BP2000G1 Tech Sheet

Customer: Balboa Water Group

Part Number: 56377-02 800 Incoloy 5.5kW

56378-02 825 Incoloy 5.5kW 56379-02 Titanium 5.5kW

56589 Titanium 4kW

Custom Box Overlay [

Box Overlay Part Number N/A

UL System Model: BP20-BP2000G1-AU

Software Version ID: M100_220 V20.0

Software Version: 20.0

File Name: BP2000_20.0_BP2000G1_18.hex

Configuration Signature: 51800C6B

Eng. Project Number: 4132

Base PCBA: 56380-02

Control Panels:

TP600 version 2.7 or later (TP600CE may be used)

TP800 version 3.1 or later (Version 3.13 or later required for bba™)

TP900 version 3.1 or later (Version 3.13 or later required for bba™)





System Revision History

Part #	EPN	Date	Originator	Changes Made
56377	3936	10-08-12	BWG	Initial Release BP2000G1
56377				
56377				
56377-01	4008	01-29-13	BWG	Add Setups 17 and 18, Add TP600 Support
56377-01				
56377-01				
56377-02	4132	09-26-13	BWG	Updated to latest software version. Adds GFCI Trip (but not GFCI Automatic Test).
56377-02				
56377-02				
56377-02	4132	01-30-14	BWG	Updated to latest software version, adding topside-intergrated bba™ support. Released to production.
56377-02				
56377-02				

bba™ (Balboa Bluetooth Amp) connection is documented seperately.

bba™ is only integrated into graphic display panels (TP800, TP900 and spaTouch™). With TP600 the Aux button operation of bba™ must be used.



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]

System Ouputs:

Pump 1		•	12A max Setups 12, 14 in Setups 1–6 ough heater	4, 17
Pump 2	240VAC	•		15-minute timer 11–14, 17, 18
Pump 3	240VAC	1-Speed in	12A max Setups 1, 7 Setups 2, 5, 0 Setups 3, 4, 9	
Blower	240VAC	•		15-minute timer , 6–8, 10, 13, 14
Circ Pump		1-Speed neater pump r 20 GPM thro	2A max in Setups 7–1 ough heater	Programmable Filtration Cycles + Polling 4, 16, 17
0zone	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	40VAC max		

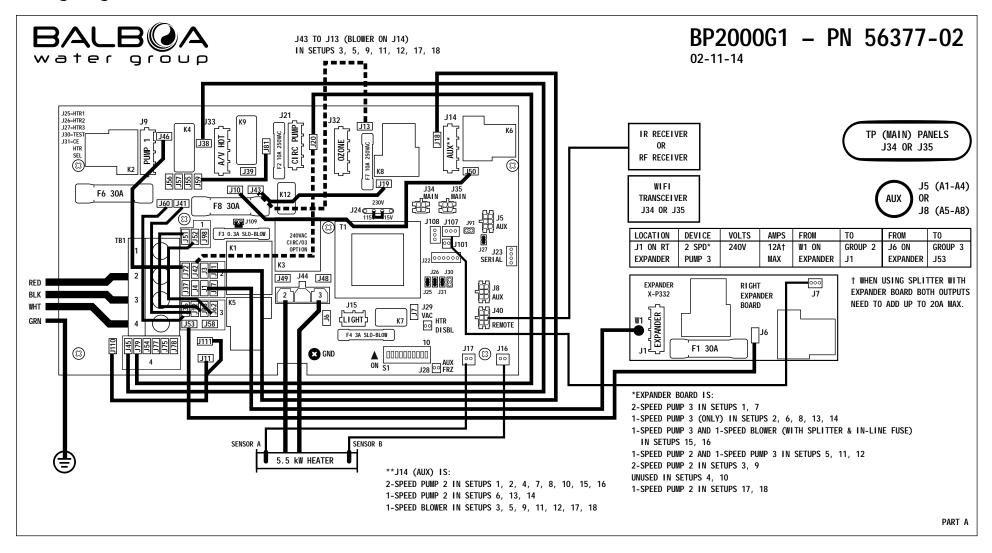
^{*}Both the Circ pump and Ozone can be converted to 240V, however they will be the same voltage after conversion. (Both 120V or both 240V.)



^{*}BP systems automatically detect 50Hz vs 60Hz.

Hardware Setup

Wiring Diagram





Hardware Setup

Settings

SETUP #

2

3

5‡

6

7

8

9

10

11±

12‡

13

14

15‡

16‡

17

18

LOCATION	DEVICE	VOLTS	MAX AMPS	FROM	T0
J9	PUMP 1	240V	12A MAX	J46	J72-GROUP 2
J14	AUX	240V	12A MAX	J18	J3-GROUP 2
	AUX LINE 1 CO	NNECTION	J19	J43	
J15	SPA LIGHT	12V	1A		
J21	CIRC PUMP	120V*	2A MAX	J20	J79-GROUP 4
J32	OZONE		1A		
	CIRC AND OZON	E LINE 1	CONNECTION	J81	J59
J33	TV / AV	120V	3A	J38	J45-GROUP 4
J44	HEATER	240V	5.5 kW		

PUMP 1

2-SPEED

1-SPEED

2-SPEED

1-SPEED

2-SPEED

2-SPEED

1-SPEED

2-SPEED

PUMP 2

2-SPEED

2-SPEED

2-SPEED

2-SPEED

1-SPEED

1-SPEED

2-SPEED

2-SPEED

2-SPEED

2-SPEED

1-SPEED

1-SPEED

1-SPEED

1-SPEED

2-SPEED

2-SPEED

1-SPEED

1-SPEED

CIRC PUMP

NONE

NONE

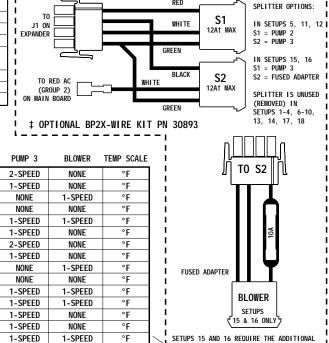
NONE

NONE

NONE

NONE

PROGRAMMABLE FILTRATION + POLLING



SWITCHBANK S1 OFF
SWITCHBANK S1 ON

TEST MODE OFF
A1 TEST MODE ON

TOWN T ADD 1 HS DIMP WATER

A2 ADD 1 HS DIMP WATER

⋖ A1	TEST MODE ON
A2 ►	ADD 1 HS PUMP WITH HEAT
⋖ A3	ADD 2 HS PUMPS WITH HEAT
⋖ A4	ADD 4 HS PUMPS WITH HEAT
■ A5	SPECIAL AMPERAGE RULE A
⋖ A6	MEMORY RESET**
⋖ A7	5 MIN HTR COOLDOWN (GAS)
≪ A8	NOT ASSIGNED
⋖ A9	NOT ASSIGNED
◀ A10	NOT ASSIGNED
	A2 ► A3 A4 A5 A6 A7 A8 A9

^{**} SWITCH # 6 SHOULD BE SET TO OFF UPON FINAL INSTALLATION.

USE COPPER CONDUCTORS ONLY.
EMPLOYER UNIQUEMENT DES CONDUCTEURS DE CUIVRE.
#6 AWG MIN. WIRE = 90°

FOR SUPPLY CONNECTIONS, USE CONDUCTORS SIZED ON THE BASIS OF 60°C AMPACITY BUT RATED MINIMUM OF 90°C .

TORQUE RANGE FOR MAIN TERMINAL BLOCK (TB1): 27-30 IN. LBS. (31.1-34.5 kg cm)

CONNECT ONLY TO CIRCUITS PROTECTED BY A CLASS A GFCI.

A DISCONNECTING MEANS MUST BE INSTALLED WITHIN SIGHT FROM
THE EQUIPMENT AND AT LEAST 5 FEET (1.52 M) FROM THE
I INSIDE WALLS OF THE POOL, SPA, OR HOT TUB.

TOTAL OUTPUT AMP DRAW NOT TO EXCEED MAX INPUT RATING OF SPA
USE EARTH GROUND CONNECTIONS AS INDICATED INSIDE THE SYSTEM ENCLOSURE

PUMP 1 LOW TIMEOUT IS 15 MINUTES.

‡SETUPS 5, 11, 12, 15 AND 16 REQUIRE BP2X-WIRE KIT PN30893



1-SPEED

NONE

NONE



°F

°F

1-SPEED

1-SPEED

1-SPEED



FUSED ADAPTER FOR BLOWER OUTPUT

BP2000G1 - PN 56377-02

02-11-14

PART B



^{*} FOR 240V CIRC PUMP AND OZONE, CONNECT J20 TO J42 (IN GROUP 2)

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

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

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



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

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

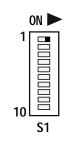
DANGER! HIGH VOLTAGE WILL BE ACCESSIBLE! SERVICE TECHNICIAN ONLY!

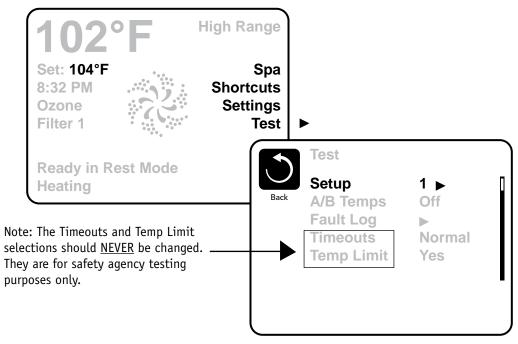
While the system is running, move DIP Switch 1 (on S1 on the Main circuit board) to ON. The system will enter Test Mode.

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.







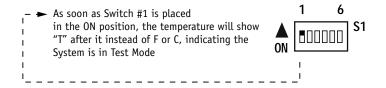
Changing Software Setups with TP600/400

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 TP600/400 Continued

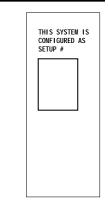
Again, You will have 1 minute to complete the setup change after you manually exit Priming Mode.

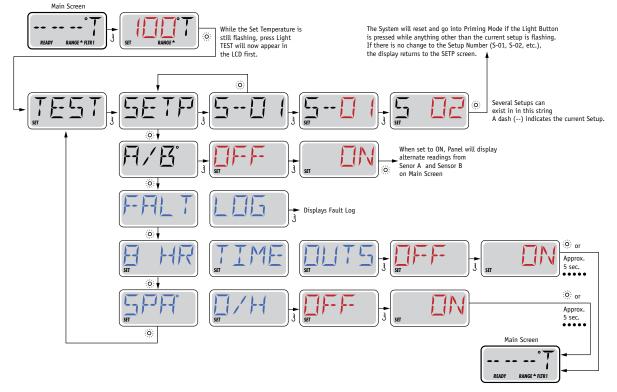
Immediately after exiting Priming Mode, press this sequence of buttons: Warm*, Light, Warm, Warm, Warm. Continue to press Warm until the diplay shows the Setup Number (S-01, S-02, etc.) you want to switch to. When the correct setup number is showing, press Light once, and the system will reset, using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





Kev

- Indicates Flashing or Changing Segment
- Indicates Alternating or Progressive Message every 1/2 second
- 3 A temperature button, used for "Action"
- OF Light or dedicated "Choose" button, depending on control panel configuration
- • • Waiting time varies depending on function

*If the Control Panel does not have a Warm (Up) button, but rather a single Temp button, use the Temp button in place of the Warm button in the instruction above. (The flow chart assumes a single Temperature Button.)



Equipment Expansion

Expansion Features		
Control Connection	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 in Setups 3, 9 in Setups 17, 18
Relay 9/10 (J108)	Undefined	None



DIP Switch Functions

Fixed-fuction 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.

A4 In "ON" position, add four high-speed pumps (or 3 HS Pumps 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, 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

A7 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

J109	GFCI Test/Trip Enable/Disable Note: This feature must be enabled in software as well.	J109 ⊱
J91	Real Time Clock Enable/Disable Note: This Jumper should NOT be shorted when the Control Panel can display time of day.	J91 ©a_
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 installed.	in conjunction with the spa.
J25, J26, J27	Heater Type Settings. Note: Factory Configured do not change.	J27 J25 61 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 (5 0 0 0 115 15V

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.



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				

Ozone With Heater Pump*

Ozone Suppression OFF

Cleaup as Preference setting

Pump Purge60 SecondsBlower Purge30 SecondsMister Purge5 Seconds

Purge Type Serial - Pumps at lowest speed

Blue Indicates New Custom Configuration Default (Setup 1)



^{*} The heater Pump can be either a Circ Pump or Pump 1 Low.

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	<i>10</i>	11	12	13	14	15	16	17	18	19	20	21	22
°F	39	41	43	45	46	48	50	52	54	55	<i>57</i>	59	61	63	64	66	68	70	72
°C	23	24	25	26	27	28	29	30	31	<i>32</i>	33	34	<i>35</i>	36	<i>37</i>	38	39	40	
°F	73	<i>75</i>	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°
Hi-Range Default Temp*	100°
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

Blue Indicates New Custom Configuration Default (Setup 1)



^{*}May be changed by end-user (if enabled)

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

Blue Indicates New Custom Configuration Default (Setup 1)



^{*}May be changed by end-user (if enabled)

Reminder Features

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

Blue Indicates New Custom Configuration Default (Setup 1)



^{*}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	Setup 3, 3, 17, 10	3ctap 4, 10
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

55676-07 or later - No Overaly 50335-01 or later - Includes Overlay PN 12762





TP800 Panel Configuration

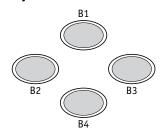
Button Layout Table

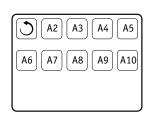
Feature #	Pump 3, Blower & Circ	NO Pump 3, Blower & Circ	Pump 3, NO Blower & Circ	NO Pump 3, NO Blower & Circ	Pump 3, Blower & NO Circ	NO Pump 3, Blower & NO Circ	Pump 3, NO Bl & NO Circ	NO Pump 3, NO Bl & NO Circ
	Setups 11, 12, 16	Setup 9, 17	Setups 7, 8, 13, 14	Setup 10	Setups 5, 15	Setup 3, 18	Setups 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
А3	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
В3	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

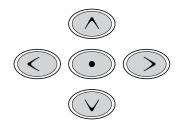


TP800 Panel Configuration

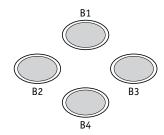
Spa Screen

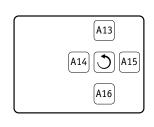


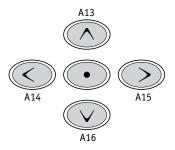




Shortcuts Screen







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

Button 1 is fixed.

Panel Part Number

Overlay Part Number

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



TP900 Panel Configuration

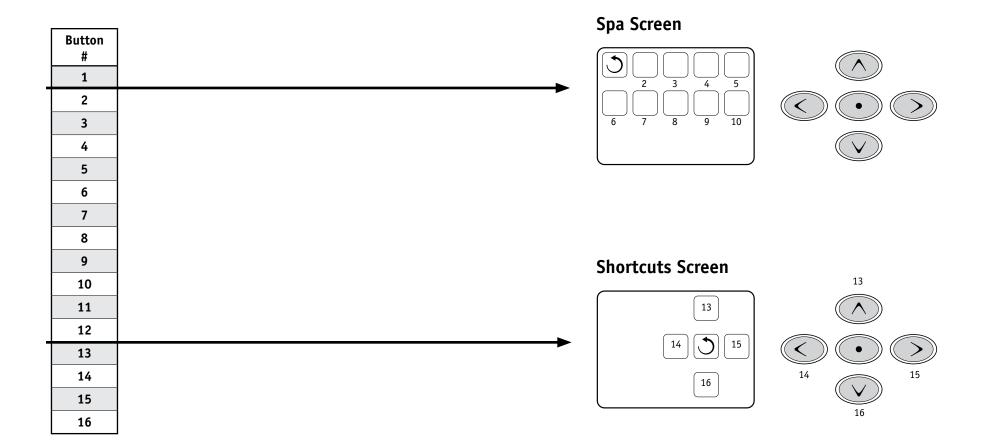
Button Layout Table

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



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*

Feature	Default
Aux Button A5	Jets 1
Aux Button A6	Jets 2
Aux Button A7	Jets 3
Aux Button A8	Light

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

Bank 2 consists of J8 on the Main Circuit Board.

Aux Connection Splitter PN25257 may be required.

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



Auxilliary 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.

Auxiliary Panel Part Number	
Overlay Part Number	

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

Bank 2 consists of J8 on the Main Circuit Board.

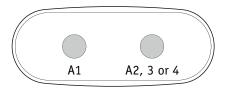
Aux Connection Splitter PN25257 may be required.

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

AX20

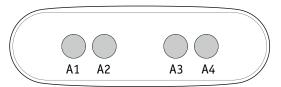
AX20 A1A2	No O/L	52800
AX20 A1A3	No O/L	52801
AX20 A1A4	No O/L	52802



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

AX40

AX40 No 0/L 52799



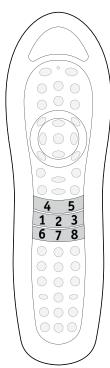
AX40 Auxiliary Panel plugged into Bank 1 will operate A1 + A2, A3 and A4. AX40 Auxiliary Panel plugged into Bank 2 will operate A5 + A6, A7 and A8.



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 NumberOverlay Part Number

