TP200 PANEL

User Guide
Simplified Menu

Your Single Source Solution

BALBOA
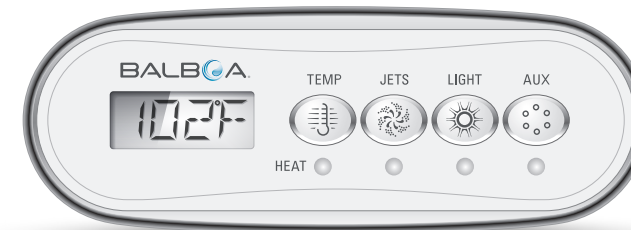water group

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TP200T PANEL

Single Temperature Button

TP200W PANEL

Dual Temperature Buttons

BP CONTROL SYSTEM

All BP series systems that support
Simplfied Menus

TABLE OF CONTENTS

SEQUENCE KEY

RED LCD CHARACTERS
Red indicates flashing or changing characters. For example, these segments flash when you press the TEMP button to change the Set Temperature.

BLUE LCD CHARACTERS
Blue indicates an alternating message or a progressive message. When you view Time-of-Day, this progressive message appears.

TEMPERATURE BUTTON
The TEMP button icon indicates an "action." For example, pressing the TEMP button initiates any one of the following actions: adjusting the Set Temperature, menu navigation, setting the Filter Cycle Time, setting the Heat Mode, etc.

LIGHT BUTTON
The LIGHT button icon indicates navigation or a selection.

HOLLOW DOTS
Hollow dots indicate that your last setting was not saved. For example, when you set a feature such as Time-of-Day, you need to press the LIGHT button to save your setting. If you do not press the LIGHT button, the Main Screen will appear automatically after a few moments, and your last setting will not be saved.
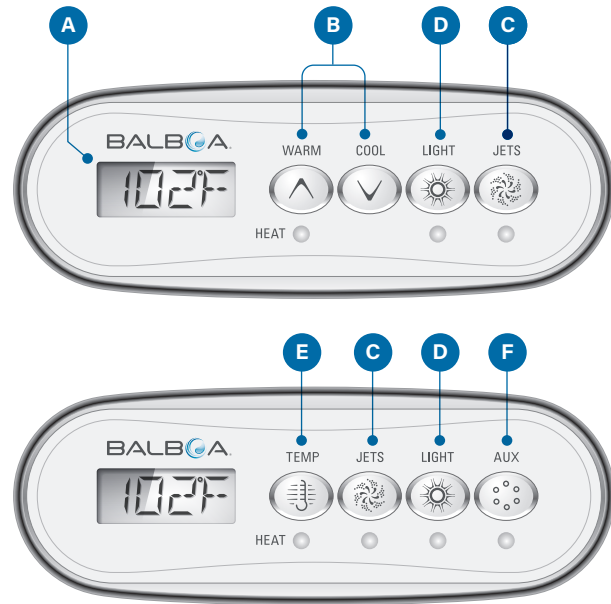
SOLID DOTS
Solid dots indicate that your last setting will be saved. For example, if you change the Set Temperature and pause a few moments, the Main Screen will appear automatically, and your setting will be saved. The same applies to other features that will be discussed later.

PANEL INTERFACE & TERMINOLOGY

Main Screen

The Main Screen (A) displays the water temperature by default. The water temperature does not flash. If you press the TEMP button, the water temperature is replaced by the Set Temperature. The Set Temperature flashes.

Set Temperature

The Set Temperature is programmed by you. If you start at the Main Screen and press the TEMP button, the Set Temperature will appear, and it will be flashing. At this point you can do two things: One, you can change the Set Temperature. Two, you can navigate menus by pressing the LIGHT button. If you do not press any buttons for a few moments, the Main Screen will appear automatically.

TEMP

TEMP is an umbrella term that refers to panel buttons that control temperature. For example, TEMP refers to these buttons (B)(E).

TEMP Button(s)

In addition to controlling the Set Temperature, use the TEMP buttons to initiate actions while changing various settings.

LIGHT Button

In addition to turning On/Off the spa lights, use the LIGHT button (D) to navigate menus. Also, when you change settings such as Filter Cycle duration, make sure you press LIGHT to save your settings. If you don't press LIGHT, the Main Screen will appear automatically and your setting will not be saved in most cases.

JETS Button

The JETS button (C) will control a one-speed pump or a two speed pump. It depends on how your spa is configured.

AUX Button

Control an auxiliary device, such as a pump or a blower (F).

MAIN MENUS & NAVIGATION

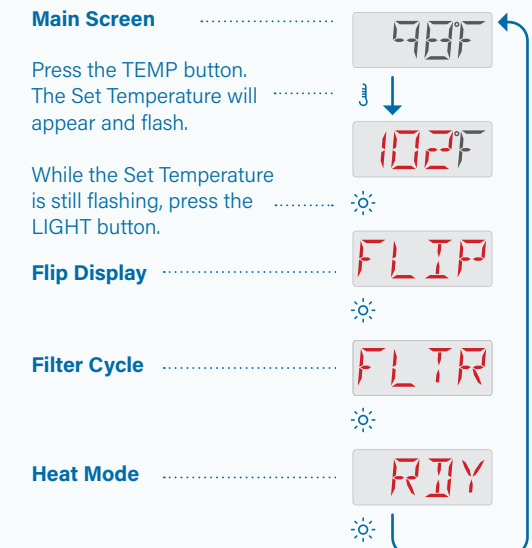Follow this sequence to navigate the Main menu.

If you are navigating any of the menus and decide you want to go back to the Main Screen, simply pause a few moments. The Main Screen will appear automatically.

SEQUENCE KEY
(View page 2 for full description)

- 🔴 Flashing characters
- 🔵 Progressive message
- ⌡ Press TEMP button for "action"
- ☀ Press LIGHT button to "select"
- ooo Pause / back to Main Screen / setting not saved
- ••• Pause / back to Main Screen / setting saved

SEQUENCE

Main Screen .... `98F`

Press the TEMP button. The Set Temperature will appear and flash. ⌡

`102F`

While the Set Temperature is still flashing, press the LIGHT button. ☀

Flip Display .... `FLIP`

☀

Filter Cycle .... `FLTR`

☀

Heat Mode .... `RDY`

☀

CHANGE THE SET TEMPERATURE

Change the Set Temperature

When using a panel with WARM and COOL temperature buttons, pressing either WARM or COOL will cause the Set Temperature to flash. Pressing a temperature button again will adjust the Set Temperature in the direction indicated on the button. When the LCD stops flashing, the spa will heat to the new Set Temperature when required.
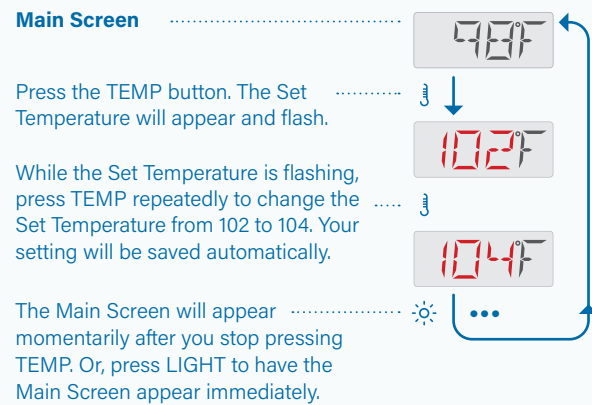
If the panel has a single temperature button, pressing TEMP will cause the Set Temperature to flash. Pressing TEMP again will cause the Set Temperature to change in one direction (e.g. UP). After allowing the display to stop flashing, pressing the TEMP button will cause the Set Temperature to flash and the next press will change the Set Temperature in the opposite direction (e.g. DOWN).

Temperatures are displayed in either Fahrenheit or Celsius. This setting is hard-coded into the control system.

Press-and-Hold

If a Temperature button is pressed and held when the Set Temperature is flashing, the Set Temperature will continue to change until the button is released. If only one Temperature button is available and the limit of the Temperature Range is reached when the button is being held, the progression will reverse direction.

SEQUENCE

Main Screen ....

98F

Press the TEMP button. The Set ....
Temperature will appear and flash.

102F

While the Set Temperature is flashing,
press TEMP repeatedly to change the ......
Set Temperature from 102 to 104. Your
setting will be saved automatically.

104F

The Main Screen will appear ....
momentarily after you stop pressing
TEMP. Or, press LIGHT to have the
Main Screen appear immediately.

SEQUENCE KEY
(View page 2 for full description)

🔴 Flashing characters
🔵 Progressive message
🌡 Press TEMP button for "action"
☀ Press LIGHT button to "select"
○○○ Pause / back to Main Screen / setting not saved
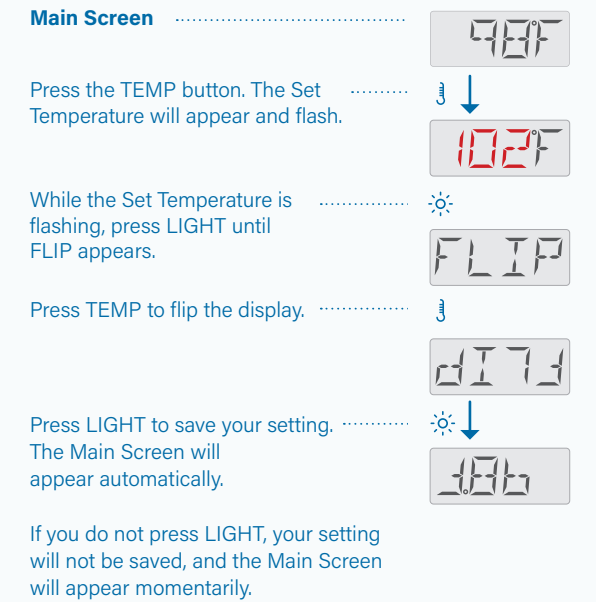●●● Pause / back to Main Screen / setting saved

INVERT DISPLAY

Follow this sequence to invert the display.

This display is inverted (A), and this display is not inverted (B).

SEQUENCE

Main Screen ....

98F

Press the TEMP button. The Set ....
Temperature will appear and flash.

102F

While the Set Temperature is ....
flashing, press LIGHT until
FLIP appears.

FLIP

Press TEMP to flip the display. ....

dIT7

Press LIGHT to save your setting. ....
The Main Screen will
appear automatically.

196

If you do not press LIGHT, your setting
will not be saved, and the Main Screen
will appear momentarily.

Follow the same sequence to restore
the default display orientation (B).

SET FILTER CYCLE DURATION

Main Filtration

- Most spas have one filter cycle per day, but some spas have two filter cycles per day.

- Your spa's Filter Cycle begins six minutes after the spa is powered On.

- You can adjust the Filter Cycle duration in 1-hour increments. The duration range is 1 - 24 hours.

- If your spa has one Filter Cycle, the Filter Cycle will run once every 24 hours.

- If your spa has two filter cycles, they will run once every 12 hours.

Set Filter Cycle Duration

In the following example we will set the Filter Cycle duration to 4 hours. Follow the same steps to set your desired duration.

Purge Cycles

The heater pump (view page 10) runs for the whole duration of the filter cycle.

In order to maintain sanitary conditions, secondary Pumps and/or a Blower will purge water from their respective plumbing by running briefly at the beginning of each filter cycle.

On some systems, purge cycles may run several times a day, independent of the filter cycle.

SEQUENCE KEY
(View page 2 for full description)
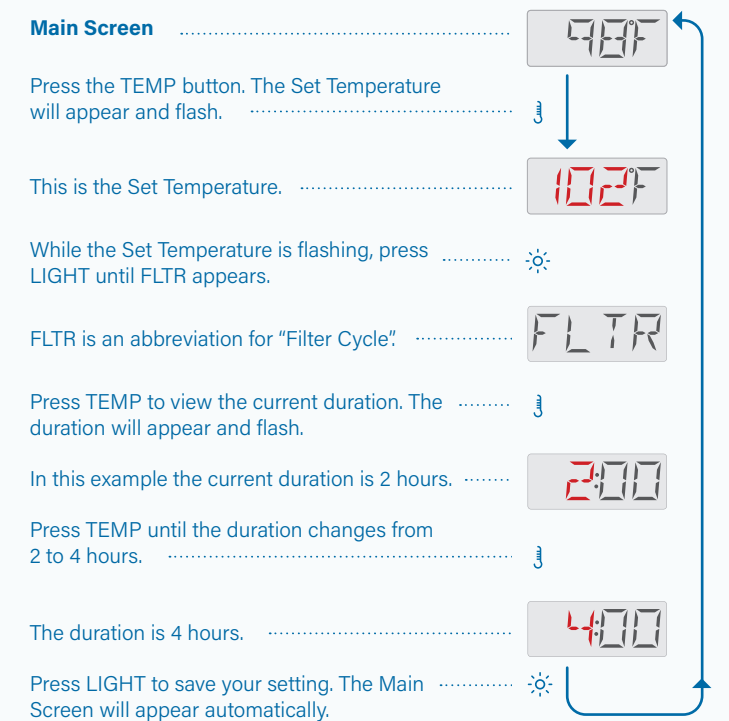
- 🔴 Flashing characters
- 🔵 Progressive message
- Press TEMP button for "action"
- ☼ Press LIGHT button to "select"
- ∘∘∘ Pause / back to Main Screen / setting not saved
- ●●● Pause / back to Main Screen / setting saved

SEQUENCE

Main Screen .... `98F`

Press the TEMP button. The Set Temperature will appear and flash. ....

This is the Set Temperature. .... `102F`

While the Set Temperature is flashing, press LIGHT until FLTR appears. ☼

FLTR is an abbreviation for "Filter Cycle". .... `FLTR`

Press TEMP to view the current duration. The duration will appear and flash. ....

In this example the current duration is 2 hours. .... `2:00`

Press TEMP until the duration changes from 2 to 4 hours. ....

The duration is 4 hours. .... `4:00`

Press LIGHT to save your setting. The Main Screen will appear automatically. ☼

SPA BEHAVIOR

FILTRATION AND OZONE

If your spa does not have a circulation pump, pump 1 low and the ozone generator will run during a filter cycle. If your spa has a circulation pump, the ozone will run with the circulation pump.

Most spas have one filter cycle per day, but some spas have two filter cycles per day. The first filter cycle occurs 6 minutes after power-up and then every 24 hours. The second filter cycle, if there is one, occurs 12 hours after the first one. The filter duration is programmable (view page 8).

On most systems at the start of each filter cycle, the blower (if there is one) or Pump 2 (if there is one) will run briefly to purge its plumbing to maintain good water quality.

On some systems, purge cycles may run several times a day, independent of the filter cycle.

FREEZE PROTECTION

If the temperature sensors within the control system's heater detect a low enough temperature, then the pump(s) and the blower automatically activate to provide freeze protection. The pump(s) and blower will run either continuously or periodically depending on conditions.

In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts similarly except with the temperature thresholds determined by the switch. See your dealer for details.

CLEAN-UP CYCLE *(Optional)*

When a pump or blower is turned on by pressing a button on the panel, a clean-up cycle begins 30 minutes after the pump or blower is turned off or times out. The pump and the ozone generator will run for 30 minutes or more, depending on the control system.

PUMPS

Press the **JETS** button once to turn Pump 1 On or Off, and to shift between low-speed and high-speed if equipped. If left running, Pump 1 will turn off after a time-out period.

The heater pump will run when the blower or any other pump is on.

If the spa is in Ready Mode (view page 11), Pump 1 low may also activate for at least 1 minute every once in a while to detect the spa temperature (polling) and then to heat to the set temperature if needed. When the low-speed turns on automatically, it cannot be deactivated from the panel, however the high speed may be started.

3 CIRCULATION PUMP MODES

If the spa is equipped with a circulation pump, it will be configured to work in one of the following three modes:

MODE 1: The circulation pump will operate continuously (24 hours) with the exception of turning off for 30 minutes at a time when the water temperature reaches 3°F (1.5°C) above the set temperature (most likely to happen in very hot climates).

MODE 2: The circulation pump will stay on continuously, regardless of the water temperature.

MODE 3: A programmable circulation pump will come on when the control system is checking the water temperature (polling), during filter cycles, during freeze conditions, or when another pump is on.

Circulation pump modes are determined by the Manufacturer and cannot be changed in the field.

HOW DOES YOUR CONTROL SYSTEM CHECK THE WATER TEMPERATURE?

The control system (A) activates a pump that circulates water from the spa through the water heater (B) shown below. The water heater contains two temperature sensors (C). When water flows around the sensors, the control system calculates the water temperature. This process is referred to as "polling" in this user guide.

HEATER PUMP

The heater pump is any pump dedicated to circulating water through the water heater. If your spa has a circulation pump, the circulation pump will serve as the heater pump. If your spa does not have a circulation pump, a two-speed pump will serve as the heater pump. If the heater pump is a two-speed pump, anytime it is activated automatically (for any reason, including to check the water temperature), it will activate at low speed.
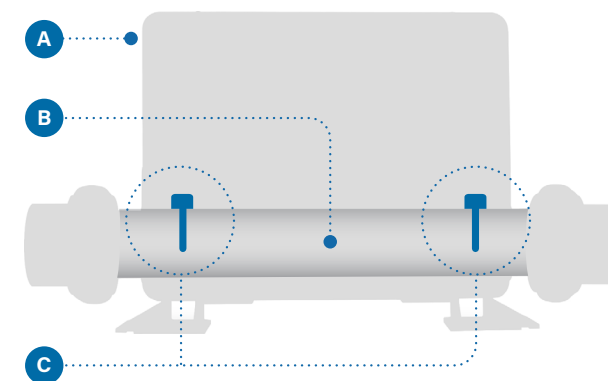
HEAT MODES

There are three Heat Modes

1 - READY MODE

Ready Mode usually keeps the water temperature close to the Set Temperature 24 hours a day. If you use your spa consistently, you probably want to use Ready Mode.

2 - REST MODE

Rest Mode only heats the water during filter cycles. If you do not use your spa for an extended period of time, you may want to use Rest Mode.
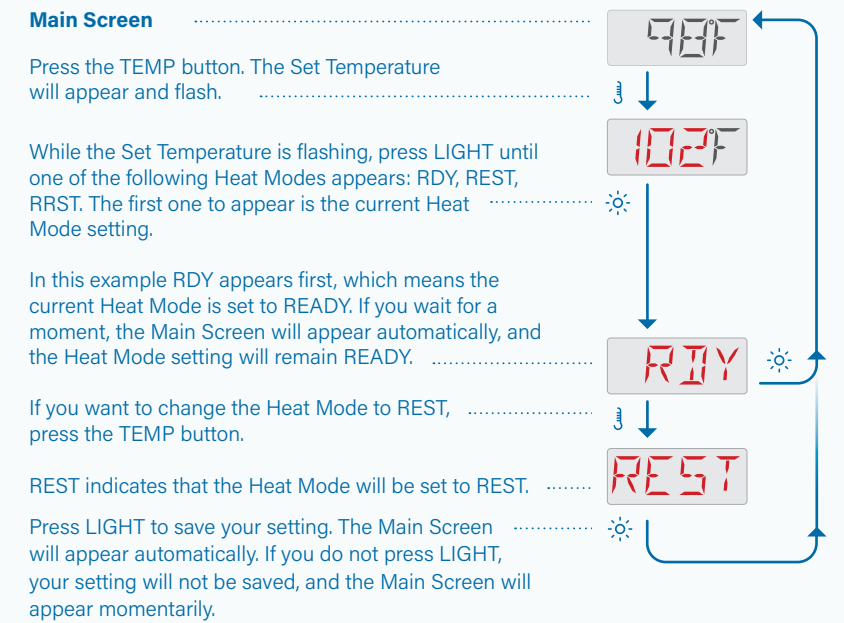
3 - READY-IN-REST MODE

This mode is a subfeature of Rest Mode. When your spa is in Rest Mode, and you press the JETS button, Rest Mode will automatically switch to Ready-In-Rest Mode for one hour. During this hour the control system will attempt to keep the water temperature close to the Set Temperature.

Follow this sequence to view the current Heat Mode and/or change the Heat Mode. There are two Heat Modes you can select from the panel menu:
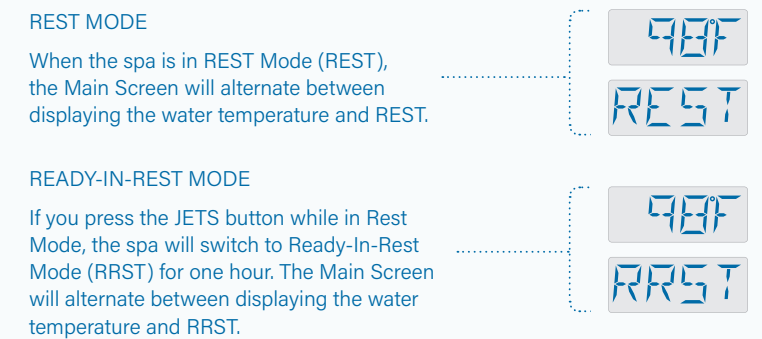
1 - Ready Mode (RDY)
2 - Rest Mode (REST)

Ready-In-Rest Mode (RRST) is a third Heat Mode. But, it is a subfeature of Rest Mode and is not selectable from the panel menu. However, when you follow the sequence to view the current Heat Mode, any of the three Heat Modes can be displayed as the current Heat Mode.

SEQUENCE

Main Screen ....   `98F`

Press the TEMP button. The Set Temperature will appear and flash. ....

While the Set Temperature is flashing, press LIGHT until one of the following Heat Modes appears: RDY, REST, RRST. The first one to appear is the current Heat Mode setting. ....   `102F`

In this example RDY appears first, which means the current Heat Mode is set to READY. If you wait for a moment, the Main Screen will appear automatically, and the Heat Mode setting will remain READY. ....   `RDY`

If you want to change the Heat Mode to REST, press the TEMP button. ....

REST indicates that the Heat Mode will be set to REST. ....   `REST`

Press LIGHT to save your setting. The Main Screen will appear automatically. If you do not press LIGHT, your setting will not be saved, and the Main Screen will appear momentarily.

NOTES

REST MODE

When the spa is in REST Mode (REST), the Main Screen will alternate between displaying the water temperature and REST.   `98F` `REST`

READY-IN-REST MODE

If you press the JETS button while in Rest Mode, the spa will switch to Ready-In-Rest Mode (RRST) for one hour. The Main Screen will alternate between displaying the water temperature and RRST.   `98F` `RRST`

FILL IT UP!

◢ PREPARATION AND FILLING

Fill the spa to its correct operating level. Be sure to open all valves and jets in the plumbing system before filling to allow as much air as possible to escape from the plumbing during the filling process. Air may be trapped in the plumbing after filling the spa. Remove trapped air by priming the pumps. Priming will be discussed shortly.

After powering On the spa at the main power panel, the spa panel display (view right) will go through a specific sequence. This sequence is normal and will display a variety of information regarding the configuration of the control system. After the sequence ends, the control system will start Priming Mode.

Spa Panel Display

◢ PRIMING MODE

Priming Mode will last for 4-5 minutes, or you can manually exit Priming Mode after the pump(s) have primed.

Regardless of whether Priming Mode ends automatically or you manually exit Priming Mode, the control system automatically returns to normal heating and filtering at the end of Priming Mode. During Priming Mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-water-flow or no-water-flow conditions. Nothing comes on automatically, but the pump(s) can be energized manually with the panel buttons.

◢ PRIMING THE PUMPS

This panel message (view right) indicates that the spa is in Priming Mode. Priming Mode lasts 4-5 minutes. Note: Turning the power Off and back On again will initiate a new pump priming session. If you need more than 4-5 minutes to prime all of the pumps, cycle power to the spa.

What is priming?

Priming removes trapped air from the plumbing. How do you know when a pump is done priming? Priming is complete when water flows from the jets without air bubbles. So, watch the jets as you prime the pump. If your spa has more than one pump, prime each pump one at a time. Why prime one at a time? If multiple pumps are running, it is too difficult to determine which pump is circulating air bubbles, or the flow from one pump may hide the flow from another pump.

Priming Mode Panel Message

RUN
PMPS
PURG
AIR
-- -- -- --

Follow these steps to prime a two-speed pump:

Press the button for that pump once to turn it On at low speed. Press the button again to run the pump at high speed. Run the pump at high speed for 2 minutes. If priming is not complete after 2 minutes, turn off the pump and repeat the process.

Follow these steps to prime any one-speed pump, including a circulation pump:

Press the button for that pump once to turn it On. Run the pump for 2 minutes. If priming is not complete after 2 minutes, turn off the pump and repeat the process.

Sometimes momentarily turning the pump Off and On will help it to prime. Do not do this more than 5 times. If the pump will not prime, shut off the power to the spa and call for service.

Which pump is the heater pump?

When the spa has just entered Priming Mode, press the LIGHT button and see if any water flows. If so, you have a circulation pump serving as the heater pump. If not, a two-speed pump serves as the heater pump. A circulation pump is controlled with the LIGHT button (in Priming Mode only). A two-speed heater pump is controlled by pressing the JETS button.

The heater pump is the most important pump to prime.

Once the heater pump is primed, prime any additional pumps. The AUX button may control one of these pumps.

IMPORTANT: A pump should not be allowed to run without priming for more than 2 minutes. Under NO circumstances should a pump be allowed to run without priming beyond the end of the 4-5 minute Priming Mode. Doing so may cause damage to the pump and in some cases may cause the system to energize the heater and go into an overheat condition.

◢ EXITING PRIMING MODE

Priming Mode ends automatically after for 4-5 minutes. However, you can manually exit Priming Mode during this time by pressing the TEMP button.

When Priming Mode ends (automatically or manually) the panel will display dashes. Once the control system cycles water through the heater for one minute, the dashes will be replaced by the water temperature.

PANEL MESSAGES

This chapter contains helpful information to help keep your spa running smoothly. All panel messages are listed and explained.

PANEL MESSAGES

GENERAL

| RUN | PMPS | PURG | AIR | ------ |

This message indicates that the spa is in Priming Mode.

Each time the spa is powered up, it will enter Priming Mode. The purpose of Priming Mode is to allow the user to run each pump and manually verify that the pumps are primed (air is purged) and water is flowing. This typically requires observing the output of each pump separately, and is generally not possible in

normal operation. Priming Mode lasts 4 minutes, but you can exit it earlier by pressing any Temp button. The heater is not allowed to run during Priming Mode.

NOTE: If your spa has a circulation pump, you can turn it On by pressing the LIGHT button during Priming Mode. The circulation pump will run by itself when Priming Mode is exited.

| -----F | ‹OR› | -----C |

The water temperature is unknown or out of date.

After the pump has been running for 1 minute, the temperature will be displayed.

This display may also appear if the pump has not run for more than one hour while the spa is in Ready Mode.

| 42F | TOO | COLD |

The water is too cold - freeze protection.

A potential freeze condition has been detected, or the Aux Freeze Switch has closed, so all pumps and blowers are activated. All pumps and blowers are ON for at least 4 minutes after the potential freeze condition has ended, or when the auxiliary freeze switch opens.

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.

| WATR | TOO | HOT | ------ |

The spa water is too hot.

One of the water temperature sensors has detected a spa water temperature of 110°F (43.3°C), so spa functions are disabled. The Control System will automatically reset when the spa water temperature is below 108°F (42.2°C). Extended pump operation or high ambient air temperatures can cause overheating.

| J29 |

J29 Warning.

J29 is a connector in the control system. J29 is typically used as a heater disable input. As such, it should not typically be shorted at power-up. This message appears if J29 is shorted at power-up. If this message appears after several power-ups, contact your dealer or service organization.
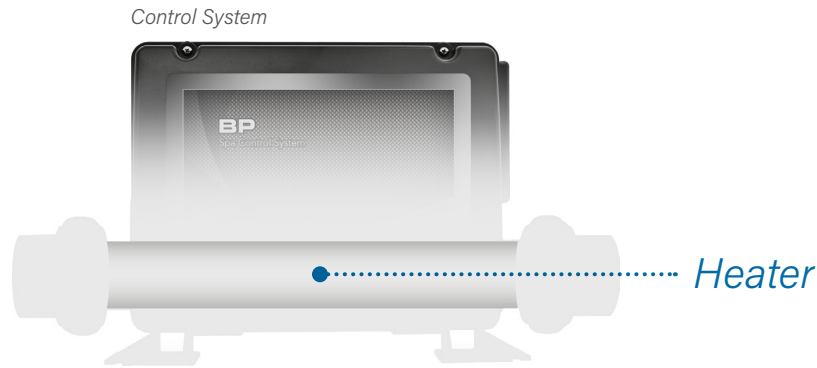
Water Flow Check List

- Make sure the spa is filled with enough water to allow proper water flow through all of the spa's plumbing.
- Closed valves can inhibit proper water flow.
- Jets may be equipped with water valves. If too many water valves are closed, proper water flow may be inhibited.
- Make sure suction covers are unobstructed and free of debris.
- One pump cycles water through the heater. All plumbing connected to this pump and the heater must be free from trapped air. Trapped air can restrict proper water flow. Remove trapped air by priming this pump.
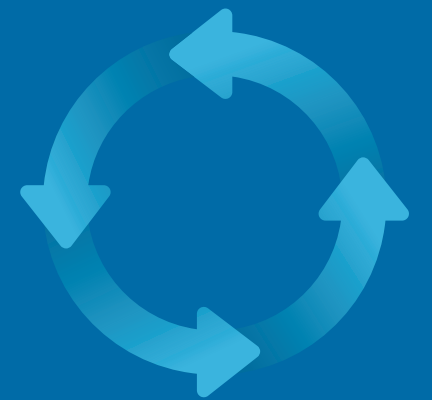
PANEL MESSAGES

HEATER RELATED

Control System

Heater

HTR FLOWLOSS - - - - - -

Low water flow through the heater. *

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 "Water Flow Check List" on page 18.

HTR FLOWFAIL - - - - - -

Inadequate water flow through the heater. *

There is not enough water flow through the heater to carry the heat away from the heating element, so the heater has been disabled. See "Water Flow Check List" on page 18. After the problem has been resolved, you must press any button on the panel to reset the control system and begin heater start up.

HTR MAY BE DRY - - - - - - WAIT - - - - - -

The heater may be dry. *

Possible dry heater, or not enough water in the heater to start it. The spa is shut down for 15 minutes. Press any button to reset the heater start-up. See "Water Flow Check List" on page 18.

HTR DRY - - - - - -

Heater is dry. *

There is not enough water in the heater to start it. The spa is shut down. After the problem has been resolved, you must press any button to reset and restart heater start up. See "Water Flow Check List" on page 18.

HTR TOO HOT - - - - - -

The heater is too hot. *

One of the water temp sensors has detected 118°F (47.8°C) in the heater and the spa is shut down. You must press any button to reset when water is below 108°F (42.2°C). See "Water Flow Check List" on page 18.

* This message can be reset from the panel with any button press.

* This message can be reset from the panel with any button press.

PANEL MESSAGES

TEMPERATURE SENSOR RELATED

Control System

Temperature
Sensor

Temperature
Sensor

A

B

Heater
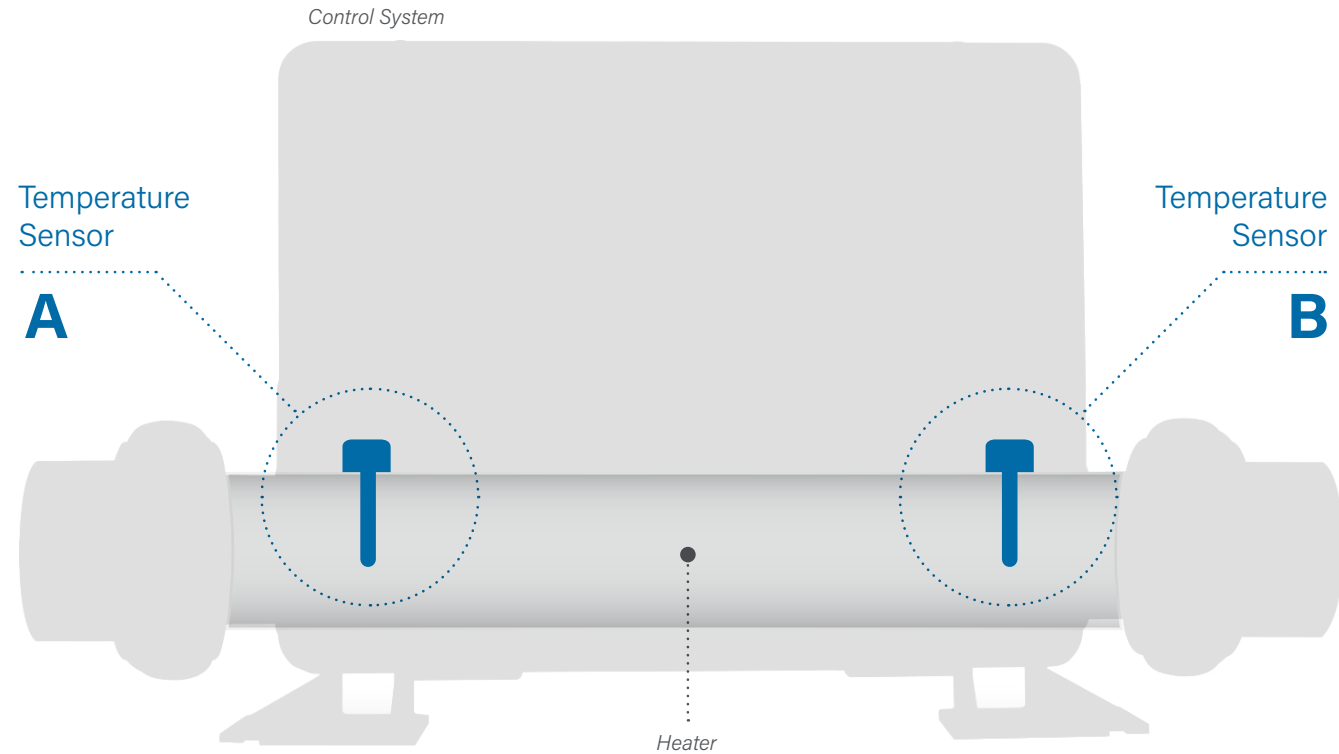
`102F SNSR BAL-ANCE`

The temperature sensor balance is poor.

The temperature sensors may be out of sync.

`SNSR SYNC ------ CALL FOR SRVC ------`

The temperature sensor balance is poor. *

The temperature sensors are out of sync. If this message appears in the panel display, this fault has been established for at least 1 hour. Contact your dealer or service organization.

`SNSR A ------ CALL FOR SRVC ------`

Temperature sensor "A" has failed.

Either temperature sensor "A" or the sensor circuit has failed. Contact your dealer or service organization.

`SNSR B ------ CALL FOR SRVC ------`

Temperature sensor "B" has failed.

Either temperature sensor "B" or the sensor circuit has failed. Contact your dealer or service organization.

---

* This message can be reset from the panel with any button press.

PANEL MESSAGES

MISCELLANEOUS

| NO | COMM |

No Communications.

The panel is not receiving communication from the control system.
Contact your dealer or service organization.

Control System   *No Communications*   Panel Cable   Panel

| 102°T |

°F or °C is replaced by °T.

The Control System is in Test Mode.
Contact your dealer or service organization.

PANEL MESSAGES

CONTROL SYSTEM RELATED

| MEM | FAIL | ------ |

Memory Failure - Checksum Error. *

At Power-Up, the system has failed the Program Checksum
Test. This indicates a problem with the firmware (operation
program). Contact your dealer or service organization.

| MEM | RSET | ------ |

Memory Warning - Persistent Memory Reset. *

Appears after any system setup change. Contact your dealer
or service organization if this message appears on more
than one power-up, or if it appears after the system has been
running normally for a period of time.

| CLOC | FAIL | ------ |

Clock Error. *

The clock that keeps track of time when the spa is powered Off
has failed. Contact your dealer or service organization.
Note: Not Applicable on some control systems.

| CNFG | FAIL | ------ | CALL | FOR | SRVC | ------ |

Configuration Error – Spa will not Start Up.

Contact your dealer or service organization.

* This message can be reset from the panel with any button press.

`GFCI FAIL ------`

GFCI Failure - System Could Not Trip the GFCI.

NORTH AMERICA ONLY. May indicate an unsafe installation.
Contact your dealer or service organization.

`STUK PUMP ------`

A Pump Appears to be Stuck ON.

Water may be overheated.
POWER DOWN THE SPA. DO NOT ENTER THE WATER.
Contact your dealer or service organization.

`HOT FALT ------ CALL FOR SRVC ------`

A Pump Appears to have been Stuck ON when spa was last powered.

POWER DOWN THE SPA. DO NOT ENTER THE WATER.
Contact your dealer or service organization.

`WATR LEVL`

The water level is too low.

Some systems have a water level detector, and this message appears if it detects that the water level is too low. Pumps are shut down until this problem clears.

PANEL MESSAGES

REMINDER

General maintenance helps your spa.

Reminder messages alternate with the Main Screen.

Reminder Messages can be chosen individually by the Manufacturer. They may be disabled entirely, or there may be a limited number of Reminders on a specific model.

The frequency of each Reminder (i.e. 7 days) can be specified by the Manufacturer.

Press a Temperature button to reset a displayed Reminder Message.

Main Screen
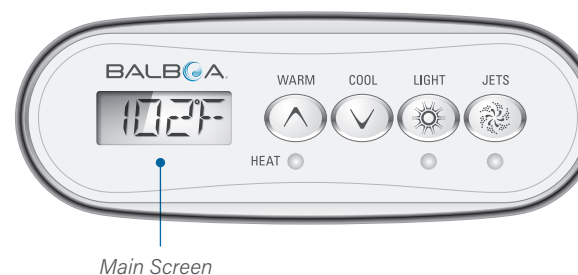
`CHEK PH`

Check pH

This message may appear every 7 days. Check the pH of your spa's water with a pH test kit, and adjust pH with the appropriate chemicals.

`CHEK CHEM`

Check the sanitizer chemicals

This message may appear every 7 days. Check sanitizer level and other water chemistry with a test kit and adjust with the appropriate chemicals.

`CLN FLTR`

Clean the water filter.

This message may appear every 30 days. Clean the filter media as instructed by the manufacturer.

`TEST GFCI`

Test the GFCI or RCD.

This message may appear every 30 days. The Ground Fault Circuit Interrupter (GFCI) or Residual Current Device (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 associated with the hot tub installation.

A GFCI or RCD will have a TEST and RESET button on it that allows a user to verify proper function.

Warning:

If freezing conditions exist, and the spa has powered down, the GFCI or RCD should be reset immediately or spa damage could result. If the GFCI or RCD does not reset and freezing conditions exist, drain the spa of all water until the spa is functional again.

The end user should always trained to test and reset the GFCI or RCD on a regular basis.

`CHNG WATR`

Change the spa water.

This message may appear every 90 days. Change the water in the spa on regular basis to maintain proper chemical balance and sanitary conditions.

`CLN COVR`

Clean the spa cover.

This message may appear every 180 days. Vinyl covers should be cleaned and conditioned for maximum life.

`TRT WOOD`

Treat the wood.

This message may appear every 180 days. Wood skirting and furniture should be cleaned and conditioned per the manufacturers instructions for maximum life.

`CHNG FLTR`

Change the water filter.

This message may appear every 360 days. Filters should be replaced occasionally to maintain proper spa function and sanitary conditions.

`CHNG CART`

Change the mineral cartridge as needed.

Install a new mineral cartridge per you spa manufacturer's instructions.

`CHEK OZ`

Check the ozone and/or UV generator.

This message may appear every 360 days. Check your ozone and/or UV generator per your spa manufacturer's instructions.

`SRVC CHEK`

Your spa needs a service check.

This message may appear every 365 days. Contact your service organization for a service check.

WARNING! Qualified Technician Required for Service and Installation.

Basic Installation and Configuration Guidelines

- Use minimum 6AWG copper conductors only.
- Torque field connections between 21 and 23 in lbs.
- Readily accessible disconnecting means to be provided at time of installation.
- Permanently connected.
- Connect only to a circuit protected by a Class A Ground Fault Circuit Interrupter (GFCI) or Residual Current Device (RCD) mounted at least 5' (1.52M) from the inside walls of the spa/hot tub and in line of sight from the equipment compartment.
- CSA enclosure: Type 2
- Refer to Wiring Diagram inside the cover of the control enclosure.
- Refer to Installation and Safety Instructions provided by the spa manufacturer.

Warning: People with infectious diseases should not use a spa or hot tub.

Warning: To avoid injury, exercise care when entering or exiting the spa or hot tub.

Warning: Do not use a spa or hot tub immediately following strenuous exercise.

Warning: Prolonged immersion in a spa or hot tub may be injurious to your health.

Warning: Maintain water chemistry in accordance with the Manufacturers instructions.

Warning: The equipment and controls shall be located not less than 1.5 meters horizontally from the spa or hot tub.

Warning! GFCI or RCD Protection.

The Owner should test and reset the GFCI or RCD on a regular basis to verify its function.

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.

CSA Compliance/Conformité

Caution:

- Test the ground fault circuit interrupter or residual current device before each use of the spa.
- Read the instruction manual.
- Adequate drainage must be provided if the equipment is to be installed in a pit.
- For use only within an enclosure rated CSA Enclosure 3.
- Connect only to a circuit protected by a Class A ground fault circuit interrupter or residual current device.
- To ensure continued protection against shock hazard, use only identical replacement parts when servicing.
- Install a suitably rated suction guard to match the maximum flow rate marked.

Warning:

- Water temperature in excess of 38°C may be injurious to your health.
- Disconnect the electrical power before servicing.

Attention:

- Toujours verifier l'efficacite du disjoncteur differentiel avant d'utiliser differentiel avant d'utiliser le bain.
- Lire la notice technique.
- Lorsque l'appareillage est installe dans une fosse, on doit assurer un drainage adequat.
- Employer uniquement a l'interieur d'une cloture CSA Enclosure 3.
- Connecter uniquement a un circuit protege par un disjoncteur differentiel de Class A.
- Afin d'assurer une protection permanente contre le danger de shock electrique, lors de l'entretien employer seulement des pieces de rechange identiques.
- Les prises d'aspiration doivent etre equipees de grilles convenant au debit maximal indique.

Avertissement:

- Des temperatures de l'eau superieures a 38°C peuvent presenter un danger pour la sante.
- Deconnecter du circuit d'alimentation electrique avante l'entretien.

Warning/Advertissement:

- Disconnect the electric power before servicing. Keep access door closed.
- Deconnecter du circuit d'alimentation electrique avant l'entretien. Garder la porte fermer.

INFORMATION

TP200 SUPPORT

Trademark | Patent Notices

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TP200 PANEL

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