degrees Celsius.
- Damage caused by unapproved sanitizer such as calcium hypochlorite, tri-chlor type chlorine or any sanitising chemical that may remain undissolved on the spa surface.
- Damage caused by failure to provide even sufficient support for the spa.

Warranty Performance:

In the event of a defect covered under the terms of this Limited Warranty, notify your authorised Canadian Spa Co dealer. A Canadian Spa Co. authorised service technician will repair the spa subject to the Terms and Conditions of this Limited Warranty. Use all reasonable means to protect the spa from further damage. Reasonable travel charges may be assessed by Canadian Spa Co. or its authorised service technician if the spa is located outside the nearest authorised service technician's service area. This warranty covers parts ONLY and does not include travel or on-site service charges unless a Service Contract has been purchased from Canadian Spa Co. Ltd.

Disclaimers:

Canadian Spa Co. or any of its authorised service technicians shall not be held liable for injury, inconvenience, loss of use, chemical or water damage, transportation costs, continent liabilities or any other incidental or consequential costs, expenses or damage as result of any deficiency or alleged deficiency of the spa. In no event shall Canadian Spa Co. be liable, for any reason or cause, in excess of the amount paid for the product. No other warranties, expressed or implied, are valid. No agent, dealer, distributor, Service Company or other party is authorised to change, modify or extend the terms of this Limited Warranty in any manner whatsoever.



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Canadian Spa Company meets ISO 9001 Standards. When you purchase a hot tub from Canadian Spa Company the ISO 9001 Certification assures world class excellence in manufacturing and customer service.

