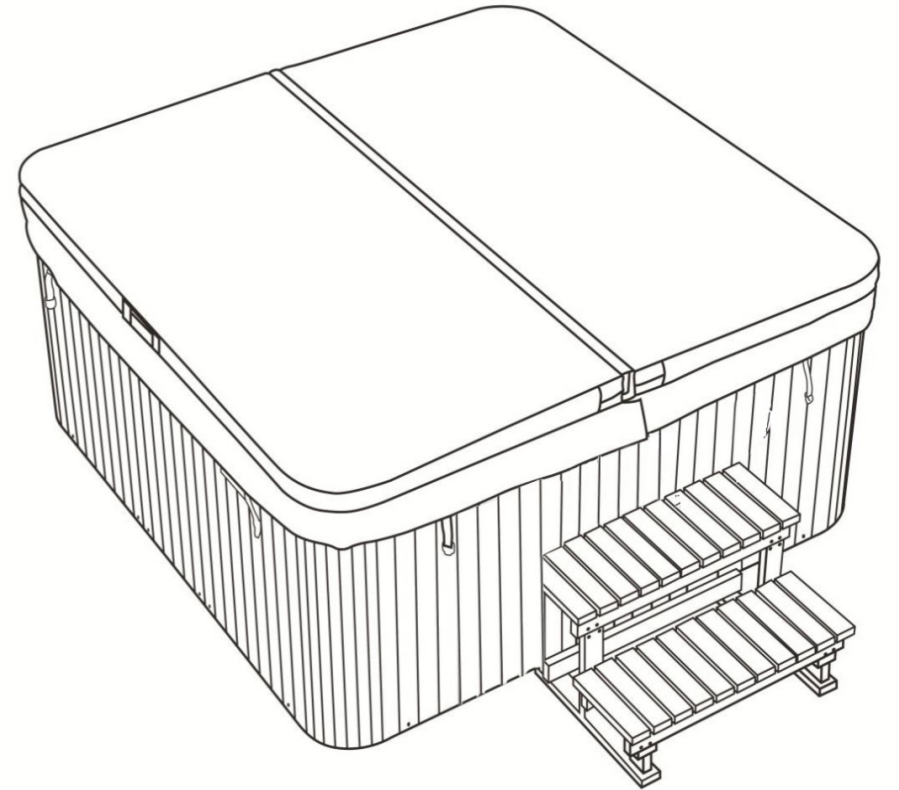


# Luxury Spa

User Manual





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PLEASE NOTE: Our manuals are constantly changing. An updated version of this manual can be downloaded from the guides section on our website

\*The cover doesn't come with screws as we want to protect the leather cover from getting cut/ripped by the screws. The cover also comes with a safety child lock feature.

- Any damage caused by the improper use of chemicals or improperly maintained water chemistry. Improper water chemistry could result in damage to support equipment or pose a possible health hazard.

- Damage caused by accident, abuse, misuse, improper installation (unless installed by us), exposure to fire or hazards of nature (e.g. earthquake or flood)

### Assignment

This warranty is personal to and for the sole benefit of the original purchaser of the hot tub at the original site of installation, and is not assignable without Seller's express permission.

### Disclaimer

Hot tubs must be completely covered with an insulating cover at all times when not in use. Failure to do so could cause damage to the surface and void the warranty. The hot tub must be placed on a solid, flat surface that is designed to carry a minimum of 150 lbs per square foot load. Failure to do so could result in surface sagging or collapsing with stress damage to the spa, voiding the warranty

# 1 Year Cabinet Warranty

## Electrical equipments and other equipments

The wooden/PVC cabinet is covered against defects in materials and workmanship for one year, specifically the cabinet's structural integrity including the wooden/PVC framing material, and all bonded joints in the cabinet. **The cosmetic finish of the cabinet is warranted to be free from defects** in materials and workmanship at the time of initial delivery. Fading and weathering of the surface of the cabinet will occur naturally over time, and are not defects. Mechanical components, jets, air valves, levers and bezels, are covered against defects in materials and workmanship

Electrical components, such as pumps 1 year

## CHAPTER XII

### Limitation & Exclusions

This warranty does not cover the following:-

- Transportation costs (other than the cost of sending a replacement part to you) or other consequential damages.
- The cost of removal or installation of a complete hot tub or replacement hot tub.
- Fading of colour, stains or discoloration after delivery

## CHAPTER I Important Safety Instructions

Your physiological response to hot water is very subjective and depends on your age, health, and medical history. If you don't know your tolerance to hot water, or experience, dizziness, headaches or nausea you should exit the spa immediately and cool down.



1. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
2. Do not allow children to submerge their head under water.
3. Do not use a spa unless all suction guards are installed to prevent body and hair entrapment Do not sit in front of, or on top of the suction fittings or skimmer, as this will obstruct proper circulation and may result in personal injury
4. Never operate the spa pump at high speed without having all suction and return lines open.
5. Always keep the hardcover installed and locked when the spa is not in use.
6. People using medications and/or having any adverse medical history should consult a physician before using a spa.
7. People with infectious diseases should not use a spa.
8. Use caution when entering or exiting a spa. Where practical, install a safety grab bar or handrail. Turn off the jets before entering the spa to improve visibility of the steps or flat entry area.

9. Do not use drugs or alcohol before or during the use of a spa.
10. Pregnant women should consult a physician before using a spa.
11. As prolonged immersion in water temperatures in excess of 38°C (100°F) may be damage your health, we recommend measuring the water temperature with an accurate thermometer before entering the spa. We also recommend establishing lower temperatures and shorter periods of use for young children and/ or those users potentially affected by hot temperatures.
12. Do not use a spa immediately following strenuous exercise.
13. Do not permit or use electric appliances (such as light, telephone, radio or television) within 1.5 m (5 ft) of a spa, unless such appliances are rated at 12VDC or less.
14. Test the GFCI (Ground Fault Circuit Interrupter) monthly.
15. Post emergency phone numbers for Police, Fire Dept., and Ambulance at the nearest phone.
16. If liquid leak from appliance, then the appliance can't be used any more
17. If power supply cable is damaged. In order to avoid danger, it must exchange by professional person ,who is manufacturer's maintenance department or similar department.
18. Parts containing live parts, except parts supplied with safety extra-low voltage not exceeding 12 V, must be inaccessible to a person in the bath;
19. Earthed appliances must be permanently connected to fixed wiring;
20. Parts incorporating electrical components, except remote control devices, must be located or fixed so that they cannot fall into the bath;
21. The appliance should be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA.
22. Precautions to avoid damage due to water freezing
23. Precautions to avoid damage when the appliance is left empty for an extended period
24. In order to avoid the possibility of hyperthermia (heat stress)occurring it is recommended that average temperature of spa-pool water should not exceed 40°C

## **CHAPTER XI**

### **Warranty**

Hot Tubs are designed to last a lifetime. Our tubs are individually built and are not simply rolled off a conveyor belt. We take great pride in the quality of our hot tubs. They go through a number of quality checks before they are packed and shipped.

In the unlikely event that your hot tub has a defect, please consult your directly contact seller, It may be that you can take simple steps to restore your hot tub to working order, and if so we will give you instructions by telephone on how to do this. If this is not possible and there is defect in a part because of defects in materials or workmanship then for as long as the part is covered by this warranty we will send a replacement part to you. If the part is in stock we will send the replacement part using a next day courier service. If we don't have the required part in stock we will order it and forward it to you quickest of receiving it from the manufacturer.

Most replacement parts can be fitted by you, and we can provide advice on how to do this. If we send you a replacement part for you to fit, we reserve the right to ask you to return the original defective part to us for examination. If the part is not defective because of defects in materials or workmanship or is not covered by this warranty, we reserve the right to charge you for the cost of the replacement part and of sending it to you.

We offer the following warranties on our hot tubs.

## Symptoms:RPC Repeatedly tripping

↙	↘
<u>Possible Cause(s)</u>	<u>Possible Resolutions</u>
Power Supply	Check power supply is adequate (suitable for 43 A)
Short Grounding	Consult Electrician

## Symptoms : Jet Surge

↙	↘
<u>Possible Cause(s)</u>	<u>Possible Resolutions</u>
Water level too low	Top up water
Pump suction are blocked	Clear the suction

## Symptoms : No Heat

↙	↘
<u>Possible Cause(s)</u>	<u>Possible Resolutions</u>
Heater not switch on	Turning on heating (as directed earlier in the manual)
	Top up water



## HYPOTHERMIA

Since your spa can be set to reach temperatures of 40°C (104°F), users should be aware that extended submersion in water that exceeds normal body temperature can lead to hypothermia. Hypothermia occurs when the internal temperature of the body reaches several degrees above the normal body temperature of 37°C (98.6°F). The symptoms of hypothermia include drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hypothermia include:

- Unawareness of impending hazard
- Failure to perceive heat
- Failure to recognize the need to exit the spa
- Physical inability to exit the spa
- Fetal damage in pregnant woman
- Unconsciousness resulting in the danger of drowning

If you sense any of the symptoms of hypothermia, safely exit the spa immediately. Please note that the use of Alcohol, Drugs or Medication can significantly increase the risk of Hypothermia.

# CHAPTER II

## Locating Your Spa

In this part, we describe outdoor spa installations. The following information will assist you in choosing the right location for your spa. When making your decision, always remember that spas can be enjoyed year-round, indoors or out, regardless of the climate. Many spa owners report that their favorite seasons are the cooler autumn and winter months, whilst others praise the enjoyment of using their spa in the warmer spring and summer months.

## Outdoor Locations

For a variety of reasons, outdoor locations are a far more popular choice. Some of the reasons include:

- Limited indoor space
- Delivery complications due to door openings, stairwells, etc.
- Limited budget (indoor installations usually also involve interior home renovations)
- Desire for an outdoor entertainment centre
- The spa is being installed adjacent to an existing or planned swimming pool
- Concerns over splashing water inside the home

For those who choose an outdoor location, spa operating temperatures can be adjusted to match the season. In colder months, many owners will operate their spa in the range of 38-40°C (101 -104°F). During warmer months, an operating temperature of 36-37°C (97-99°F) will provide a refreshing retreat. If you should choose an outdoor location, you will find further information as outlined in the section below.


## Air blower pump&whirlpool working time limit

Air blower pump working 20minutes, the rest 3 minutes. whirlpool pump working 1 hour, then rest or you could restart it immediately

## Chapter X


### General Troubleshooting

#### Symptoms : No Power



<u>Possible Cause(s)</u>	<u>Possible Resolutions</u>
MCB Switch off	Check MCB
Inadequate wiring of power to hot tub	Consult Electrician
Fuse blown in control box	Replace Fuse
RCD Tripe	Reset
RCD Connected Improperly	Consult Electrician



#### Symptoms : No Circulation



<u>Possible Cause(s)</u>	<u>Possible Resolutions</u>
Impeller clogged	Access and clean
Water level too low	Top up water



## Turning on the Music

- 1.Ensure the spa is in Active 
- 2.Press the  button to send power to the TV. 'CD' will now show on the display.
- 3.To connect to the speakers via the Bluetooth, turn on the Bluetooth on your device and search for "Kingston" once found, connect to it
- 4.Play the music straight from you device and control the volume straight from your device as well
- 5.If you are connecting normally, simply connect the aux plug to your device, and hit play from your device

## Safety/cleaning features

### Frost prevention system

In low temperatures, the spas equipment will be at risk if the water within the spa begins to freeze. When the temperature of the spas water drops below 5°C, the spa will switch on the heater and water circulation pump until the spa reaches the temperature of 8°C.

### Ozonator

The Ozonator inside your spa produces a natural chemical found in water. Ozone reduces the need for chemicals and sanitizers. The ozonator automatically turns itself on whenever the cycle cleaning is in action.



## SPECIAL CONSIDERATIONS

- Contact your local building department to determine if a building permit is necessary and for information on applicable by laws (distance from property lines, buildings, fencing requirements, etc.).
- If you are doing any excavating, contact your local gas, hydro, and cable-company to ensure that there are no underground lines
- Locate the spa, where practical, within close distance of a door to the house. This will maximize potential winter use.
- Ensure that your pump(s), controls, drain-valve and thermal probe are easily accessible and protected.
- If possible, locate the spa where you will enjoy some privacy. If this is not possible, a partial privacy or wind partition, or proper placement of the optional cover lifter should provide adequate privacy. Spa equipment is generally designed for indoor (out of the direct elements) use. When your Spa is equipped with a factory-installed cabinet, and installed as per the guidelines of this manual, the equipment is adequately protected. If the spa is shipped without a cabinet, your custom cabinet or other structure must be designed to supply protection for the spa equipment from rain, snow, splash water, etc., but still designed in a manner to ensure adequate ventilation.

# CHAPTER III

## Delivery&Preparation

### HOT TUB BASE

Your hot tub needs a good solid foundation. The foundation on which your hot tub sits must be able to support the weight of the tub, the water in it and the weight of its users. If the foundation is inadequate, the tub may shift every now and again. This will cause stress to the shell which may eventually lead to small cracks. Damage caused by an inadequate or improper foundation is not usually covered by hot tub warranties. It is the responsibility of the hot tub owner to provide a proper foundation for the hot tub.

A hot tub containing both water and people is extremely heavy. If you are installing the tub onto wooden decking or another elevated structure, it is advisable to consult a structural engineer to ensure that the structure will support the weight of the tub. Ideally, hot tubs should be installed onto a concrete base at least 4" thick.

If you are installing your hot tub indoors, ensure that your choice of flooring is impermeable to water. Ensure that water drains away from the spa, protecting the cabinet and electrical components from water damage.


### WATER SUPPLY


Hot Tubs do not require a permanent water supply however there must be a non-softened water supply and hosepipe within reach in order to fill the tub. A hosepipe is also used for emptying the hot tub via the bottom drain or by using a submersible pump. An accessible drain in which to direct the emptying water is useful.

## Entertainment features

### Turning on the led lights


1.Ensure the spa is in Active Mode.

2.Press the  button once to turn on the LED Lights. The LED lights will now alternate between a number of colours.


3.To hold a particular colour, press the  button a second time.

4.To turn off the LED Lights, press the  button a final third time.

## Turning on Water Pumps /Air pumps

1. Please ensure the spa is in Active Mode.
2. Press the relevant button to turn on the desired pump  
(e.g.  if Water Pump 1)
3. To turn the feature off, simply press the same button again.

## Turning on Waterfalls. Fountains

1. Ensure that the spa is in Active mode.
2. Turn on  button
3. Either turn on the Cycle mode or the heat status.

## SAFETY

Do not place your hot tub within 3 metres of overhead power lines. Make sure your hot tub is positioned so that access to the equipment compartment and side panels will not be blocked. On the Atlantic and sunset spas, the access panel is on the longest side.

## TAKING DELIVERY

Depending on the delivery service you have ordered, we will either drop the spa to curbside, or bring the spa into position (as long as there is clear access).

Check the dimensions of your hot tub and compare them to the width of any gates and paths along the delivery route between the road and the installation site. It may be necessary for you to remove a gate or partially remove a fence in order to provide an unobstructed passageway.

If the delivery route will require a 90° turn, don't forget to check the measurements to ensure the hot tub will fit through. Also, look for any protruding utility meters, low roof eaves, overhanging trees or gutters that might cause an obstruction.

In some circumstances it might be necessary to hire a crane for the installation. This could be to avoid damage to the tub or to your property, or simply because there is no other way to get the tub into position.



# Chapter IV

## Electrics Installation

You don't need a permanent water supply for a hot tub or garden spa but you will need a suitable electrical supply to run the tub. Hot tubs have a specific section in Regulations and fall into the same category as swimming pools. When appointing an electrician to prepare your hot tub electrics check that they are suitably qualified electrician. Do not attempt to install hot tub electrics yourself if you are not a fully qualified electrician. Anyone carrying out fixed electrical installations in



households must ensure that electrical installations are:

- Designed and installed to afford appropriate protection against mechanical and thermal damage, and so that they do not present electric shock and fire hazards to people
- Suitably inspected and tested to verify that they meet the relevant equipment and installation standards.




It is now against the safe regulation to have a new circuit installed in your home without having it inspected and tested to ensure it This can be achieved in 2 ways:




1. Appoint an electrical contractor who is registered with a competent person scheme.
2. Appoint someone who is not registered but contact your local authority's Building Control Department first. The work will have to be inspected and tested by your local authority before it can be signed off. There will be a charge for this service.



Either way you will receive a qualified certificate after the hot tub electrical supply work is completed. These will need to be kept on file and presented if you ever sell your house as part of the new home information packs. SPA can liaise with you can liaise with your electrical contractor regarding the exact specification for your spa but it must meet the following specification:

1. Ensure the spa is in Standby Mode

2. Press 


3. You must now enter the time you want the spa to begin cycle cleaning. To adjust the time, press the  &  buttons. Once you have selected an appropriate time, press 

4. You must now enter the duration for which you want the spa to cycle clean. To adjust the duration, press the  &  buttons. Once you have selected an appropriate duration, press 









5. Finally, once all setting have been completed. Press the  button. The  sign should now display on panel to indicate that cycle cleaning has been switched on.

## Turning on The Heater in Active Mode

1. Ensure the spa is in Active Mode

2. Press  button to turn on the heater.

Please Note: Whilst the spa is in active mode it is not possible to for the spa to hold a set temperature (unless that temperature was set during the preheating). When the heater is on in active mode the heater will simply heat up to the spas maximum temperature as fast as possible. Please turn the heater on and off as desired.

1. You must now enter the time you want the spa to begin preheating. To adjust the time, press the  and  buttons. Once you have selected an appropriate time, press  button.
2. You must now enter the duration for which you want the spa to preheat. To adjust the duration, press the  and  buttons. Once you have selected an appropriate duration, press  button.
3. You must now set the temperature you want the spa to preheat too. Press the  button to adjust the temperature.
4. Finally, once all settings have been completed. Press the  button. An 'ON' sign (see below) should now display next to the time to indicate that preheating is switched on.



## Turning On Cycle Cleaning

In order to keep your spa clean, your spa includes a cycle cleaning feature. This feature will systematically turn on all of the spas jets temporarily to filter any particles out of the water. It is wise to run this feature for a duration each night (when electricity is at its lowest cost). Once the spa has finished cycle cleaning, the spa will return to standby mode.

- The hot tub must be hard wired on its own fused spur back to your household consumer unit. (i.e. the tub should not be sharing a supply with any other appliances)
- The hot tub should be protected by a sufficiently rated MCB (mains circuit breaker) and should cover the maximum amperage pull of the spa PLUS 25% to allow for brake torque (i.e. the extra rush of current when pumps are first started.) So a hot tub that has a maximum current draw of 40 amps should be fitted with a 50 amp MCB.
- The hot tub should also be protected against earth faults by an RCD (Residual Current Device) This is a trip switch which prevents danger of electric shock from damaged or waterlogged cables and connections. A suitably rated 30mA RCD is recommended.

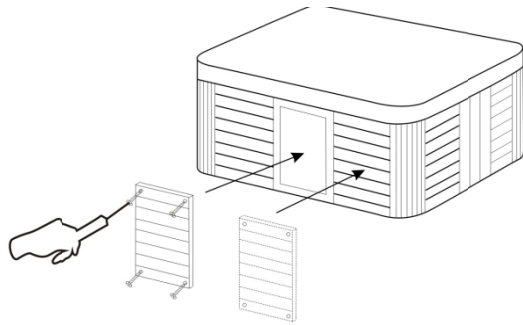
Outdoor cabling should be protected from damage by either laying protective ducting (pvc pipe) below ground or by using Steel Wired Armoured (SWA) cable. Your electrician will calculate the size of cable required depending on the loading and the distance from the mains supply. A 6-10mm<sup>2</sup> 3-core SWA cable should be suitable in most cases but always consult an electrician first. An IP65 45amp Rotary Isolation Switch is also recommended so that the hot tub can be isolated outdoors in an emergency or for service work. This is simply a rotary on/off switch but should be sited more than 2 metres away for the hot tub so that users cannot be in the spa whilst operating the switch. The hot tub supply can then be directly hard wired into the load box inside the spa. Waterproof gland packs should be used to prevent ingress of water on all outdoor electrical connections (2 at the isolation switch and 1 inside the hot tub) Ensure that all earth cables are clearly colour coded with green/yellow insulating tape or earth sleeve.

Once the hot tub is filled with water and the electrical supply is installed, your hot tub installation team should commission the hot tub and check that everything is fully operational before "handing over" to you with a thorough training of how all of the hot tub features work. Parts containing live parts, except parts supplied with safety extra-low voltage not exceeding 12V, must be inaccessible to a person in the bath or spa; parts incorporating electrical components, except remote control devices, must be located or fixed so that they cannot fall into the bath or spa; the appliance should be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA

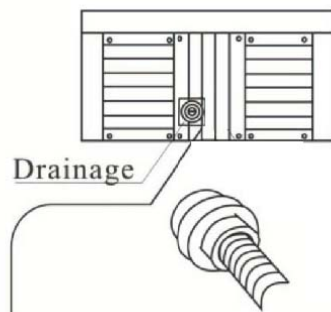
## CHAPTER V

### Installing Your Hot Tub

#### Removing the Access Panels







#### Connecting the Drainage



### Setting the time

When turning on the spa for the first time, the first thing you will need to do is set the time. To set the time, the spa must be in Standby mode. Please ensure the spa is in Standby mode.










1. Press the  or  to enter the time setting mode. The hour and minutes will begin to flash on the display.
2. Continue to press the  and  buttons to adjust the time.
3. Once the desired button has been pressed, simply wait for 5 seconds. The hour and minutes will remain static once this has completed.

### Turning on pre-heating

If you intend to use the spa at a similar time every day, it may be wise to turn on preheating. Preheating allows the spa to begin to heat up, to a particular temperature at a predetermined time. For example, if you intend to use the spa every day when you get back home from work at 6pm, you could set the spa to heat up from 5pm for an hour to make sure the spa is ready for you to jump in when you get home! To turn on pre-heating, ensure the spa is set in standby mode. Once the spa has finished preheating, the spa will return to standby mode.

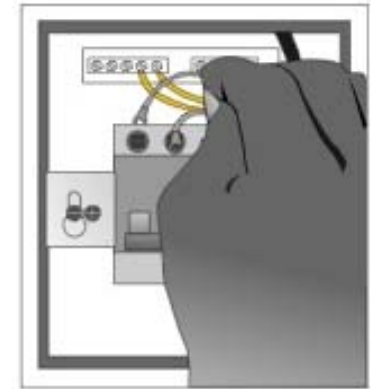
1. Ensure the spa is in Standby Mode
2. Press .

# Electrical Connections

	<b>Turns on Heater circulation pump&amp;fountain,waterfall</b>	<b>Active Mode Only</b>
	<b>Initiates Cycle Cleaning and Heating</b>	<b>Active Mode and standby Mode both</b>
	<b>Radio frequency up</b>	<b>Active Mode Only</b>
	<b>Radio frequency down</b>	<b>Active Mode Only</b>
	<b>Radio station choosing</b>	<b>Active Mode Only</b>
	<b>Radio station storage</b>	<b>Active Mode Only</b>
	<b>Radio volume up</b>	<b>Active Mode Only</b>
	<b>Radio volume down</b>	<b>Active Mode Only</b>
	<b>Temperature adjustment</b>	<b>Active Mode Only</b>

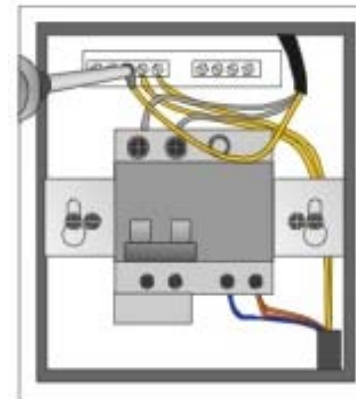


1. Open electrical box



2. Connect hot

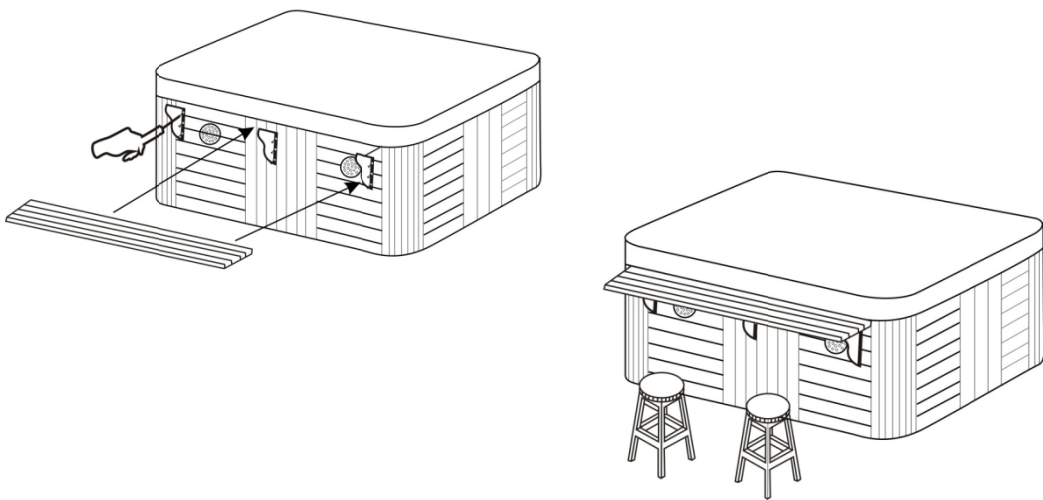
wire(red)to" L"place,neutral wire (Blue)to"N"place,Ground wire (Yellow green)to "G"place or "G"Sign



3. Spas must be correctly earthed by an electrician.

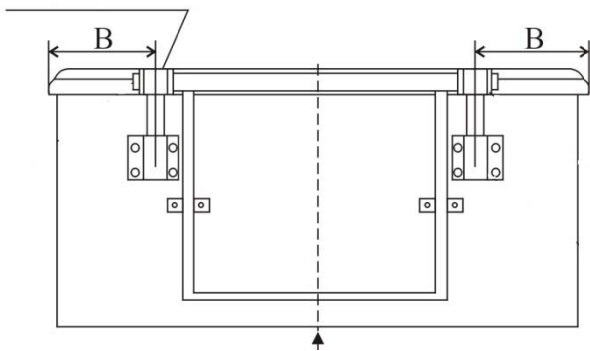
Consult your electrician for electrical guidance. Please remember, your electrical supply must be installed, or certified registered electrician.















## Installing THE minibar(Optional)



## Installing the Cover Lifter (Optional)

1. Must be the same level as the spa surface



BUTTON	FUNCTION	MODE
	Interchanges Between Active Model and Standby Modes	N/A
	Sets Cycle Cleaning	Standby Mode Only.
	Sets Pre Heating	Standby Mode Only.
	Selects Temperature Units	Standby Mode Only.
	Minute adjusting	Standby Mode Only.
	Hour adjusting	Standby Mode Only.
	Set button	Standby Mode Only.
	Lock button	Standby Mode Only.
	Sends Power To Radio or Audio	Active Mode Only
	Turns on LED Lights	Active Mode Only
	Turns on Water Jets 1	Active Mode Only
	Turns on Water Jets 2	Active Mode Only
	Turns on Water Jets 3	Active Mode Only
	Turns on Air Jets	Active Mode Only




# CHAPTER IX

## Operating your Spa

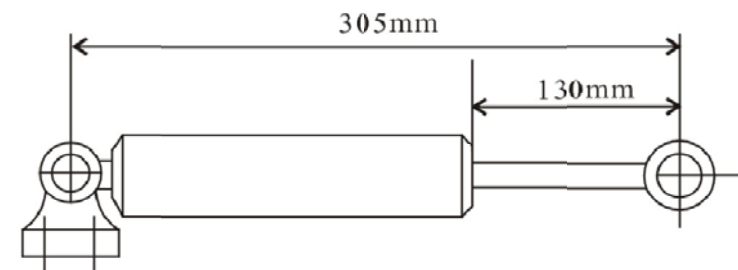
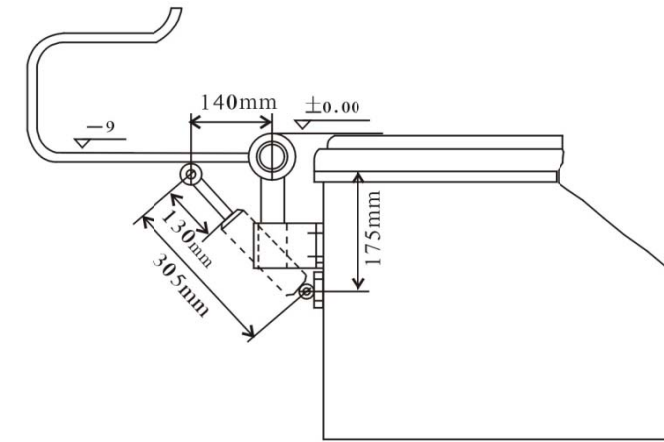
### Using the control panel



### Modes of operation

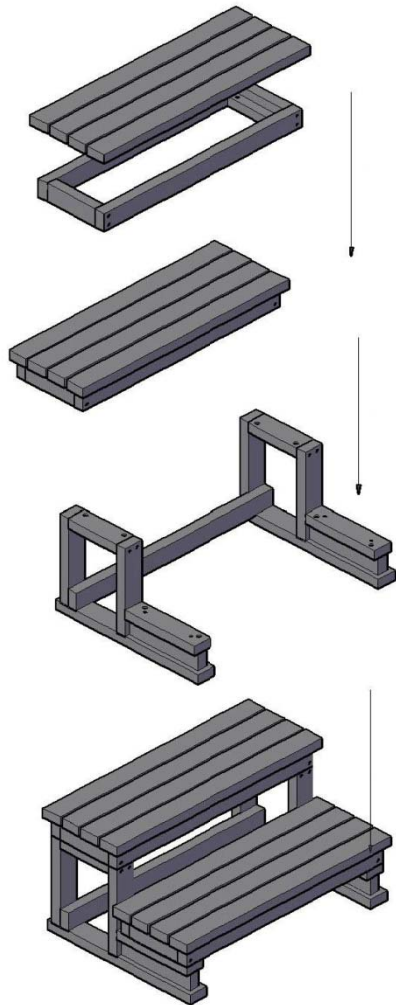
- Your spa has two modes of operation: Standby and Active modes.
- To switch between Standby and Active mode, press .
- The spa will display '---' to indicate that the spa is in Standby mode.

**Please note:** The buttons highlighted in blue will only operate when the spa is in Standby mode, whilst the buttons highlighted in black will only operate when the spa is in Active mode.



1. Install the rotating axis to the Spa. Ensure that the axis is absolutely central ('B' should be an equal length on both sides).
2. Extend the hydraulic lift (as in image 3) and then connect the hydraulic lift to the spa (see image 2).
3. Test the cover lifter 3 or 4 times and ensure that it works correctly.

## Assembling the Steps



## Use and installation of cover

Your spa cover must be used when the spa is not in use. Leaving the cover exposed allows leaves, dust etc to enter your spa. These may then be sucked in the spa's pipe work causing blockages or damaging the equipment. If our engineer finds leaves for example inside your spa, your repair would not be covered under warranty. Caring for Wooden Skirting

## Caring for wooden skirting

Wood skirting has a tendency to fade and lose its like-new appearance with time. You should re-stain your spa's skirting once every six months. Lightly sand the surfaces to remove any dirt and smoothen rough surfaces. Re-stain wood surfaces using a suitable stain. Do not use varnishes, shellacs or surface sealants. Warranty on spa skirting is only valid if spas have been regularly stained.

## Water Disposal

When you don't need water in the spa, you could screw out the drain button on the lower skirt surface, Then water drain completely, screw tight the drain

## Filling Up Your Spa - Air Locks

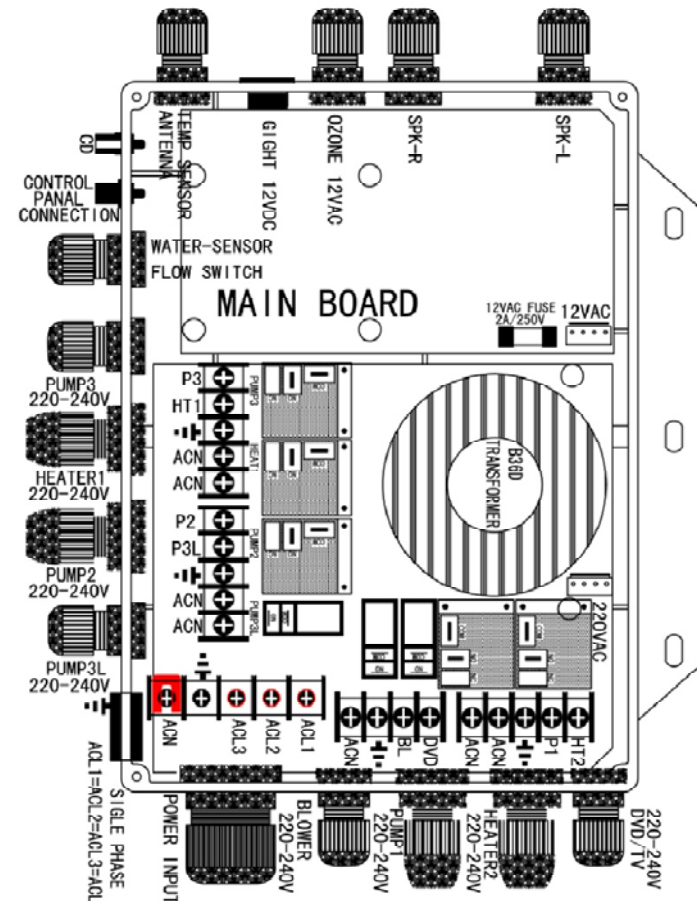
The correct way to fill up your spa is to place your hosepipe inside the filter compartment. Some customer place their hosepipe inside the spas main seating area however, doing this may cause a buildup of air inside the heater (known as an air lock). Over time, air locks will cause the heater to fail. This would not be covered under warranty. To avoid this problem ensure you fill up the spa through the filter window. You can tell if you have an air lock by turning on the circulation pump. If no water appears to circulate through the system it is very possible that you have an air lock. To resolve this problem, loosen the unions at the side of the suction end of the circulation pump until water begins to flow through.

## Filters

Before you use the spas, please remove the plastic wrap from the filters. Poor filter conditions are one of the biggest causes of faults that are not covered under warranty. Poor filter conditions allow particles to roam in the spas water. These tiny particles can cause damage to the spas components. One of the first things our engineer will check when visiting your spa is the condition of your filter. If we find your filter is in poor condition, your repair will not be covered under warranty. There are a number of ways of caring for your filter. Crucially, we recommend that you regularly soak your spa in filter cleaner every few weeks. Additionally, we recommend changing your filter every 6-9 months (depending on usage). Some customers purchase a spare filter at the time of ordering and alternate between the two.

## CHAPTER VI

### Circuit Diagrams



Read the above drawing carefully, fix pumps and heater wiring on the right ozone and connections, A disconnection and incorporated in the fixed wiring needing to be provided



## CHAPTER VII

### Important Usage Warnings

#### Non Warranty Faults

Hot tub are extremely delicate products and require regular maintenance. Below we will list a number of common causes of problems which are not covered under warranty. Should we ever need to visit you to repair your spa, you would be charged the full cost of a repair if we found that the cause was the result poor maintenance or customer negligence. Paying full attention to the issues below will help to reduce the risk of damage to your spa.

## CHAPTER VIII

### Filling up, Checking & Starting your spa

#### Water Treatment

One of the most crucial aspects of spa maintenance is water treatment. Poorly treated spas may result in high levels of pH or Water Hardness. Either of these problems may result in lime scale build up which can damage your spa surface, pumps, jets or heaters. If we find a buildup of lime scale on your spa, this would not be covered under warranty. Different chemical packs have different methods of caring for the water.

#### The power of hydrogen –PH

PH plays an important role in not only how effective sanitizing chemicals function, but ,also on water clarity and even in insuring minerals naturally present in the water(like calcium)do not precipitate one of solution and scale the surfaces of your spas. It's imperative that you purchase chlorine/PH/Total Alkalinity(3 in 1)test strips from you spa dealer and test your spa's water regularly to insure theta your PH, Alkalinity and Chlorine levels are in the proper range, Never enter variety of chemicals to increase or decrease your Phallus and total Alkalinity. If you are unsure how to use these chemicals after reading the products directions, consult your dealer for assistance

Balance the spa water to the recommended levels:

PH	:	7.2-7.8
Total alkalinity	:	80-120 PPM-mg/l
Calcium hardness	:	15-200PPM-MG/l
Phosphate level	:	less than 125PPB