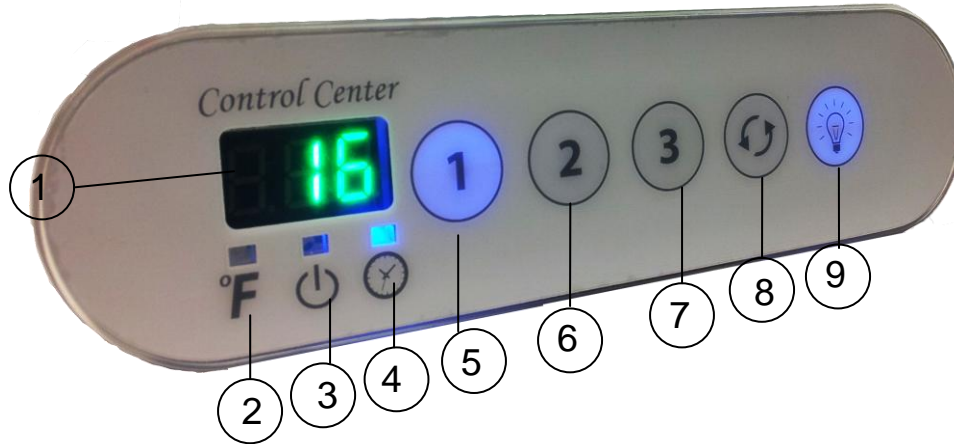




5-Button Control Keypad with Temperature Display for VSC/BSC

(Model: L1004B-KP-V2)



Understanding the Unit

1	Display	SCREEN OFF: Unit is in 'idle' mode
		SCREEN ON: Unit is displaying temperature, mode, time remaining or error information.
2	Temperature in °F	When on, the screen displays temperature value in °F
3	Jet Mode	When on, the screen displays the current active mode 1-3 or pulse
4	Time remaining	When on, the screen displays the time remaining in minutes
5	All Jets ON Mode 1	1 st press: All Jets ON, LED ON
		2 nd press: All Jets OFF, LED OFF
6	Low Zone Mode 2	1 st press: Low Zone and Back Massage Jets ON, LED ON
		2 nd press: All Jets OFF, LED OFF
7	High Zone Mode 3	1 st press: High Zone and Back Massage Jets ON, LED ON
		2 nd press: All Jets OFF, LED OFF
8	Pulse Mode button	1 st press: Pulse Mode ON, LED ON
		2 nd press: All Jets OFF, LED OFF
9	Light button	1 st press: Light ON, LED ON
		2 nd press: Light OFF, LED OFF

Features

1. **Pulsating Mode:** In this mode, each pair of jets will activate for 10 seconds and then transition to the next set. There are 3 pairs of jets.
2. **Mode 1 or "All Jets On"** Each pair of jets will turn on in sequence.
3. The unit has 20 minute in-built timer. So the unit will shut down after 20 minutes of operation.

Note: Make sure that the water level sensor or a jumper is connected to control box. Otherwise, the unit will not turn on. (If Installed)

Error Codes

The display screen has special error codes to determine and debug possible error conditions. They are as follows:

E-1	There is a connection problem between controller box and the keypad. The power button LED also blinks 'fast' to indicate the connection error. Try reconnecting the cable and reset the power on VSC/BSC.
NC	The temperature probe on the back of keypad is not connected. Try re-connecting probe again.
LO	Temperature value is Below 50 °F
HI	Temperature value is Above 140 °F
No H2O	The power button LED also blinks 'slowly' to indicate this error. The unit will not turn on because the water level sensor is detecting no water in tub. If water level sensor is not used, a jumper should be connected at water sensor port of the control box.

Understanding the Setup

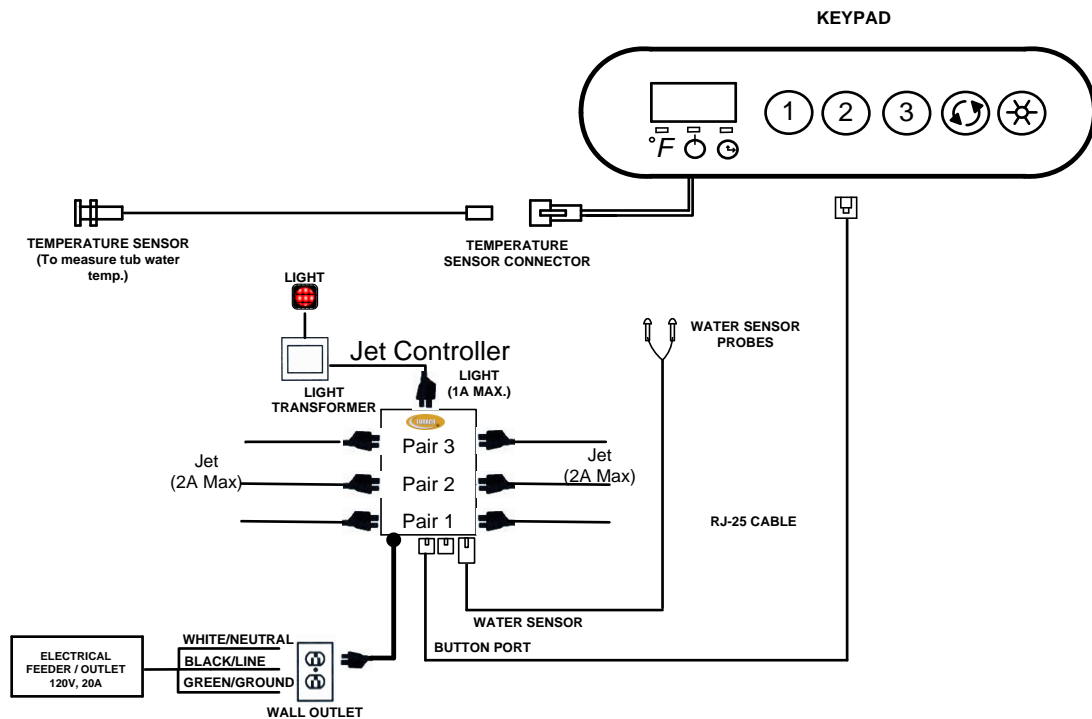


Fig. 1: Wiring diagram

Water Level Sensor Installation

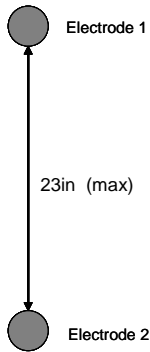
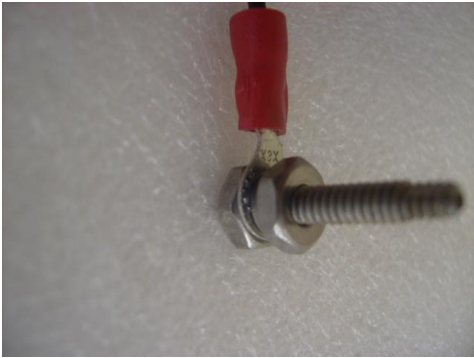


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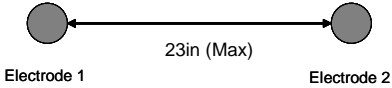
The impeller bearing cannot run dry. Therefore, water sensor is required to prevent the dry running and permanent damage to the JET heads. Please follow the steps below for the water level sensor installation.

- a) Locate the location for the sensor electrodes to be installed. Note: The electrodes can be installed in vertical or horizontal configuration (**Fig. 2b**)

- b) Drill two holes (3.5mm diameter) on the tub with approximate distance as shown in **Fig. 2b** below. Insert the electrodes and tighten the nuts to secure the ring connectors as shown in **Fig. 2a** below.
- c) Connect the other end of sensor cable to the control box port named “**Level Sensor**”



Vertical Configuration



Horizontal Configuration

a)

b)

Fig. 2: a) Electrode mounting behind the tub

b) Electrode Configurations

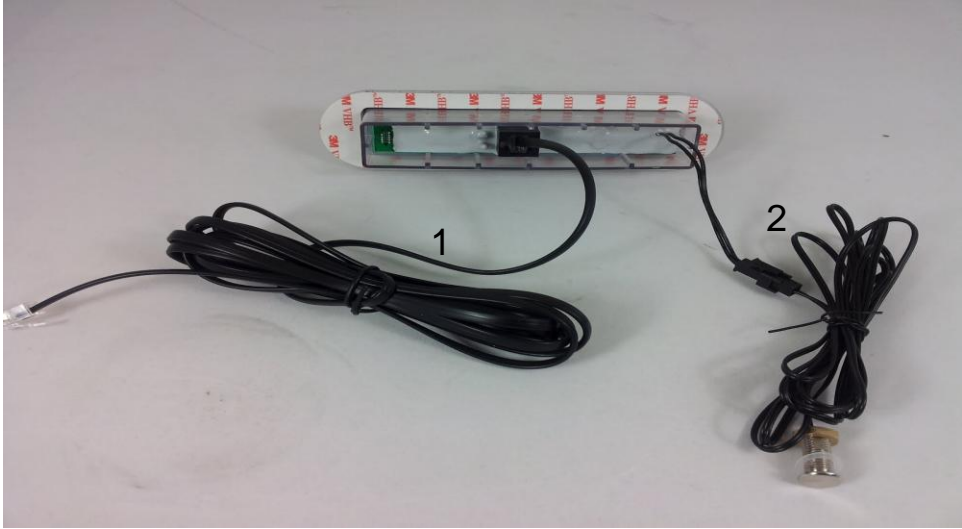


Fig. 3: Keypad with temperature sensor and RJ25 cable connected

1	RJ25 Cable	Connect one end to the back of keypad and the other end to the ‘button’ port of control box.
2	Temperature Probe	Connect the square female end of the probe to the male end of the keypad. Drop the probe on water.

Cable Connection Steps

1. Connect keypad to control box using RJ25 cable.
2. Connect the temperature probe on the back of keypad.
3. Connect water level sensor/ jumper on the sensor port of control box.
4. Connect jets to the control box.
5. Connect power cable to the power outlet and turn on the unit using power button on keypad.

2D Drawing

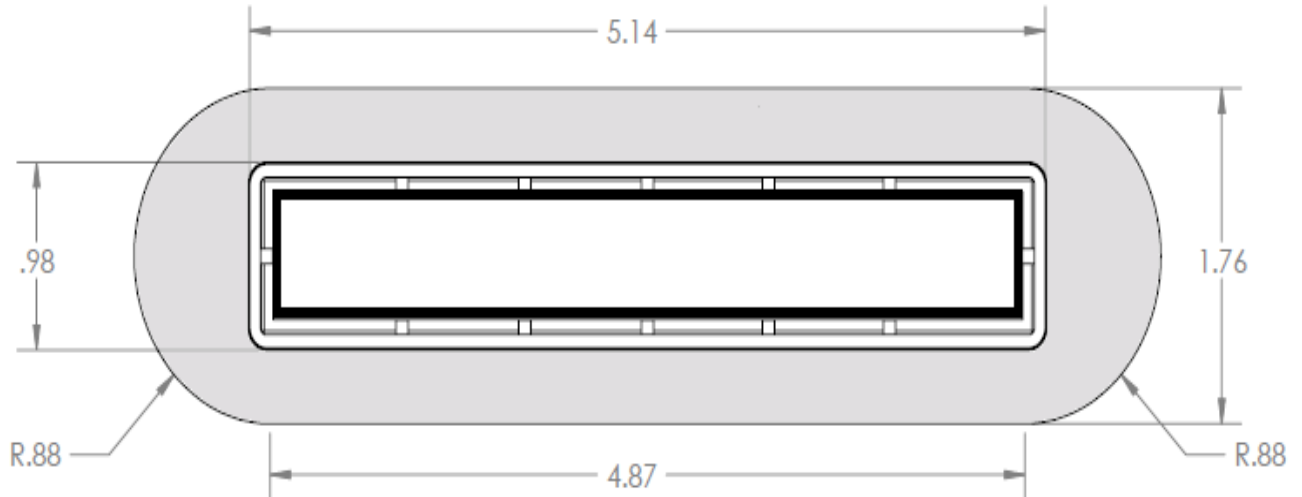


Fig. 4: Backside view of keypad (All dimensions in inches)

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