

SPA PUMP INSTALLATION AND OPERATING GUIDE

GENERAL

- It is critical that these instructions are read in full before starting an installation. Failure to do so may result in a sub standard and non warrantable installation
- Electrical circuits must be installed by a registered electrician.
- These instructions contain important installation, operating and warranty information. After installation please leave these instructions for the consumer.
- Access to power connections must be provided and must comply with local authority regulations.

ELECTRICAL CONNECTION

The power requirements for the spa system power pack are 10 amps. Plug into a 3 pin socket protected by an earth leakage circuit breaker (ELCB), or a residential current device (RCD).

For maximum safety, ensure that the ELCB or RCD has a trip current of 30 milliamps / 30 milliseconds with a max current rating of 10 amps.

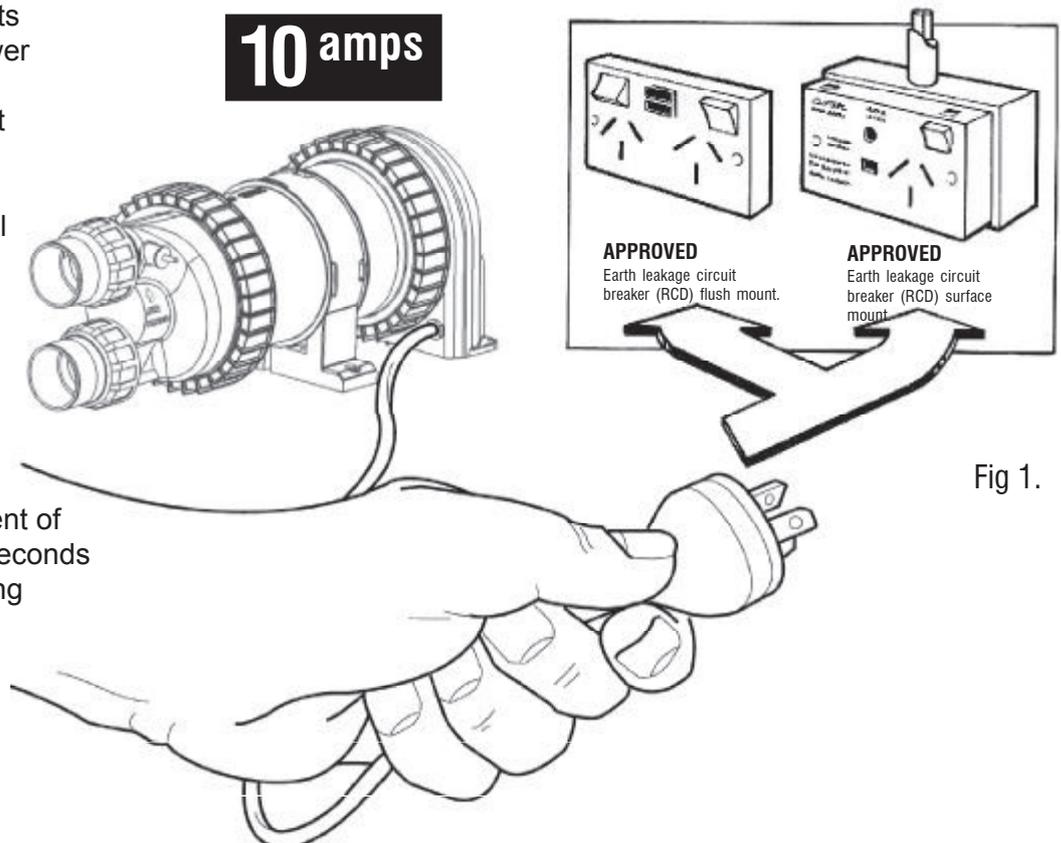


Fig 1.

IMPORTANT

THE ABOVE UNITS MUST BE
CONNECTED BY A
REGISTERED ELECTRICIAN

IMPORTANT

ACCESS TO POWER CONNECTIONS
MUST BE PROVIDED AND MUST
COMPLY WITH LOCAL AUTHORITY
REGULATIONS

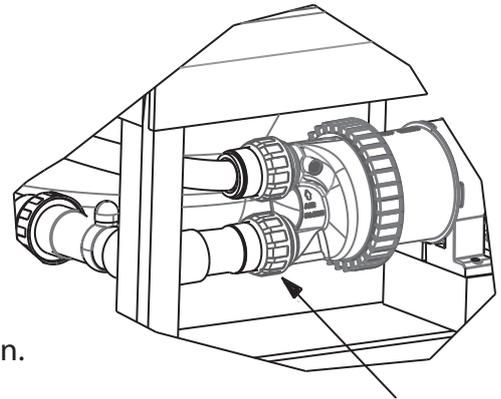
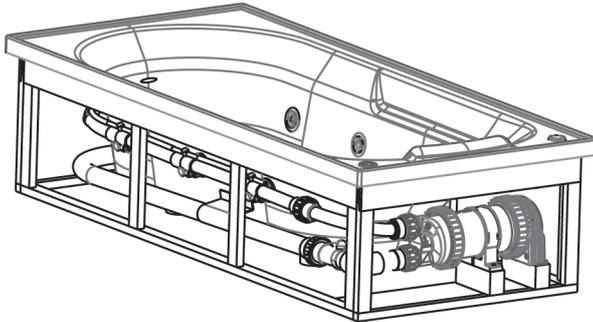
PUMP INSTALLATION

Depending on the type of spa that you have ordered you will be required to complete 1 of the 3 types of installation as outlined below.

Your spa has been factory water tested, however we recommend that prior to installation you fill the spa with water and check for any leaks that may have developed due to movement in transit.

1) FACTORY ATTACHED PUMP INSTALLATION (full warranty)

Your new spa has been supplied with the pump connected to the plumbing ready to be used.



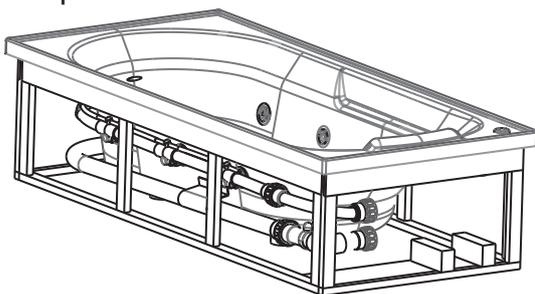
- (a) Connect the pump to an appropriate electrical supply.
- (b) Check the pump mac unions are hand tight.
- (c) Water test the product for leaks.
- (d) Do not remove the pump from its factory attached position.

Check mac unions

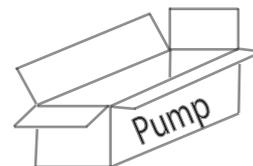
2) FACTORY ATTACHED DECOUPLED PUMP INSTALLATION (limited warranty)

Your new spa has been supplied with a mounting position and all the plumbing connections required to complete the spa installation. You should have received a spa, and boxed pump with your delivery.

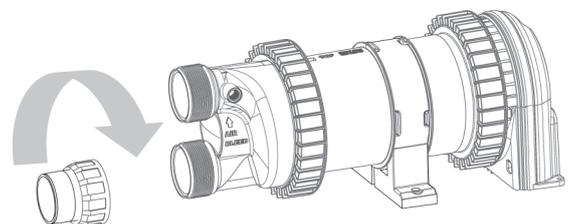
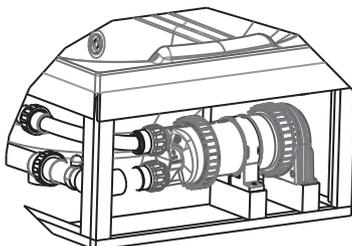
Spa



Boxed pump

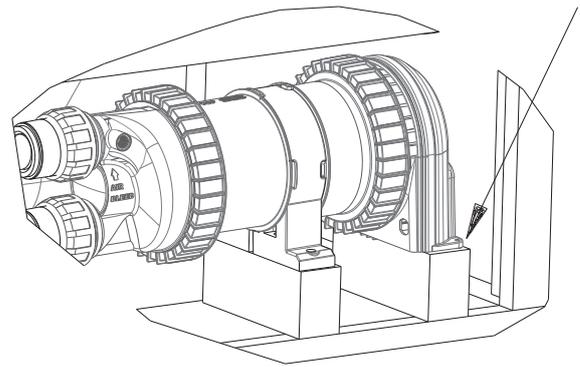


- (a) Connect the pump to the plumbing mac unions ensuring the o-rings are in place. The pump should sit on the factory positioned mount.



- (b) Mount and fasten the pump onto the supplied bracket using a wood screw.

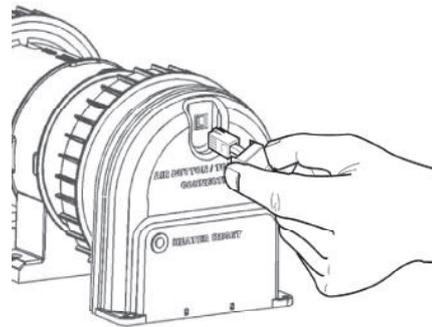
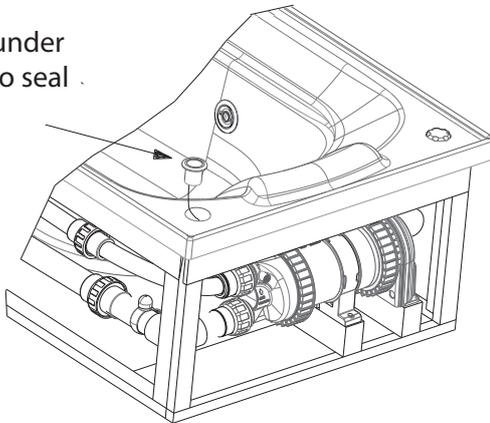
Fasten screw here



- (c) Mount the electronic touch pad or air button in the hole provided on the bath. Seal the joint with silicon and connect the switch to the pump.

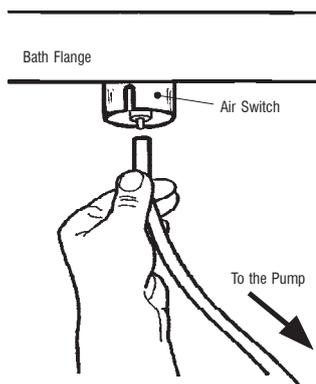
Electronic touchpads should be firmly taped in place while the silicon sets.

Silicon under switch to seal

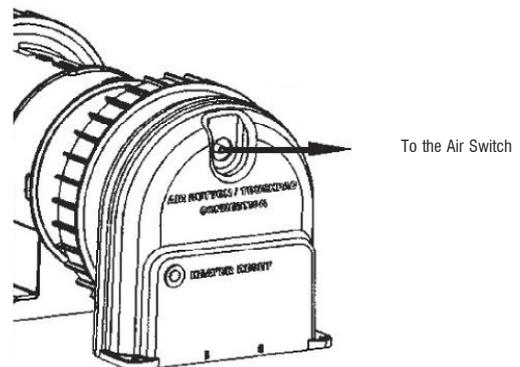


Plug electronic touchpad cord into pump

Air buttons will have a lock nut that can be tightened to hold the switch in place while the silicon sets.



Plug air tube into the nipple on the switch



Plug air tube into the nipple on the pump

- (d) Water test the product, by filling the spa with water and inspecting for leaks.

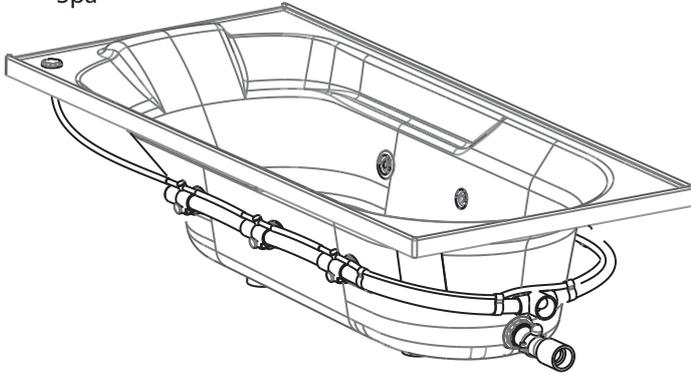
3) DETACHED PUMP INSTALLATION (limited warranty)

Your spa has been supplied ready for the pump to be installed in a remote location at your discretion. Follow the guidelines below to ensure optimum spa performance.

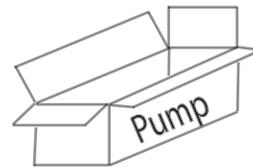
It is the installers responsibility to ensure the pump installation is in accordance with the manufacturers instructions.

You will have recieved a plumbed spa and a boxed pump.

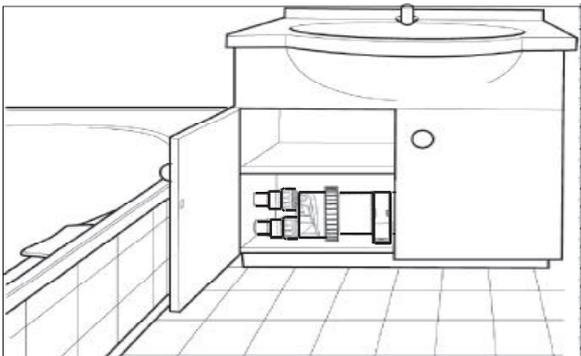
Spa



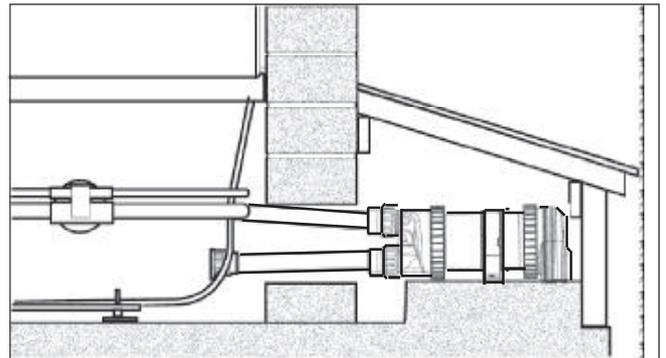
Boxed pump



The detached pump option allows a variety of pump position installation options. Two typical detached installations are shown below.



1) Interior installation - Inside a vanity cupboard

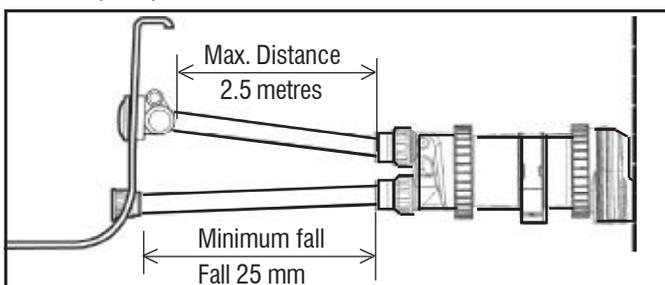


2) Exterior installation in a pump house

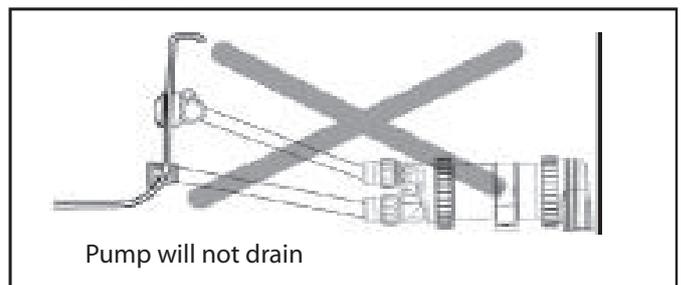
NOTE: KEEP PUMP MOTOR DRY-WATER DAMAGE VOIDS WARRANTY

A plumber is required to complete the plumbing of the detached installation. When plumbing the pump, fall from the pump suction inlet must be provided in order to allow the pump to drain when the spa is emptied. This ensures the system remains clean and hygienic.

Correct pump installation



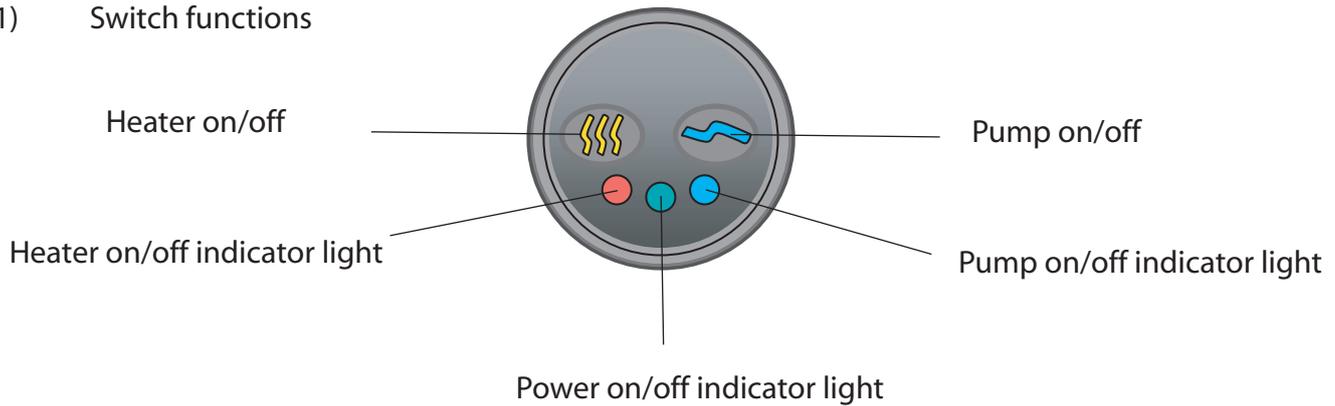
Incorrect pump installation



Under no circumstances is the pump suction to be installed below the level of the bath suction inlet

ELECTRONIC SWITCH FUNCTION AND OPERATION

1) Switch functions



2) Switch operation

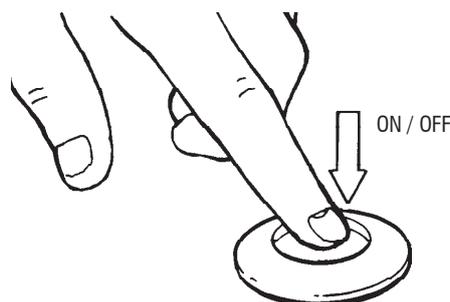
IMPORTANT

DO NOT OPERATE SPA BATH WITHOUT WATER

- (a) fill bath with water and turn on power to spa - power indicator will turn on
- (b) 1st push of pump on/off button  - pump turns on and heater turns on
- (c) 1st push of heater on/off button  - heater turns off
- (d) 2nd push of pump on/off button  - pump turns off and heater turns off
- (d) drain bath of water - power indicator will remain on
- (e) turn off power to spa - power indicator will turn off

AIR SWITCH OPERATION

- 1) Push the switch once to start the pump and once to stop the pump. The heater will automatically start when the pump is activated and is thermostatically controlled to maintain the water temperature while the spa is operating.



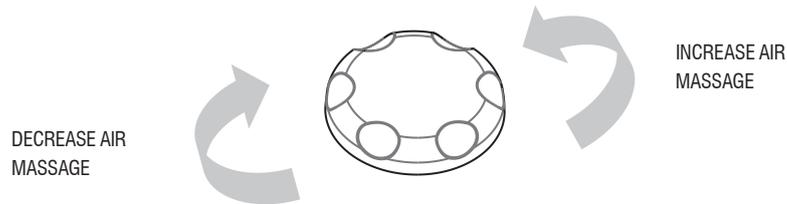
SPA CONTROLS FUNCTION AND OPERATION

Note that not all spas are fitted with all types of controls

AIR MESSAGE CONTROLS

Turn the air massage knob to adjust the intensity of the air bubbles that are injected into the spa.

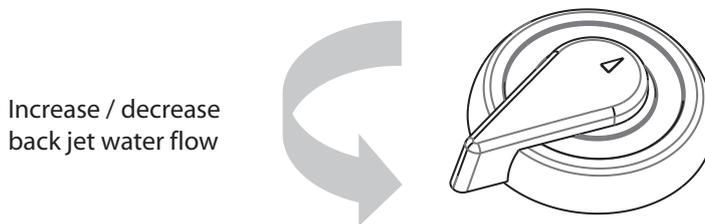
Some spas are fitted with multiple air massage knobs to allow different regions of the spa to be controlled independently.



BACK JET DIVERTER CONTROLS

Turn the back jet water diverter lever to reduce the intensity of water flow to the back jet region.

Some back jets will also have independant water flow controll allowing the water flow across the back and lumbar region to be personalised.



TECHNICAL SPECIFICATION

All electronic touchpad and airswitch spas are fitted with either C200 or C270 celsior pumps.

Pump model (A, AB, TB)	C200	C270
Voltage (V)	220-250	220-250
Supply frequency (HZ)	50	50
Motor start current (A)	6.8	12.2
Motor run current (A)	3	3.9
Motor input power (W)	690	930
Flow rate (l/min)	200	270
Phase	single	single
Enclosure class (IP)	56	56
Insulation class	F	F
Heat Booster Pumps (AB,TB)	C200AB, C200TB	C270AB, C270TB
Heater current (A)	4.2	4.2
Total unit current (A)	7.2	8.1
Heater input power (W)	1000	1000

TROUBLE SHOOTING GUIDE

PROBLEM	CHECK IF	FIX
Spa will not turn on (No power light on touch pad and pump will not pump water)	Power is connected Fuse at switch board has not blown RCD has not tripped Power is available at the electrical outlet. (run an electrical appliance) Electronic touchpad spas only - electronic cable from touch pad is plugged into pump Air switch spas only - air tube is connected between air switch and pump Air switch spas only - there is a build up of water in the air tube Electronic touchpad is defective	Connect the power Replace the fuse Reset the rcd Restore power to outlet Re connect the electronic touchpad cable Re connect the air switch tube Disconnect and drain the air switch tube Try a replacement electronic touchpad
Spa will not turn on (touchpad power light on , and power is available) The pump turns on but then cuts out	The motor pump is overheating There is a power failure There is a lose power connection if pump is damaged if pump has been correctly installed (detached versions) The water temperature has exceeded 50°C There is a thermostat malfunction There is thermostat malfunction	Ensure good cool air flow around pump Restore power to the pump Fix power connections Contact the help desk Change pump position to be lower so that pump primes correctly Reset the heater by pressing the reset button on the rear cover of the pump Reset the heater by pressing the reset button on the rear cover of the pump Reset the heater by pressing the reset button on the rear cover of the pump
Pump turns on and hums but does not pump water		Call the help desk to discuss possible pump type upgrade
The pump turns on but the heater cuts out		Remove mac unions, check orings are correctly placed and re connect unions.
The pump does not heat the water		
The pump connections are leaking water		

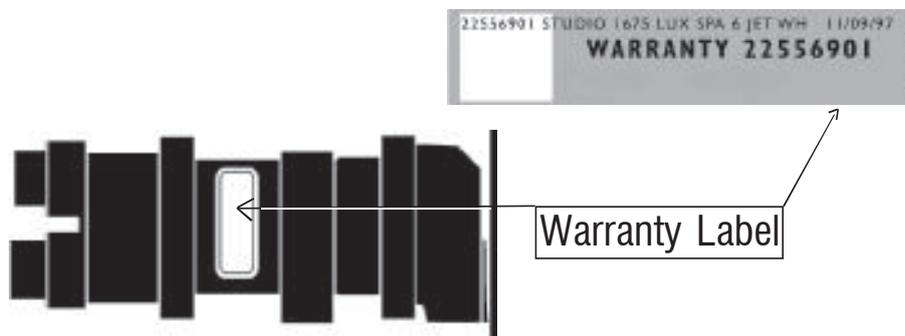
SERVICE

Please check the “trouble shooting guide” on the previous page before a service agent is called.

If the unit is still not operating properly advise your local merchant or distributor from whom you purchased your spa bath.

It is important to give the following information :

- (a) Warranty Number (located on pump)
- (b) Bath type
- (c) Date of purchase
- (d) Details of complaint
- (e) Name of installer



On no account does warranty cover the removal or replacement of any panels or surrounds necessary to enable the pump to be serviced. Warranty will apply only to the servicing of Spa Baths being carried out by their authorised national service agents.