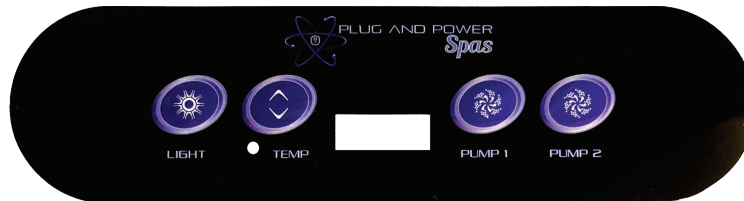


Two Pump Topside Control Instructions

Please refer to the owner's manual for important safety information, manufacturer's recommendations, and detailed installation, use, & care instructions.



POWERING ON YOUR SPA

After filling the spa to the correct level through the filter assembly and removing the water hose, replace the filter, filter basket, and filter cover. Turn the GFCI on. Every time the GFCI is powered on, your spa controls run diagnostic self checks. During diagnostic testing, it is normal for a series of messages to display on your topside controls. When diagnostic self checks are completed, the spa will start in priming mode.

Turning the Jets On and Off



Press the "Pump 1" button once to turn the pump on. Press the "PUMP 1" button a second time to turn pump on high speed. Press the "Pump 1" button a third time to turn the pump off. The pump will shut down automatically after 20 minutes. To turn the pump back on, simply press the "PUMP" button. If your spa is equipped with an Ozonator, ozone will be generated automatically whenever the pump is running on low speed.

Press the "PUMP 2" button once to turn the pump on. Press the "PUMP 2" button a second time to turn the pump off.

To ensure your safety and for optimal performance, your spa automatically performs maintenance functions and diagnostic testing, circulating the water on low speed every thirty minutes to run a system check. Pressing the pump button during heating, filtration and diagnostic testing will not turn the pump off. *If your spa is equipped with a circulation pump, it will run continuously until the water temperature is 1°F above the programmed temperature setting. When at the correct temperature it will turn off and back on every 30 minutes and circulate for 1 minute or to heat the water as needed. The ozonator engages when the circulation pump is running.*

Pre-Programmed Factory Settings

The spa will start in Standard Operating Mode.

The temperature is pre-programmed to 100°F (38°C)

The minimum programmable temperature is 80°F (27°C), the maximum is 104°F (40°C)

The Filtration cycle is pre-programmed to run twice each day for two hours.

While the water is heating, the temperature is measured approximately every two minutes. After the spa has been running for 2 minutes, the current water temperature will be displayed on the topside controls. When the water temperature reaches the pre-programmed temperature setting, the pump will automatically turn off. To display the current pre-programmed temperature setting, press the "cool" button once. The current water temperature will flash on the display.

**When you press a button, wait 5 seconds before you press a different button
to prevent unintended changes to programmed settings.**

Priming Mode



Each time your GFCI is turned on, "PR" is displayed on your topside controls. As soon as "PR" appears on the screen, press the "PUMP" button twice to run the pump on high speed. Within 2 minutes water should be flowing from the jets in every seat without any surging from the pumps. If water isn't flowing from all of the jets or if you hear the pumps surging, turn them on and off up to 4 times, which can help prime the pump. If the pump isn't primed after turning them on and off 4 times, turn the GFCI off. Make sure the "T Stems" are locked in the UP position, the diverter valves are centered for even distribution of the water, jets without flow are fully rotated to the open position and there isn't any debris in the filter basket or on the suction drain covers. Turn the GFCI on again and repeat the process. If the pump doesn't prime on the second attempt, call your dealer for assistance. *A pump that fails to prime should not be left on for more than 2 minutes under any*

circumstance. The heater will engage when priming mode is complete. If a pump is not properly primed when the heater engages, the spa may overheat causing serious damage.

Changing the Programmed Temperature Setting



If the display is not flashing when the temperature is adjusted, the changes will not be saved.

To change the programmed temperature setting, press and release the "TEMP" button. While the temperature is flashing on the display, press and hold the "TEMP" button until the new temperature is displayed. To move the display in the opposite direction continue holding the button. When it reaches 104°F (40°C) it will automatically begin moving in the opposite direction. After 3 seconds, the display will stop flashing and the current water temperature will be displayed.

Freeze Protection

If the water temperature falls to 44°F (6°C) the spa will automatically turn on and will run for 4 minutes after the water temperature reaches 46°F (8°C) to prevent freezing. If your spa is in Sleep Mode when the ambient temperature is 40°F (4°C) or lower, the water temperature will likely operate in Freeze Protection Mode for extended periods if not continuously.

Setting the Filtration Cycles



Filtration cycles run every 12 hours.

The filtration cycle duration can be set in increments of an hour.

To change the duration of the filter cycles, press and release the "Temp" button. While the water temperature is flashing on the display press and release the "PUMP" button, then press and release the "Temp" button to move through the filter cycle duration options, from F1 (1 hour filtration cycle) to F8 (8 hour filtration cycle) stopping when the setting you want is displayed. Press the "PUMP" button to confirm your selection. Filter cycles can be set for 1, 2, 3, 4, 5, 6, 7, or 8 hours. Never set your filtration cycle to FILC (Continuous Filtration) which can lead to over heating, damaging the components that is not covered under the warranty.

The first filtration cycle will begin after the pumps are primed each time the GFCI spa is turned on. When the filtration cycle begins, the pump will operate on high speed for approximately 1 minute to flush the lines, after which the pump will operate on low speed until the filtration cycle is complete. Filtration cycles run every 12 hours. For example, if the GFCI is powered on at 4:54 and you have selected 2 hour filtration cycles, your filtration cycles will run from 5 to 7 a.m. and again from 5 to 7 p.m. If you want the filtration cycles to run from 3 to 5, you should power on the spa at 2:54.

UNDERSTANDING OPERATING MODES

Your spa controls are equipped with operating modes to help you regulate energy consumption and reduce operating costs. How often the spa is used and the ambient temperature will help you determine which mode is best for you.

When you press a button, wait 5 seconds before you press a different button to prevent unintended changes to programmed settings.

To change operating modes, press the "COOL" button. While the display is flashing, press the "LIGHT" button. The current mode will flash on the topside control. To move between modes, press the "COOL" button followed immediately by the "LIGHT" button until the operating mode you want to select is displayed on the topside controls.

Standard Operating Mode



The water is heated to maintain your pre-programmed temperature setting.

The current water temperature is displayed on the topside controls.

When your spa is in Standard Operating Mode, your programmed temperature setting is always maintained. If your water temperature falls a few degrees, the pump will automatically begin circulating on low speed to heat the water until the correct temperature is reached

Economy Mode



The water heats only during filtration cycles.

In Economy Mode the water may be too cool for immediate use.

"EC" is displayed on the topside controls.

DO NOT PUT YOUR SPA IN ECONOMY MODE WHEN THE AMBIENT TEMPERATURE IS 40°F (4°C) OR LOWER!

In Economy Mode, the water is only heated during filtration cycles. In moderate weather, setting the filtration cycle to end right before use can be an effective way to reduce energy consumption but in cool weather the water may be too cool for immediate use. When your spa is in Economy Mode, the water temperature and "EC" will flash alternately on the display when the pump is running on low speed, after diagnostic testing, during or after a filtration cycle, or when you press the "COOL" button once. Otherwise, EC is displayed on the topside controls.

Sleep Mode



The water heats to within 20°F (11°C) of the programmed temperature setting.

The water ONLY heats during filtration cycles.

"SL" is displayed on the topside controls.

DO NOT PUT YOUR SPA IN SLEEP MODE WHEN THE AMBIENT TEMPERATURE IS 40°F (4°C) OR LOWER!

Sleep Mode can significantly reduce energy consumption because the water only heats during filter cycles and stops heating the water when it is 20°F below the programmed temperature setting. For example, if your pre-programmed temperature setting is 100°F (38°C) during the filtration cycle your water will heat to 80°F (27°C). If the filtration cycle times out before the water temperature reaches 80°F (27°C), the filtration cycle will end regardless of the water temperature. Sleep Mode is ideal when the weather is warm or when the spa will not be in use for a prolonged period of time. When your spa is in Sleep mode, the water temperature and "SL" flash alternately on the display when the pump is running on low speed, after diagnostic testing, during a filtration cycle, or when you press the "COOL" button once. Otherwise, "SL" is displayed on the topside controls.

Freeze Protection

If the water temperature falls to 44°F (6°C), the spa will automatically turn on and will run for 4 minutes after the water temperature reaches 46°F (8°C) to prevent freezing. If your spa is in Sleep Mode when the ambient temperature is 40°F (4°C) or lower, your spa will likely operate in Freeze Protection Mode for extended periods if not continuously.

When you press a button, wait 5 seconds before you press a different button to prevent unintended changes to programmed settings.

For example, if you only press the "COOL" button, only the temperature changes. If you only press the "LIGHT" button, only the light function changes. But if you press the "COOL" button and immediately press the "LIGHT" button, the operating mode changes. Waiting 5 seconds between pressing the "COOL" and "LIGHT" buttons is adequate time to exit programming mode, preventing unintended changes.

It may be difficult to read the topside display in bright sunlight. Using your hand to shield the direct light will increase visibility.

Turning the Lights On and Off



Press Light Button	Turns On	Press Light Button	Turns Off
Once	Red	Twice	Red
3 Times	Green	4 Times	Green
5 Times	Blue	6 Times	Blue
7 Times	All Colors Rotating	8 Times	All Lights

The lights will turn off automatically after 1 hour. Press the "LIGHT" button to turn the lights back on. If your spa is equipped with optional perimeter lighting, all lights work in tandem.

OPERATING BUILT-IN AUDIO COMPONENTS



The built-in audio components must be turned on to pair your wireless devices and to hear your selection through the built-in speakers. To turn the audio components on and off, press the rocker switch mounted to the cabinet on the same side as your topside controls. Use your device to control the volume through the speakers and to make, play, and pause your selections. If you can't hear your selection, make sure your device isn't muted or paused, and that the volume setting isn't too low. *Press the rocker switch to turn the speakers off when you exit the spa to prevent overheating, which can permanently damage your audio components.*

Pairing your Wireless Device

Press the rocker switch to turn the built-in audio components on and listen carefully. Within 15 seconds a chime will sound, signaling the spa is discoverable and ready for pairing. Open your device settings, select Bluetooth settings, verify Bluetooth is turned on and your device is scanning for available devices. If your device doesn't begin scanning automatically, turn the Bluetooth off and back on. When discoverable device SC012345 appears on your screen, tap it to connect your device. A pairing code is not required. Your spa can be paired with multiple devices but each device must be paired individually following the same process. Use your device to make your selection, press play, and adjust the volume through the speakers.

TROUBLESHOOTING BLUETOOTH CONNECTIONS

No Connection: Discovery mode for the spa may have timed out before the connection to your device was established. Press the rocker switch to turn the audio components off for 10 seconds. Repeat the process.

No Connection / Intermittent Connection: Check the signal strength on your device standing next to your spa. If the signal on your device is weak or fades in and out, the signal in your spa is also weak and wavering. Consider installing a booster to improve signal strength.

No Sound from Speakers: Check the Bluetooth settings on your device to confirm it's connected, check your device to make sure the selection hasn't been paused or the volume muted. Increase the volume setting on your device.

Multiple Device Connectivity: Multiple devices can be paired with your spa but only one device can be connected at a time. When multiple devices are paired, your spa may pick up an active signal on a different paired device. To switch between devices, turn off Bluetooth on the device with the active connection and connect the new device before turning it back on.

Duplicate SC012345 Discovered: On rare occasions, duplicate SC012345 devices are detected in discovery mode. If more than one SC012345 appears on your screen, tap the first device on the list. If that connection fails, press the rocker switch to turn the audio components off. After 10 seconds press the switch to turn them back on and repeat the connection process, this time choosing the second SC012345 device.

For your safety and to protect your device from water damage, always store your device safely away from your spa. Always press the rocker switch to turn the audio components off when you exit the spa. Leaving them on causes overheating that will permanently damage the audio components. Damage to the audio components that occurs because the components were not turned off is not covered under the warranty.

TROUBLESHOOTING ERROR MESSAGES ON THE TOPSIDE CONTROL

Many error messages that appear on your topside control can be resolved by resetting your spa controls. To reset your controls, turn your GFCI OFF and back ON after 30 minutes. If the error message is not resolved after resetting your system and following the recommendations in this troubleshooting guide, contact your dealer for assistance.

Message	Meaning	Action Required
	No message to display No Power to Spa	Control panel disabled until power is restored. Settings have been preserved.
--	Temperature Unknown	Temperature will be displayed after pump has been running for 2 minutes
HH	OVERHEAT - Spa shut down to protect against excessively high water temperature in heater chamber at sensor	DO NOT ENTER THE WATER! Power off GFCI, make sure "T Stems" are locked in open position, the water level is adequate and remove debris from the filter, filter basket and suction drain cover. Change the filter if dirty. Power on. If not resolved, call your dealer for assistance.
OH	OVERHEAT - Spa has shut down to protect against high water temperatures in heater chamber at sensor	DO NOT ENTER THE WATER! Power off GFCI, make sure "T Stems" are locked in open position, the water level is adequate and remove debris from the filter, filter basket and suction drain cover. Change the filter if dirty. Power on. If not resolved, call your dealer for assistance.
IC	Ice - Potential for freezing	No action required. Pump will automatically activate to prevent freezing
SA	Spa shut down - Sensor "A" not working	DO NOT ENTER THE WATER! Power off GFCI, make sure "T Stems" are locked in open position, the water level is adequate and remove debris from the filter, filter basket and suction drain cover. Change the filter if dirty. Power on. If not resolved, call your dealer for assistance.
SB	Spa shut down - Sensor "B" not working	DO NOT ENTER THE WATER! Power off GFCI, make sure "T Stems" are locked in open position, the water level is adequate and remove debris from the filter, filter basket and suction drain cover. Change the filter if dirty. Power on. If not resolved, call your dealer for assistance.
Sn	Sensors out of balance - Temporary if alternating with water temperature. If flashing by itself, spa is shut down	DO NOT ENTER THE WATER! Power off GFCI, make sure "T Stems" are locked in open position, the water level is adequate and remove debris from the filter, filter basket and suction drain cover. Change the filter if dirty. Power on. If not resolved, call your dealer for assistance.
HL	Significant difference between sensors - likely flow problem	DO NOT ENTER THE WATER! Power off GFCI, make sure "T Stems" are locked in open position, the water level is adequate and remove debris from the filter, filter basket and suction drain cover. Change the filter if dirty. Power on. If not resolved, call your dealer for assistance.
LF	Persistent Flow Problems - Heater shut down, other functions will run normally	DO NOT ENTER THE WATER! Power off GFCI, make sure "T Stems" are locked in open position, the water level is adequate and remove debris from the filter, filter basket and suction drain cover. Change the filter if dirty. Power on. If not resolved, call your dealer for assistance.
dr	Possible low water levels, low flow or air bubbles in heater, spa shut down for 15 minutes	Check water level and refill if necessary. Make sure slice valves are up and locked, remove obstruction from filter basket and suction covers. Press any button to reset. If problem persists, call your dealer for assistance.
dy	Inadequate water in heater. Spa automatically shut down.	Check water level and refill if necessary. Make sure slice valves are up and locked, remove obstruction from filter basket and suction covers. Press any button to reset. If problem persists, call your dealer for assistance.