Spa Quick Start Guide
Balboa BP2000 System for Spa Touch Topside Control

For Use with Four Winds Spas Typhoon and XL Swim Spa Series

Initial Start Up

Your spa enters ***Priming Mode*** for 4-5 minutes when energized to purge jets of air. During Priming Mode, **Jets** are displayed. Turn on all Jets to facilitate priming. Priming Mode can be manually exited anytime. Afterwards, the **Main Screen** is displayed. A minute later, current temperature appears and if needed, the heater begins. At this point, it is important to set the Time Of Day and Filter Cycles.

Basic Operation

1. The Main Screen contains basic information and controls. Change the Set Temperature on the left of the screen. Messages may appear and be dismissed at the bottom of the screen. White text items proceed to additional controls. The menu screens time out after 30 seconds. After 3-5 minutes the display goes into sleep mode. Touch anywhere to wake the screen up.
***Setting Temperature*:** Select temperature display (eg: 102*F) and press Up/Down to set. Press Back to save.

2. The Spa Screen controls pumps, lights, and invert.
Jet Buttons turn pump on/off and shift between low/high-speeds. If left running, pumps turn off after a timeout period. If Pump 1 turns on automatically, it cannot be deactivated, but high speed can be activated.
Light Button turns lights on/off and proceeds through lighting options.
Invert Button reverses the orientation of the screen and allows easier control from inside the spa.

3. The Scenes Screen programs jet & lighting patterns. With the spa in desired settings, hold your finger over a Scene selection for 5 seconds until "Scene Stored" appears on the bottom of the screen. The scene will be programed into the spa and can be accessed here.

4. The Settings Screen controls additional features and options. When an item is selected, it will toggle between two settings. Menu items with a right arrow lead to another control level.
Dual Temperature Ranges: This system incorporates two temperature ranges with independent set temperatures. When a range is chosen, the spa will heat to the temperature set in that range. **High Range** is for standard use and set between 80* F and 104* F. **Low Range** is for periods of low use and set between 50*F and 99*F. Freeze Protection is always active.

Heat Modes:
Ready Mode: Pump 1 circulates water every 1/2 hour to maintain set temperature, heat as needed, and refresh temperature display. This is known as "polling".
Rest Mode: Spa heats only during programmed filter cycles. Polling does not occur, so the temperature display may not be current until the filtration pump has run for a minute or two.

Ready-in-Rest Mode appears if the spa is in Rest Mode and Pump 1 is activated. When the heater pump comes on automatically (ex: for heating) you can switch between low and high speed but cannot turn the heater pump off. After 1 hour, system reverts to Rest Mode.

Setting the Time: determines filtration and other features. In Settings Screen, select *Time-Of-Day*. Then select Hour, Minutes, and 12/24 Hour segments. Use Up and Down Buttons to change.

Filtration: It is important to set a filter pattern. We recommend two, 2-hour cycles programmed 12 hours apart at 7am/7pm (avoid hours between 10am-5pm). In Setting Screen, program start time and duration. End time is then calculated. Filter Cycle 2 is OFF by default and displayed as *No*. When it is ON, *Yes* is displayed. Press *Yes* or *No* to toggle Filter Cycles ON or OFF.

Lock: Spa control can be locked to prevent unwanted use. To lock, select "Settings" or "Panels" and press "Save." ***Locking Settings*** prevents adjusting Set Temperature and programmed settings, but allows use of jets and display controls. (Filter Cycles, Invert, Information and Fault Log can be seen, but not edited.) ***Locking Panel*** prevents use of all controls, but maintains automatic functions.

Unlocking: To unlock controls, select Settings (if it says "On") or Panel (if it says "On"), then hold the middle of the screen for at least 5 seconds until "On" turns to "Off." Follow the QR link* to the left for more info.
*youtube.com/watch?v=emHP_Hu00x8

5. Exiting Screens
When you see both of these buttons, they always mean *Save* and *Cancel*. If the screen times out due to no activity, it acts as Cancel. When you see only the *Save* button, it means Back or Exit and appears on editing screens before you have changed any value and on all other screens.

General Messages

---*F ---*C
Water Temperature is Unknown
After the pump has been running for 1 minute, the temperature will be displayed.

Possible Freezing Condition
A potential freeze condition has been detected, or the Aux Freeze Switch has closed. All water devices are activated. In some cases, pumps may turn on and off and the heater may operate during Freeze Protection. This is an operational message, not an error indication.

The water is too hot - MO29 *
The system has detected a spa water temp of 110*F (43.3*C) or more and spa functions are disabled. System will auto reset when the spa water temp is below 108*F (42.2*C). Check for extended pump operation or high ambient temp.

The water flow is low - MO16*
There may not be enough water flow through the heater to carry the heat away from the heating element. Heater start up will begin again after about 1 min. See “Flow Related Checks”

The water flow has failed - MO17*
There is not enough water flow through the heater to carry the heat away from the heating element and the heater has been disabled. See “Flow Related Checks” After the problem has been resolved, press the “right arrow” to reset the message.

The heater may be dry - MO28*
Possible dry heater, or not enough water in the heater to start it. The spa is shut down. After the problem has been resolved, press the “right arrow” to rest the message. See “Flow Related Checks”

The heater is dry - MO27*
There is not enough water in the heater to start it. The spa is shut down. After the problem has been resolved, press the “right arrow” to reset the message. See “Flow Related Checks”

The heater is too hot - MO30*
One of the water temp sensors has detected 118*F(47.8*C) in the heater and the spa had shut down. Press the “right arrow” and the end of the message to reset it when the water is below 108*F (42.2*C). See “Flow Related Checks” below.

Flow Related Checks
Check for low water level, suction flow restrictions, closed valves, trapped air, too many closed jets, and pump prime. On some systems, even when spa is shut down by an error condition, some equipment may occasionally turn on to continue monitoring temperature or freeze protection could be activated.

The GFCI test failed - MO36*
System could not test GFCI (North America Only). May indicate an unsafe installation. Contact your dealer or service organization.

A pump may be stuck on - MO34*
Water may be overheated. POWER DOWN THE SPA. DO NOT ENTER THE WATER. Contact your dealer or service organization.

Hot Fault - MO35*
A pump appears to be stuck On when spa was last powered. POWER DOWN THE SPA. DO NOT ENTER THE WATER. Contact your dealer or service organization.

*MOXX is a Message Code. Codes like this will be seen in the Fault Log

Some messages can be reset from the panel. Messages that can be reset will appear with a “right arrow” at the end of the message. Press the message text to reset the message.

General Maintenance helps
Reminder messages can be suppressed by using the Preferences Menu. Reminder messages may be displayed entirely, or there may be a limited number of reminders on a specific model. Each reminder may appear on a regular schedule (ie: weekly) and the frequency of each reminder can be specified by the Manufacturer.

Check pH
Check pH with a test kit and adjust pH with the appropriate chemicals.

Check the sanitizer
Check sanitizer level and other water chemistry with a test kit and adjust with the appropriate chemicals.

Clean the filter
Clean the filter media as instructed by manufacturer.

Test the GFCI
The GFCI or RCD is an important safety device and must be tested on a regular basis to verify its reliability. Every user should be trained to safely test the GFCI or RCD, each will have a TEST and RESET button to verify proper function.