

# BP501UX Tech Sheet

**Customer:** Balboa Water Group

**Part Number:** 59611 4.0kW 800 Incoloy  
59612 5.5kW 800 Incoloy

Custom Box Overlay   
Box Overlay Part Number N/A

UL System Model For 5.5kW: BP501-BP501UX-BU  
UL System Model For 4.0kW: BP501-BP501UX-BS  
Software Version ID: M100\_201 V65.0  
Software Version: 65.0  
File Name: BP501\_65.0\_BP501UX.hex  
Configuration Signature: F4C629C5

Eng. Project Number: 5813

Control Panels (See later pages for more information):

spaTouch™ 3 Any version (version 3.2 or later required for Clim8zone™ heat pump support)  
spaTouch™ 2 Any version (version 2.19 or later required for CHROMAZON™ support; version 2.36 or later required for Clim8zone™ heat pump support)  
Icon spaTouch™ Any version (version 3.36 or later required for bba™ 2 fully integrated functionality)  
Menued spaTouch™ Any version (version 2.8 or later required for bba™ 2 integrated functionality)  
TP900 Version 3.1 and later (Version 3.13 or later required for bba™)  
TP800 Version 3.1 and later (Version 3.13 or later required for bba™; version 4.11 or later required for bba™ 2 integrated functionality)  
TP700/TP740 Any version (version 1.27 or later required for Clim8zone™ heat pump support)  
TP600 Version 2.7 and later (Version 2.12 or later required for bba™/bba™ 2 On/Off control via menu)  
TP500\* Any version  
TP400T US\* Version 2.7 and later (TP400T CE may be used) (Version 2.12 or later required for bba™/bba™ 2 On/Off control via menu)  
TP400W US\* Version 2.7 and later (TP400W CE may be used) (Version 2.12 or later required for bba™/bba™ 2 On/Off control via menu)  
TP200T\* Any version  
TP200W\* Any version

\* The TP500, TP400T, and TP200T only work in Setups 3, 4, & 7 - 10. The TP400W and TP200W only work in Setups 9 & 10.



Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. © Copyright 2009 Balboa Water Group.

**BALBOA**  
water group

# System Revision History

Part #	EPN	Date	Originator	Changes Made
59611 59612	5813	09-21-23	BWG	Generic BP501UX system, with an optional user-installed expander board (the expander board mounting hardware is pre-installed).

bba™ 2 / bba™ 3 (Balboa Bluetooth Amp) connection is documented separately.

bba™ 2 / bba™ 3 is integrated into graphic display panels (TP700, TP800, TP900 and spaTouch™).

With TP600/TP500/TP400/TP200, use the “BT” entry on the menu to toggle bba™2 / bba™3 power On/Off.

# Basic Functions Setup 1 - 10

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## Power Requirements:

240VAC, 50/60Hz\*, 48A, Class A GFCI-protected service (Circuit Breaker = 60A max.),  
4 wires [hot, hot, neutral, ground]

120/240VAC, 50/60Hz\*\*, 16/40A, Class A GFCI-protected service (Circuit Breaker = 20/50A max.) - Setups 9 & 10 ONLY,  
3 or 4 wires [hot, hot (optional), neutral, ground].

### \*\*NOTE:

The above 120V spec is only when using a wall-mount GFCI / breaker.

If using a GFCI cord, the breaker is 15A and so the service is limited to 12A.

\*BP systems automatically detect 50Hz vs 60Hz. However, power frequency (50Hz vs 60Hz) is just one of many differences between North American (UL) and CE power, and it is because of these other differences that different BP systems must be used for UL vs CE territories. Also, there are a few countries that use CE power but 60 Hz (such as South Korea) which need CE systems, and a few countries that use UL power but 50 Hz which need UL systems.

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### HiPot Testing Note:

Disconnect slip terminal with green wires from J52 prior to performing HiPot test. Failure to disconnect may cause a false failure of the test. Reconnect terminal to J52 after successful completion of HiPot test.

# Basic Functions Setup 1 - 10

## System Outputs:

Pump 1	240VAC*	2-Speed	12A max	15-minute timer (30-minute timer for P1 Low in non-circ setups only) in Setups 1, 3, 5, 7 & 9 this is the heater pump. Must deliver 20 GPM through heater NOTE: A circ pump cannot be used with a 2-speed pump in this system. See the BP501G2. 1 Speed in Setups in Setups 2, 4, 6, 8 & 10
Pump 2	240VAC	1-Speed	12A max	15-minute timer Used in Setups 1, 2, 7 & 8
Pump 3	240VAC	1-Speed	12A max	15-minute timer Used in Setups 5 & 6
Blower	240VAC	1-Speed	4A max	15-minute timer Used in Setups 1 - 4
Circ Pump	240VAC*	1-Speed	2A max	Programmable Filtration Cycles + Polling This is the heater pump in Setups 2, 4, 6, 8 & 10. Must deliver 20 GPM through heater
Ozone	240VAC*		.5A max	Slaved to Circ Pump in Circ Setups and to Pump 1 Low in Non-Circ Setups
Spa Light	10VAC	On/Off	2A** max	240-minute timer.
AV + C8Z***	240VAC	Hot	2A + 8A max	Always on
Heater	4.0kW @ 240VAC max 5.5kW @ 240VAC max			

\*Pump 1, Circ Pump and Ozone must be the same voltage.

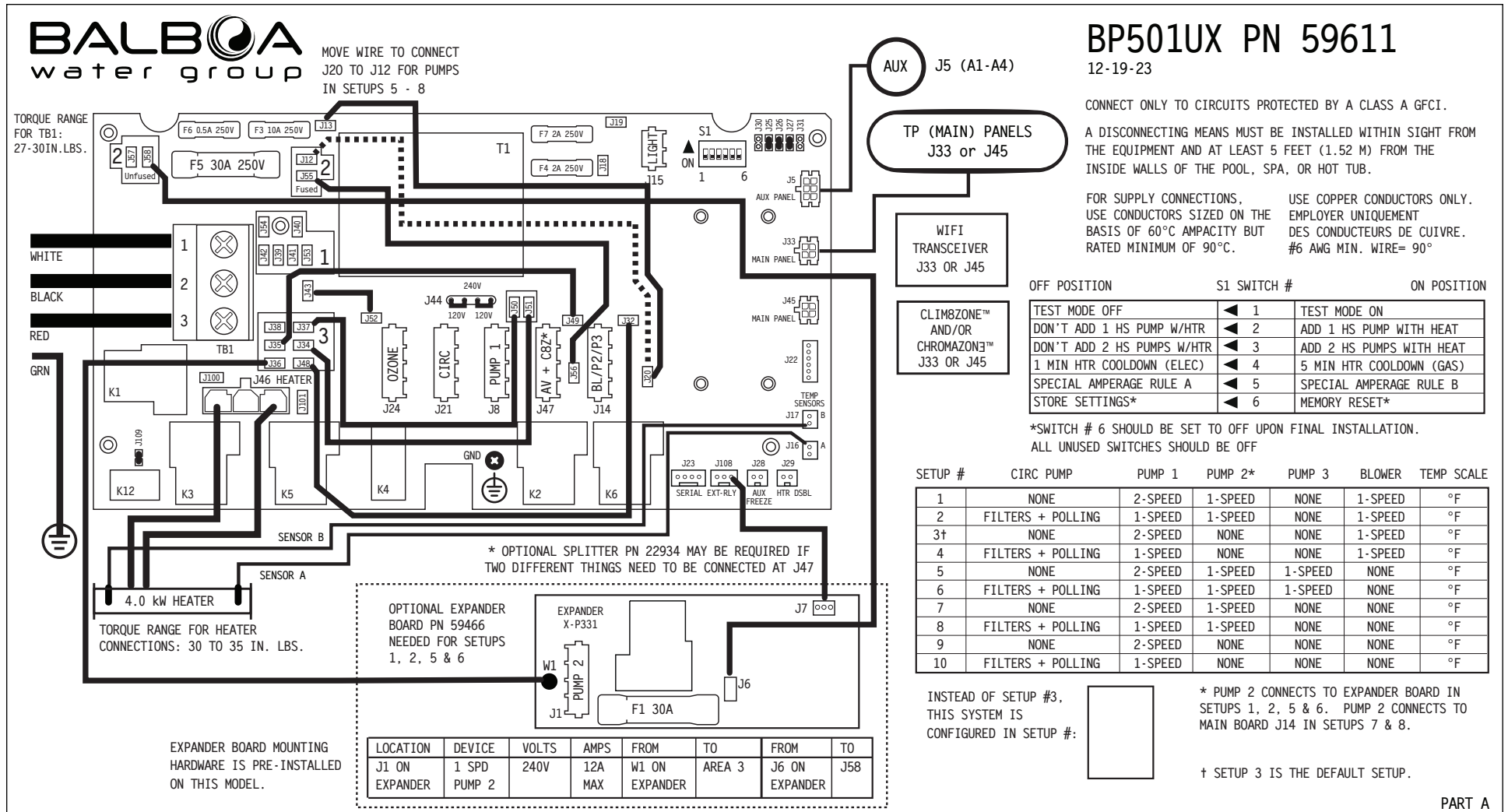
With 120VAC power input (for Setups 9 & 10 only), Pump 1, Circ pump and Ozone must be set to 120VAC by moving wires attached to J50 and J51 to area 1 (Neutral).

\*\* 2A max limit is shared by On/Off Spa Light and CHROMAZON™.

\*\*\* Optional splitter PN 22934 can be used to connect two things, such as an audio device and Clim8zone™ (C8Z), to J47.

# Hardware Setup

## Wiring Diagram



# Setup Reference Table

Setup #	Circ Pump	Pump 1	Pump 2	Pump 3	Blower	Temp Scale
1	None	2-Speed	1-Speed	None	1-Speed	°F
2	Programmable Filtration + Polling	1-Speed	1-Speed	None	1-Speed	°F
3	None	2-Speed	None	None	1-Speed	°F
4	Programmable Filtration + Polling	1-Speed	None	None	1-Speed	°F
5	None	2-Speed	1-Speed	1-Speed	None	°F
6	Programmable Filtration + Polling	1-Speed	1-Speed	1-Speed	None	°F
7	None	2-Speed	1-Speed	None	None	°F
8	Programmable Filtration + Polling	1-Speed	1-Speed	None	None	°F
9	None	2-Speed	None	None	None	°F
10	Programmable Filtration + Polling	1-Speed	None	None	None	°F

**System (and any replacement board) is shipped in Setup 1**

As shown on additional wiring diagram section:

OPTIONAL 120VAC CONFIG FOR SETUPS 9 & 10 ONLY:

WITH GFCI CORD. SERVICE IS 12A\_MAX.

16A\_SERVICE REQUIRES WALL-MOUNT 20A GFCI / BREAKER.

\*\*PUMP 1, CIRC AND OZONE MUST BE WIRED TO 120VAC WHEN SYSTEM IS CONFIGURED WITH 120VAC POWER INPUT/GFCI CORD (SETUPS 9 & 10 ONLY). J50 AND J51 MUST BE CONNECTED TO AREA 1 (NEUTRAL).

## BP501UX PN 59611

12-19-23

LOCATION	DEVICE	VOLTS	MAX AMPS	FROM	TO
J8	2/1-SP PUMP 1	240V**	12A MAX	J50, J51	AREA 3
J14	1-SP PUMP 2/3*	240V	12A MAX	J32	AREA 3
J14	BLOWER OPT	240V	4A MAX	J32	AREA 3
J15	SPA LIGHT	10V	2A		
J21	CIRC	240V**	2A MAX		
J24	OZONE	240V**	0.5A		
	CIRC AND OZONE LINE 1 CONNECTION			J51	AREA 3
J47	AV + CLIMBZONE™ (C8Z)	240V	2A + 8A	J49	AREA 3
J46	HEATER	240V	4.0 kW		

\* PUMP 2 IS AT J14 IN SETUPS 7 & 8.  
PUMP 3 IS AT J14 IN SETUPS 5 & 6.

\*\*PUMP 1, CIRC AND OZONE ALL MUST BE THE SAME VOLTAGE.

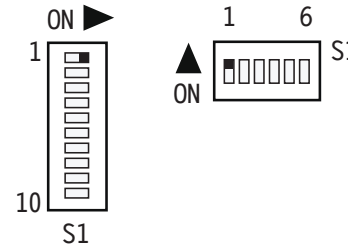
PART B

# Changing Software Setups with spaTouch™ Icon-Driven Panels

## Test Menu Access (S1, Switch 1 ON) *Service Technician ONLY.*

**DANGER! HIGH VOLTAGE WILL BE ACCESSIBLE! SERVICE TECHNICIAN ONLY!**

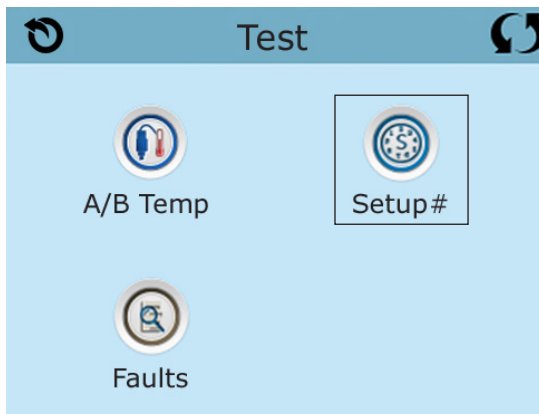
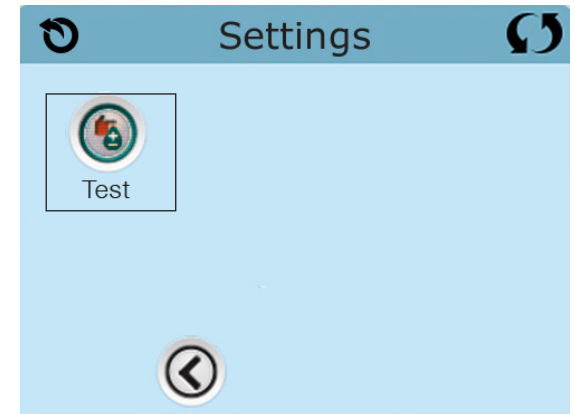
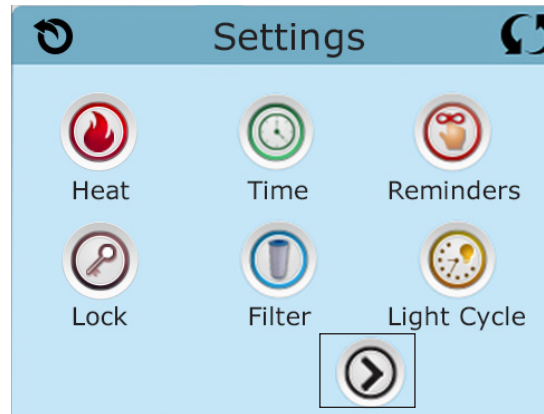
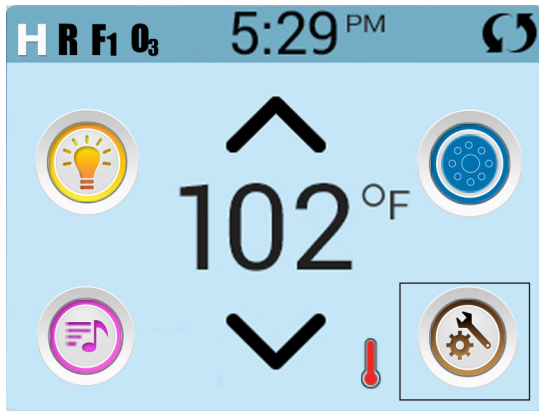
While the system is running, move DIP Switch 1 (on S1 on the Main circuit board) to ON. The system will enter Test Mode. Moving DIP Switch 1 to OFF will exit Test Mode.



The example screens shown here are from the spaTouch 1 Icon-Driven Panel, but the screens on the spaTouch 2 Panel are similar. The main difference is that the spaTouch 2 display is wider.

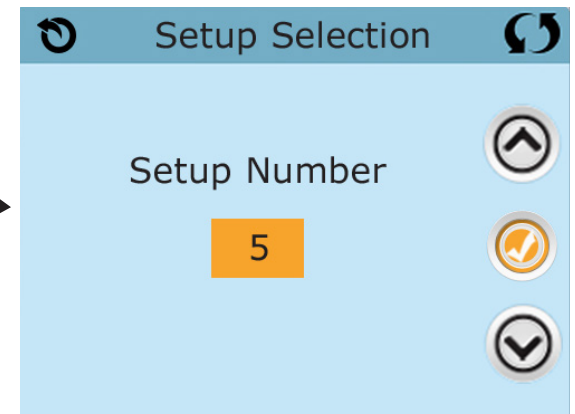
## To Change Software Setups:

While in Test Mode, press the indicated icons to move from screen to screen.



Once on the Setup Selection screen, press the Up or Down icon to select the desired Setup Number, then press the Check Mark icon to confirm and to have the spa restart.

After the system restarts, you may see a message that "The settings have been reset"; this is normal after changing Setups with DIP Switch 6 in the OFF position. Press "Clear" to dismiss this message.

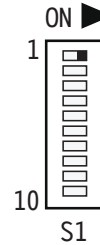


# Changing Software Setups with TP800 / TP900 / spaTouch™ Menued Panel

## Test Menu Access (S1, Switch 1 ON) *Service Technician ONLY.*

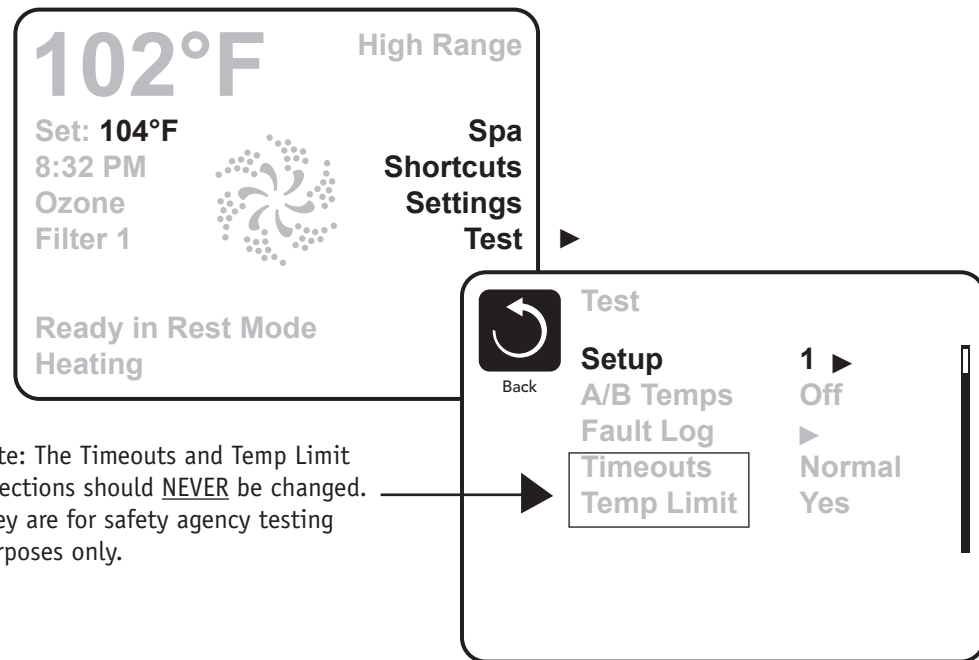
**DANGER! HIGH VOLTAGE WILL BE ACCESSIBLE! SERVICE TECHNICIAN ONLY!**

While the system is running, move DIP Switch 1 (on S1 on the Main circuit board) to ON.  
The system will enter Test Mode.  
Moving DIP Switch 1 to OFF will exit Test Mode.



## Software Setups

Under the TEST Menu, the Setup screen will allow changing the Setup from 1 to any number established by the Manufacturer.  
Changing the Setup may require wiring changes as well.



Note: The Timeouts and Temp Limit selections should NEVER be changed. They are for safety agency testing purposes only.

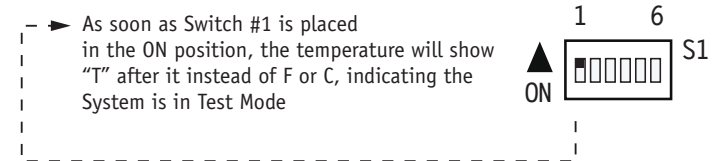


# Changing Software Setups with TP600/TP500/TP400/TP200

## Test Menu Access (S1, Switch 1 ON) *Service Technician ONLY.*

**DANGER! HIGH VOLTAGE WILL BE ACCESSIBLE! SERVICE TECHNICIAN ONLY!**

While the system is running, move DIP Switch 1 (on S1 on the Main circuit board) to ON. The system will enter Test Mode. Moving DIP Switch 1 to OFF will exit Test Mode.



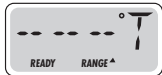
## Software Setups

Under the TEST Menu, the Setup screen will allow changing the Setup from 1 to any number established by the Manufacturer. Changing the Setup may require wiring changes as well.

**You will have 1 minute** to complete the Setup change after you manually exit Priming Mode. (Once familiar with the process, the Setup change should take less than 15 seconds.)



When the panel displays RUN PMPS PURG AIR, press any Temperature button ONCE to exit Priming Mode. You should see “---T” where the T indicates the system is in Test Mode.



Continued on Next Page.

# Changing Software Setups with TP600/TP500/TP400/TP200 Continued

Again, **You will have 1 minute** to complete the setup change after you manually exit Priming Mode.

NOTE: Wherever the below says Warm or Temp followed by Light, on the TP500 press Menu instead of Warm or Temp followed by Light. And whenever the chart below says Light, on the TP500 press Menu instead of Light.

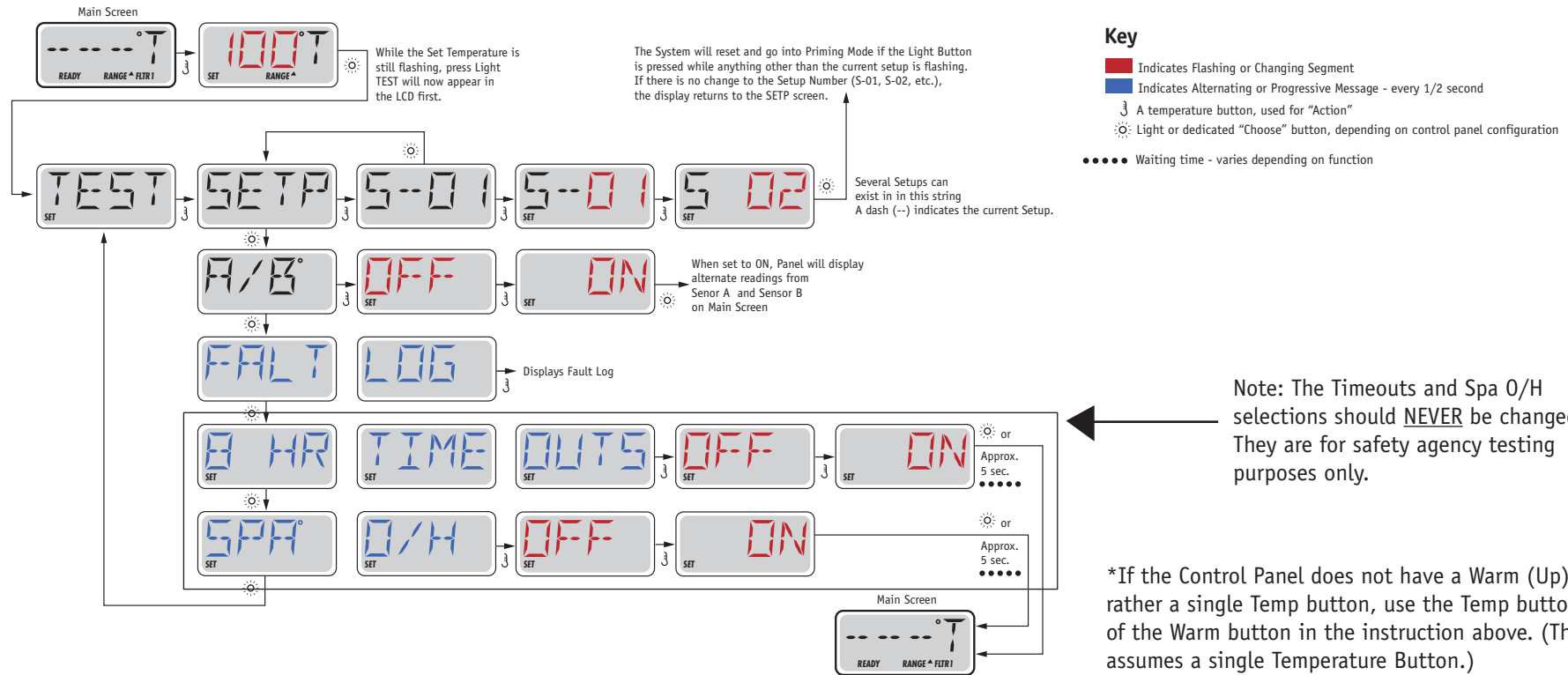
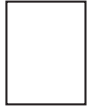
Immediately after exiting Priming Mode, press this sequence of buttons: Warm\*, Light, Warm, Warm, Warm, Warm. Continue to press Warm until the display shows the Setup Number (S-01, S-02, etc.) you want to switch to. When the correct Setup Number is showing, press Light once, and the system will reset, using the newly-selected Setup from that point on.

Move DIP Switch 1 to the OFF position to take the spa out of Test Mode. °F or °C will replace °T.

**Using a permanent marker, write the Setup number on the Setup label mounted inside the system lid (right). This is very important to any service person in the future who may need to replace a circuit board or system and needs to change the Setup on a replacement part while in the field.**

NOTE: Changing the Setup may require wiring changes as well - refer to the wiring diagram or wiring diagram addendum.

THIS SYSTEM IS CONFIGURED AS SETUP #



# Equipment Expansion

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## Expansion Features

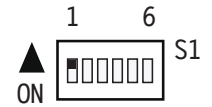
### Control Connection

	<b>Default</b>	<b>Fuse</b>
Relay 1/2 (J108) in Setups 3, 4, & 7 - 10	None (As Manufactured)	N/A
Relay 1/2 (J108) in Setups 1, 2, 5 & 6	1-Speed Pump 2	30A

# DIP Switch Functions

## Fixed-function DIP Switches

- A1 Test Mode (normally Off).
- A2 In "ON" position, add one high-speed pump (or blower) with Heater.
- A3 In "ON" position, add two high-speed pumps (or 1 HS Pump and Blower) with Heater.
- A5 In "ON" position, enables Special Amperage Rule B. See Special Features section under Configuration Options for functionality with your system.  
In "OFF" position, enables Special Amperage Rule A.
- A6 Persistent memory reset (Used when the spa is powering up to restore factory settings as determined by software configuration).



**A2 and A3** work in combination to determine the number of high-speed devices and blowers that can run before the heat is disabled. i.e. A2 and A3 in the ON position will allow the heater to operate with up to 3 high-speed pumps (or two HS Pumps and Blower) running at the same time. Heat is disabled when the fourth high-speed pump or blower is turned on.





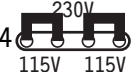
**Note:** A2/A3 all off = No heat with any high-speed pump or blower.

## Assignable DIP Switches

- A4 In "ON" position, enables a 5-minute cooldown for some gas heaters (Cooling Time B).  
In "OFF" position, enables a 1-minute cooldown for electric heaters (Cooling Time A).

*Undesignated switches are not assigned a function.*

# Jumper Definitions

<b>J109</b>	<p>GFCI Test/Trip Enable/Disable</p> <p><b>Note:</b> <i>This feature must be enabled in software as well.</i></p>	<p>J109 </p>
<b>J30</b>	<p>Do Not Use</p>	
<b>J31</b>	<p>Non Applicable on UL models <i>(Used on CE models only)</i></p>	<p>J31 </p>
<b>J29</b>	<p>Heater Disable Switch Connection. If J29 is shorted by any means, the heater will not run until J29 is no longer shorted. If J29 is shorted during power-up “J29” will appear on the panel. The message can be dismissed with a button press, and is the only control panel notification of J29 being shorted. No message is displayed if J29 is shorted after power-up, but the heater will not run until J29 is no longer shorted. J29 expects a switch closure (not a voltage) as the command signal. In some areas, a local power company may offer discounts based on voluntary “power shedding” devices that may be installed in conjunction with the spa.</p>	<p>J29 </p>
<b>J25, J26, J27</b>	<p>Heater Type Settings.</p> <p><b>Note:</b> <i>Factory Configured do not change.</i></p>	<p> J25 J26 J27</p>
<b>J44</b>	<p>Jumper on center two pins (230V) when no neutral wire is used (240V-dedicated). Two Jumpers installed; one on left 2 pins and one on right 2 pins (115V) when neutral wire is used.</p>	<p>J44 </p>

## Warning!

Setting DIP switches or jumpers incorrectly may cause abnormal system behavior and/or damage to system components. Refer to Switchbank illustration on Wiring Configuration page for correct settings for this system. Contact Balboa if you require additional configuration pages added to this tech sheet.

# Replacement Parts

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## PCBA:

Main PCBA: 59613  
Expander PCBA (user-installed): 59466

## HEATER(s):

Plug + Click Heater Kit: 58104R16 4.0kW 800Inc  
58083R16 5.5kW 800Inc  
Temp Sensor Kit: 53605

## CABLES:

21302 Jumper 120V Heater

## FUSES:

Part Number	Amperage*	Location
30136	30A	F5
26307	2A	F4, F7
26905	0.5A	F6
26904	10A	F3

\* The amperages shown above are only intended for identifying fuses on our boards. They are not complete descriptions of those fuses. Please use the part numbers at the left to order fuses directly from Balboa.

# BP501 Configuration Options

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## General Features

Feature	Default	
Pump 1 in Filter Cycle (Circ Only)	No	
Pump 1 Low Timer	<i>30 Minutes</i>	Applies in non-circ Setups (configurations) only
General Pump Timer	15 Minutes	
Blower Timer	15 Minutes	
Mister Timer	15 Minutes	
Light Timer	240 Minutes	
Circ (when enabled)	Programmable + Polling	
Cleanup Cycle	<i>30 Minutes</i>	
Cleanup as Preference setting	<i>Yes</i>	
Ozone	With Heater Pump*	
Ozone Suppression	OFF	
Pump Purge	60 Seconds	
Blower Purge	30 Seconds	
Mister Purge	5 Seconds	
Purge Type	Serial - Pumps at lowest speed	

\* The heater Pump can be either a Circ Pump or Pump 1 Low.

# BP501 Configuration Options

## Temperature Features

Feature	Default
Temperature Display	°F

All temperatures must be specified in °F. The system converts °F to °C dynamically. If Celsius is required for default settings, choose a desired °C value that (after rounding) corresponds to a Fahrenheit value.

°C	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
°F	39	41	43	45	46	48	50	52	54	55	57	59	61	63	64	66	68	70	72
°C	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
°F	73	75	77	79	81	82	84	86	88	90	91	93	95	97	99	100	102	104	

Hi-Range Min. Set Temp	80°F
Hi-Range Max. Set Temp	104°F
Hi-Range Default Temp*	100°F
Lo-Range Min. Set Temp	50°F
Lo-Range Max. Set Temp	99°F
Lo-Range Default Temp*	70°F
Freeze Threshold	44°F
Freeze Type	Rotating - Pumps at Lowest Speed
Temp Lock Type	Temp + Settings

\*May be changed by end-user (if enabled)

Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. © Copyright 2009 Balboa Water Group.



# BP501 Configuration Options

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## Time Features

Feature	Default
Time Format*	12 Hour
Filter 1 Start Hour*	20:00 (8:00 PM)
Filter 1 Duration*	2 Hours
Filter Cycle 2 Default*	OFF
Filter 2 Start Hour*	08:00 (8:00 AM)
Filter 2 Duration*	15 Minutes
Light Cycle	Disabled
Light Cycle Default*	OFF
Light Cycle Start Hour*	21:00 (9:00 PM)
Light Cycle Duration*	15 Minutes
Cooling Time A	1 Minute
Cooling Time B	5 Minutes

*\*May be changed by end-user (if enabled)*

Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. © Copyright 2009 Balboa Water Group.

# BP501 Configuration Options

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## Reminder Features

Feature	Default
Reminders Shown*	<i>Yes</i>
Check pH	<i>OFF</i>
Check Sanitizer	<i>OFF</i>
Clean Filter	30 Days
Test GFCI	<i>65 Days</i>
Drain Water	<i>100 Days</i>
Change Cartridge	OFF
Clean Cover	<i>OFF</i>
Treat Wood	<i>OFF</i>
Change Filter	365 Days

*\*May be changed by end-user (if enabled)*

Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. © Copyright 2009 Balboa Water Group.

# BP501 Configuration Options

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## Special Features

### Feature

### Default

Special Amperage Rule A

No Limitation

Special Amperage Rule B

2 high-speed pumps max. Blower turns off with 2 high speed pumps.

Drain Mode

Disabled

Demo Mode

Disabled

GFCI Trip

Enabled

Automatic GFCI Test

Disabled

Ozone Slaved to Heater Pump

Yes

Dual Voltage Heater

Always Input Voltage

Safety Suction

Disabled

# TP900 Panel Configuration

**Button Layout Table**

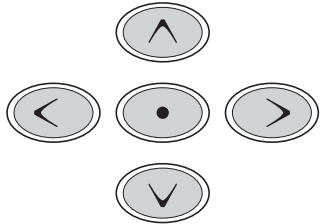
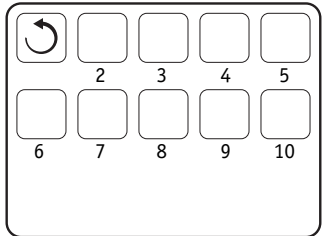
Feature #	Setup 1	Setup 2	Setup 3	Setup 4	Setup 5	Setup 6	Setup 7	Setup 8	Setup 9	Setup 10
A1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A2	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
A3	Jets 2	Jets 2	Blower	Blower	Jets 2	Jets 2	Jets 2	Jets 2	Light 1	Light 1
A4	Blower	Blower	Light 1	Light 1	Jets 3	Jets 3	Light 1	Light 1	Invert	Invert
A5	Light 1	Light 1	Invert	Invert	Light 1	Light 1	Invert	Invert	Undefined	(Circ Icon)
A6	Invert	Invert	Undefined	(Circ Icon)	Invert	Invert	Undefined	(Circ Icon)	Undefined	Undefined
A7	Undefined	(Circ Icon)	Undefined	Undefined	Undefined	(Circ Icon)	Undefined	Undefined	Undefined	Undefined
A8	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A9	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A10	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A13	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
A14	Jets 2	Jets 2	Blower	Blower	Jets 2	Jets 2	Jets 2	Jets 2	Undefined	Undefined
A15	Blower	Blower	Light 1	Light 1	Jets 3	Jets 3	Light 1	Light 1	Light 1	Light 1
A16	Light 1	Light 1	Invert	Invert	Light 1	Light 1	Invert	Invert	Invert	Invert

*A Circ Icon will appear when a Circ Pump is configured.*

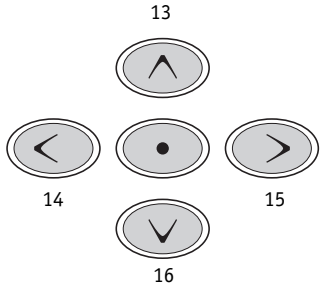
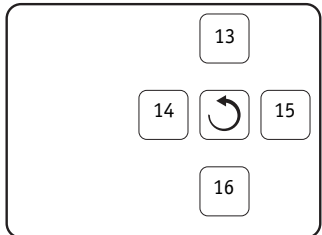
# TP900 Panel Configuration

Button #
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

## Spa Screen



## Shortcuts Screen



Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. © Copyright 2009 Balboa Water Group.

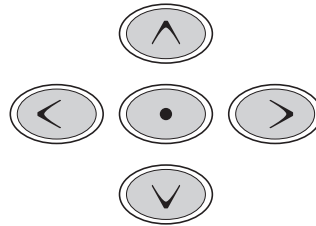
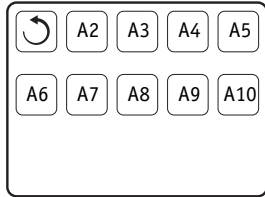
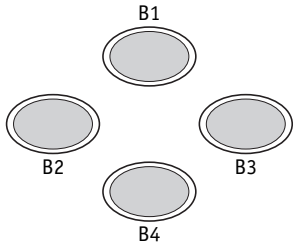
# TP800 Panel Configuration

**Button Layout Table**

Feature #	Setup 1	Setup 2	Setup 3	Setup 4	Setup 5	Setup 6	Setup 7	Setup 8	Setup 9	Setup 10
A1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A2	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
A3	Jets 2	Jets 2	Blower	Blower	Jets 2	Jets 2	Jets 2	Jets 2	Light 1	Light 1
A4	Blower	Blower	Light 1	Light 1	Jets 3	Jets 3	Light 1	Light 1	Invert	Invert
A5	Light 1	Light 1	Invert	Invert	Light 1	Light 1	Invert	Invert	Undefined	(Circ Icon)
A6	Invert	Invert	Undefined	(Circ Icon)	Invert	Invert	Undefined	(Circ Icon)	Undefined	Undefined
A7	Undefined	(Circ Icon)	Undefined	Undefined	Undefined	(Circ Icon)	Undefined	Undefined	Undefined	Undefined
A8	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A9	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A10	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A13	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A14	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A15	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A16	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
B1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
B2	Jets 2	Jets 2	Blower	Blower	Jets 2	Jets 2	Jets 2	Jets 2	Undefined	Undefined
B3	Blower	Blower	Undefined	Undefined	Jets 3	Jets 3	Undefined	Undefined	Undefined	Undefined
B4	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1

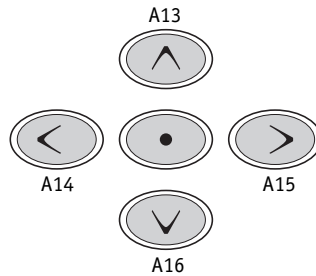
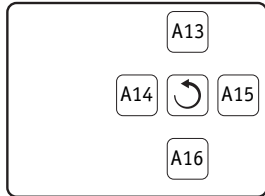
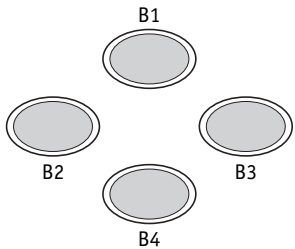
# TP800 Panel Configuration

## Spa Screen



**Note:** Button B2 is ALWAYS unused on TP800 when used with this sytsem. A custom overlay will be required.

## Shortcuts Screen



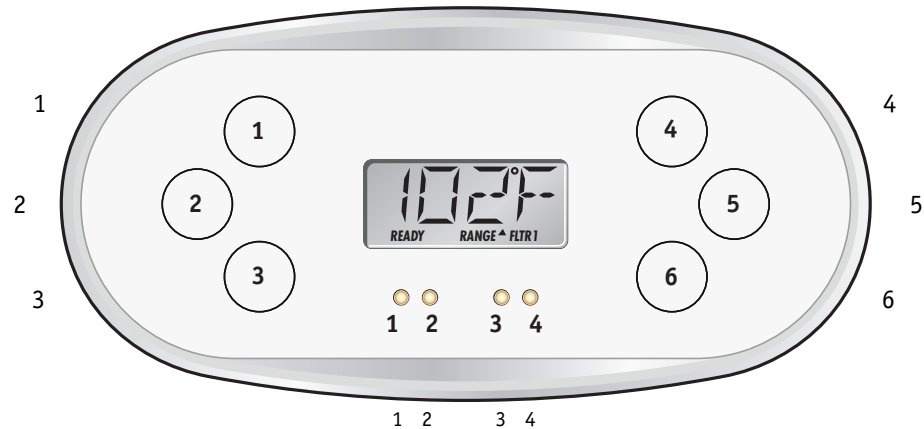
**Note:** Buttons 11 and 12 are not used in this configuration.

Button 1 is fixed.

# TP600 Panel Configuration

**Button Layout Table**

Button #	Setups 1 & 2	Setups 3 & 4	Setups 5 & 6	Setups 7 & 8	Setups 9 & 10
1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
2	Jets 2	Blower	Jets 2	Jets 2	Undefined
3	Blower	Invert	Jets 3	Invert	Invert
4	Up	Up	Up	Up	Up
5	Light 1	Light 1	Light 1	Light 1	Light 1
6	Down	Down	Down	Down	Down
LED 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
LED 2	Jets 2	Blower	Jets 2	Jets 2	Undefined
LED 3	Light 1	Light 1	Light 1	Light 1	Light 1
LED 4	Heat On	Heat On	Heat On	Heat On	Heat On



**TP600**

55676-XX

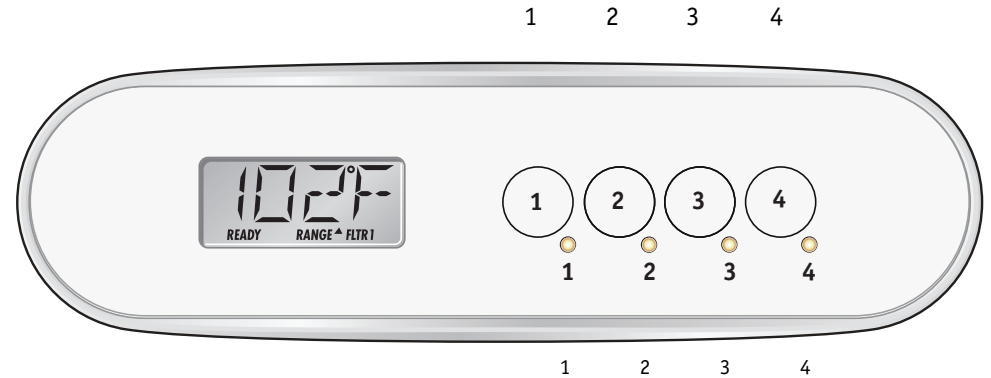
No Overlay



# TP400/TP200 Panel Configuration

**Button Layout Table for TP400T/TP200T**

Button #	Setups 3 & 4	Setups 7 & 8	Setups 9 & 10
1	Temperature	Temperature	Temperature
2	Jets 1	Jets 1	Jets 1
3	Light 1	Light 1	Light 1
4	Blower	Jets 2	Undefined
LED 1	Heater ON	Heater ON	Heater ON
LED 2	Jets 1 ON	Jets 1 ON	Jets 1 ON
LED 3	Light ON	Light ON	Light ON
LED 4	Blower ON	Jets 2 ON	Undefined



TP400T/TP200T is not supported in Setups 1, 2, 5 & 6 (that have either Pump 3 or both Pump 2 and Blower).

## TP400T US

50380-XX includes overlay PN 12511

**Button Layout Table for TP400W/TP200W**

Button #	All Setups
1	Up
2	Down
3	Light 1
4	Jets 1
LED 1	Heater ON
LED 2	Undefined
LED 3	Light ON
LED 4	Jets 1 ON

Use the TP400W/TP200W for Setups that only have one pump (No Blower or Pump 2), ie, Setups 9 & 10 only.



## TP200T

57281-XX with no overlay

57282-XX includes overlay PN 17325

## TP400W US

50384-XX includes overlay PN 12510

## TP200W

57290-XX with no overlay

57283-XX includes overlay PN 17374

# BP501 Configuration Options

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## Auxiliary Panel Features on Bank 1\*

Feature	Default
Aux Button A1	Jets 1
Aux Button A2	Jets 2 in Setups 1, 2 & 5 - 8 Undefined in Setups 3, 4, 9 & 10
Aux Button A3	Blower in Setups 1 - 4 Jets 3 in Setups 5 & 6 Undefined in Setups 7 - 10
Aux Button A4	Light

\*Bank 1 consists of J5 on the Main Circuit Board.  
**Aux Connection Splitter PN 25257 may be required.**

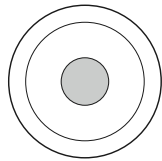
Buttons that are assigned to equipment that is not defined in a Setup will not do anything in that Setup.

# BP501 Configuration Options

## Auxiliary Panel Features

### AX10 Panels on Bank 1\*

A1, AX10A1	No O/L	52803
A2, AX10A2	No O/L	52804
A3, AX10A3	No O/L	52805
A4, AX10A4	No O/L	52806

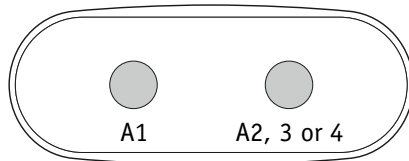


Call Customer Service for additional information about Auxiliary Panels.

\*Bank 1 consists of J5 on the Main Circuit Board.  
**Aux Connection Splitter PN 25257 may be required.**

### AX20

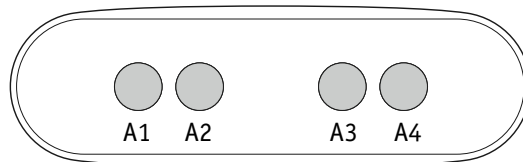
AX20 A1A2	No O/L	52800
AX20 A1A3	No O/L	52801
AX20 A1A4	No O/L	52802



**AX20 Auxiliary Panel plugged into Bank 1 will operate A1 + A2, A3 or A4.**

### AX40

AX40	No O/L	52799
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**AX40 Auxiliary Panel plugged into Bank 1 will operate A1 + A2, A3 and A4.**