



## The Topside Controls

Think of your spa as you would a computer. The spa pack is like the hard drive and the topside controls are like the mouse and keyboard. Your computer is connected to a power source, you touch buttons, and it performs only those actions you request. Like a keyboard, each button on the control pad tells the spa pack to perform an action.

Unlike your computer, since your spa is hardwired with #6 AWG with a continuous copper ground, your spa should always be connected to the GFCI with the power turned on.

**Never turn off the GFCI unless the spa is being serviced or you are draining all of the water.**



## Topside Controls for Spas with Three Pumps

### Topside Power Controls

Laguna Bay Spas are manufactured with topside controlled power override. After the spa is filled and your electrician has connected the spa pack from the GFCI, turn the GFCI on. If properly connected, the LED will emit a soft glow and display the current water temperature and “- - -”.

### Waiting for a Command

Whenever the LED displays “- - -” it is “waiting” for a command. When “waiting” for a command the spa will have limited function. Some features will only work while “waiting” and others will not work at all if “- - -” is displayed. If you don’t get the action you expect when you press a button, look at the LED to ensure “- - -” is displayed or not displayed as required for the operation you are attempting to perform.

**If “- - -” is displayed press this button once to take it out of “waiting”.**

**If “- - -” is not displayed press the button once to put it into “waiting”.**

Pressing the button once will change the waiting status and will also power off every running component at once rather than having to touch each button to power them off individually. With the GFCI still on, the LED will display the current water temperature, time and “- - -” only. Under normal conditions, the spa should only be disconnected from the GFCI when you are draining the spa.

## The Fully Illuminated LED Display





## Setting the Time

When the GFCI has been powered on and the topside power control has been pressed to power on the topside controls, the display will brighten. You will see " - - - " on the LED indicating the spa is "waiting" for a command. Each time you want to change the settings for your spa, it must be "waiting". If you do not see " - - - " on the LED, touch the topside power button to put the spa in "waiting".

To set the clock, with the spa "waiting, the numbers on the LED will flash. Press and hold the "Minute" button until the desired minute is displayed. Press and hold the "Hour" button until the desired hour is displayed. The time is set when the " : " flashes and the numbers are solid. Time is displayed in Military Time - the LED will display 18:00 when it is 6 pm. Midnight is 00:00.



### Press these buttons to set the clock and timed functions



Your spa must be "waiting" for the command to set the time. You will not be able to set the clock or any recurring functions if your spa is not "waiting" for a command. If the LED does not display " - - - " press the topside power control button to power on the spa. To set the minute, press and hold the "MINUTE" button until the correct minute is displayed. To set the hour, press and hold the "HOUR" button until the correct hour is displayed.

Time is displayed in Military Time. In military time, each day has 24 hours. For example, to set the clock on your spa to 7:15 pm, press and hold the "HOUR" button until it reaches 19 then press and hold the "MINUTE" button until it reaches 15. The time will flash for 6 seconds before it displays without flashing.

When you turn off the GFCI for service or cleaning, you will have to reset the clock. There is no battery back up for the clock on the spa.



### Press this button to adjust the temperature.

With the spa in "waiting", press and hold the button down until the desired temperature is reached. To raise the temperature, press and hold the button until the desired temperature is reached. To reduce the temperature, press and hold the button until the display cycles to the maximum temperature of 104°F and begins at the minimum temperature of 56°F until it reaches the new temperature setting. For example, if your heater is set to 102°F and you wish to reset the temperature to 100°F, press and continue holding this button down from 102°F to 104°F then from 56°F until it reaches 100°F. The water temperature setting is now 100°F. For optimal energy efficiency in very warm climates or in warm weather, do not program the temperature setting below the forecast high temperature during daylight hours. For instance, if the forecast high is 88°F DO NOT set the temperature below 88°F.

Since the spa heats very quickly, when you are ready to use the spa, reset to the desired temperature. In most instances, the water temperature will climb from the low temperature of 56°F to the high temperature of 104°F within about 8 hours depending on the outside temperature. In very cold weather, it may take longer to reach the desired temperature. Keeping the cover on the spa when not in use will reduce the time to heat the water and will help prevent heat loss.

The LED will display the actual water temperature. If you fill your spa during very cold weather and the water used to fill the spa is 34°F, the LED will display 34°F and the heater will turn on. Your spa is not equipped with a cooling system. If it is hot outside and the water in the spa is above 104°F, the LED will display a temperature above the maximum heating temperature of 104°F.





## Press this button to turn speakers on and off



If your Laguna Bay Spa has an audio/video package, this button will control the power. Press this button once to turn on the built in speakers. Press the button a second time to turn the built in speakers off. The speakers will not work while “waiting”. When it is powered off, the icon will not be displayed on the LED. This button is used only to control the power. The audio and video components must be turned on and off independently. Volume is also controlled on the device. If the LED displays “CD” the speakers will work if the device is on and the volume is turned up on the device. If you do not have an Audio/Video Package, pressing this button will do nothing.



## Press this button to operate Pump One



You can turn the pump on by touching this button once. To turn the pump off, touch the button a second time. This pump is a single speed pump and will not work in “waiting”. Touching the button will either turn the pump on or turn the pump off. When pump one is off, the icon will not be displayed on the LED. To reduce the flow and force of the water for a more relaxing spa experience, simply reduce the air flow or divert the water to another part of the spa shared by this pump by using the air and diverter valves, located on the acrylic surface. For more information about air and diverter valves, please refer to your owner’s guidebook. The pumps on your new Laguna Bay spa are designed to pump water, not air. If air is trapped in the lines, the pumps will lock to protect to major components. If your spa is properly filled and functioning as it should be, when you touch this button water will be forced thru without surging. If no water comes through the jets, if you hear the pumps “hum”, or if water surges, touch the button to turn the pump off and refer to the instructions in the owner’s guidebook to bleed air from the pump. You can operate pump one alone or in tandem with pump 2 and/or pump 3.



## Press this button to operate Pump Two



You can turn the pump on by touching this button once. To turn the pump off, touch the button a second time. This pump is a single speed pump. Touching the button will either turn the pump on or turn the pump off. Pump two will not work while the spa is “waiting”. When pump two is off, the icon will not be displayed. To reduce the flow and force of the water for a more relaxing spa experience, simply reduce the air flow or divert the water to another part of the spa shared by this pump by using the air and diverter valves, located on the acrylic surface. For more information about air and diverter valves, please refer to your owner’s guidebook. The pumps on your new Laguna Bay spa are designed to pump water, not air. If air is trapped in the lines, the pumps will lock to protect to major components. If your spa is properly filled and functioning as it should be, when you touch this button water will be forced thru without surging. If no water comes through the jets, if you hear the pumps “hum”, or if water surges, touch the button to turn the pump off and refer to the instructions in the owner’s guidebook to bleed air from the pump. You can operate pump two alone or in tandem with pump 1 and/or pump 3.



## Press this button to operate Pump Three

Pressing this button controls pump three. It is a two speed pump. Press the button once to turn the pump on high speed. The LED will display three waves in a circle to indicate the pump is on high speed. Press the button a second time to turn the pump on low speed. The LED will display a single wave in a circle to indicate the pump is on low speed. Press the button a third time to turn the pump off. When the pump is off, the icon will not be displayed on the LED. Pump three will not work if “- - -” is displayed on the LED. Low speed provides limited water movement which is ideal for reducing energy consumption but inadequate for hydrotherapy purposes. While the water is heating, the pump operates on either high or low speed. When the water temperature has reached the programmed setting, it operates as a high speed pump. To reduce the flow and force of the water for a more relaxing spa experience, simply reduce the air flow or divert the water to another part of the spa shared by this pump using the air and diverter valves, located on the acrylic surface. For more information about air and diverter valves, please refer to your owner’s guidebook.

The pumps on your new Laguna Bay spa are designed to pump water, not air. If air is trapped in the lines, the pumps will lock to protect to major components. If your spa is properly filled and functioning as it should be, when you touch this button water will be forced thru without surging. If no water comes through the jets, if you hear the pumps “hum”, or if water surges, touch the button to turn the pump off and refer to the instructions in the owner’s guidebook to bleed air from the pump. You can operate pump three alone or in tandem with pump 1 and/or pump 3.



High



Low



## Press this button to turn the heater on and off

Press this button once to turn the heater on and again to turn it off. You can turn the heater on and off whether or not the spa is in “waiting”. If the heater is off, the icon will not display on the LED. You should reduce the temperature setting rather than powering off the heater.

Think of your spa heater like the windshield wipers in your car. Your car runs with or without the wipers on. If it starts to rain, the windshield wipers will only work when you turn them on. You can speed down the highway without wipers in the pouring rain, but it probably isn’t the best idea. If you decide to “speed down the highway in the pouring rain with no windshield wipers”, the heater will turn itself on to protect itself from freezing when the water temperature reaches 56°F.

If the heater is powered off, it cannot maintain the temperature setting so the weather controls it, not you. The heater keeps the water temperature between 56°F and 104°F and within 2°F of the programmed setting.

The icon on the LED will be solid while heating the water and flash when the water temperature is above the programmed temperature setting. Remember, it’s a heater, not a cooler. If it’s hot outside the water temperature may be warmer than the programmed setting. If it’s really hot outside, the LED may display temperatures over 104°F even though the heater will not heat the water to temperatures above 104°F.





## Press this button to power the lights on and off.



To turn the light on, press the button once. To turn the light off press the button a second time. If your spa came with the optional Nine Color LED light, press the button to turn To turn the light off, press the button again. The lights will not work when the LED displays “- - -”. When the light is off, the icon will not be displayed. Fiber Optic lighting is a row of small lights just above the waterline. These lights work in tandem with the colored lights. If the Nine Color LED light is installed, the Fiber Optic lights will be the same color as the large underwater light. The Fiber Optic lights should never be submerged. If the water line goes over the fiber optic lights, immediately drain some of the water from the spa so the lights are once again below the waterline.

**Damage to the spa or the fiber optic lights caused by submersion is not covered under the spa warranty.**



## Press this button to begin the Refresh Cycle.



Stage 1

At any time, you can press this button to start a supplementary circulation cycle. The LED does not have to display “- - -” indicating the spa is “waiting” for a command. Pressing this button once to begin the cycle.

You cannot stop or interrupt this cycle once it has started. Pressing the topside power controls will not over ride the cleaning cycle, it will simply change the display. Once started, the cleaning cycle will run to completion.

Beginning with stage one, all three pumps will run on high speed. Pumps One and Two will power off automatically at the end of stage one. Pump Three will run on low speed with the ozone generator on during stage two. The ozone generator will power off automatically. Pump Three powers off automatically at the end of stage three completing the supplementary cleaning cycle.



Stage 2

Everyone has different requirements to maintain water chemistry. What works for you may not work for your neighbor who started with the same base water quality. Plainly stated, more water, more users, and more time in the spa means more filtration and more chemicals. The filtration cycles you have programmed to run daily along with the addition of chemicals are designed to adequately take care of your water chemistry based on what you consider normal use. Your filtration cycles and the chemicals you require are most likely different than your neighbor's. However, there may be times additional filtration will help take better care of you and your spa. Minor changes in spa use will not require you reprogram filtration cycles or over load the water with chemicals. Pressing this button provides an effortless cleaning cycle whenever you wish.



Stage 3

It's a good idea to use this feature each time you exit the spa, killing bacteria and filtering the impurities from the water immediately. If you haven't been as diligent about your water chemistry as you should have been for a week, you may find running this cycle will reduce chemicals needed before you using your spa. Instead of loading your water with chemicals, it provides a quick but deep clean during parties when the “bather load” fluctuates dramatically from normal use. Since “Less is More” when it comes to chemicals this amazing feature means you spend more time enjoying your spa and less time and money taking care of your spa.



## CYCLE

## Setting Your Filtration Cycle



Step 1

Follow these steps to set your personal filtration cycle. The spa must be “waiting” for your command; the LED must display “ --- “ to accept the filtration settings. Your spa will filter once each day for as long as you desire at the time of day you choose. Filtration cycles are different for every spa owner and depend on a variety of factors including base water quality, the number of gallons of water, the number of users and the length of time the spa is used.

If your spa included the Prozone Salt System, you should set your filtration cycle for a minimum of 4 hours daily to allow to generate the amount of residual chlorine required for it to be effective.

Your filtration cycles can be adjusted at any time to accommodate any change in use that affect your water quality.

### Step 1

**The spa must be “waiting” for the command.** The LED on the topside controls will display “ --- “, the current water temperature and the current, correct time. If you have not already set the clock you must do so before proceeding. Instructions for setting the clock are on page 2. The example to the left of these instructions display the Military Time of 5:23 p.m.



Step 2

### Step 2

**Step Two sets the time of day you want the filtration cycle to begin.** Press the “CYCLE” button on the control pad. The word “CYCLE” will appear to the left of the clock and the “CYCLE ICON” will appear to the right of the clock as an indication “CYCLE” is the function being programmed. Press and hold the “MINUTES” button until the desired minute is reached. Press and hold the “HOUR” button until the desired hour is reached. If you pass the desired time, continue holding the button down until it cycles back to the desired time. The example to the left of the instructions uses the Military Time of 3:00 a.m. as the start time.

### Step 3

**Step Three sets the duration of the filter cycle.** Press and hold the “MINUTES” button until the desired minute is reached. Press and hold the “HOURS” button until the desired hour is reached. If you pass the desired time, continue holding the button down until it cycles back to the desired time. The example to the left of these instructions sets the duration of the filter cycle for 4 hours and 30 minutes.



Step 3

**In the example to the left of these instructions, the filter cycle will begin at 3:00 a.m. and will run for 4 hours and 30 minutes. The filter cycle will end at 7:30 a.m.**

### Step 4

**Press the Topside Power Control button once to confirm the time and duration of the filtration cycle.** During the filtration cycle, the LED will display a clock that counts down the time remaining in the filter cycle, the “CYCLE ICON” to the right of the clock and the word “CYCLE” to the left of the clock. The example to the left of these instructions shows that 1 minute of the cycle is complete with 4 hours 29 minutes left in the cycle.



Step 4



## PREHEAT

## Setting Your Preheat Cycle



Step 1

Follow these instructions to set a time each day for your spa to heat to a preset temperature. The spa must be “waiting” for your command; the LED must display “ - - - ” to accept the preheat settings. Your spa will preheat once each day for as long as you desire at the time of day you choose. If you use your spa each day and live in a cool climate, this feature lets you keep the temperature setting low and will heat the water to the programed temperature at the time you set on the controls. As the weather changes, the preheat settings can be adjusted whenever necessary so the spa is ready when you are while conserving energy, saving your money and your time. Setting your spa to preheat is not required for operation; it is an energy saving function that is provided for your convenience and pleasure.

### Step 1

**The spa must be “waiting” for the command.** The LED on the topside controls will display “ - - - ”, the current water temperature and the current, correct time. If you have not already set the clock you must do so before proceeding. Instructions for setting the clock are on page 2. The example to the left of these instructions display the Military Time of 5:37 p.m.



Step 2

### Step 2

**Step Two sets the time of day you want the Preheat cycle to begin.** Press the “PREHEAT” button on the control pad. The word “PREHEAT” will appear to the left of the clock and the word “ON” will appear to the right of the clock as an indication “PREHEAT” is the function being programmed. Press and hold the “MINUTES” button until the desired minute is reached. Press and hold the “HOUR” button until the desired hour is reached. If you pass the desired time, continue holding the button down until it cycles back to the desired time. The example to the left of the instructions uses the Military Time of 5:30 p.m as the start time.



Step 3

### Step 3

**Step Three sets the duration of the Preheat cycle.** Press and hold the “MINUTES” button until the desired minute is reached. Press and hold the “HOURS” button until the desired hour is reached. If you pass the desired time, continue holding the button down until it cycles back to the desired time. The example to the left of these instructions sets the duration of the preheat cycle for 2 hours and 30 minutes.



Step 4

### Step 4

Press the “SET” button and the press and hold the Temperature button until the desired temperature is reached.

**In the example to the left of these instructions, the filter cycle will begin at 5:30 p.m. The heater will heat the water for up to 2 hours and 30 minutes to achieve the set temperature. The water will reach the desired temperature and be ready for use by 8:00 p.m.**

### Step 5

**Press the Topside Power Control button once to confirm the time and duration of the Preheat cycle.** The LED will display the current time, the word “ON” to the right of the clock and the word “PREHEAT” to the left of the clock. The example to the left of these instructions shows a Military time of 5:39 p.m.

