

# Montreal UV Spa Owners Manual TP500

213 x 153 x 79cm (84 x 61 x 32") KH-10033



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





Download on the App Store

# 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.
- 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.
- 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°) 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)
- CAUTION: Risk of Electrical Shock. Do not leave compartment door open. 9. CAUTION: Risk of Electrical Shock. Replace components only with identical
- components.
   WARNING: Prevent Electrocution. Do not connect any auxiliary components (for example cable, additional speakers, headphones, additional audio/video
- example cable, additional speakers, neadphones, additional audio/video components, etc.) to system.
- 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.
- 12. 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.
- 13. This unit should be subject to periodic routine maintenance (for example, once every 3 months) to make sure that the unit is operating properly.
- 14. CAUTION: Do not operate audio video controls while inside the spa
- 15. Installation of the spa for other than a residential dwelling will result in voiding the manufacturer's warranty.
- 16. Do not bring any object into the spa that could damage the spa shell.
- 17. Never insert any object into any opening.
- 18. WARNING: Do not sit on the spa cover or place objects on it.
- 19. Remove any water or debris that may collect on the spa cover.
- 20. WARNING: Do not use the spa immediately after strenuous exercise.
- 21. If you feel pain or dizziness at any time while using the spa, discontinue use and contact a physician.
- 22. **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.
- 23. 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.
- 24. 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.
- 25. **IMPORTANT:** The include warning sign must be posted where all users of the spa can see and read it.
- 26. **WARNING:** To avoid risk of drowning. The Spa cover should be in place and properly latched when spa is not in use.
- 27. IMPORTANT: Read and understand the warnings on the spa cover.
- Proper water chemistry is necessary to maintain the water and prevent possible damage to spa components.





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** 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**

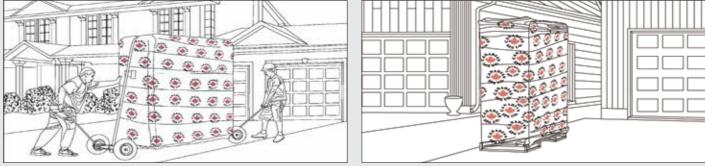
We require a 48-hour cancellation notice in writing or email prior to your scheduled delivery. If we are notified later, then a reasonable cancellation charge will be applied.

# 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





# Delivery Video Guides on Canadian Spa Company channel



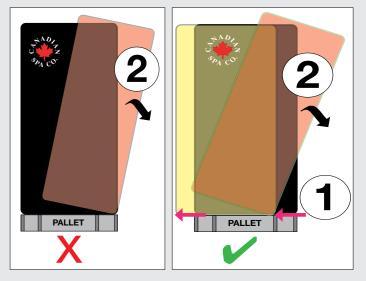
- **Back Garden Placement & Demonstration** Delivery from warehouse to customer, moved into hot tub location then fully installed (including all accessories) and commissioned
- (No Electrics). Followed by a maintenance tutorial. Customer to provide access for position.
- Check your measurement guidelines for each spa. Optional crane service is available on request

Google Play

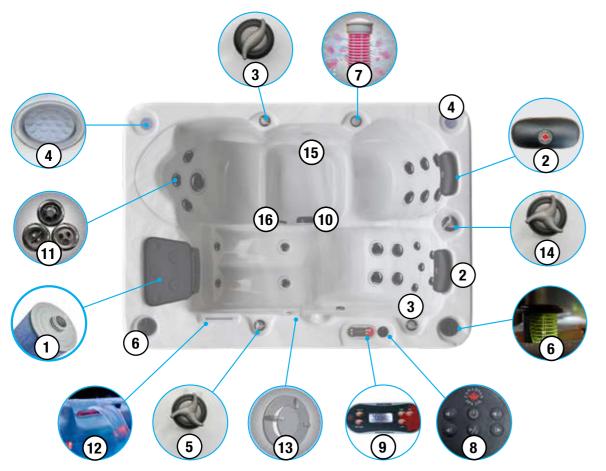
App Store

## Kerbside Drop Off:





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. LED SPA PILLOW: To rest you 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.
- **ILLUMINATED CUP HOLDER:** Placeholder for drinking receptacle. 4.
- 5. WATERFALL ON/OFF VALVE: Located on top rail of spa used to adjust the waterfall flow.
- LED ILLUMINATED SPEAKER: Audio speaker system for 6. 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. AUDIO VOLUME CONTROL: Allows control of functions from within the hot tub connected Bluetooth (6 button control).
- 9. 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.

- 10. SUCTION FITTING: Located at the bottom of the spa, used to return water back into the filter and pump system.
- 11. JET (VARIOUS): Device that ejects air and water, creating water movement in the spa. Adjustable, directional, rotational and interchangeable.
- 12. WATERFALL & PERIMETER LIGHTING: To create a relaxing spa mood.
- 13. VACUUM BRAKE: Ensures the suction inside the spa is cut off immediately if blocked.
- 14. LARGE DIVERTER: Diverts the flow of water from one jet zone to another
- 15. MAIN SPA LIGHT
- 16. 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.



Adjustable and interchangeable jet features a directional nozzle. The jet can be removed by urning it counter-clockwise. To replace the et push inward and clockwise until it clicks

2.25" Directional jet



**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.



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



your spa. Increase or decrease the orce of your jets by opening or closing

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

(4)



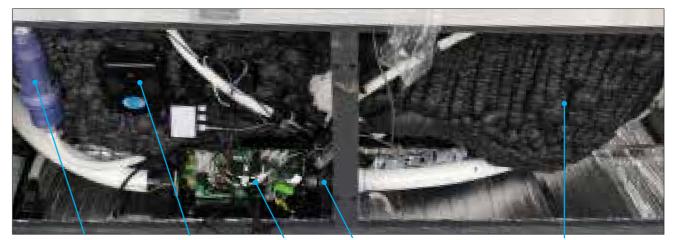
2.25" Twin Roto jet Adjustable and interchangeable jet spins and pulsates. The jet can be removed by turning it counter-clockwise. To replace the iet push inward and clockwise until it clicks

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

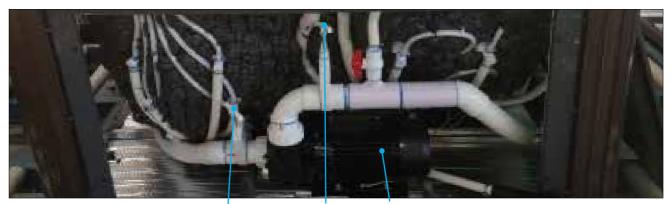
#### 5" Massage jet Rotational and interchangeable jet features an internal spinner to deliver a low pressure sooth ing massage. The jet can be removed by turning

it counter-clockwise. To replace the jet push ward and clockwise until it clicks into place.

# Hot tub equipment side



Ozone Mixing Chamber Ozone Generator Control pack



Slice valve Slice valve

**CONTROL PACK:** Unit that controls spa operations, containing **DRAIN VALVE:** Valve located on the outside of spa cabinet used electronic programming boards, heater and all connections for to drain water from the spa. A garden hose can be attached to Pump(s), Light(s), Ozone Generation Unit and Topside Console. the drain valve. 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.



Manifold

(5)

Heater

Black out insulation

### Pump

**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.





# **UV Light Water Treatment System**

canadianspacompany.com

 Input Voltage: AC 230V 50/60 HZ Operating Current: 100mA Power: 15W

• Purification of water: 15L / Minute • UV Lamp Lifetime 6000-8000 Hr

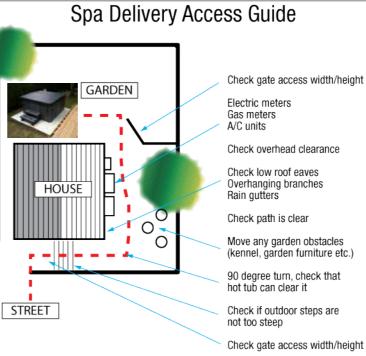
**ON** 

and isolate the UV chamber.

Replace UV Bulb Annually



OFF



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, Your spa must be sited on a solid, flat, level base which is the dependent on the length from the service point. Your spa must same size or larger than the spa. The base can be either a be protected via a RCD and suitable over current protection. 10-15cm concrete slab or suitably strengthened timber decking or existing patio area assuming it has suitable A minimum of 5 metres of cable is required for connection into foundations of hardcore. Whatever base area is chosen, it must your spa from the Isolator. be of suitable load bearing capacity. Please ensure your base has suitable drainage.

**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 gualified, 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.

# 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 2: Remove the red lid



Step 3: Unplug this white connector



Turn both red valves off horizontal position

(see photos above) to SHUT OFF the water



Step 5: Pull out the bulb to change it Step 6: Put the bulb inside the metal Step 7: Plug in the white connector



tube and cover it with black protective sleeve

# Wave Zone UV Lamp Kit KK-11202



NORMA

REMINDER

NOTIFICATIONS

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.



Our new Spa Status lets you know the health of your spa. Our LED's changes colour to alert you 24 x 7.

Now you can easily monitor your spa operations.





Step 8: Cover the red lid and install these 2 screws

(6)

NEEDS ASSISTANCE

# Pre-Delivery Information





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



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



Check that the hot tub can clear a 90° turn



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.

**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.



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



# 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.

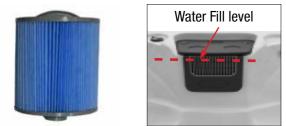
Verify that the spa is in the desired final location. Refer to the 'Choose your location' section - once filled, the spa cannot be moved without draining.

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.

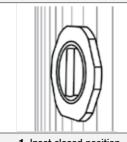
**IMPORTANT:** Follow the next steps closely to prevent damage to the Spa Pump.

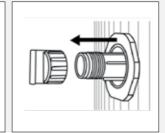
Filter Type: Glacier Microban Filter Set SKU: KA-10082



- 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 honeycomb grill of the skimmer (see photo above). 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-

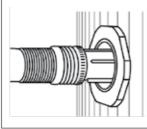


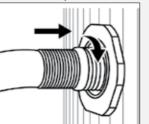


1. Inset closed position. (Push in to release internal O-Ring seal prior to Step #2)

out to fully extended position and remove cap); place cap in safe place.

2. Extended closed position )pull





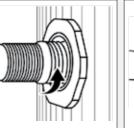
4. Open position for draining

(turn hose and fitting 1/4 turn

clockwise and insert 1/2 way to

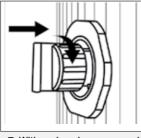
open position for draining).

3. Full extended closed position (attach garden hose in the full extended closed position)

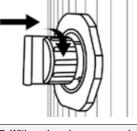


5. Open position for draining (turn hose and fitting 1/4 turn counter clockwise and pull out to full extended closed position).

6. Full closed extended position (remove hose and replace cap).



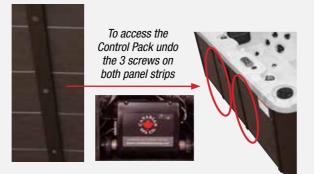
(8)



7. With replaced cap screwed 8. Closed inserted position. on, turn 1/4 turn clockwise and push in all the way to inserted

closed position.

Accessing your spa controls





Plug and Play Installation

## CONNECTING HOT TUB TO SOCKET

Our spa comes with an 13 amp RCD already connect to your spa

This can be easily plugged into a waterproof socket.

The cable can be disconnected and moved to the other side of the spa if needed.

# Installation: Direct wire 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). Single Phase connection (B) is used in circumstances where the power supply is limited and where you need more Amps. 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, unless Plug & Play models.

## 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.

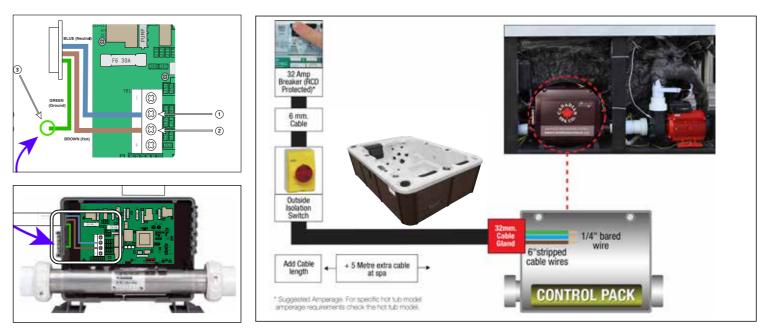
# ADDITIONAL ITEMS NEEDED TO HELP COMPLETE ELECTRICAL CONNECTION:

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

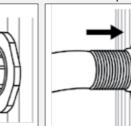
## A.) Single Phase connection (most common):

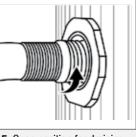
### Single Phase (live 1, neutral 1, live 2, neutral 2, ground)]

230VAC, 50/60Hz, 2b, 16A, (Circuit Breaker rating = 20A max each phase line.).



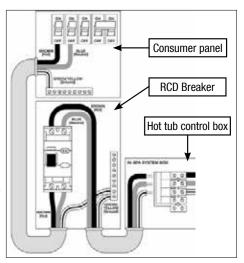






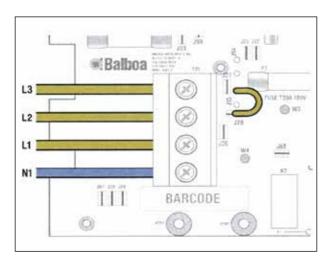






Installation: Electrical power requirements

# How your spa functions



## **B.)** 2 x Single Phase

(live 1, neutral 1, live 2, neutral 2, ground)] 230VAC, 50/60Hz, 2b, 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.

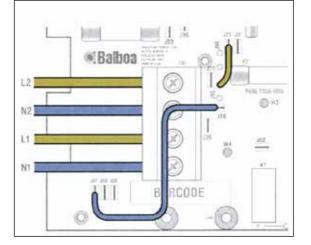
### For 2-Wire connection:

- 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\*, 3b, 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.

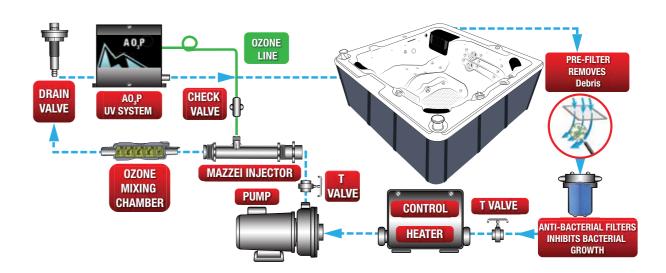
- 2.Completely remove jumper on J52 and J62.
- 3. Make a connection between jumper J60 and J45
- 4. Make a connection between jumper J41 and J79
- 5. Put DIP switches A2 and A3 on ON and DIP switch A5 on OFF.
- 5. The default pre-set temperature is 36.5°C. The last measured temperature is constantly 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)



# ATTACHING YOUR SPA COVER

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 desian

# BOTTOM MOUNT" HOT TUB COVER LIFTER.

# 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.









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

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

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

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.



Pressing the button again will cause the temperature to change in one direction (e.g. UP). After allowing the display to stop fl ashing, 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 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.

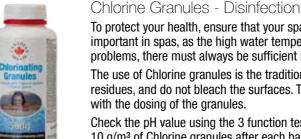
PRESS BUTTONS SLOWLY FOR FIRST RUN WHEN STARTING UP ONCE PR EXITS. SET TEMPERATURE ON SPA





Starter Chemical Kit KA-10122

KA-10089



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pH Down

pH Up

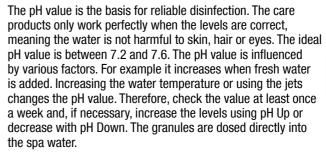
To protect your health, ensure that your spa water is disinfected thoroughly on a regular basis. This is particularly important in spas, as the high water temperatures provide an ideal breeding ground for bacteria. To prevent water care problems, there must always be sufficient levels of disinfectant 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/m<sup>3</sup> 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

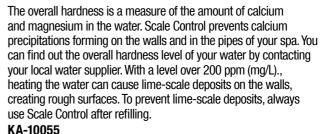
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## pH Up and pH Down



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

### Scale Control

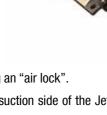




ES

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 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

Alkalinity Booster

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



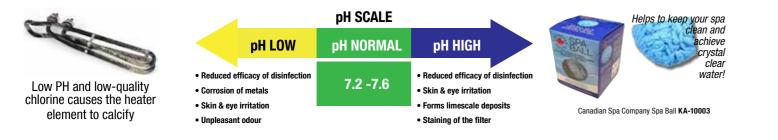
### Spa Clear

- **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

# TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION			
CLOUDY WATER	<ul> <li>A) organic contaminants build-up</li> <li>B) suspended particles</li> <li>C) pH high</li> <li>D) total alkalinity too high</li> <li>E) poor filtration</li> <li>F) high dissolved solids</li> </ul>	<ul> <li>A) shock treatment with Granular Chlorine</li> <li>B) add Granular Chlorine, use SPA-BALL</li> <li>C) add pH DOWN until pH level reads 7.2–7.6</li> <li>D) add pH DOWN, adjust total alkalinity to 80–150 p.p.m.</li> <li>E) dirty filter, replace filter</li> <li>F) empty spa and refill</li> </ul>			
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			



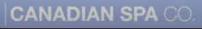
(14)

# YouTube

**Chemical Video Guides on Canadian Spa Company channel** 







CHEMICAL FAO TROUBLESHOOTING AND MAINTENANCE

# 1 Pump Control System (TP500)

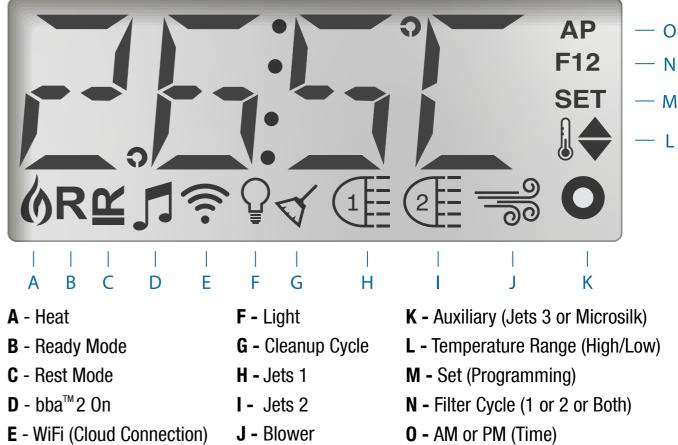
#### **Initial Start-up**

When your spa is first activated the display will do a count sequence of M100, L232, V52, 1-3 afterwards a message will display 'RUN PUMPS PURGE AIR' on Priming Mode - now press the JET Button to make sure the pump is running and water flowing from the jets. If there is no movement of water please visit our Service Portal: support.canadianspacompany.com submit a ticket in our system and our global team will effectively solve your issue guickly and efficiently 24/7.

Priming Mode will run for approximately 5 minutes (Press TEMP-UP to skip Priming Mode) then the spa will begin to run Jets on low speed and after a few minutes the heater will start when in 'R' (Ready Mode).



Display Symbols



(15

# Trouble shooting

# Standard Settings 1 x Pump

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

- 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 2x 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

- 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

- 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

ISSUE	POSSIBLE CAUSE	SOLUTION			
No power	Breaker or RCD off Loose wire connection	Check that RCD breaker is turned ON Check wire connections Check wiring per diagram, especially neutral wire Perform elimination test to determine failed component. See elimination test section			
RCD trips	Mis-wired Component failure				
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			
<ul> <li>Pump not operating or turns off after a short time</li> </ul>	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			
<ul><li>Pump surging</li><li>Light will not turn on</li></ul>	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			
<ul> <li>No air flow from jet</li> </ul>	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 warn 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	Spa is trying to heat	Check set temperature or heat indicator light on topside console is ON			
Abnormal water	Spa is on high filter cycle Excessive evaporation Excessive splashing	Check filter cycle and reduce to 2 or 4 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 starts 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

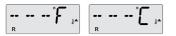
As soon as the above display appears on the panel, push the "Jets" button once to start the Pump in low-speed and then again to switch to high-speed. will now be running in high-speed to facilitate priming. If the pump has not primed after 2 minutes, and water is not flowing from the jets in the spa, 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**

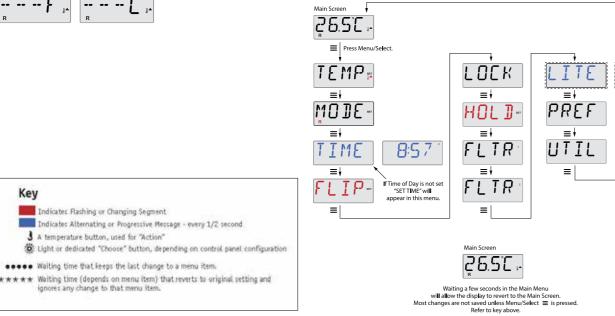
You can manually exit Priming Mode by pressing the "Warm" or "Cool" button. Note that if you do not manually exit the priming mode as described above, the priming mode will be automatically terminated after 4-5 minutes. Be sure that the pump have been primed by this time. Once the system has exited Priming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

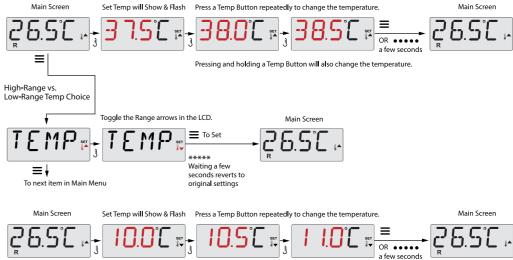
This is because the system requires approximately 1 minute of water flowing through the heater to determine the watertemperature and display it.



Key

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



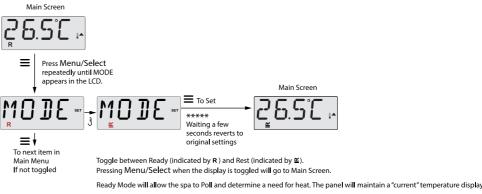


In order for the spa to heat, a pump needs to circulate water through the heater. The pump that performs this function is known as the "primary pump."

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 ) 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.





The Main Screen will display RUN PUMP FOR TEMP if the primary pump has not run for over 1 hour. The Main Screen will display normally during Filter Cycles or when the spa is in use.

If the primary pump has been off for an hour or more, when any function button, EXCEPT Light, is pressed on the panel the pump used in conjuncton with the heater will run so that temperature can be sensed and

### Water Temperature Setting

ight Cycle if enabled

TIMR

(19)

Rest Mode will not Poll and will only heat during filter cycles. The panel will not display a current temperature at all times

Pressing and holding a Temp Button will also change the temperature

Show and Set Time-of-Day

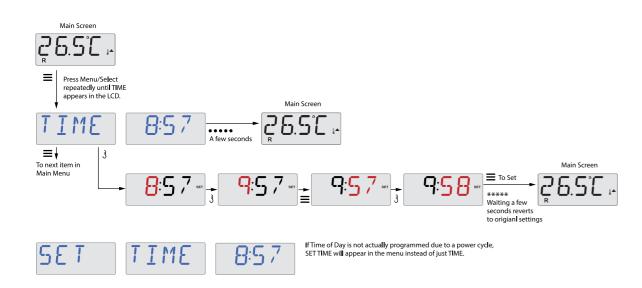
# Restricting Operation

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.



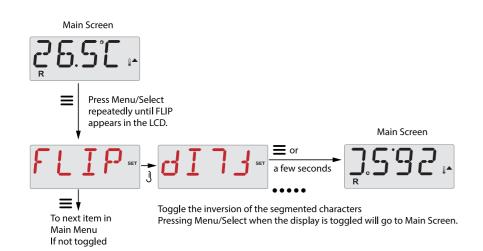
## Note:

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.

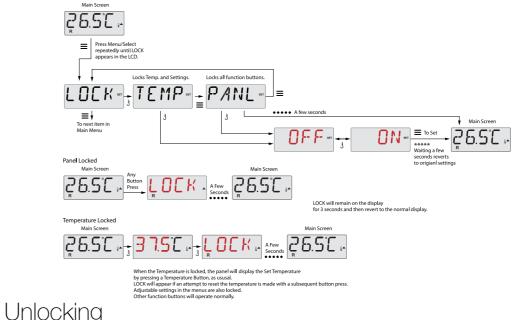
# Flip (Invert Display)



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



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".

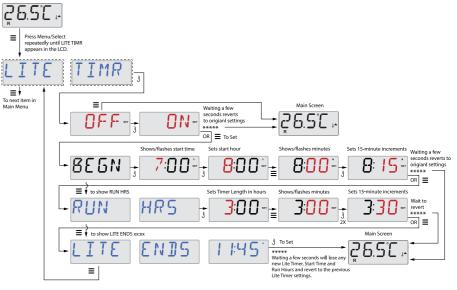


Programming

## **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.



Show and Set Time-of-Day

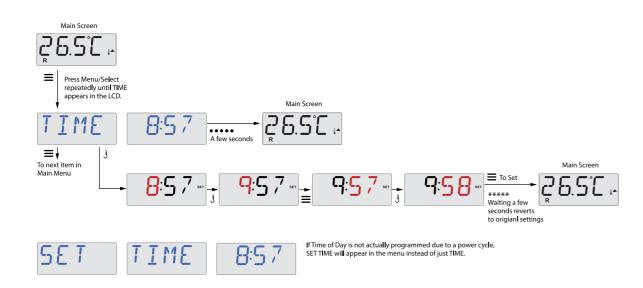
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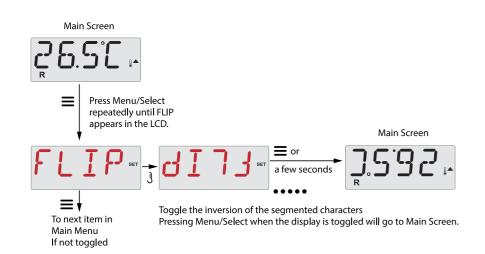
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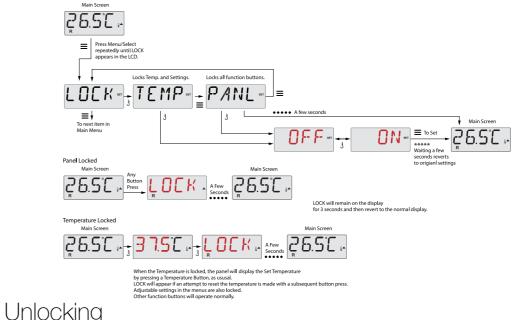




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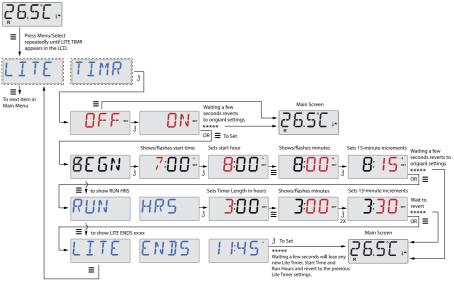


# Programming

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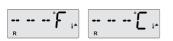


# General Messages



## 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 – MO44

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



CHNG . WATR . Alternates with temperature or normal display.

## 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.



CLN FLTR

Appears on a regular schedule, e.g. every 180 days. Vinvl 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 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.



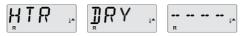
### Heater Flow is Reduced (LF)\* – M017

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)\* – MO28

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)\* - MO30

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 iets 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



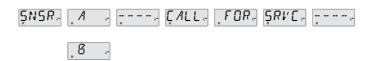
#### Sensor Balance is Poor – M015

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.



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\* - MO20 - Not Applicable on the BP1500

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 - MO35

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

# WATR LEVL

## 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.

normal display.

Warning:

Appears on a regular schedule, e.g. every 7 days.

and adjust with the appropriate chemicals.

Check sanitizer level and other water chemistry with a test kit

**ELN** FLTR Alternates with temperature or

Appears on a regular schedule, e.g. every 30 days.

Appears on a regular schedule, e.g. every 30 days.

If freezing conditions exist, a RCD should be reset

SC30 Buss fuse 30 Amp.

Glass fuse 10 Amp.

f3 fuse topside 1/8.

KK-10382

KK-10376

KK-11107

Residual Current Device (RCD) is an important safety device and must be tested on a regular basis to verify its reliability.

Every user should be trained to safely test the RCD associat-

ed with the hot tub installation. An RCD will have a TEST and RESET button on it that allows a user to verify proper function.

immediately or spa damage could result. The end user should

always trained to test and reset the RCD on a regular basis.

Clean the filter media as instructed by the manufacturer.

#### 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.

Alternates with temperature or СНЕК " normal display.

## Appears on a regular schedule, e.g. every 7 days.

Check pH with a test kit and adjust pH with the appropriate chemicals.

normal display.

**LHEK** Alternates with temperature or

Set ups

# GFCI TRIP FUSE. 1/8A 250V

# Your Hot Tub Parts





2.25" Small Point 2.25" Directional Jet KK-10039 Jet KK-10040





for skimmer KK-10858





KK-10859

Bread Pillow KK-010145

4 hp 2.6" x 2" 2 speed Pump KK-10319

84 x 60"/213 x 150 Brown Cover Control 3 Kw heater KC-10207

2.25" Massage Jet

KK-10041

Air Conntrol

KK-10184



3.5" Directional Jet

KK-10050

Balboa CN613

KK-10328







Aromatherapy Cap KK-10209

Audio Control

(6 Button)

KK-11320

BP600/2100 (M7)

Heater 2kW

KK-10286

(26)





UV + Ozone KK-KK-11328



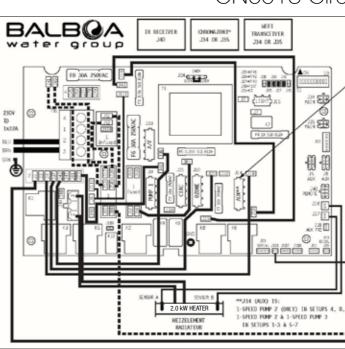
UK 3 Pin Plug

KK-10695 Euro 2 Pin Plua KK-10733

LED Light Fixed Speaker KK-10862



UV 15W lamp kit with sleeve KK-11202



			NBP2100H - PN 56749-04							
water group       30       34 0.35       01-05-21         Image: state s										
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. WARNING: Setting DIP switches or jumpers incorrectly may cause abnormal system behaviour and/or damage to system components. Refer to Switchbank A3 In "OFF" position, add two high-speed pump with Heater. illustration on Wiring Configuration page for correct settings for this system.

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.

# CN6013 Circuit Board

A8 in Off position not assigned A9 in Off position not assigned A10 in Off position not assigned



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 anv 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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www.canadianspacompany.de

🚯 Bluetooth"







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.



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