

# BP501G1 Tech Sheet

**Customer:** Balboa Water Group

**Part Number:** 56485-07 5.5kW 800 Incoloy  
56486-07 5.5kW 825 Incoloy  
56487-07 5.5kW Titanium  
56567-06 4.0kW 800 Incoloy

Custom Box Overlay   
Box Overlay Part Number N/A

UL System Model For 5.5kW: BP501-BP501G1-BU  
UL System Model For 4.0kW: BP501-BP501G1-BS  
Software Version ID: M100\_201 V65.0  
Software Version: 65.0  
File Name: BP501\_65.0\_BP501G1\_TP9.hex  
Configuration Signature: E807947A

Eng. Project Number: 5663

Control Panels (See later pages for more information):

spaTouch™ Mini Any version (version 1.0 or later required for Clim8zone™ heat pump support)  
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



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
56485 56486 56487	3899 N/A	06-04-13 06-12-13	BWG BWG	BP501G1 initial draft Corrections to Tech Sheet
56485-01 56486-01 56487-01	4127	08-28-13	BWG	Issue found with Serialized Purge on one-pump-only Setups.
56485-02 56486-02 56487-02 56567-01	4132	09-10-13 03-12-14	BWG BWG	Updated to latest software version. Adds GFCI Trip (but not GFCI Automatic Test). Updated to latest software version, adding topside-intergrated bba™ support. Released to production.
56485-03 56486-03 56487-03 56567-02	4503 4576	05-14-15 08-12-15	BWG BWG	Add TP900 support. Clarify that all pumps can be 12A max.
56485-04 56486-04 56487-04 56567-03	4776	10-07-16	BWG	Updated to latest software version, adding topside-intergrated bba™ 2 support. Released to production.
56485-05 56486-05 56487-05 56567-03	5007	02-07-18	BWG	Redesigned BP501 board.
56485-06 56486-06 56487-06 56567-05	5264	08-14-19	BWG	Updated software to support CHROMAZON™ & M8.
56485-07 56486-07 56487-07 56567-06	5663	01-11-24	BWG	Update to support Clim8zone™ heat pump. Convert AV from 120V to 240V.

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 TP600/500/400/200, use the "BT" entry on the menu to toggle bba™ 2 / bba™ 3 power On/Off.

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.



# Basic Functions Setup 1 - 6

---

## 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 5 & 6 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.

---

### 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 - 6

---

## 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, 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
Pump 2	240VAC	1-Speed	12A max	15-minute timer Used in Setups 1 & 2
Blower	240VAC	1-Speed	4A max	15-minute timer Used in Setups 3 & 4
Circ Pump	240VAC*	1-Speed	2A max	Programmable Filtration Cycles + Polling This is the heater pump in Setups 2, 4, 6. 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	5.5kW @ 240VAC max			

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

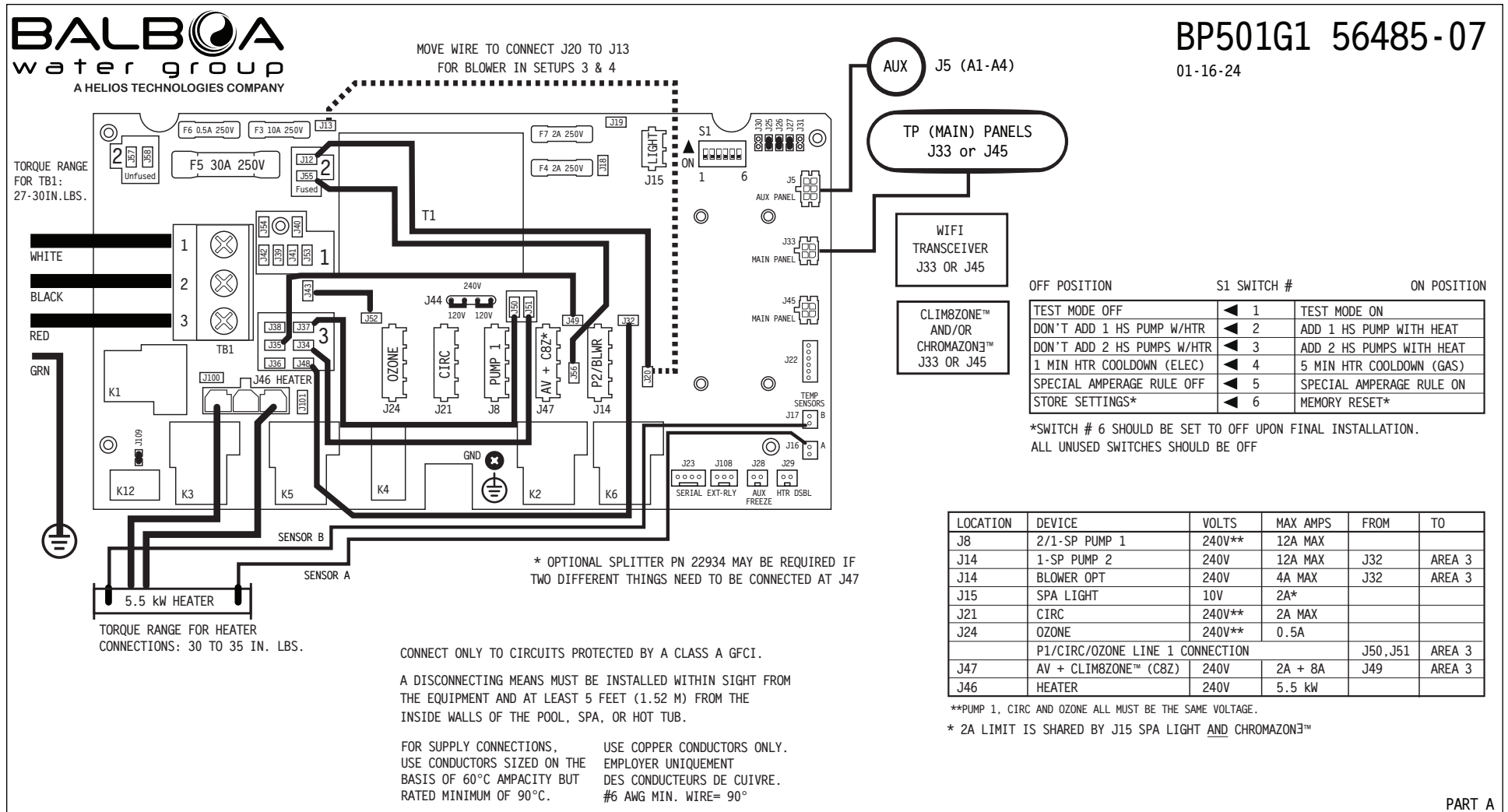
With 120VAC power input (for Setups 5 & 6 only), Pump 1, Circ pump and Ozone must be set to 120VAC by moving wires attached to J50 and J51 to area 1 (Neutral).

\*\* 2A max limit is shared by On/Off Spa Light and CHROMAZON<sup>3</sup>™.

\*\*\* 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



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

# Setup Reference Table

Setup #	Circ Pump	Pump 1	Pump 2	Pump 3	Blower	Temp Scale
1	None	2-Speed	1-Speed	None	None	°F
2	Programmable Filtration + Polling	1-Speed	1-Speed	None	None	°F
3	None	2-Speed	None	None	1-Speed	°F
4	Programmable Filtration + Polling	1-Speed	None	None <td 1-Speed	°F	
5	None	2-Speed	None	None	None	°F
6	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 5 & 6 ONLY:

SWITCHES #2 & #3 SHOULD BE SET TO OFF WHEN SYSTEM IS CONFIGURED AS 120VAC.

\*\*PUMP 1, CIRC AND OZONE MUST BE WIRED TO 120VAC WHEN SYSTEM IS CONFIGURED WITH 120VAC POWER INPUT/GFCI CORD (SETUPS 5 & 6 ONLY). J50 AND J51 MUST BE CONNECTED TO AREA 1 (NEUTRAL).

**IMPORTANT NOTE:**  
CLIMBZONE™ (C8Z) CANNOT BE USED IN THE 120VAC CONFIG.

INSTEAD OF SETUP #1, THIS SYSTEM IS CONFIGURED IN SETUP #:

SETUP #	CIRC PUMP	PUMP 1	PUMP 2	PUMP 3	BLOWER	TEMP SCALE
1	NONE	2-SPEED	1-SPEED	NONE	NONE	°F
2	FILTERS + POLLING	1-SPEED	1-SPEED	NONE	NONE	°F
3	NONE	2-SPEED	NONE	NONE	1-SPEED	°F
4	FILTERS + POLLING	1-SPEED	NONE	NONE	1-SPEED	°F
5	NONE	2-SPEED	NONE	NONE	NONE	°F
6	FILTERS + POLLING	1-SPEED	NONE	NONE	NONE	°F

A HELIOS TECHNOLOGIES COMPANY

**BP501G1 56485-07**

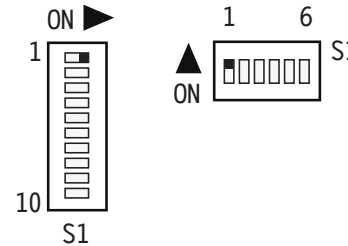
01-16-24 PART B

# 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!**

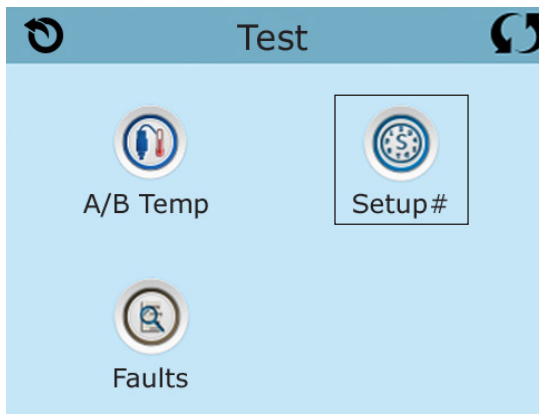
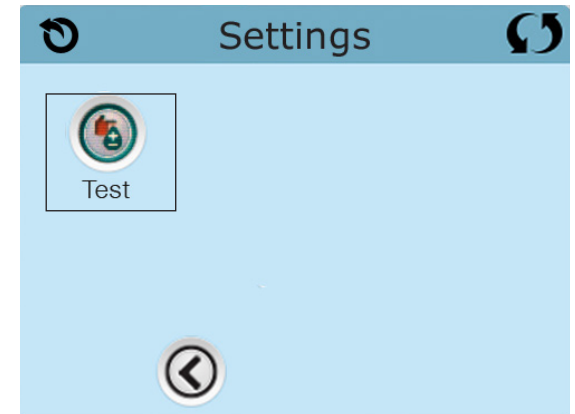
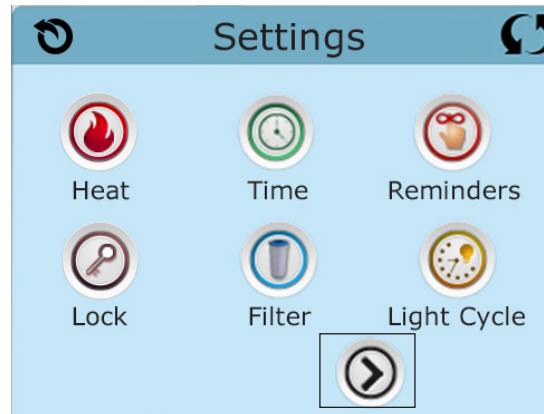
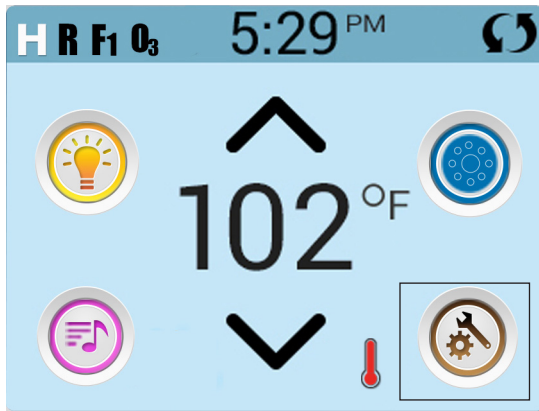
While the system is running, move DIP Switch 1 (on S1 on the Main circuit board) to ON. The system will enter Test Mode. Moving DIP Switch 1 to OFF will exit Test Mode.



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.

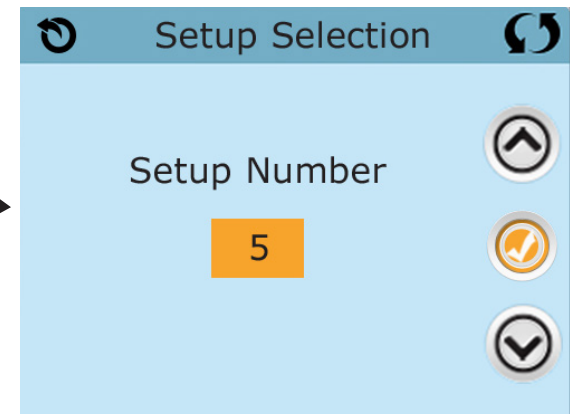
## To Change Software Setups:

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.



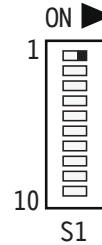
Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. © Copyright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

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

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

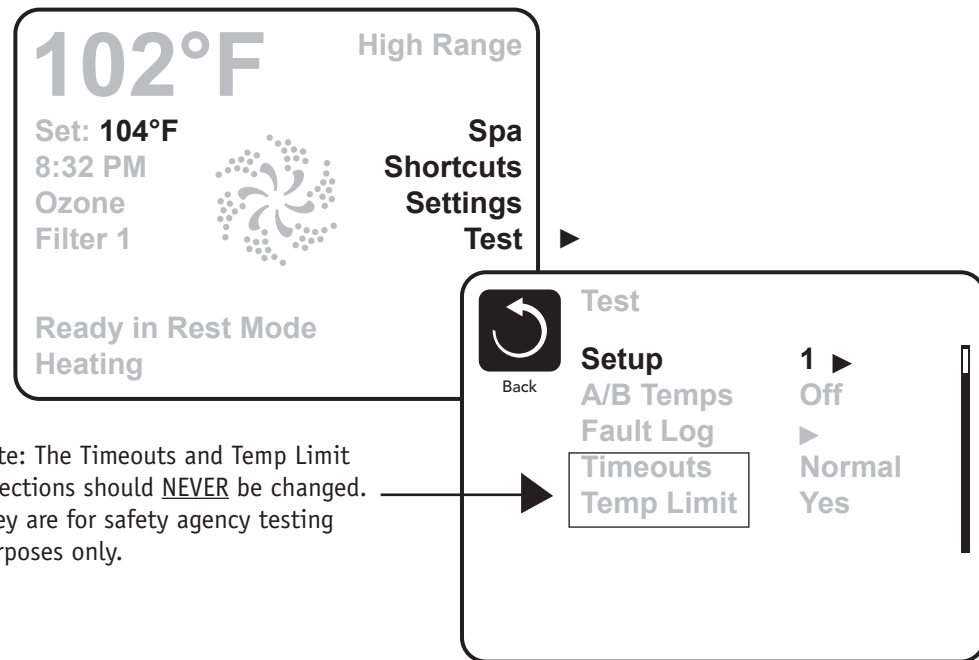
**DANGER! HIGH VOLTAGE WILL BE ACCESSIBLE! SERVICE TECHNICIAN ONLY!**

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.

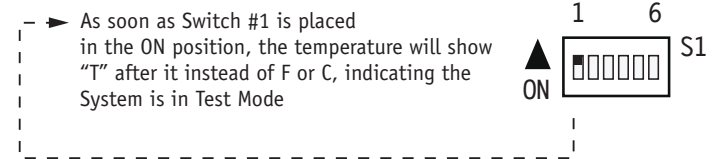


# Changing Software Setups with TP600 / TP400

## 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.



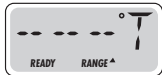
## Software Setups

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 / TP400 Continued

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

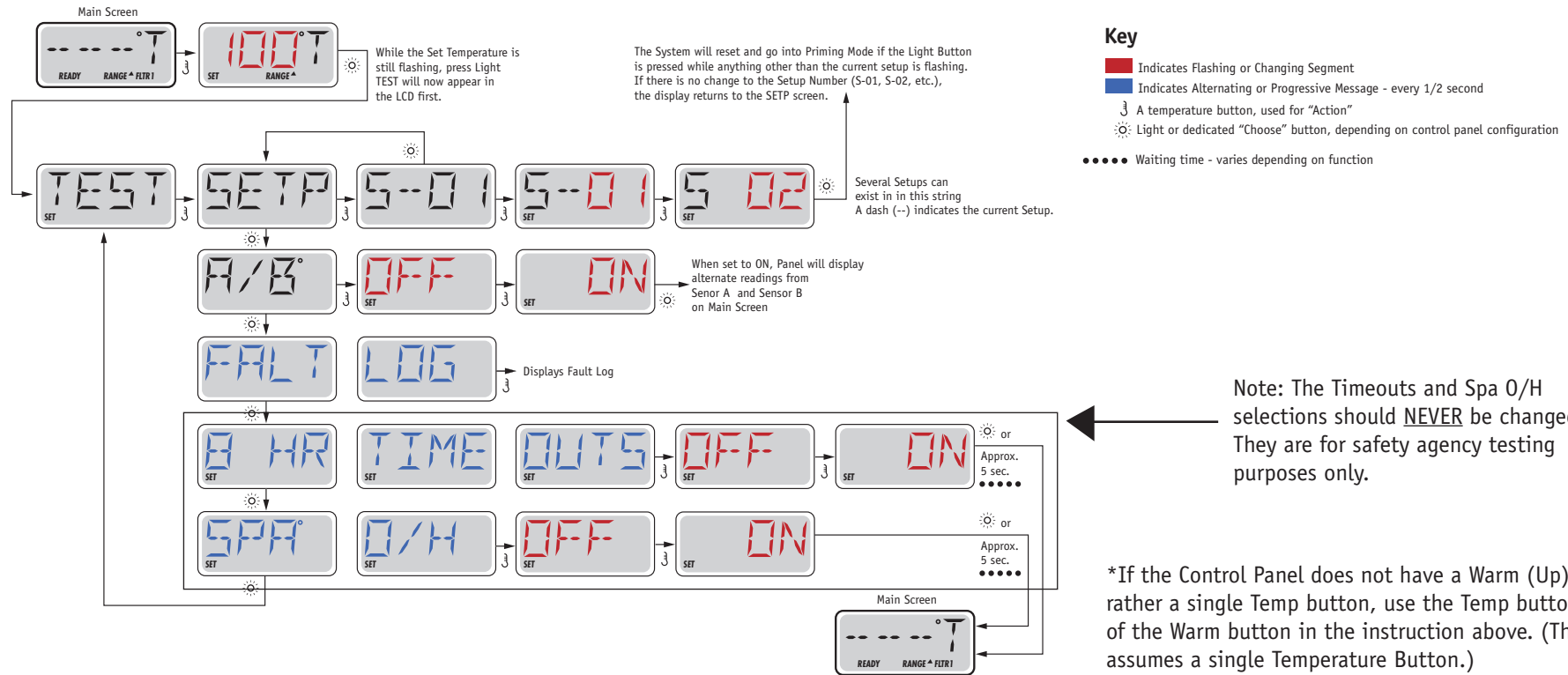
Immediately after exiting Priming Mode, press this sequence of buttons: Warm\*, Light, Warm, Warm, Warm, Warm. Continue to press Warm until the display shows the Setup Number (S-01, S-02, etc.) you want to switch to. When the correct setup number is showing, press Light once, and the system will reset,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

---

## Expansion Features

### Control Connection

Relay 1/2 (J108)

### Default

None

### Fuse

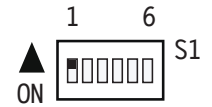
N/A

# 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>	J109 
<b>J30</b>	Do Not Use	
<b>J31</b>	<p>Non Applicable on UL models</p> <p><i>(Used on CE models only)</i></p>	J31 
<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.</p> <p>If J29 is shorted during power-up “J29” will appear on the panel.</p> <p>The message can be dismissed with a button press, and is the only control panel notification of J29 being shorted.</p> <p>No message is displayed if J29 is shorted after power-up, but the heater will not run until J29 is no longer shorted.</p> <p>J29 expects a switch closure (not a voltage) as the command signal.</p> <p>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>	J29 
<b>J25, J26, J27</b>	<p>Heater Type Settings.</p> <p><b>Note:</b> <i>Factory Configured do not change.</i></p>	
<b>J44</b>	<p>Jumper on center two pins (230V) when no neutral wire is used (240V-dedicated).</p> <p>Two Jumpers installed; one on left 2 pins and one on right 2 pins (115V) when neutral wire is used.</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

---

## PCBA:

Main PCBA: 56944-02  
Expander PCBA: N/A

## HEATER(s):

Plug + Click Heater Kit: 58083R16 5.5kW 800Inc  
58089R16 5.5kW 825Inc  
55624R16 5.5kW Titanium  
58104R16 4.0kW 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

---

## 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

---

## 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

---

## 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

---

## Special Features

Feature	Default
Special Amperage Rule A	No Limitation
Special Amperage Rule B	No Limitation
Drain Mode	Disabled
Demo Mode	Disabled
GFCI Trip	Enabled
Automatic GFCI Test	Disabled
Ozone Slaved to Heater Pump	<i>Yes</i>
Dual Voltage Heater	Always Input Voltage
Safety Suction	Disabled

# TP900 Panel Configuration

**Button Layout Table**

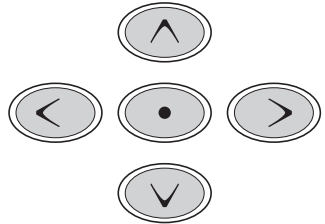
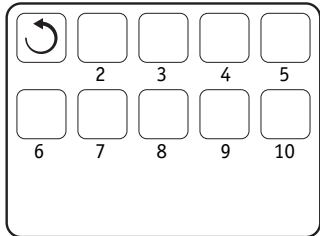
Feature #	Setup 1	Setup 2	Setup 3	Setup 4	Setup 5	Setup 6
A1	N/A	N/A	N/A	N/A	N/A	N/A
A2	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
A3	Jets 2	Jets 2	Blower	Blower	Light 1	Light 1
A4	Light 1	Light 1	Light 1	Light 1	Invert	Invert
A5	Invert	Invert	Invert	Invert	Undefined	(Circ Icon)
A6	Undefined	(Circ Icon)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

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

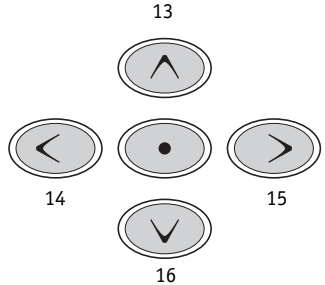
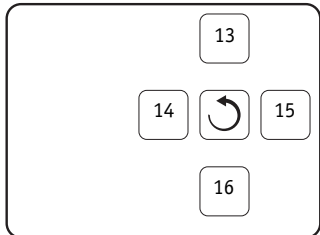
# TP900 Panel Configuration

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 + TP700/740 Notes

**Button Layout Table**

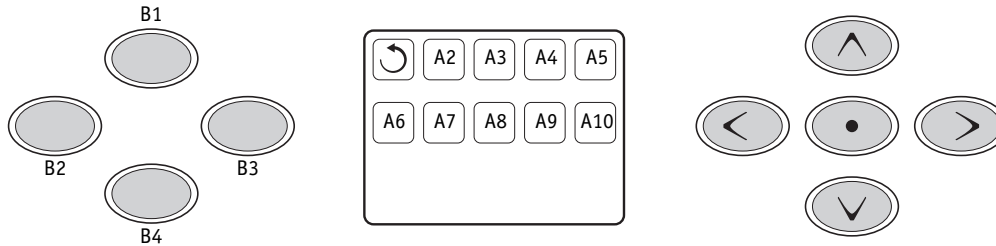
Feature #	Setup 1	Setup 2	Setup 3	Setup 4	Setup 5	Setup 6
A1	N/A	N/A	N/A	N/A	N/A	N/A
A2	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
A3	Jets 2	Jets 2	Blower	Blower	Light 1	Light 1
A4	Light 1	Light 1	Light 1	Light 1	Invert	Invert
A5	Invert	Invert	Invert	Invert	Undefined	(Circ Icon)
A6	Undefined	(Circ Icon)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

The TP740 works in all of these Setups, but it needs a different overlay than the most common one, because this system puts the unused button in the second button position, rather than in the third button position.

The TP700 requires a different overlay depending on the number of Jets pumps in the chosen Setup.

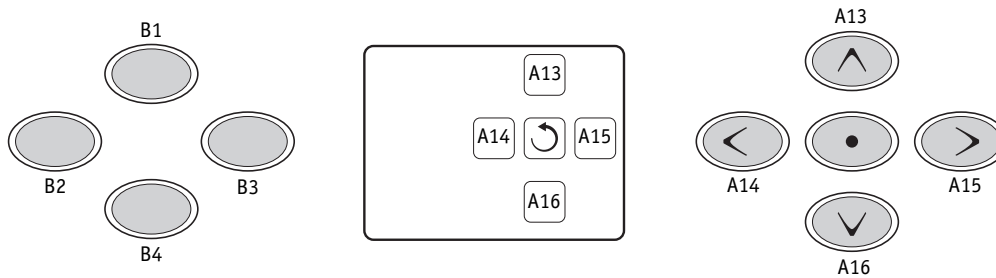
# TP800 Panel Configuration

## Spa Screen



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

## Shortcuts Screen



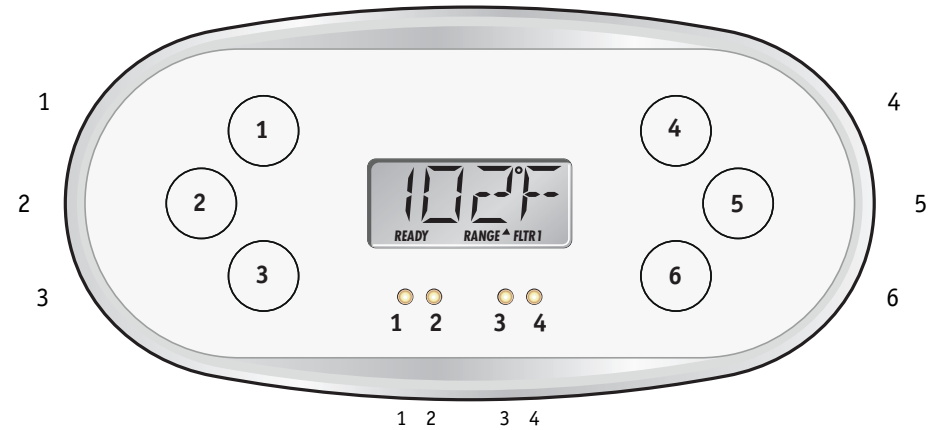
**Note:** Buttons 11 and 12 are not used in this configuration.

Button 1 is fixed.

# TP600 Panel Configuration

**Button Layout Table**

Button #	Setup 1 & 2	Setup 3 & 4	Setup 5 & 6
1	Jets 1	Jets 1	Jets 1
2	Jets 2	Blower	Undefined
3	Invert	Invert	Invert
4	Up	Up	Up
5	Light 1	Light 1	Light 1
6	Down	Down	Down
<b>LED 1</b>	Jets 1	Jets 1	Jets 1
<b>LED 2</b>	Jets 2	Blower	Undefined
<b>LED 3</b>	Light 1	Light 1	Light 1
<b>LED 4</b>	Heat On	Heat On	Heat On



## TP600

55676-XX

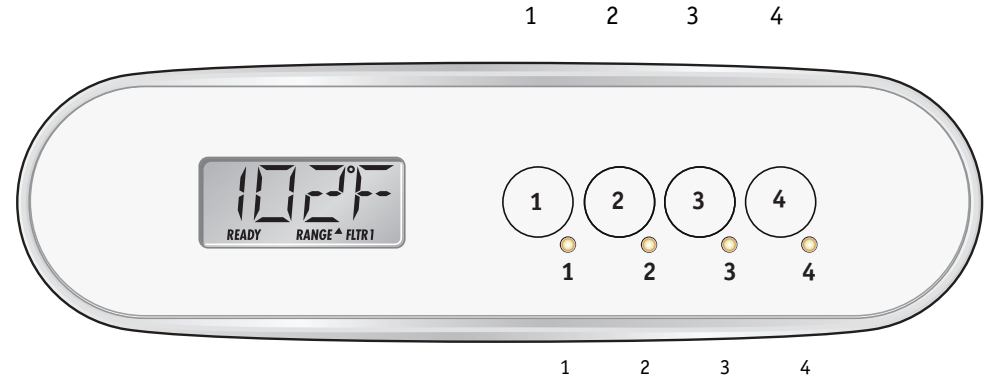
No Overlay



# TP400/TP200 Panel Configuration

**Button Layout Table for TP400T/TP200T**

Button #	Setup 1 & 2	Setup 3 & 4	Setup 5 & 6
1	Temperature	Temperature	Temperature
2	Jets 1	Jets 1	Jets 1
3	Light 1	Light 1	Light 1
4	Jets 2	Blower	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	Jets 2 ON	Blower ON	Undefined



## 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).

## TP400W US

50384-XX includes overlay PN 12510

## TP200W

57290-XX with no overlay

57283-XX includes overlay PN 17374



## TP200T

57281-XX with no overlay

57282-XX includes overlay PN 17325

# BP501 Configuration Options

---

## Auxiliary Panel Features on Bank 1\*

Feature	Default
Aux Button A1	Jets 1
Aux Button A2	Jets 2 in Setups 1 & 2 Blower in Setups 3 & 4 Undefined in Setups 5 & 6
Aux Button A3	Undefined
Aux Button A4	Light

\*Bank 1 consists of J5 on the Main Circuit Board.

**Aux Connection Splitter PN 25257 may be required.**

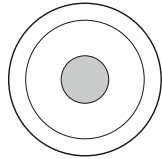
Buttons that are assigned to equipment that is not defined in a Setup will not do anything in that Setup.

# 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

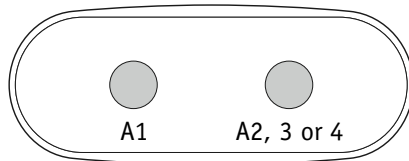


Call Customer Service for additional information about Auxiliary Panels.

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

### AX20

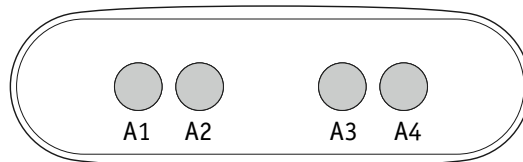
AX20 A1A2	No O/L	52800
AX20 A1A3	No O/L	52801
AX20 A1A4	No O/L	52802



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

### AX40

AX40	No O/L	52799
------	--------	-------



AX40 Auxiliary Panel plugged into Bank 1 will operate A1 + A2, A3 and A4.