### **BP2000G1 Tech Sheet**

Customer:	Balboa Water Group
Part Number:	56377-03       800 Incoloy 5.5kW         56378-03       825 Incoloy 5.5kW         56379-03       Titanium 5.5kW         56589-01       Titanium 4kW
Custom Box Overlay	BP
Box Overlay Part Number	N/A
UL System Model:	BP20-BP2000G1-AU
Software Version ID:	M100_220 V36.0
Software Version:	36.0
File Name:	BP2000_36.0_BP2000G1_18.hex
Configuration Signature:	51800C6B
Eng. Project Number:	4776
Control Panels:	
spaTouch™2	Any version (version 2.0 or later required for bba™2 fully integrated functionality)
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)

Version 2.7 and later

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.



TP600

# **System Revision History**

EPN	Date	Originator	Changes Made
3936	10-08-12	BWG	Initial Release BP2000G1
4008	01-29-13	BWG	Add Setups 17 and 18, Add TP600 Support
4132	09-26-13	BWG	Updated to latest software version. Adds GFCI Trip (but not GFCI Automatic Test).
4132	01-30-14	BWG	Updated to latest software version, adding topside-intergrated bba™ support. Released to production.
4776	10-12-16	BWG	Updated to latest software version, adding topside-intergrated bba™2 support. Released to production.
	3936 4008 4132 4132	3936       10-08-12         4008       01-29-13         4132       09-26-13         4132       01-30-14	3936       10-08-12       BWG         4008       01-29-13       BWG         4132       09-26-13       BWG         4132       01-30-14       BWG

bba<sup>™</sup> & bba<sup>™</sup>2 (Balboa Bluetooth Amp) connection is documented seperately.

bba<sup>m</sup> is only integrated into graphic display panels (TP800, TP900 and spaTouch<sup>m</sup>). With TP600 the Aux button operation of bba<sup>m</sup> must be used. bba<sup>m</sup>2 is only integrated into graphic display panels (TP800, TP900 and spaTouch<sup>m</sup>). bba<sup>m</sup>2 does not support Aux button operation.



# **Basic Functions Setup 1-18**

#### **Power Requirements:**

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

\*BP systems automatically detect 50Hz vs 60Hz.

#### System Ouputs:

Pump 1	240VAC	•	12A max Setups 12, 14	15-minute timer for High Speed, 15-Minute timer for Low Speed
		eater pump in 20 GPM throu	n Setups 1–6,	
Pump 2	240VAC	•		15-minute timer 1–14, 17, 18
Pump 3	240VAC	2-Speed in S 1-Speed in S		
Blower	240VAC	•		15-minute timer 6–8, 10, 13, 14
Circ Pump		1-Speed eater pump in 20 GPM throu	n Setups 7–14	Programmable Filtration Cycles + Polling 4, 16, 17
Ozone	120VAC*		.5A max	Slaved to Circ Pump in Setups 7-14, 16, 17 Independent in Setups 1-6, 15, 18
Spa Light	10VAC	0n/0ff	1A max	240-minute timer.
A/V (Stereo)	120VAC	Hot	5A max	Always on
Heater	5.5kW @ 24	OVAC max		

\*Both the Circ pump and Ozone can be converted to 240V, however they will be the same voltage after conversion. (Both 120V or both 240V.)

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.

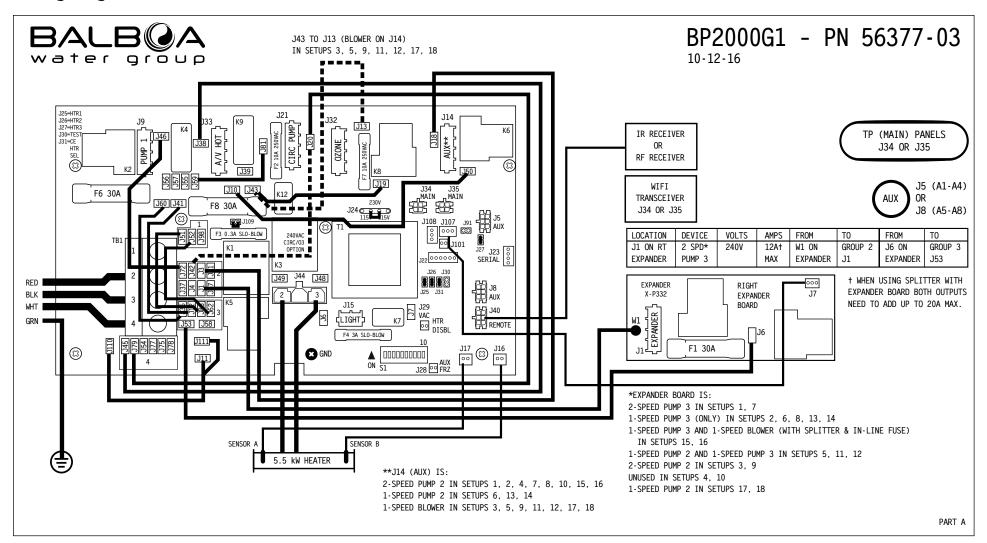


#### **HiPot Testing Note:**

Disconnect slip terminal with green wires from J11 prior to performing HiPot test. Failure to disconnect may cause a false failure of the test. Reconnect terminal to J11 after successful completion of HiPot test.

## Hardware Setup

Wiring Diagram



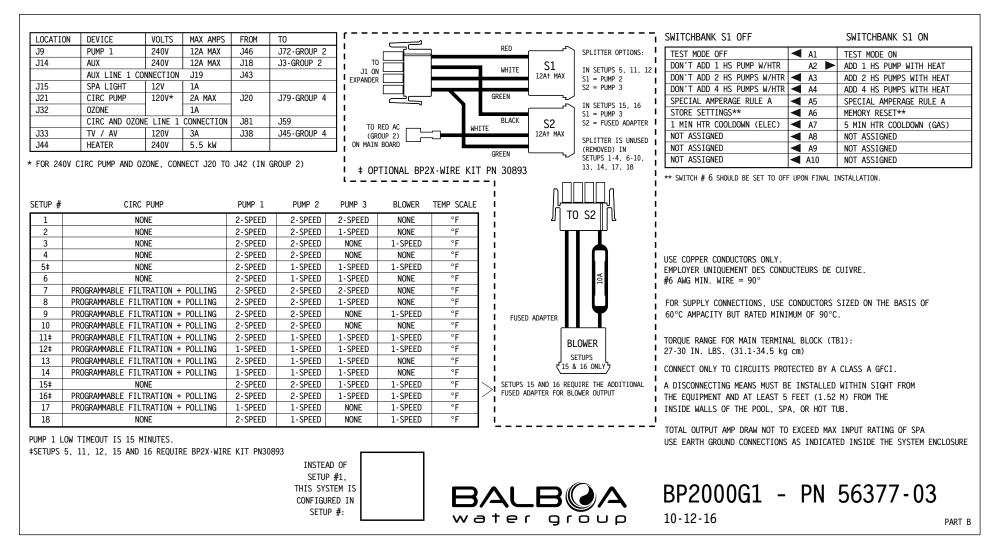
Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. © Copyright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



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## Hardware Setup

#### Settings



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3, 7,417,834 b2, poa Water Group.



## **Setup Reference Table**

Setup #	Circ Pump	Pump 1	Pump 2	Pump 3	Blower	Temp Scale
1	None	2-Speed	2-Speed	2-Speed	None	°F
2	None	2-Speed	2-Speed	1-Speed	None	°F
3	None	2-Speed	2-Speed	None	1-Speed	°F
4	None	2-Speed	2-Speed	None	None	°F
5	None	2-Speed	1-Speed	1-Speed	1-Speed	°F
6	None	2-Speed	1-Speed	1-Speed	None	°F
7	Programmable Filtration + Polling	2-Speed	2-Speed	2-Speed	None	°F
8	Programmable Filtration + Polling	2-Speed	2-Speed	1-Speed	None	°F
9	Programmable Filtration + Polling	2-Speed	2-Speed	None	1-Speed	°F
10	Programmable Filtration + Polling	2-Speed	2-Speed	None	None	°F
11	Programmable Filtration + Polling	2-Speed	1-Speed	1-Speed	1-Speed	°F
12	Programmable Filtration + Polling	1-Speed	1-Speed	1-Speed	1-Speed	°F
13	Programmable Filtration + Polling	2-Speed	1-Speed	1-Speed	None	°F
14	Programmable Filtration + Polling	1-Speed	1-Speed	1-Speed	None	°F
15	None	2-Speed	2-Speed	1-Speed	1-Speed	°F
16	Programmable Filtration + Polling	2-Speed	2-Speed	1-Speed	1-Speed	°F
17	Programmable Filtration + Polling	1-Speed	1-Speed	None	1-Speed	°F
18	None	2-Speed	1-Speed	None	1-Speed	°F

Color	Output				
Кеу					
	XP332				
	XP332 and Splitter				
	XP332 and Splitter and in-line Blower fuse				
	J14 (Aux) on Main Board				

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.

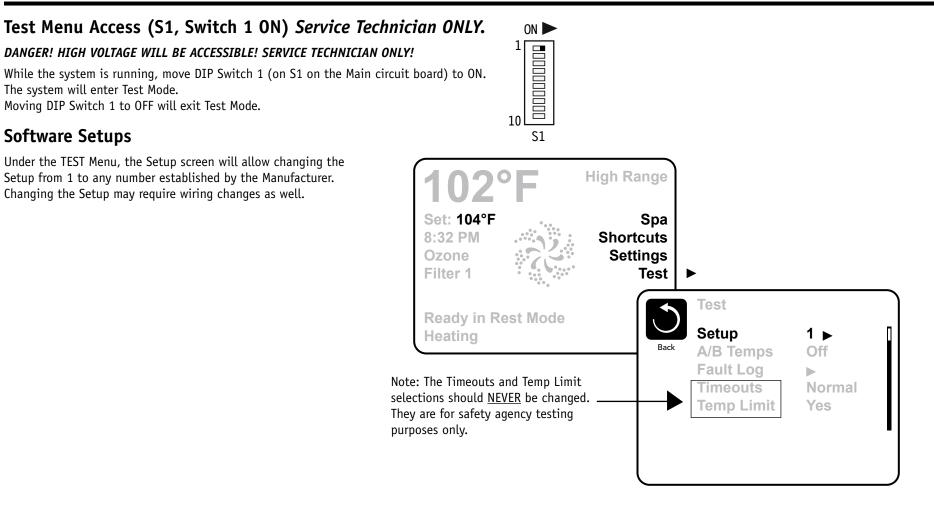


System (and any replacement board) is shipped in

Setup 1

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





# **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.)

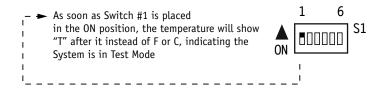


When the panel displays RUN PMPS PURG AIR, press any Temperature button ONCE to exit Priming Mode. You should see "---T" where the T indicates the system is in Test Mode.



Continued on Next Page.





# **Changing Software Setups with TP600 / TP400 Continued**

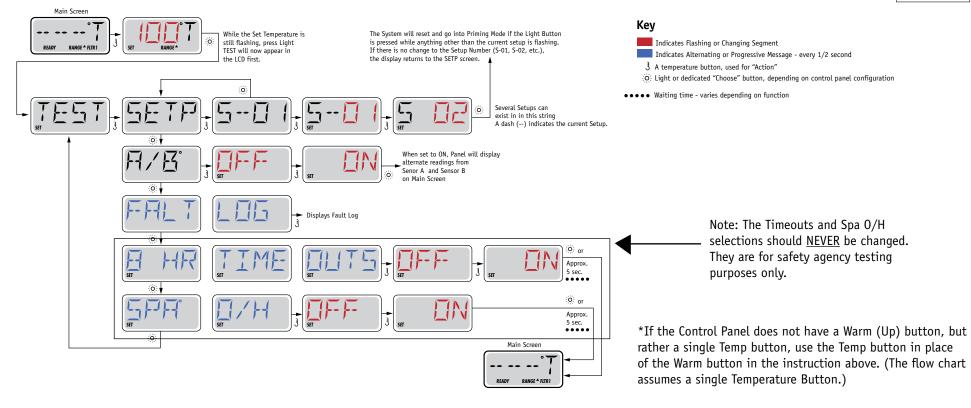
Again, You will have 1 minute to complete the setup change after you manually exit Priming Mode.

Immediately after exiting Priming Mode, press this sequence of buttons: Warm\*, Light, Warm, Warm, Warm. Continue to press Warm until the diplay 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.



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.



THIS SYSTEM IS

CONFIGURED AS SETUP #

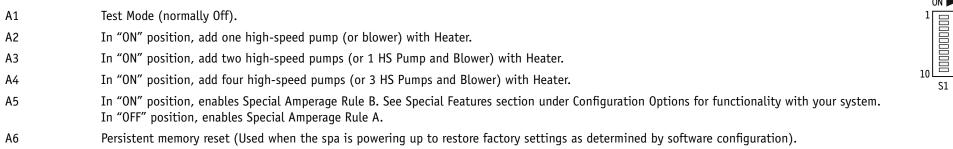
# **Equipment Expansion**

Expansion Features		
<b>Control Connection</b>	Default	Fuse
Relay 1 (J101)	Undefined	None
Relay 7/8 (J107)	See Below	30A
	1-Speed Pump 3 A	only) in Setups 2, 6, 8, 13, 14 and 1-Speed Blower (With Splitter & In-Line Fuse) in Setups 15, 16 and 1-Speed Pump 3 in Setups 5, 11, 12 n Setups 3, 9 n Setups 17, 18
Relay 9/10 (J108)	Undefined	None



## **DIP Switch Functions**

#### **Fixed-fuction DIP Switches**



A2, A3, and A4 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 and A4 in the OFF 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/A4 all off = No heat with any high-speed pump or blower.

#### Assignable DIP Switches

Α7 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.

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.



ON 🕨

S1

## **Jumper Definitions**

J109	GFCI Test/Trip Enable/Disable <i>Note:</i> This feature must be enabled in software as well.	J109 🚰
J91	Real Time Clock Enable/Disable <b>Note:</b> This Jumper should NOT be shorted when the Control Panel can display time of day.	J91 🖾
J30	Do Not Use	
J31	Non Applicable on UL models (Used on CE models only)	J31 🔀
J29	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 👸
	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 installe	d in conjunction with the spa
 J25, J26, J27	Heater Type Settings. <i>Note:</i> Factory Configured do not change.	J25 <b>کی</b> J26
J24	Jumper on center two pins (230V) when heater is running at 240V. Two Jumpers installed; one on left 2 pins and one on right 2 pins (115V) when heater is running at 120V.	230V J24 0 0 0 0 115 15V
Warning!		
Se	tting 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**

<b>PCBA:</b> Main PCBA: Expander PCBA:		56380-03 55137	
<b>HEATER(s):</b> Plug + Click Heater Kit:		58306 5.5kW 58307 5.5kW 58308 5.5kW 58303 4.0kW	825Inc Titanium
Temp Sensor Kit:		53605	
CABLES:		N/A	
FUSES: Part Number	Amperage		Location
30136 20600 21581	30A 3A 3/10A		F6, F8, F1 (Expander) F4 F3

10A

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.

F2, F7



30122

General Features	
Feature	Default
Pump 1 in Filter Cycle (Circ Only)	No
Pump 1 Low Timer	15 Minutes
General Pump Timer	15 Minutes
Blower Timer	15 Minutes
Mister Timer	15 Minutes
Light Timer	240 Minutes
Circ (when enabled)	Programmable + Polling
Cleanup Cycle	30 Minutes
Cleaup as Preference setting	Yes
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.



#### **Temperature Features**

Feature	Defa
Temperature Display	°F

ault

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.

\*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.



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e 1.

#### 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)



#### **Reminder Features**

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

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



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	Yes in circ setups No in non-circ setups
Dual Voltage Heater	Always Input Voltage
Safety Suction	Disabled



## **TP600 Panel Configuration**

#### **Button Layout Table**

Button #	Pump 3 or Pump 3 + Blower*	No Pump 3, Blower Setup 3, 9, 17, 18	No Pump 3, No Blower Setup 4, 10
	Setups 1, 2, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16		
1	Jets 1	Jets 1	Jets 1
2	Jets 2	Jets 2	Jets 2
3	Jets 3	Blower	Unused
4	Up	Up	Up
5	Light 1	Light 1	Light 1
6	Down	Down	Down
LED 1	Jets 1	Jets 1	Jets 1
LED 2	Jets 2	Jets 2	Jets 2
LED 3	Light 1	Light 1	Light 1
LED 4	Heat On	Heat On	Heat On

\* When using setups in column 1, which operate both a Pump 3 AND a Blower, Pump 3 is on the main panel (Button3) and Blower must be operated with an Auxilliary Panel - AX10A3 on Bank 1 (J5).

See Page 21.



#### TP600

55676-XX - No Overlay 50335-XX - Includes Overlay PN 12762





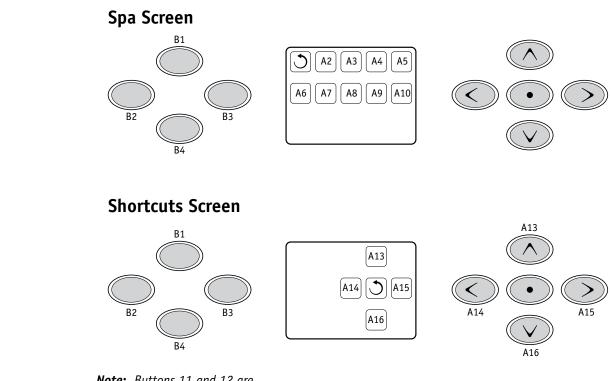
# **TP800 Panel Configuration**

#### **Button Layout Table**

Feature #	Pump 3, Blower & Circ	NO Pump 3, Blower & Circ	Pump 3, NO Blower & Circ	NO Pump 3, NO Blower & Circ	Pump 3, Blower & NO Circ	NO Pump 3, Blower & NO Circ	Pump 3, NO Bl & NO Circ	NO Pump 3, NO Bl & NO Circ
	Setups 11, 12, 16	Setup 9, 17	Setups 7, 8, 13, 14	Setup 10	Setups 5, 15	Setup 3, 18	Setups 1, 2, 6	Setup 4
A1	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
A3	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2
A4	Jets 3	Blower	Jets 3	Light 1	Jets 3	Blower	Jets 3	Light 1
A5	Blower	Light 1	Light 1	Invert	Blower	Light 1	Light 1	Invert
A6	Light 1	Invert	Invert	(Circ Icon)	Light 1	Invert	Invert	Undefined
A7	Invert	(Circ Icon)	(Circ Icon)	Undefined	Invert	Undefined	Undefined	Undefined
A8	(Circ Icon)	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A9	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A10	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
A12	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
A14	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2
A15	Blower	Blower	Jets 3	Light	Blower	Blower	Jets 3	Light
A16	Light	Light	Light	Invert	Light	Light	Light	Invert
B1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
B2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2
B3	Jets 3	Blower	Jets 3	Undefined	Jets 3	Blower	Jets 3	Undefined
B4	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1



## **TP800 Panel Configuration**



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

Button 1 is fixed.

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



# **TP900 Panel Configuration**

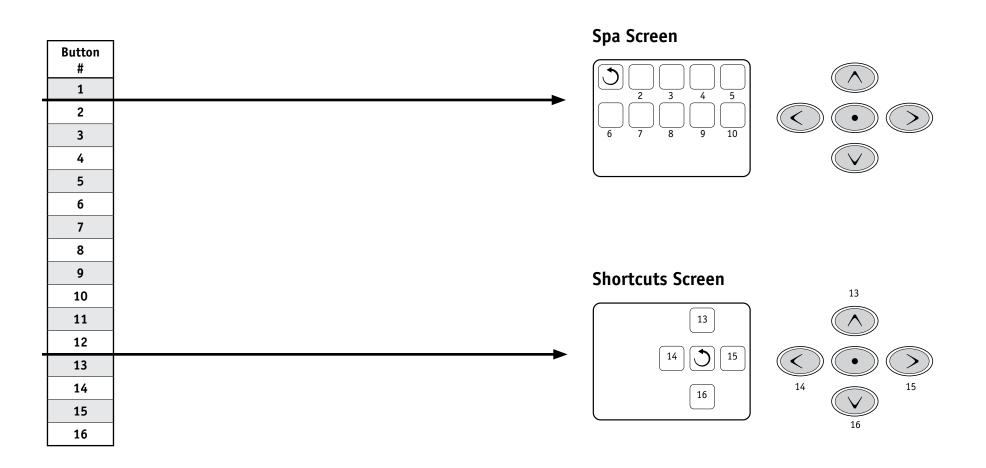
#### **Button Layout Table**

Button #	Pump 3, Blower & Circ	NO Pump 3, Blower & Circ	Pump 3, NO Blower & Circ	NO Pump 3, NO Blower & Circ	Pump 3, Blower & NO Circ	NO Pump 3, Blower & NO Circ	Pump 3, NO Bl & NO Circ	NO Pump 3, NO Bl & NO Circ
	Setups 11, 12, 16	Setup 9, 17	Setups 7, 8, 13, 14	Setup 10	Setups 5, 15	Setup 3, 18	Setups 1, 2, 6	Setup 4
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
3	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2
4	Jets 3	Blower	Jets 3	Light 1	Jets 3	Blower	Jets 3	Light 1
5	Blower	Light 1	Light 1	Invert	Blower	Light 1	Light 1	Invert
6	Light 1	Invert	Invert	(Circ Icon)	Light 1	Invert	Invert	Undefined
7	Invert	(Circ Icon)	(Circ Icon)	Undefined	Invert	Undefined	Undefined	Undefined
8	(Circ Icon)	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
9	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
10	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
14	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2
15	Jets 3	Blower	Jets 3	Light	Jets 3	Blower	Jets 3	Light
16	Light	Light	Light	Invert	Light	Light	Light	Invert

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



## **TP900 Panel Configuration**





Light

#### Auxilliary Panel Features on Bank 1\*

Feature	Default
Aux Button A1	Jets 1
Aux Button A2	Jets 2
Aux Button A3	Blower
Aux Button A4	Light

# Auxilliary Panel Features on Bank 2\*FeatureDefaultAux Button A5Jets 1Aux Button A6Jets 2Aux Button A7Jets 3

\*Bank 1 consists of J5 on the Main Circuit Board. Bank 2 consists of J8 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.

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.



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Aux Button A8

24

#### **Auxilliary Panel Features**

#### AX10 Panels on Bank 1\*

 A1, AX10A1
 No 0/L
 52803

 A2, AX10A2
 No 0/L
 52804

 A3, AX10A3
 No 0/L
 52805

 A4, AX10A4
 No 0/L
 52806

#### AX10 Panels on Bank 2\*

A5, AX10A1	No O/L	52803
A6, AX10A2	No O/L	52804
A7, AX10A3	No O/L	52805
A8, AX10A4	No O/L	52806

No 0/L

No 0/L

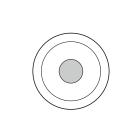
No 0/L

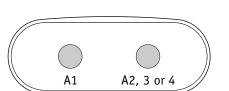
52800

52801

52802

52799





Call Customer Service for additional information about Auxiliary Panels.

\*Bank 1 consists of J5 on the Main Circuit Board. Bank 2 consists of J8 on the Main Circuit Board. Aux Connection Splitter PN 25257 may be required.

#### AX20 Auxiliary Panel plugged into Bank 1 will operate A1 + A2, A3 or A4. AX20 Auxiliary Panel plugged into Bank 2 will operate A5 + A6, A7 or A8.

AX40

**AX20** 

AX20 A1A2

AX20 A1A3

AX20 A1A4

AX40 No 0/L

A1 A2 A3 A4

AX40 Auxiliary Panel plugged into Bank 1 will operate A1 + A2, A3 and A4. AX40 Auxiliary Panel plugged into Bank 2 will operate A5 + A6, A7 and A8.

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.

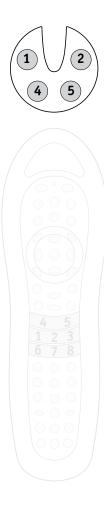


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#### **Remote Panel Features**

Feature	Default
Remote Button A1	Jets 1
Remote Button A2	Jets 2
Remote Button A3	Jets 3
Remote Button A4	Blower
Remote Button A5	Light
Remote Button A6	Undefined
Remote Button A7	Undefined
Remote Button A8	Undefined



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

#### Remote Panel Part Number

Overlay Part Number

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.



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