NBP6013H Tech Sheet

Customer: **NanTong**

Part Number: 56751-01 800 Incoloy 3kW
56771-01 800 Incoloy 2kW

Custom Box Overlay ☐
Box Overlay Part Number N/A

CE System Model for 3kW: BP21-NBP6013H-RCA3.0K
CE System Model for 2kW: BP21-NBP6013H-RCA2.0K
Software Version ID: M100_226 V37.0
Software Version: 37.0
File Name: BP6013_37.0_NBP6013H_2REM.hex
Configuration Signature: 27824C62

Eng. Project Number: 4913

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)
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)
TP600	Version 2.7* and later (Version 2.12 or later required for bba™/bba™2 On/Off control via menu)
TP400T CE	Version 2.7* and later (TP400T US should not be used) (Version 2.12 or later required for bba™/bba™2 On/Off control via menu)
TP400W CE	Version 2.7* and later (TP400W US should not be used) (Version 2.12 or later required for bba™/bba™2 On/Off control via menu)

* TP600/TP400T/TP400W version 2.14 or later required for new reminders to display correctly.
TP800 version 4.2 or later (or spaTouch™ version 2.2 or later) required for new reminders to display correctly.

BALBOA water group

System Revision History

Part #	EPN	Date	Originator	Changes Made
ZT000154	4467	03-03-15	Customer	Custom BP6013 with expander board, mirror of NBP501X but with Circ Setups added.
ZT000162	4467	03-31-15	Customer	Redesigned, eliminating 3-Pump Setups, and allowing heater on its own service in 3x16A.
56751	4467	04-10-15	Customer	Add two new reminders. Release to production.
56771	4546	07-07-15	Customer	Create 2.0kW version.
56751-01 56771-01	4913	12-06-17	Babloa	Updated to latest software version, adding topside-intergrated bba™2 support to graphic display panels, and also adding bba™/bba™2 On/Off support to TP600/TP400 Menus. Released to production.

bba™ & bba™2 (Balboa Bluetooth Amp) connection is documented seperately.

bba™ is integrated into graphic display panels (TP800, TP900 and spaTouch™). With TP600/TP400, use the “BT” entry on the menu to toggle bba™ power On/Off.

bba™2 is integrated into graphic display panels (TP800, TP900 and spaTouch™). With TP600/TP400, use the “BT” entry on the menu to toggle bba™2 power On/Off.

Basic Functions Setup 1-16

Power Requirements:

Single Service [3 wires (line, neutral, ground)]
230VAC, 50/60Hz*, 1þ, 32A, (Circuit Breaker rating = 40A max.)

Dual Service [5 wires (line 1, neutral 1, line 2, neutral 2, ground)]
230VAC, 50/60Hz, 2þ, 16A, (Circuit Breaker rating = 20A max each phase line.)

3-Service [5 wires (line 1, line 2, line 3, neutral, ground)]
400VAC, 50/60Hz*, 3þ, 16A, (Circuit Breaker rating = 20A max each phase line.)

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.

IMPORTANT - Service must include a neutral wire, with a line to neutral voltage of 230VAC.

*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.

In 3x16A Service:

Pump 2 (if any) and Blower (if any) are on one service.

The Heater is on another service.

Everything else is on the remaining service.

In 2x16A Service:

Pump 2 (if any), Blower (if any), and the Heater are on one service.

Everything else is on the other service.

BALBOA water group

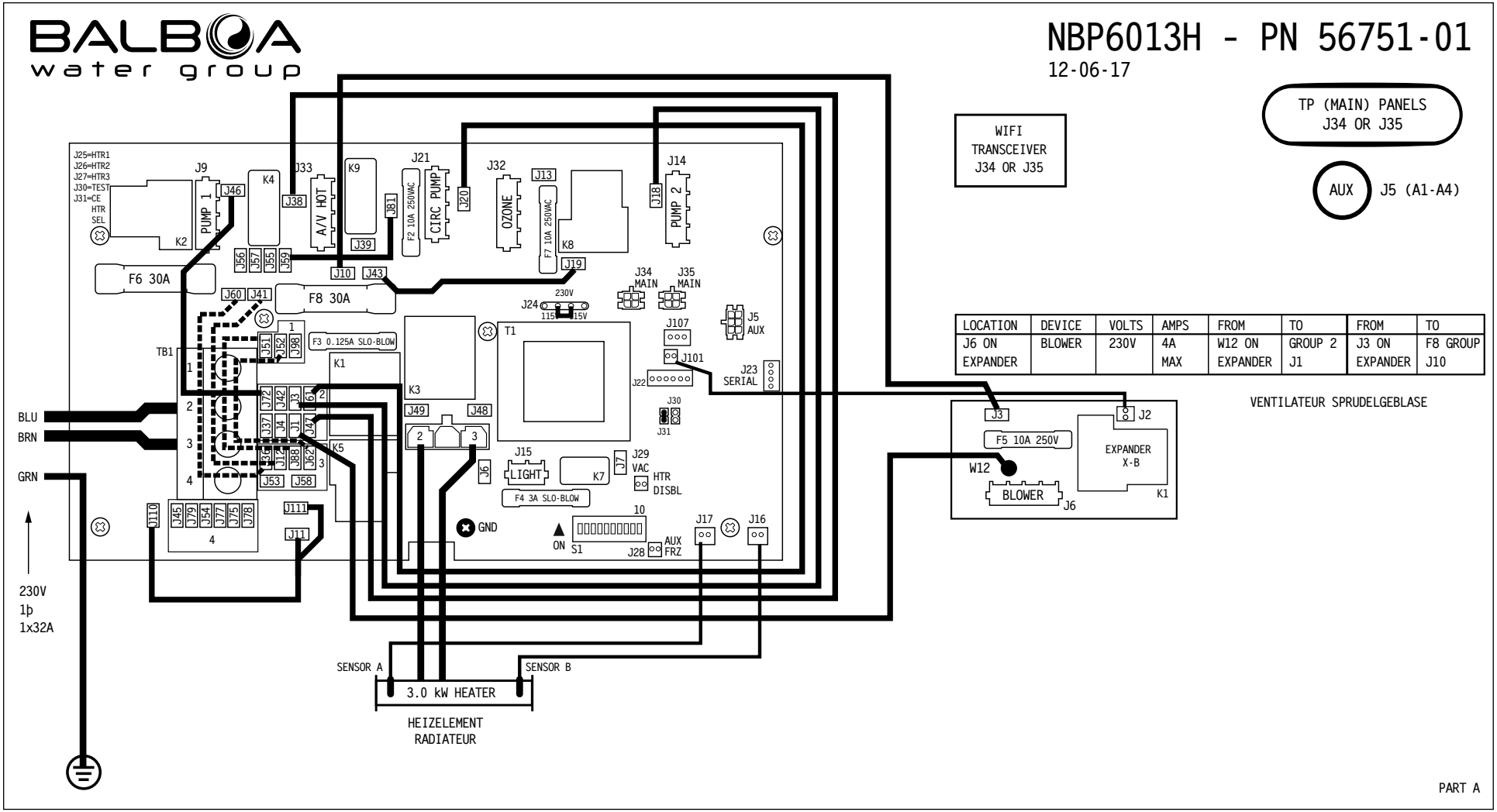
Basic Functions Setup 1-16

System Ouputs:

Pump 1	230VAC	2-Speed	12A max	15-minute timer (30-minute timer for P1 Low in non-circ setups only) 1 Speed in Setups in Setups 9 - 16 This is the heater pump in Setups 1 - 8. Must deliver 20 GPM through heater
Pump 2	230VAC	1-Speed	12A max	15-minute timer Unused in Setups 2, 4, 6, 8, 10, 12, 14 & 16
Blower	230VAC	1-Speed	4A max	15-minute timer Used in Setups 1, 2, 5, 6, 9, 10, 13 & 14
Circ Pump	230VAC	1-Speed	2A max	Programmable Filtration Cycles + Polling This is the heater pump in Setups 9 - 16. Must deliver 20 GPM through heater
Ozone	230VAC		.5A max	Slaved to Circ Pump in Circ Setups 9 - 16. Independent in Non-Circ Setups 1 - 8.
Spa Light	10VAC	On/Off	1A max	240-minute timer.
A/V (Stereo)	230VAC	Hot	4A max	Always on
Heater	3.0kW @ 240VAC max			

Hardware Setup

Wiring Diagram



Hardware Setup

Settings

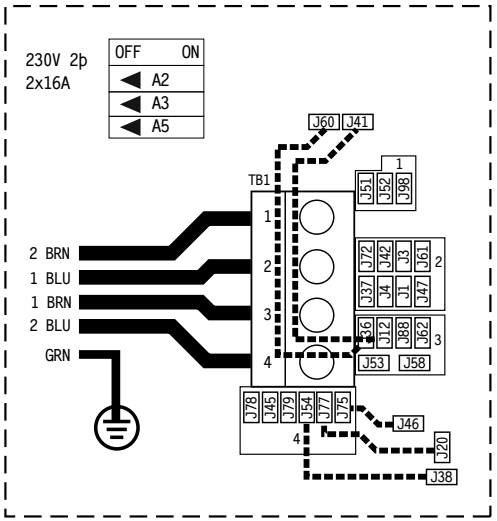
SINGLE SERVICE 230V 1þ / 1x32A, TWO-SERVICE 230V 2þ / 2x16A, THREE-SERVICE 230V 3þ / 3x16A

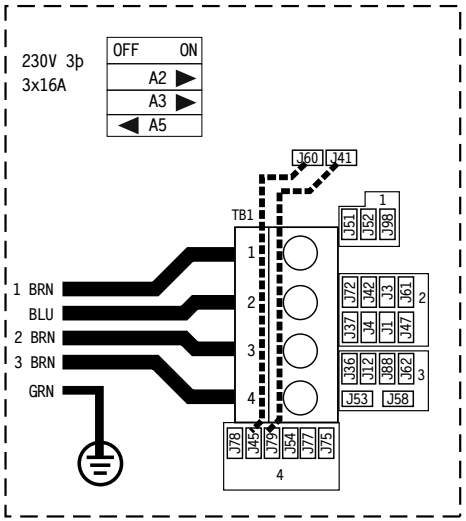
LOCATION	DEVICE
J9	NETZSTROMVERSORGUNG 2/1-GESCHW.-PUMPE 1 ALIMENTATION POMPE 1 A 2/1 VITESSES 2/1-SPEED PUMP 1
J14	NETZSTROMVERSORGUNG 1-GESCHW.-PUMPE 2 ALIMENTATION POMPE 2 A 1 VITESSES 1-SPEED PUMP 2
	P2 LINE 1 CONNECTION J19 to J43
J15	10V BELEUCHTUNG ECLAIRAGE BAIN HYDRO SPA LIGHT
J21	KREISLAUF PUMPE POMPE DE CIRCULATION CIRC PUMP
J32	OZONGENERATOR GENERATOROZONE OZONE GENERATOR
	CIRC AND OZONE LINE 1 CONNECTION J81 to J59
J33	TV / AV
J5	AUX PANEL(S) - AX10, AX20, AX30, AX40

230V 1þ
1x32A

SWITCHBANK S1 OFF		SWITCHBANK S1 ON
TEST MODE OFF	◀ A1	TEST MODE ON
DON'T ADD 1 HS PUMP W/HTR	A2 ▶	ADD 1 HS PUMP WITH HEAT
DON'T ADD 2 HS PUMPS W/HTR	◀ A3	ADD 2 HS PUMPS WITH HEAT
DON'T ADD 4 HS PUMPS W/HTR	◀ A4	ADD 4 HS PUMPS WITH HEAT
SPECIAL AMPERAGE RULE A	◀ A5	SPECIAL AMPERAGE RULE B
STORE SETTINGS*	◀ A6	MEMORY RESET*
1 MIN HTR COOLDOWN (ELEC)	◀ A7	5 MIN HTR COOLDOWN (GAS)
NOT ASSIGNED	◀ A8	NOT ASSIGNED
NOT ASSIGNED	◀ A9	NOT ASSIGNED
NOT ASSIGNED	◀ A10	NOT ASSIGNED

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





INSTEAD OF SETUP #13,THIS SYSTEM IS CONFIGURED IN SETUP #:

SETUP #	CIRC PUMP	PUMP 1	PUMP 2	PUMP 3	BLOWER	TEMP SCALE	MENU STYLE
1	NONE	2-SPEED	1-SPEED	NONE	1-SPEED	°C	STANDARD
2	NONE	2-SPEED	NONE	NONE	1-SPEED	°C	STANDARD
3	NONE	2-SPEED	1-SPEED	NONE	NONE	°C	STANDARD
4	NONE	2-SPEED	NONE	NONE	NONE	°C	STANDARD
5	NONE	2-SPEED	1-SPEED	NONE	1-SPEED	°C	SIMPLE
6	NONE	2-SPEED	NONE	NONE	1-SPEED	°C	SIMPLE
7	NONE	2-SPEED	1-SPEED	NONE	NONE	°C	SIMPLE
8	NONE	2-SPEED	NONE	NONE	NONE	°C	SIMPLE
9	PGM FILT + POLLING	1-SPEED	1-SPEED	NONE	1-SPEED	°C	STANDARD
10	PGM FILT + POLLING	1-SPEED	NONE	NONE	1-SPEED	°C	STANDARD
11	PGM FILT + POLLING	1-SPEED	1-SPEED	NONE	NONE	°C	STANDARD
12	PGM FILT + POLLING	1-SPEED	NONE	NONE	NONE	°C	STANDARD
13	PGM FILT + POLLING	1-SPEED	1-SPEED	NONE	1-SPEED	°C	SIMPLE
14	PGM FILT + POLLING	1-SPEED	NONE	NONE	1-SPEED	°C	SIMPLE
15	PGM FILT + POLLING	1-SPEED	1-SPEED	NONE	NONE	°C	SIMPLE
16	PGM FILT + POLLING	1-SPEED	NONE	NONE	NONE	°C	SIMPLE

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

USE COPPER CONDUCTORS ONLY. EMPLOYER UNIQUEMENT DES CONDUCTEURS DE CUIVRE.

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

BALBOA water group

NBP6013H - PN 56751-01

12-06-17

PART B

Setup Reference Table

Setup #	Circ Pump	Pump 1	Pump 2	Pump 3	Blower	Temp Scale	Menu Style
1	None	2-Speed	1-Speed	None	1-Speed	°C	Standard
2	None	2-Speed	None	None	1-Speed	°C	Standard
3	None	2-Speed	1-Speed	None	None	°C	Standard
4	None	2-Speed	None	None	None	°C	Standard
5	None	2-Speed	1-Speed	None	1-Speed	°C	Simple
6	None	2-Speed	None	None	1-Speed	°C	Simple
7	None	2-Speed	1-Speed	None	None	°C	Simple
8	None	2-Speed	None	None	None	°C	Simple
9	Programmable Filtration + Polling	1-Speed	1-Speed	None	1-Speed	°C	Standard
10	Programmable Filtration + Polling	1-Speed	None	None	1-Speed	°C	Standard
11	Programmable Filtration + Polling	1-Speed	1-Speed	None	None	°C	Standard
12	Programmable Filtration + Polling	1-Speed	None	None	None	°C	Standard
13	Programmable Filtration + Polling	1-Speed	1-Speed	None	1-Speed	°C	Simple
14	Programmable Filtration + Polling	1-Speed	None	None	1-Speed	°C	Simple
15	Programmable Filtration + Polling	1-Speed	1-Speed	None	None	°C	Simple
16	Programmable Filtration + Polling	1-Speed	None	None	None	°C	Simple

System (and any replacement board) **is shipped in Setup 13**

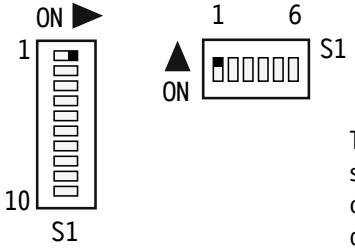
BALBOA water group

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!

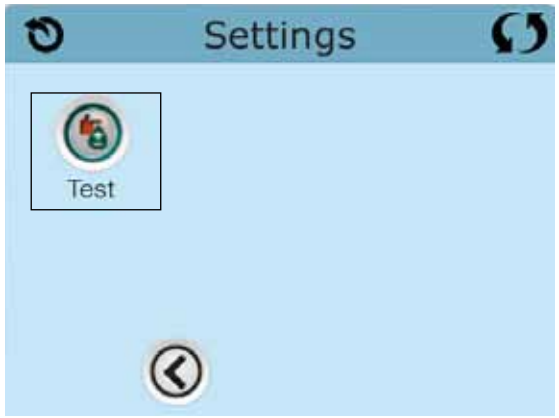
While the system is running, move DIP Switch 1 (on S1 on the Main circuit board) to ON. The system will enter Test Mode.
Moving DIP Switch 1 to OFF will exit Test Mode.

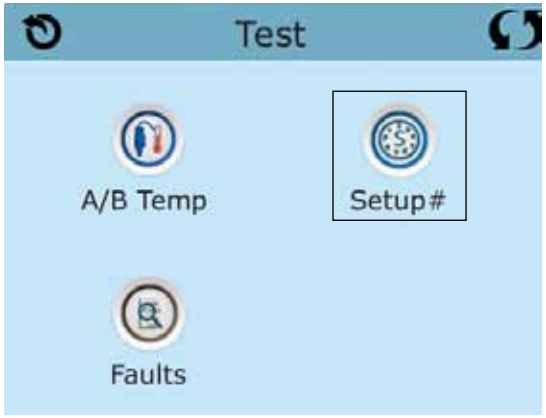


The example screens shown here are from the spaTouch 1 Icon-Driven Panel, but the screens on the spaTouch 2 Panel are similar. The main difference is that the spaTouch 2 display is wider.

To Change Software Setups:

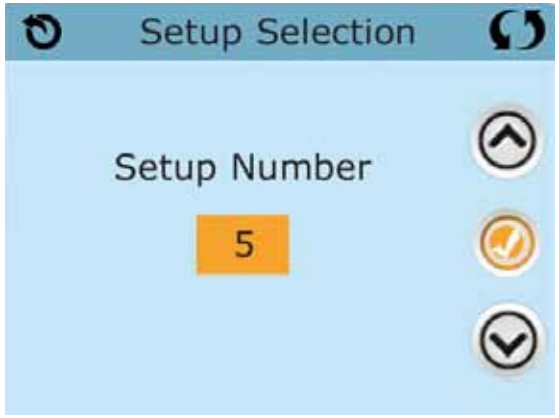
While in Test Mode, press the indicated icons to move from screen to screen.





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.

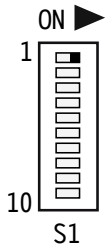


Changing Software Setups with TP800 / TP900 / spaTouch™ Menued Panel

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

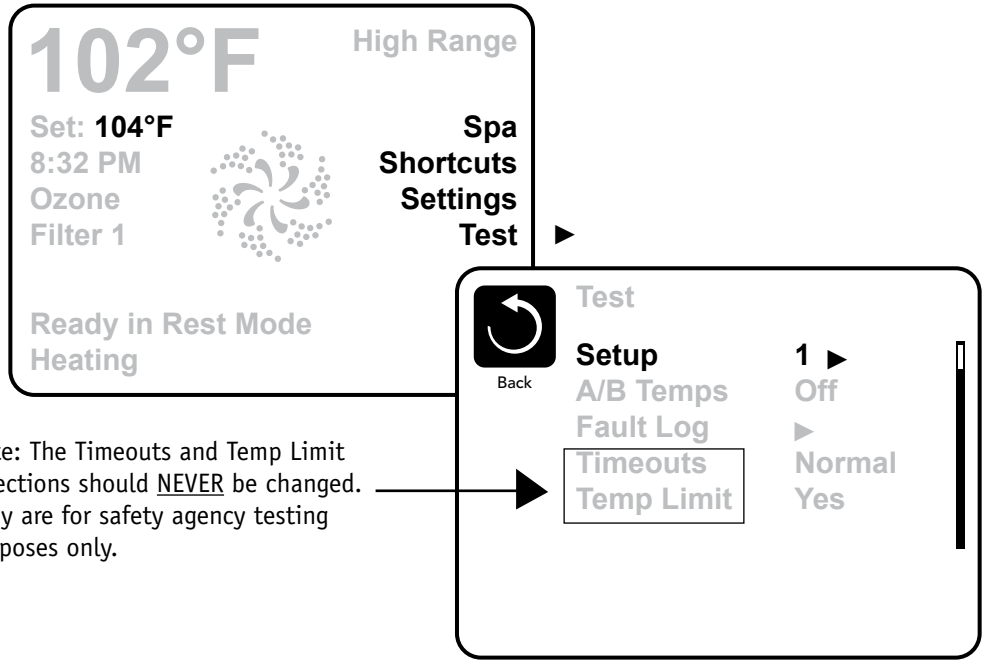
DANGER! HIGH VOLTAGE WILL BE ACCESSIBLE! SERVICE TECHNICIAN ONLY!

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.



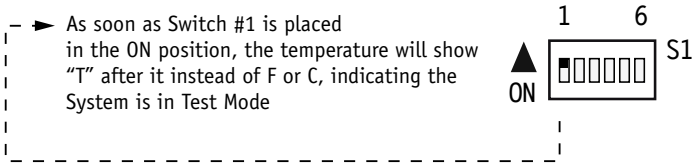
Note: The Timeouts and Temp Limit selections should NEVER be changed. They are for safety agency testing purposes only.

Changing Software Setups with TP600 / 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.

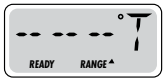


Software Setups

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.

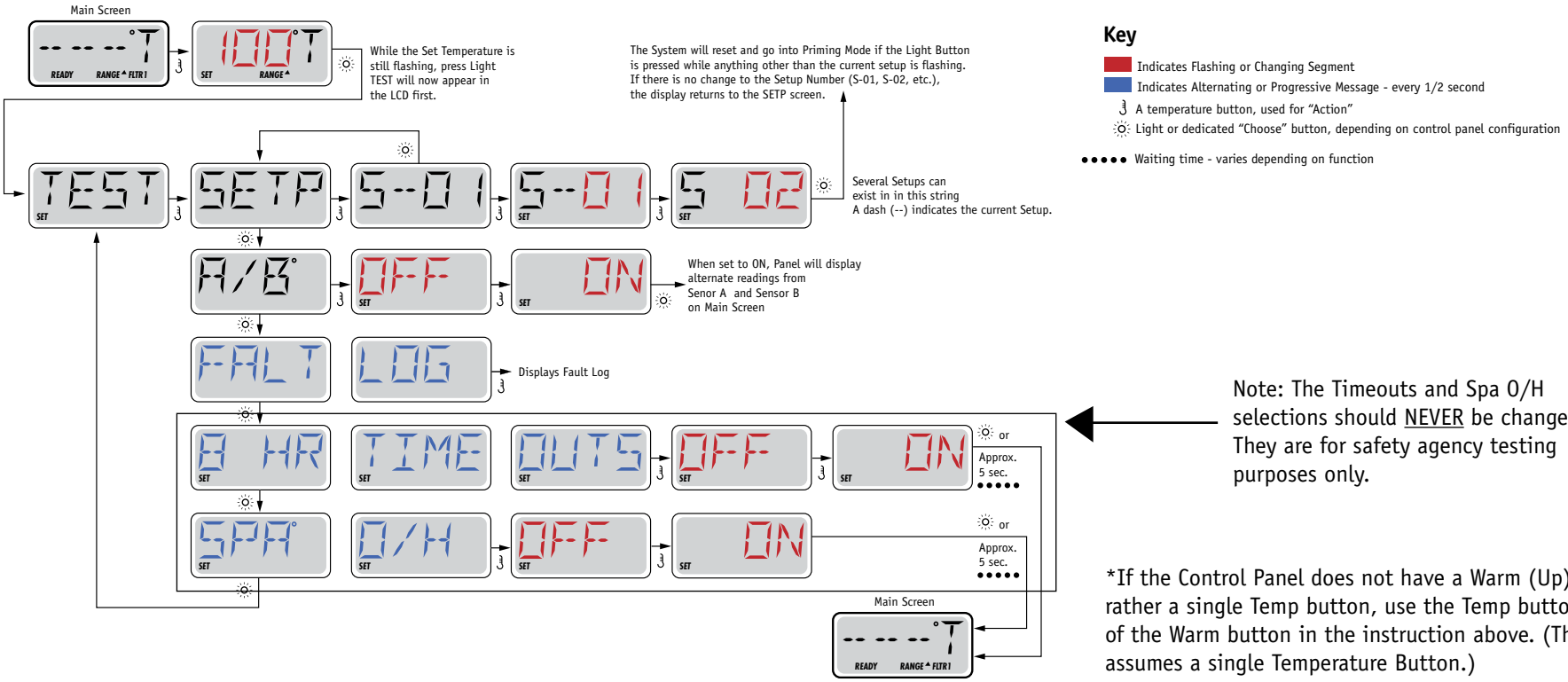
Immediately after exiting Priming Mode, press this sequence of buttons: Warm*, Light, Warm, Warm, Warm, Warm. Continue to press Warm until the diplay shows the Setup Number (S-01, S-02, etc.) you want to switch to. When the correct setup number is showing, press Light once, and the system will reset,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

THIS SYSTEM IS CONFIGURED AS SETUP #



Key

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

Note: The Timeouts and Spa O/H selections should NEVER be changed. They are for safety agency testing purposes only.

*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.)

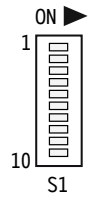
Equipment Expansion

Expansion Features

Control Connection	Default	Fuse
Relay 1 (J101)	1-Speed Blower	10A
Relay 7/8 (J107)	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.

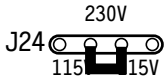
Note: *A2/A3/A4 all off = No heat with any high-speed pump or blower.*

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	Not present on BP6013 board.
J91	Not present on BP6013 board.
J30	Do Not Use
J31	Jumper on 1 pin with 2.0kW or smaller heater Jumper on 2 pins with a 3.0kW or higher heater J31 
J29	Heater Disable Switch Connection. If J29 is shorted by any means, the heater will not run until J29 is no longer shorted. J29  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.
J25, J26, J27	Not present on BP6013 board.
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. 

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.

BALBOA water group

Replacement Parts

PCBA:

Main PCBA:	56752-01 3.0kW
	56772-01 2.0kW
Expander PCBA:	53310

HEATER(s):

Plug + Click Heater Kit:	58300 3.0kW 800 Incoloy
	58289 2.0kW 800 Incoloy
Temp Sensor Kit:	53605

CABLES: N/A

FUSES:

Part Number	Amperage	Location
30136	30A	F6, F8
20600	3A	F4
26397	1/8A	F3
30122	10A	F2, F7, F5 (Expander)

BP6013 Configuration Options

General Features

Feature	Default	
Pump 1 in Filter Cycle (Circ Only)	No	
Pump 1 Low Timer	30 Minutes	Applies in non-circ Setups (configurations) only
General Pump Timer	15 Minutes	Applies to all pumps, except Pump 1 low in Non-Circ Setups
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.

BP6013 Configuration Options

Temperature Features

Feature	Default
Temperature Display	°C

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)*

BP6013 Configuration Options

Time Features

Feature	Default
Time Format*	24 Hour
Filter 1 Start Hour*	20:00 (8:00 PM)
Filter 1 Duration*	2 Hours
Filter Cycle 2 Default*	*ON*
Filter 2 Start Hour*	08:00 (8:00 AM)
Filter 2 Duration*	*2 Hours*
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)*

BP6013 Configuration Options

Reminder Features

Feature	Default
Reminders Shown*	*Yes*
Check pH	7 Days
Check Sanitizer	7 Days
Clean Filter	*7 Days*
Test GFCI	*60 Days*
Drain Water	90 Days
Change Cartridge	OFF
Clean Cover	*90 Days*
Treat Wood	*OFF*
Change Filter	*120 Days*
Check Ozone (E047**)	*365 Days*
Service Check-up (E048**)	*240 Days*

*** On TP panels that have not been updated to display these new reminders, they will display as these numeric codes.*

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

BP6013 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	Not Applicable for CE Models
Ozone Slaved to Heater Pump	*Yes in circ setups* *No in non-circ setups*
Dual Voltage Heater	Always Input Voltage
Safety Suction	Disabled
Menu Style	*Standard in Setups 1 - 4 & 9 - 12* *Simple in Setups 5 - 9 & 13 - 16*

TP800 Panel Configuration

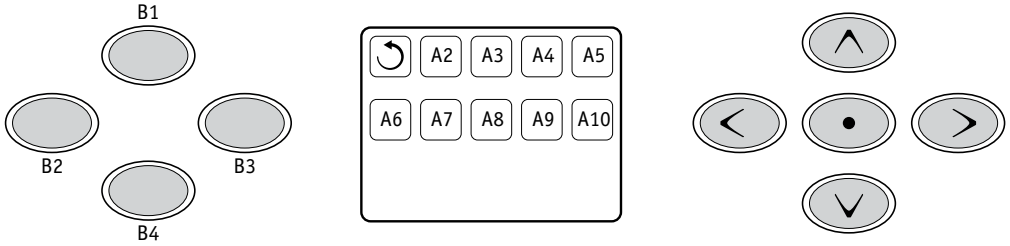
Button Layout Table

Feature #	Setup 1	Setup 2	Setup 3	Setup 4	Setup 9	Setup 10	Setup 11	Setup 12
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	Blower	Jets 2	Light 1	Jets 2	Blower	Jets 2	Light 1
A4	Blower	Light 1	Light 1	Invert	Blower	Light 1	Light 1	Invert
A5	Light 1	Invert	Invert	Undefined	Light 1	Invert	Invert	(Circ Icon)
A6	Invert	Undefined	Undefined	Undefined	Invert	(Circ Icon)	(Circ Icon)	Undefined
A7	Undefined	Undefined	Undefined	Undefined	(Circ Icon)	Undefined	Undefined	Undefined
A8	Undefined	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	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A14	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A15	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A16	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
B2	Jets 2	Blower	Jets 2	Undefined	Jets 2	Blower	Jets 2	Undefined
B3	Blower	Undefined	Undefined	Undefined	Blower	Undefined	Undefined	Undefined
B4	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1

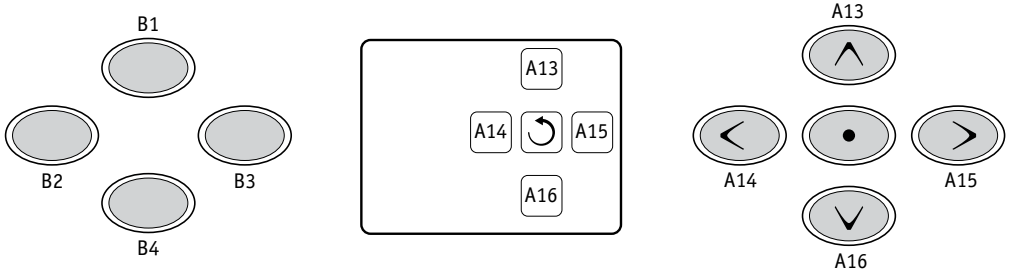
TP800 is not supported in Simplified Menu Setups 5 - 8 & 13 - 16.

TP800 Panel Configuration

Spa Screen



Shortcuts Screen



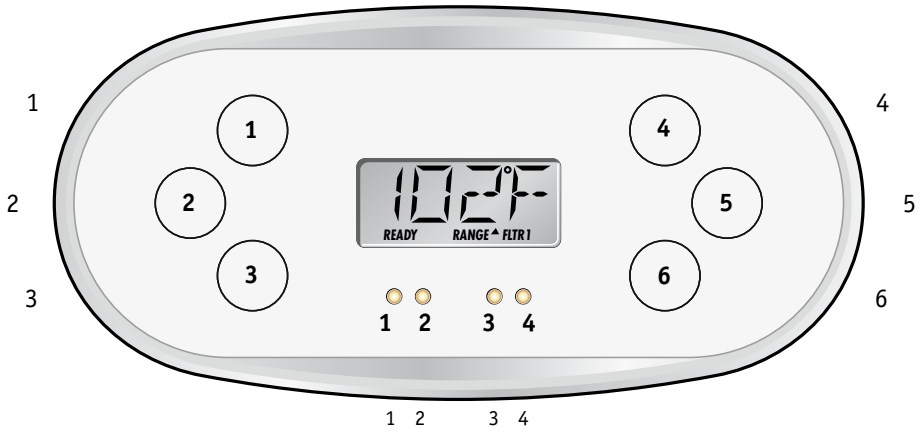
Note: *Buttons 11 and 12 are not used in this configuration.*

Button 1 is fixed.

TP600 Panel Configuration

Button Layout Table

Button #	Setups 1, 5, 9 & 13	Setups 2, 6, 10 & 14	Setups 3, 7, 11 & 15	Setups 4, 8, 12 & 16
1	Jets 1	Jets 1	Jets 1	Jets 1
2	Jets 2	Blower	Jets 2	Undefined
3	Blower	Invert	Invert	Invert
4	Up	Up	Up	Up
5	Light 1	Light 1	Light 1	Light 1
6	Down	Down	Down	Down
LED 1	Jets 1	Jets 1	Jets 1	Jets 1
LED 2	Jets 2	Blower	Jets 2	Undefined
LED 3	Light 1	Light 1	Light 1	Light 1
LED 4	Heat On	Heat On	Heat On	Heat On



TP600

55676-XX

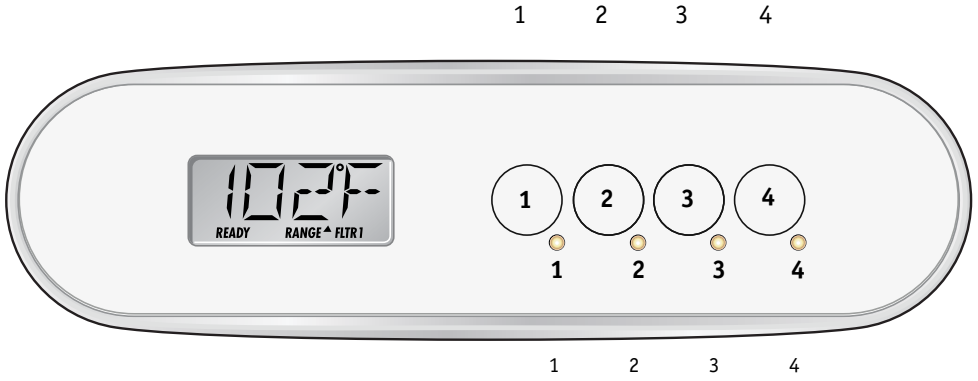
No Overlay

TP400 Panel Configuration

Button Layout Table for TP400T

Button #	Setups 2, 6, 10 & 14	Setups 3, 7, 11 & 15	Setups 4, 8, 12 & 16
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 is not supported in Setups 1, 5, 9 & 13 (that have both Pump 2 and Blower).



TP400T CE

50260-XX

Includes overlay PN 12511.

Button Layout Table for TP400W

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 for setups that only have one pump (No Blower or Pump 2).

TP400W CE

50259-XX

Includes overlay PN 12510.

BP6013 Configuration Options

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

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

Aux Connection Splitter PN 25257 may be required.

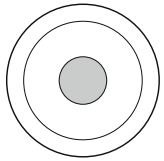
Buttons that are assigned to equipment that is not defined in a Setup will not do anything in that Setup.

BP6013 Configuration Options

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



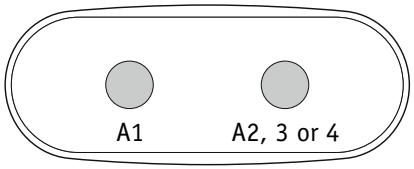
Call Customer Service for additional information about Auxiliary Panels.

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

Aux Connection Splitter PN 25257 may be required.

AX20

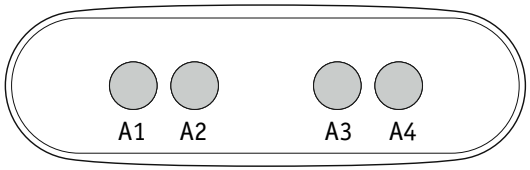
AX20 A1A2	No O/L	52800
AX20 A1A3	No O/L	52801
AX20 A1A4	No O/L	52802



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.