



Polarzone Hot Therapy Spa Control Reference Card

Instruction card for the Polarzone Hydrotherapy hot spa system equipped with *Deluxe Digital* control panel and our exclusive Triple Hurdle Sanitation System (THSS®).

Initial Start-up

When your spa is powered up, it begins running in an economy mode. This setting is designed for periods of little or no spa use, but the spa continues to filter twice a day to maintain water quality. Press the  pad to switch the spa to standard mode which will automatically heat and maintain the water at 100°F or your desired set temperature.



Control panel pads

Temperature Adjustment (80°F - 104°F)

Press either pad once, and the LCD will display the set temperature, as well as the words "SET HEAT." Each time either of these pads is pressed again, the set temperature will increase or decrease. After three seconds, the LCD will automatically display the current spa temperature.

Jets 1

Press this pad to operate pump 1. The operating sequence for pump one is: press the pad once to turn on the low speed (small jet icon blinks), press the pad again to turn on high speed (small jet icon is solid), press the pad once again to turn off. If left running, low speed will automatically turn off after 4 hours; the high speed will turn off after 30 minutes. The low speed will run when the heater is turned on, when a filter cycle is activated, or a freeze condition is detected. When the low speed turns on automatically, it cannot be deactivated from the panel; however, the high speed may be started.

Jets 2

Press the "Jets 2" to operate pump two. Press the pad to turn on the low speed (large jet icon blinks). Press the pad again to turn on the high speed (large jet icon is solid), and again to turn off the pump. The low speed and the high speed will turn off after 30 minutes.

Light

Your spa light has three settings. Press the pad once for brightest intensity and a second time for medium intensity. Press the pad a third time for the dimmest setting and a final time to turn the spa light off. After 4 hours, the light will automatically turn off.

Economy & Standard Modes

Press this pad to switch between modes. **Standard mode maintains the set temperature at all times.** Economy mode heats the water only during filter cycles. See the Optional Filter Cycle Programming section for more heater options.

Automatic Features

Preset Filter Cycles

Your spa will automatically filter itself twice each day per user programmable filtration cycle. Pump 1, the ozone generator, and the ultraviolet light will run the duration of each filter cycle. We recommend programming the filtration cycles for continuous filtration during periods of **heavy spa use**. This will allow you to take full advantage of the Triple Hurdle Sanitation System (THSS™).

Filter 1

The first filter cycle is automatically activated at 8:00 AM and operates the low speed of the pump and the ozone generator (if installed) until 10:00 AM. Again, if the heat enable feature is on, the spa will heat to the set temperature in the economy mode.

The blower will run for 30 seconds to clean out the air channel.

Filter 2

The second filter cycle is automatically activated at 8:00 PM and operates the low speed of the pump, the ozone generator, and the ultraviolet light until 10:00 PM. If the heat enable feature is on, the spa will heat to the set temperature in the economy mode.

System Programming

Setting the Time of Day

When the spa is first powered up, the words "SET TIME" will flash on the display. To set the time, press , then or . After or is pressed once, the time will begin changing in one-minute increments. Press either pad to stop the time from changing. Press to enter your correct time into the system.

Optional Filter Cycle Programming

While you are not required to set filter cycles, if you want to change them, press within 3 seconds. "SET START FILTER 1" will appear on the display.

Press or to reset the filter start time.

When "SET HEAT" is on the display, press (on) to warm the water during filtration or press (off) to disable the heater.

Press to see "SET STOP FILTER 1" and adjust the time with the or pads as done above.

Press to see "SET START FILTER 2" and proceed as above.

Pressing will enter the new filter cycle times into the system and display the current water temperature.

Locking the Panel

Press (blower) within 3 seconds. When locked, the display will show the temperature you have chosen, along with the lock symbol. All pads are frozen except the pad.

Unlocking the Panel

Press (blower) within 2 seconds. The lock symbol will disappear and all panel pads will work again.

Locking the Temperature

While setting your spa water temperature, after you have pressed or , press (blower) within 3 seconds to activate the lock. When locked, the center display will show the spa temperature along with the lock symbol.

Unlocking the Temperature

Press or then (blower) within 2 seconds.

Freeze Protection

If the high-limit sensor detects 40°F at the heater, then all equipment is automatically activated to provide freeze protection. This is a normal spa function; no corrective action is necessary. The equipment stays on until the sensor detects 45°F at the heater. Freeze protection is enabled regardless of the status of the spa. In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions. See your dealer for details.

Diagnostic Messages

Message

Meaning

No message on display.
Power has been cut off to the spa.

OH

"Overheat" - The spa has shut down. Either the spa water has reached 112°F or the high-limit sensor has detected 118°F at the heater.

FLD

"Flow" (Flashing) - Flow of water is inhibited.

"Flow" (Not flashing) - A pressure switch has malfunctioned.

COOL

"Cool" - Water temperature is 20°F or more below the temperature you last set.

ICE

"Ice" - Potential freeze condition is detected.

Sni

"Sensor 1" - Spa is shut down. High-limit sensor is not working.

Sn3

"Sensor 3" - Spa is shut down. Water temperature sensor is not working.

Action Required

The control panel will be disabled until power returns. Spa settings will be preserved for 30 days with a battery backup.

DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. At 110°F, the spa should automatically reset. If spa does not reset, shut off the power to the spa and call your dealer or service organization.

Check and open flow valves. Check for correct water level. Clean filter.

Contact dealer or service organization.

No action required. Spa is functioning properly.

No action required. The pump will automatically activate regardless of spa status.

Contact your dealer or service organization.

Contact your dealer or service organization.

Thank you!

- The Polarzone Team

Please feel free to call our toll free number for technical support.

Warning! Shock Hazard! No User Serviceable Parts.

Do not attempt service of this control system. Contact your dealer or service organization for assistance. Follow all owner's manual power connection instructions. Installation must be performed by a licensed electrician and all grounding connections must be properly installed.



Polarzone NW LLC.

PO box 6473

Bellevue, WA 98008-0473

Toll Free: 1-877-765-2796

Fax: 425-746-2133

Email: sales@polarzone-nw.com
www.polarzone-nw.com