BP20PLG1 Tech Sheet

Customer: **Balboa Water Group**

Part Number:	59237	800 Incoloy 5.5kW
	59238	Titanium 5.5kW
Custom Box Overlay	☐	
Box Overlay Part Number	N/A	

UL System Model:	BP20-BP20PLG1-AU
Software Version ID:	M100_220 V43.0
Software Version:	43.0
File Name:	BP2000_43.0_BP20PLG1.hex
Configuration Signature:	7148AEE0
Eng. Project Number:	5199

Control Panels:

spaTouch™2	Any version (version 2.0 or later required for bba™2 fully integrated functionality; version 2.19 or later required for CHROMAZON∃™ 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)
TP600	Version 2.7 and later (Version 2.12 or later required for bba™/bba™2 On/Off control via menu)

System Revision History

Part #	EPN	Date	Originator	Changes Made
59237 59238	5199	03-05-19	BWG	Generic BP2000Plus system, with 3 2-Speed Pumps, plus either a 4th Pump (2-speed or 1-Speed), or a Blower, or MicroSilk®, plus optional Circ.

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 1-8

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. 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 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.

Basic Functions Setup 1-8

System Ouputs:

Pump 1	240VAC	2-Speed	11A max*	15-minute timer for High Speed, 15-Minute timer for Low Speed This is the heater pump in Setups 2, 4, 6 & 8 Must deliver 20 GPM through heater
Pump 2	240VAC	2-Speed	11A max*	15-minute timer
Pump 3	240VAC	2-Speed	11A max*	15-minute timer
Pump 4	240VAC	2-Speed	11A max*	15-minute timer 1-Speed in Setups 3 & 4 Unused in Setup 5–8
Blower	240VAC	1 Speed	5A max*	15-minute timer Used in Setups 5 & 6 only
MicroSilk®	240VAC	1-Speed	8A max	30-minute timer Used in Setups 7 & 8 only
Circ Pump	240VAC***	1-Speed	2A max*	Programmable Filtration Cycles + Polling This is the heater pump in Setups 1, 3, 5 & 7 Must deliver 20 GPM through heater
Ozone	240VAC***		.5A max*	Slaved to Circ Pump in Setups 1, 3, 5 & 7 Independent in Setups 2, 4, 6 & 8
Spa Light	10VAC	On/Off	2A** max	240-minute timer.
A/V (Stereo)	240VAC****	Hot	2A max*	Always on
Heater	5.5kW @ 240VAC max			

* These are individual maximums but depending on the electrical services they may need to be reduced.

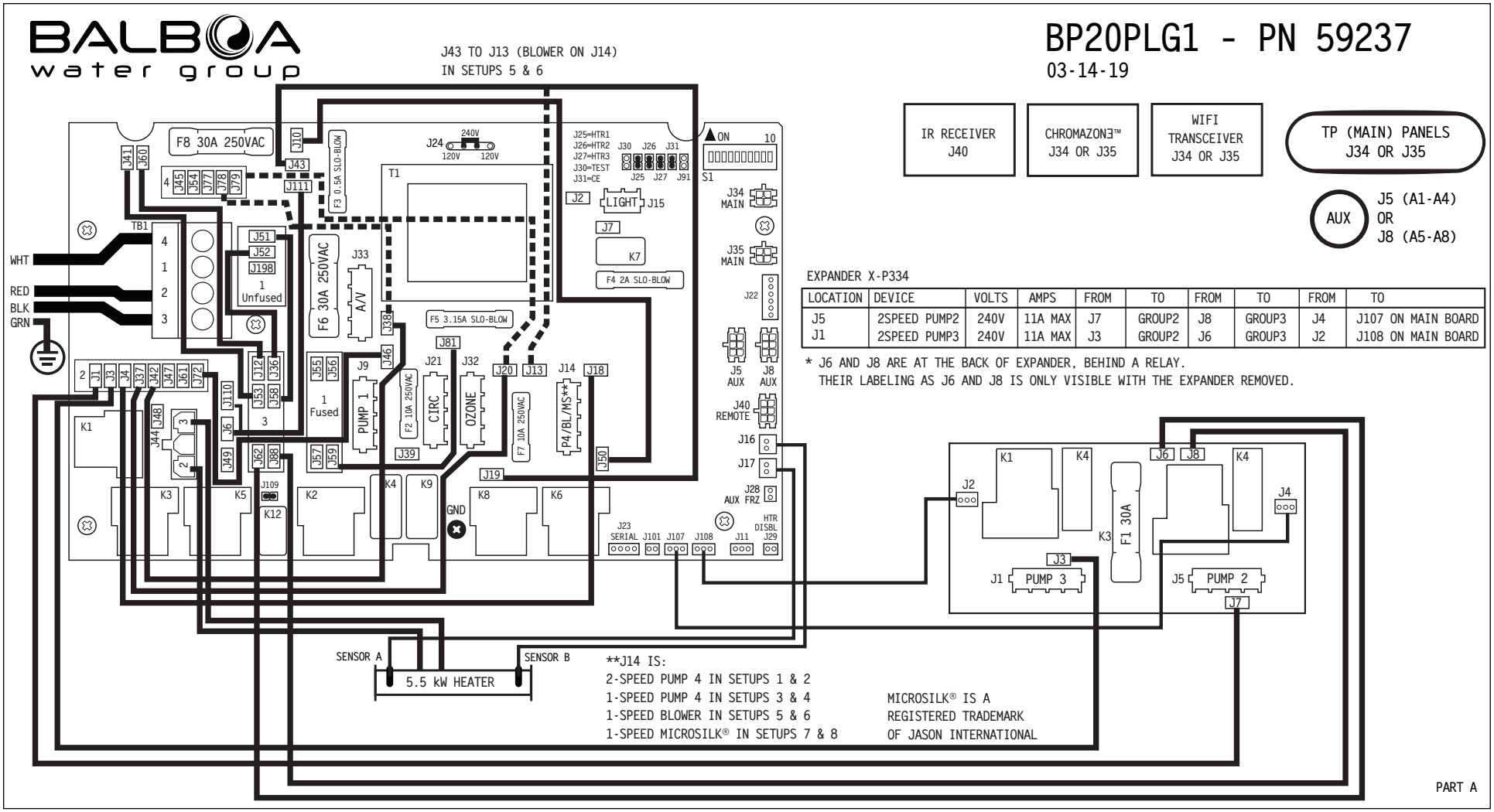
*** Both the Circ pump and Ozone can be converted to 120V, however they will be the same voltage after conversion. (Both 120V or both 240V.)
****The A/V can be converted to 120V; however, if converting A/V to 120V makes A/V use more than 2A max, then all 4 pumps cannot be 11A max.

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

MicroSilk® is a registered trademark of Jason International.

Hardware Setup

Wiring Diagram



LOCATION	DEVICE	VOLTS	AMPS	FROM	TO	FROM	TO	FROM	TO
J5	2SPEED PUMP2	240V	11A MAX	J7	GROUP2	J8	GROUP3	J4	J107 ON MAIN BOARD
J1	2SPEED PUMP3	240V	11A MAX	J3	GROUP2	J6	GROUP3	J2	J108 ON MAIN BOARD

Hardware Setup

Settings

LOCATION	DEVICE	VOLTS	MAX AMPS	FROM	TO
J9	2-SP PUMP 1	240V	11A MAX	J46	GROUP 2
J14	2/1-SP PUMP 4	240V	11A MAX	J18	GROUP 2
J14	1SP MICROSILK®	240V	8A MAX	J18	GROUP 2
	J14 LINE 1 CONNECTION (P4/MS)			J43 J10	J19 J50
J14	1-SP BLOWER	240V	5A MAX		GROUP 2
	J14 LINE 1 CONNECTION (BLOWER)			J43 J10	J13 J50
J15	SPA LIGHT	10V	2A*		
J21 J32	CIRC PUMP OZONE	240V**	2A MAX 1A	J20	GROUP 2
	CIRC AND OZONE LINE 1 CONNECTION			J81	J59
J33	TV / AV	240V***	2A***	J38	GROUP 2
J44	HEATER	240V	5.5 kW		

* 2A LIMIT IS SHARED BY J15 SPA LIGHT AND CHROMAZONE™

** FOR 120V CIRC PUMP AND OZONE, CONNECT J20 TO GROUP 4. CIRC PUMP AND OZONE HAVE TO BE THE SAME VOLTAGE (BOTH 240V OR BOTH 120V).

*** FOR 120V A/V, CONNECT J38 TO GROUP 4. HOWEVER: IF CHANGING A/V TO 120V MAKES A/V USE MORE THAN 2A, THEN ALL 4 PUMPS CANNOT BE 11A MAX.

SETUP #	CIRC PUMP	PUMP 1	PUMP 2	PUMP 3	PUMP 4	BLOWER	MICROSILK®	TEMP SCALE
1	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	2-SPEED	2-SPEED	NONE	NONE	°F
2	NONE	2-SPEED	2-SPEED	2-SPEED	2-SPEED	NONE	NONE	°F
3	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	2-SPEED	1-SPEED	NONE	NONE	°F
4	NONE	2-SPEED	2-SPEED	2-SPEED	1-SPEED	NONE	NONE	°F
5	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	2-SPEED	NONE	1-SPEED	NONE	°F
6	NONE	2-SPEED	2-SPEED	2-SPEED	NONE	1-SPEED	NONE	°F
7	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	2-SPEED	NONE	NONE	1-SPEED	°F
8	NONE	2-SPEED	2-SPEED	2-SPEED	NONE	NONE	1-SPEED	°F

INSTEAD OF SETUP #3, THIS SYSTEM IS CONFIGURED IN SETUP #: [ ]

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.

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 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

BALBOA water group

BP20PLG1 - PN 59237
07-17-19
PART B

BALBOA water group

Setup Reference Table

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

System (and any replacement board) **is shipped in Setup 3**

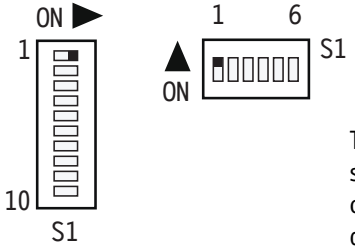
BALBOA water group

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!

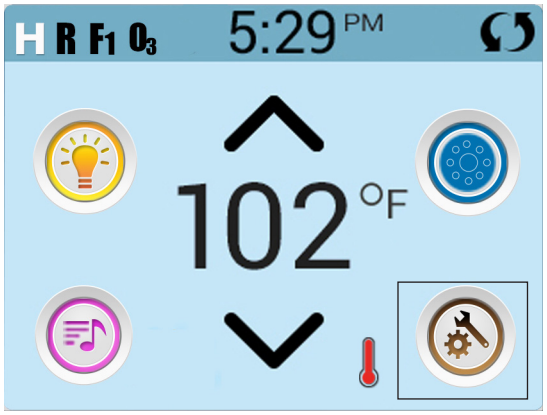
While the system is running, move DIP Switch 1 (on S1 on the Main circuit board) to ON. The system will enter Test Mode.
Moving DIP Switch 1 to OFF will exit Test Mode.

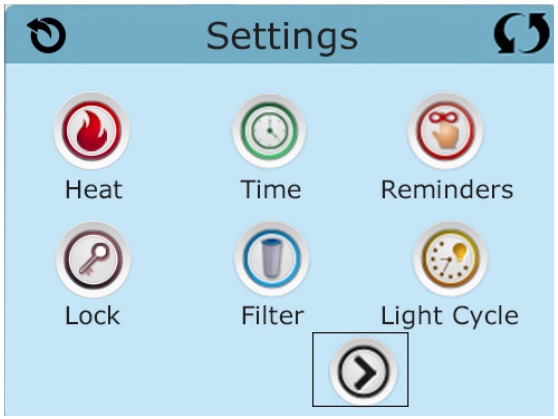


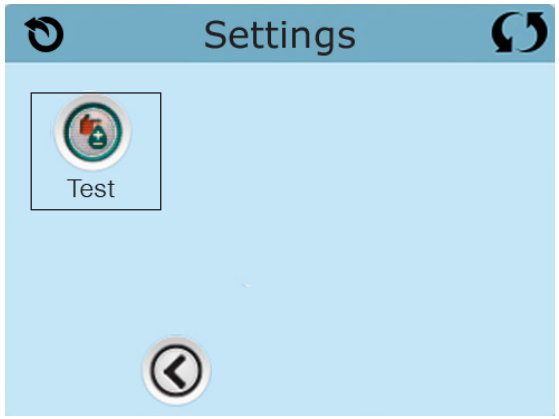
The example screens shown here are from the spaTouch 1 Icon-Driven Panel, but the screens on the spaTouch 2 Panel are similar. The main difference is that the spaTouch 2 display is wider.

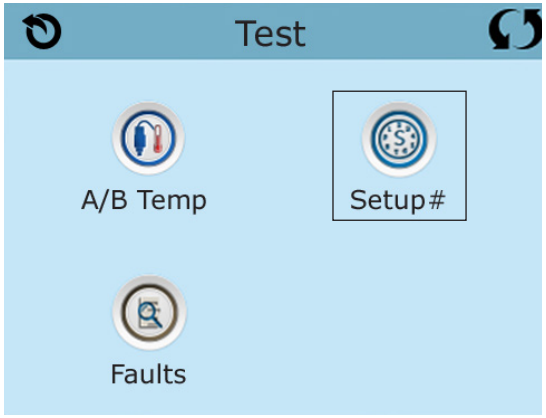
To Change Software Setups:

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



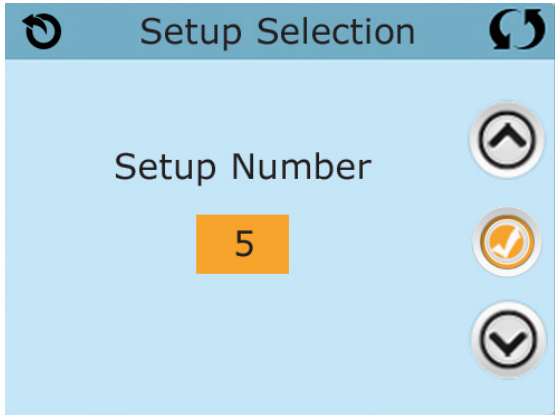






Once on the Setup Selection screen, press the Up or Down icon to select the desired Setup Number, then press the Check Mark icon to confirm and to have the spa restart.

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.

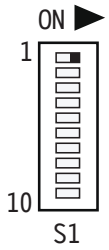


Changing Software Setups with TP800 / TP900 / spaTouch™ Menued Panel

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

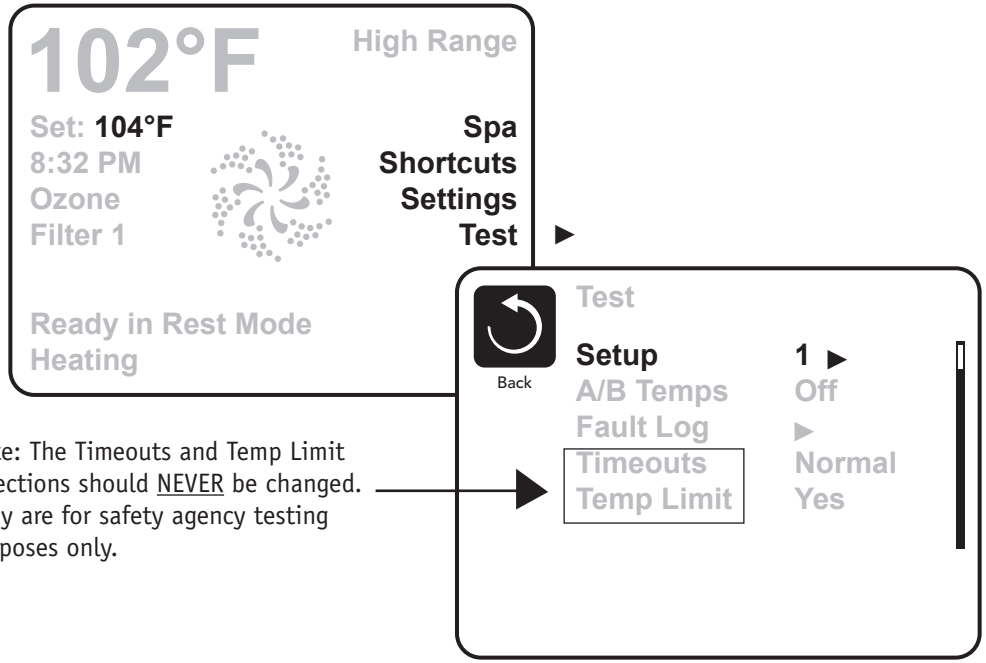
DANGER! HIGH VOLTAGE WILL BE ACCESSIBLE! SERVICE TECHNICIAN ONLY!

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.

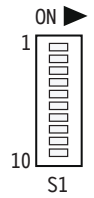
Equipment Expansion

Expansion Features

Control Connection	Default	Fuse
Relay 1 (J101)	Undefined	None
Relay 7/8 (J107)	Pump 2	30A
Relay 9/10 (J108)	Pump 3	uses same fuse as Pump 2 since it's on the same expander board as Pump 2

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 
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 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.	J29 
J25, J26, J27	Heater Type Settings. ***Note:*** *Factory Configured do not change.*	J27  J25   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  115 115V

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:	59239
Expander PCBA:	59136

HEATER(s):

Plug + Click Heater Kit:	58083R16 5.5kW 800 Inc
	55624R16 5.5kW Titanium
Temp Sensor Kit:	53605

CABLES: N/A

FUSES:

Part Number	Amperage*	Location
30136	30A	F6, F8, F1 (Expander)
26307	2A	F4
26905	0.5A	F3
26904	10A	F2, F7
26976	3.15A	F5

* 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.

BP2000 Configuration Options

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*
Cleanup 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.

BALBOA water group

BP2000 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)*

BP2000 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)*

BALBOA water group

BP2000 Configuration Options

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)*

BP2000 Configuration Options

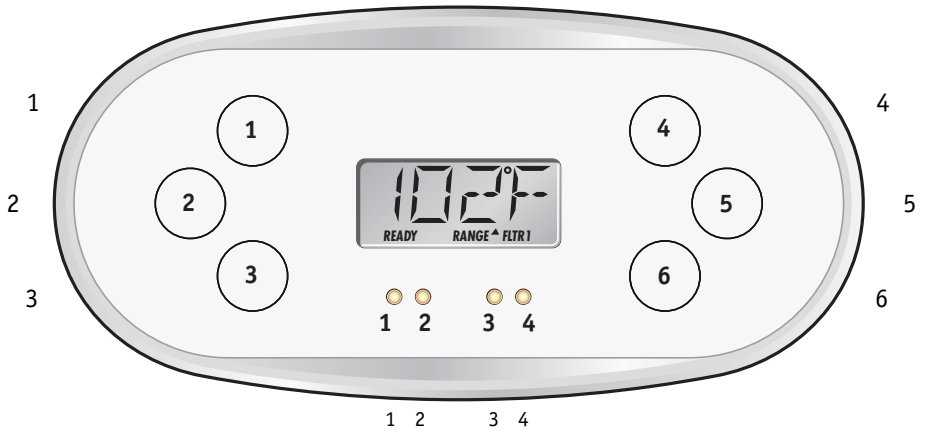
Special Features

Feature	Default
Special Amperage Rule A	In Setups 7 & 8: MicroSilk® turns off pumps immediately. In akk other Setups: No Limitation
Special Amperage Rule B	In Setups 1 - 4: 3 high-speed pumps max. In Setups 5 & 5: Blower turns off with 3 high speed pumps. In Setups 7 & 8: MicroSilk® turns off pumps immediately.
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 #	Setups 1 - 4	Setups 5 & 6	Setups 7 & 8
1	Jets 1	Jets 1	Jets 1
2	Jets 2	Jets 2	Jets 2
3	Jets 3	Jets 3	Jets 3
4	Temperature	Temperature	Temperature
5	Light 1	Light 1	Light 1
6	Jets 4	Blower	MicroSilk®
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



<u>On overlay 13579 (shown below):</u>
In Setups 1 - 4, the button labeled “AUX“ controls Jets 4.
In Setups 5 & 6, the button labeled “AUX“ controls Blower.
In Setups 7 & 8, the button labeled “AUX“ controls MicroSilk®.

TP800 Panel Configuration

Button Layout Table

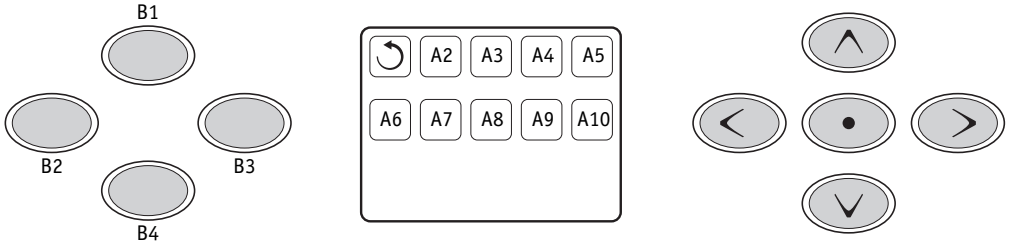
Feature #	Setups 1 & 3	Setups 2 & 4	Setup 5	Setup 6	Setup 7	Setup 8
A1	N/A	N/A	N/A	N/A	N/A	N/A
A2	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
A3	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2
A4	Jets 3	Jets 3	Jets 3	Jets 3	Jets 3	Jets 3
A5	Jets 4	Jets 4	Blower	Blower	MicroSilk®	MicroSilk®
A6	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1
A7	Invert	Invert	Invert	Invert	Invert	Invert
A8	(Circ Icon)	Undefined	(Circ Icon)	Undefined	(Circ Icon)	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	Jets 2	Jets 2	Jets 2	Jets 2
A15	Jet 3	Jet 3	Jet 3	Jet 3	Jet 3	Jet 3
A16	Jet 4	Jet 4	Blower	Blower	MicroSilk®	MicroSilk®
B1	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
B3	Jets 3	Jets 3	Blower	Blower	MicroSilk®	MicroSilk®
B4	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1

Overlay Part Number 12512.

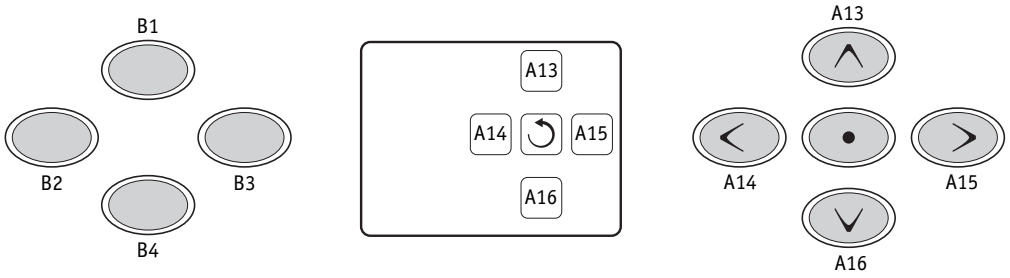
Button labled “AUX“ controls Jets 3 in Setups 1 -4, Blower in Setups 5 & 6, and MicroSilk® in Setup 7 & 8.

TP800 Panel Configuration

Spa Screen



Shortcuts Screen



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

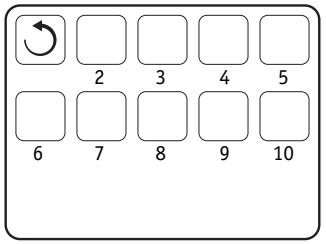
Feature #	Setups 1 & 3	Setups 2 & 4	Setup 5	Setup 6	Setup 7	Setup 8
A1	N/A	N/A	N/A	N/A	N/A	N/A
A2	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
A3	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2	Jets 2
A4	Jets 3	Jets 3	Jets 3	Jets 3	Jets 3	Jets 3
A5	Jets 4	Jets 4	Blower	Blower	MicroSilk®	MicroSilk®
A6	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1
A7	Invert	Invert	Invert	Invert	Invert	Invert
A8	(Circ Icon)	Undefined	(Circ Icon)	Undefined	(Circ Icon)	Undefined
A9	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A10	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
11	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
13	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
15	Jet 3	Jet 3	Jet 3	Jet 3	Jet 3	Jet 3
16	Jet 4	Jet 4	Blower	Blower	MicroSilk®	MicroSilk®

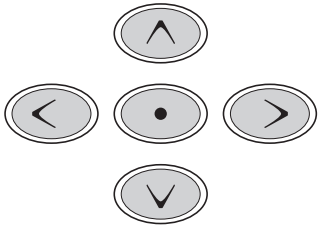
A Circ Icon will appear when a Circ Pump is configured.

TP900 Panel Configuration

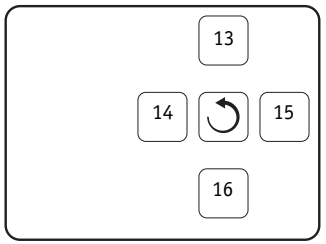
Button #
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

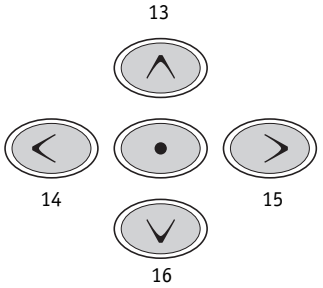
Spa Screen





Shortcuts Screen





BP2000 Configuration Options

Auxiliary 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

Auxiliary Panel Features on Bank 2*

Feature	Default
Aux Button A5	*Jets 3*
Aux Button A6	*Jets 4*
Aux Button A7	*MicroSilk®*
Aux Button A8	Light

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

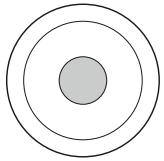
*Bank 1 consists of J5 on the Main Circuit Board.
Bank 2 consists of J8 on the Main Circuit Board.
Aux Connection Splitter PN 25257 may be required.

BP2000 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.

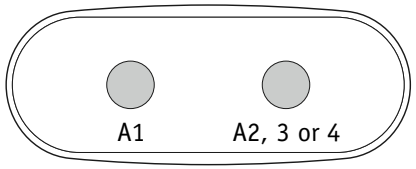
AX10 Panels on Bank 2*

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

*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

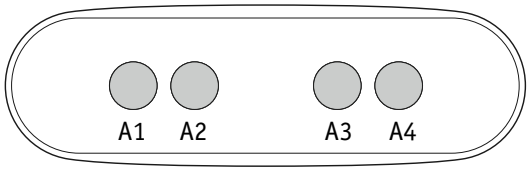
AX20 A1A2	No O/L	52800
AX20 A1A3	No O/L	52801
AX20 A1A4	No O/L	52802



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 O/L	52799

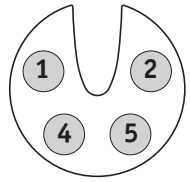


AX40 Auxiliary Panel plugged into Bank 1 will operate A1 + A2, A3 and A4.
AX40 Auxiliary Panel plugged into Bank 2 will operate A5 + A6, A7 and A8.

BP2000 Configuration Options

Remote Panel Features

Feature	Default
Remote Button A1	Jets 1
Remote Button A2	Jets 2
Remote Button A3	*Undefined*
Remote Button A4	*Jets 3*
Remote Button A5	*Jets 4 in Setups 1 - 4, Blower in Setups 5 & 6, MicroSilk® in Setups 7 & 8*
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 _____