SSW20G2 Tech Sheet

Customer: **Balboa Water Group**

Part Number:	59446-01	800 Incoloy 5.5kW
	59447-01	825 Incoloy 5.5kW
	59448-01	Titanium 5.5kW
Custom Box Overlay	☐	
Box Overlay Part Number	N/A	

UL System Model:	BP20-SSW20G2-AU
Software Version ID:	M100_220 V69.0
Software Version:	69.0
File Name:	BP2000_69.0_SSW20G2.hex
Configuration Signature:	F26D07A1
Eng. Project Number:	5663

Control Panels:

spaTouch™3	Any version (version 3.2 or later required for Clim8zone™ heat pump support)
spaTouch™2	Swim verison 2.32 or later required for swim functions (only one of these can be used per pack); version 2.36 or later required for Clim8zone™ heat pump support) Swim-aware spa-side version 2.32 or later optional as second panel; version 2.36 or later required for Clim8zone™ heat pump support

System Revision History

Part #	EPN	Date	Originator	Changes Made
ZT000500 TBD	5209	06-03-19	BWG	Generic BP2000Plus-based SmartSwim™ system, with up to 4 2-Speed Pumps, plus optional Circ.
59446 59447 59448	5209	04-09-20	BWG	Release to production.
59446-01 59447-01 59448-01	5663	03-15-23	BWG	Update to support Clim8zone™ heat pump.

bba™2 / bba™3 (Balboa Bluetooth Amp) connection is documented separately.

bba™2 / bba™3 is integrated into graphic display panels (including spaTouch™).

Basic Functions Setup 1-25

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 J6 prior to performing HiPot test. Failure to disconnect may cause a false failure of the test. Reconnect terminal to J6 after successful completion of HiPot test.

Basic Functions Setup 1-25

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 3, 4, 13 - 16, 21 - 24 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
Circ Pump	240VAC***	1-Speed	2A max	Programmable Filtration Cycles + Polling This is the heater pump in Setups 1, 2, 5 - 12, 17- 20 & 25 Must deliver 20 GPM through heater
Ozone	240VAC***		.5A max	Slaved to Circ Pump in Setups 1, 2, 5 - 12, 17- 20 & 25 Independent in Setups 3, 4, 13 - 16, 21 - 24
Spa Light	10VAC	On/Off	2A** max	240-minute timer.
AV + C8Z****	240VAC	Hot	2A + 8A max	Always on
Heater	5.5kW @ 240VAC max			

* See Setup Chart (page 7) as to which pumps are swim pumps in each Setup, and as to whether there is a buoyancy pump. **All swim pumps must be identical.**

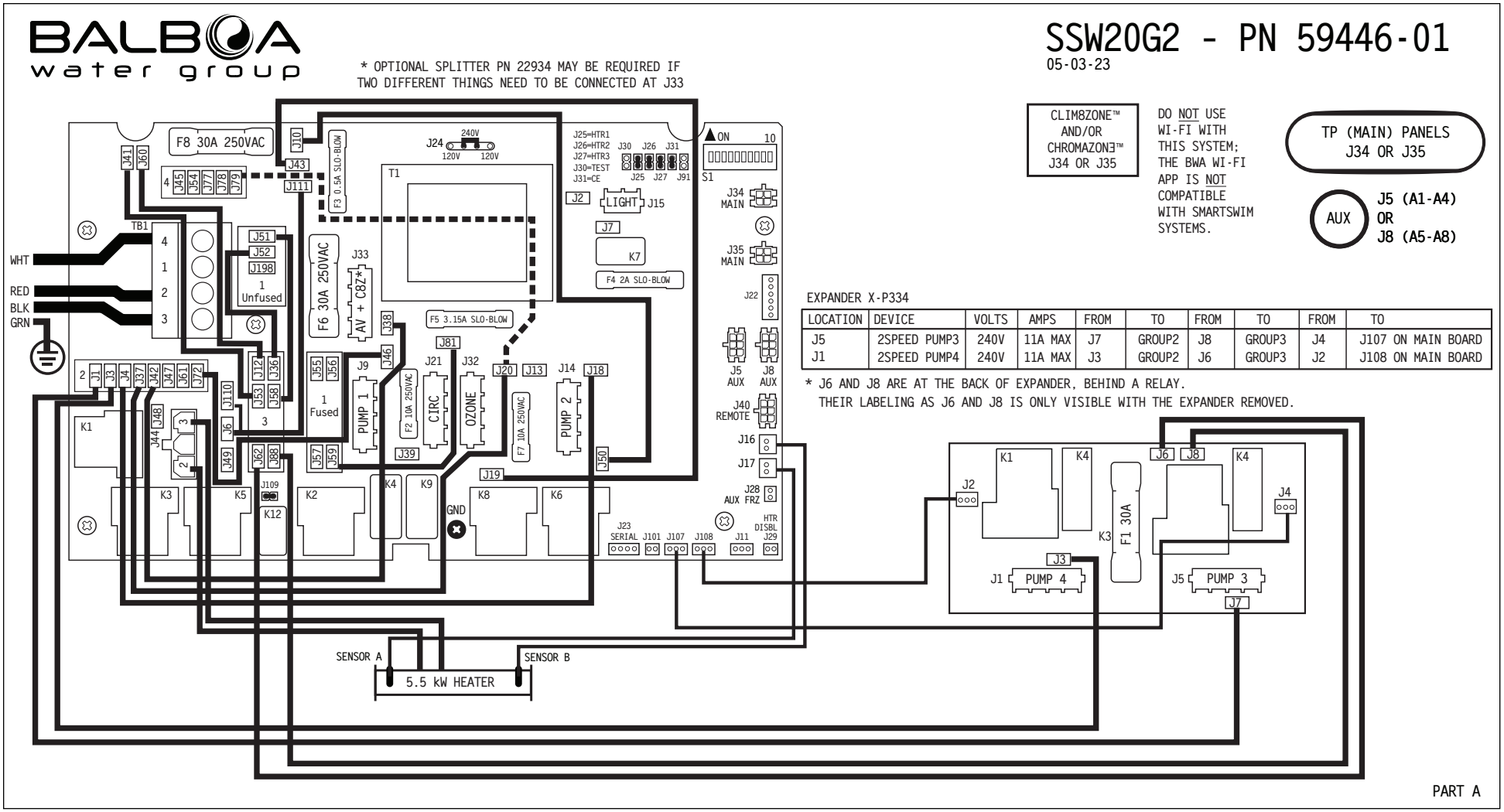
*** Both the Circ pump and Ozone can be converted to 120V, however they will be the same voltage after conversion. (Both 120V or both 240V.)

**** Optional splitter PN 22934 can be used to connect two things, such as an audio device and Clim8zone™(C8Z), to J33.

** 2A max limit is shared by On/Off Spa Light and CHROMAZON3™.

Hardware Setup

Wiring Diagram



LOCATION	DEVICE	VOLTS	AMPS	FROM	TO	FROM	TO	FROM	TO
J5	2SPEED PUMP3	240V	11A MAX	J7	GROUP2	J8	GROUP3	J4	J107 ON MAIN BOARD
J1	2SPEED PUMP4	240V	11A MAX	J3	GROUP2	J6	GROUP3	J2	J108 ON MAIN BOARD

Hardware Setup

Settings

SETUP #	CIRC PUMP	PUMP 1	PUMP 2	PUMP 3	PUMP 4	SWIM SPEEDS	SWIM PUMPS	PUMP 1 FUNCTION	PUMP 2 FUNCTION	TEMP SCALE
1	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	2-SPEED	2-SPEED	8	1 - 4	SWIM	SWIM	°F
2	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	2-SPEED	2-SPEED	7	1 - 4	SWIM	SWIM	°F
3	NONE	2-SPEED	2-SPEED	2-SPEED	2-SPEED	8	1 - 4	SWIM	SWIM	°F
4	NONE	2-SPEED	2-SPEED	2-SPEED	2-SPEED	7	1 - 4	SWIM	SWIM	°F
5	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	2-SPEED	2-SPEED	6	2 - 4	NON-SWIM	SWIM	°F
6	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	2-SPEED	2-SPEED	5	2 - 4	NON-SWIM	SWIM	°F
7	PROGRAMMABLE FILTRATION + POLLING	1-SPEED	2-SPEED	2-SPEED	2-SPEED	6	2 - 4	BUOYANCY	SWIM	°F
8	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	2-SPEED	2-SPEED	5	2 - 4	BUOYANCY	SWIM	°F
9	PROGRAMMABLE FILTRATION + POLLING	1-SPEED	2-SPEED	2-SPEED	2-SPEED	6	2 - 4	NON-SWIM	SWIM	°F
10	PROGRAMMABLE FILTRATION + POLLING	1-SPEED	2-SPEED	2-SPEED	2-SPEED	5	2 - 4	NON-SWIM	SWIM	°F
11	PROGRAMMABLE FILTRATION + POLLING	1-SPEED	2-SPEED	2-SPEED	2-SPEED	6	2 - 4	BUOYANCY	SWIM	°F
12	PROGRAMMABLE FILTRATION + POLLING	1-SPEED	2-SPEED	2-SPEED	2-SPEED	5	2 - 4	BUOYANCY	SWIM	°F
13	NONE	2-SPEED	2-SPEED	2-SPEED	2-SPEED	6	2 - 4	NON-SWIM	SWIM	°F
14	NONE	2-SPEED	2-SPEED	2-SPEED	2-SPEED	5	2 - 4	NON-SWIM	SWIM	°F
15	NONE	2-SPEED	2-SPEED	2-SPEED	2-SPEED	6	2 - 4	BUOYANCY	SWIM	°F
16	NONE	2-SPEED	2-SPEED	2-SPEED	2-SPEED	5	2 - 4	BUOYANCY	SWIM	°F
17	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	2-SPEED	2-SPEED	2-SPEED	4	3 - 4	NON-SWIM	BUOYANCY	°F
18	PROGRAMMABLE FILTRATION + POLLING	1-SPEED	2-SPEED	2-SPEED	2-SPEED	4	3 - 4	NON-SWIM	BUOYANCY	°F
19	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	1-SPEED	2-SPEED	2-SPEED	4	3 - 4	NON-SWIM	BUOYANCY	°F
20	PROGRAMMABLE FILTRATION + POLLING	2-SPEED	1-SPEED	2-SPEED	2-SPEED	4	3 - 4	NON-SWIM	NON-SWIM	°F
21	NONE	2-SPEED	2-SPEED	2-SPEED	2-SPEED	4	3 - 4	NON-SWIM	BUOYANCY	°F
22	NONE	2-SPEED	1-SPEED	2-SPEED	2-SPEED	4	3 - 4	BUOYANCY	NON-SWIM	°F
23	NONE	2-SPEED	1-SPEED	2-SPEED	2-SPEED	4	3 - 4	NON-SWIM	BUOYANCY	°F
24	NONE	2-SPEED	1-SPEED	2-SPEED	2-SPEED	4	3 - 4	NON-SWIM	NON-SWIM	°F
25	PROGRAMMABLE FILTRATION + POLLING	1-SPEED	1-SPEED	2-SPEED	2-SPEED	4	3 - 4	NON-SWIM	BUOYANCY	°F

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

INSTEAD OF SETUP #1, 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.

ALL SWIM PUMPS MUST BE IDENTICAL.

LOCATION	DEVICE	VOLTS	MAX AMPS	FROM	TO
J9	2/1-SP PUMP 1	240V	11A MAX	J46	GROUP 2
J14	2/1-SP PUMP 2	240V	11A MAX	J18	GROUP 2
	J14 LINE 1 CONNECTION			J43 J10	J19 J50
J15	SPA LIGHT	10V	2A*		
J21	CIRC PUMP	240V**	2A MAX	J20	GROUP 2
J32	OZONE		0.5A		
	CIRC AND OZONE LINE 1 CONNECTION			J81	J59
J33	AV + CLIMɃZONE™ (C8Z)	240V	2A + 8A	J38	GROUP 2
J44	HEATER	240V	5.5 kW		

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

** 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).

BALBOA water group

SSW20G2 - PN 59446-01
05-03-23 PART B

BALBOA water group

Setup Reference Table

Setup #	Circ Pump	Pump 1	Pump 2	Pump 3	Pump 4	Swim Speeds	Swim Pumps	Pump 1 Function	Pump 2 Function	Temp Scale
1	Programmable Filtration + Polling	2-Speed	2-Speed	2-Speed	2-Speed	8	1 - 4	Swim	Swim	°F
2	Programmable Filtration + Polling	2-Speed	2-Speed	2-Speed	2-Speed	7	1 - 4	Swim	Swim	°F
3	None	2-Speed	2-Speed	2-Speed	2-Speed	8	1 - 4	Swim	Swim	°F
4	None	2-Speed	2-Speed	2-Speed	2-Speed	7	1 - 4	Swim	Swim	°F
5	Programmable Filtration + Polling	2-Speed	2-Speed	2-Speed	2-Speed	6	2 - 4	Non-Swim	Swim	°F
6	Programmable Filtration + Polling	2-Speed	2-Speed	2-Speed	2-Speed	5	2 - 4	Non-Swim	Swim	°F
7	Programmable Filtration + Polling	1-Speed	2-Speed	2-Speed	2-Speed	6	2 - 4	Buoyancy	Swim	°F
8	Programmable Filtration + Polling	2-Speed	2-Speed	2-Speed	2-Speed	5	2 - 4	Buoyancy	Swim	°F
9	Programmable Filtration + Polling	1-Speed	2-Speed	2-Speed	2-Speed	6	2 - 4	Non-Swim	Swim	°F
10	Programmable Filtration + Polling	1-Speed	2-Speed	2-Speed	2-Speed	5	2 - 4	Non-Swim	Swim	°F
11	Programmable Filtration + Polling	1-Speed	2-Speed	2-Speed	2-Speed	6	2 - 4	Buoyancy	Swim	°F
12	Programmable Filtration + Polling	1-Speed	2-Speed	2-Speed	2-Speed	5	2 - 4	Buoyancy	Swim	°F
13	None	2-Speed	2-Speed	2-Speed	2-Speed	6	2 - 4	Non-Swim	Swim	°F
14	None	2-Speed	2-Speed	2-Speed	2-Speed	5	2 - 4	Non-Swim	Swim	°F
15	None	2-Speed	2-Speed	2-Speed	2-Speed	6	2 - 4	Buoyancy	Swim	°F
16	None	2-Speed	2-Speed	2-Speed	2-Speed	5	2 - 4	Buoyancy	Swim	°F
17	Programmable Filtration + Polling	2-Speed	2-Speed	2-Speed	2-Speed	4	3 - 4	Non-Swim	Buoyancy	°F
18	Programmable Filtration + Polling	1-Speed	2-Speed	2-Speed	2-Speed	4	3 - 4	Non-Swim	Buoyancy	°F
19	Programmable Filtration + Polling	2-Speed	1-Speed	2-Speed	2-Speed	4	3 - 4	Non-Swim	Buoyancy	°F
20	Programmable Filtration + Polling	2-Speed	1-Speed	2-Speed	2-Speed	4	3 - 4	Non-Swim	Non-Swim	°F
21	None	2-Speed	2-Speed	2-Speed	2-Speed	4	3 - 4	Non-Swim	Buoyancy	°F
22	None	2-Speed	1-Speed	2-Speed	2-Speed	4	3 - 4	Buoyancy	Non-Swim	°F
23	None	2-Speed	1-Speed	2-Speed	2-Speed	4	3 - 4	Non-Swim	Buoyancy	°F
24	None	2-Speed	1-Speed	2-Speed	2-Speed	4	3 - 4	Non-Swim	Non-Swim	°F
25	Programmable Filtration + Polling	1-Speed	1-Speed	2-Speed	2-Speed	4	3 - 4	Non-Swim	Buoyancy	°F

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

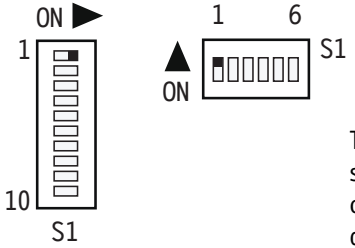
BALBOA water group

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!

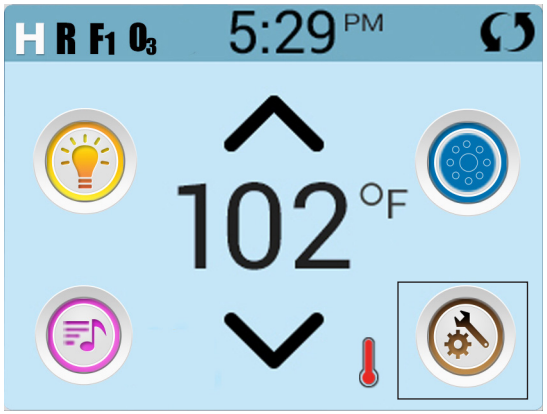
While the system is running, move DIP Switch 1 (on S1 on the Main circuit board) to ON. The system will enter Test Mode.
Moving DIP Switch 1 to OFF will exit Test Mode.

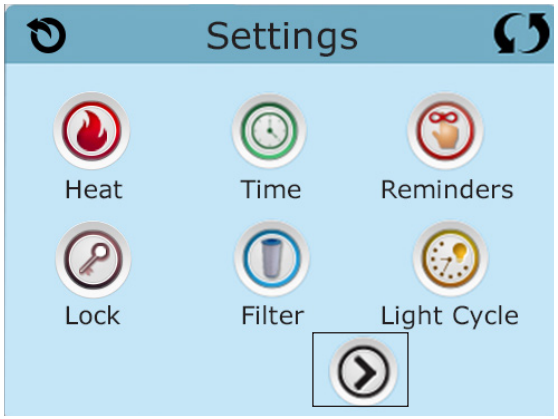


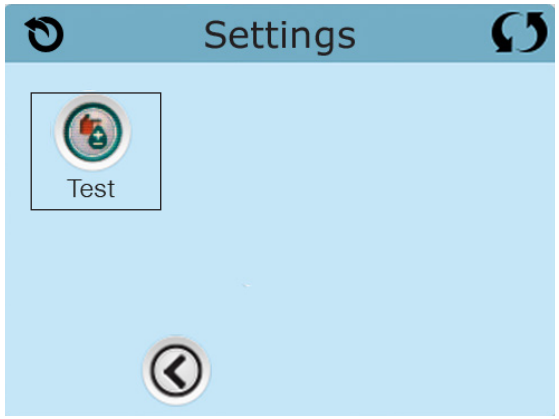
The example screens shown here are from the spaTouch 1 Icon-Driven Panel, but the screens on the spaTouch 2 Panel are similar. The main difference is that the spaTouch 2 display is wider.

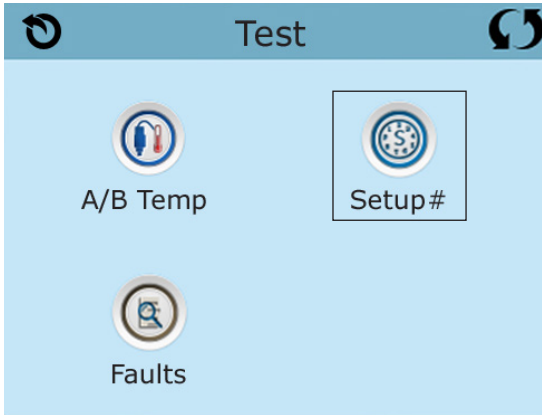
To Change Software Setups:

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



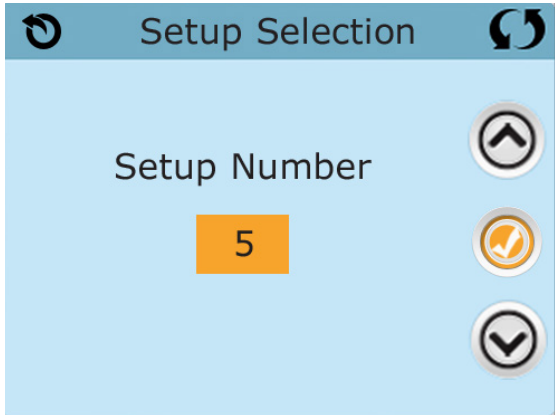






Once on the Setup Selection screen, press the Up or Down icon to select the desired Setup Number, then press the Check Mark icon to confirm and to have the spa restart.

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.



BALBOA water group

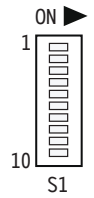
Equipment Expansion

Expansion Features

Control Connection	Default	Fuse
Relay 1 (J101)	Undefined	None
Relay 7/8 (J107)	Pump 3	30A
Relay 9/10 (J108)	Pump 4	uses same fuse as Pump 3 since it's on the same expander board as Pump 3

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:	59449-01
Expander PCBA:	59136

HEATER(s):

Plug + Click Heater Kit:	58083R16 5.5kW 800 Inc
	58089R16 5.5kW 825 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.

BALBOA water group

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*
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.

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

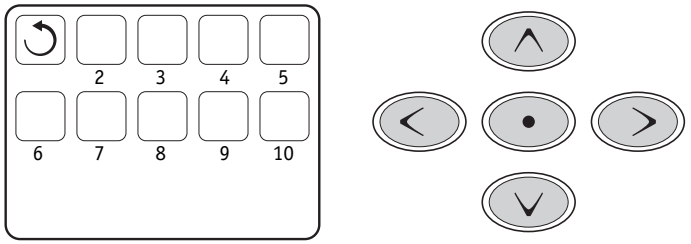
Feature	Default
Special Amperage Rule A	No Limitation
Special Amperage Rule B	No Limitation
Drain Mode	Disabled
Demo Mode	Disabled
GFCI Trip	Enabled
Automatic GFCI Test	Disabled
Ozone Slaved to Heater Pump	*Yes in circ setups* *No in non-circ setups*
Dual Voltage Heater	Always Input Voltage
Safety Suction	Disabled
First Swim Pump	*Pump 1 in Setups 1 -4, Pump 2 in Setups 5 - 16, Pump 3 in Setups 17 - 25*
Swim Spa Behaviors	*Manifold in Setups 1, 3, 5, 7, 9, 11, 13, 15, 17-25* *Manifold + Skip First Speed in Setups 2, 4, 6, 8, 10, 12, 14 & 16*
Aux Swim Device	*Pump 1 in Setups 7, 8, 11, 12, 15, 16 & 22; Pump 2 in Setups 17-19, 21, 23 & 25;* Disabled in all other Setups
Mode Default	Ready Mode
Range Default	*Low Range*

TP900 Panel Configuration

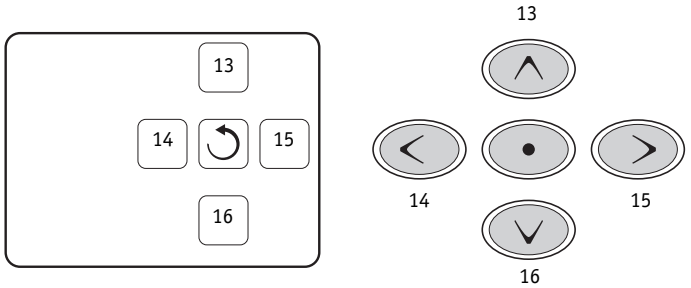
Button Layout Table

Feature #	Circ Setups with 3 or 4 Swim Pumps: Setups 1, 2 5 - 12	Non-Circ Setups with 3 or 4 Swim Pumps: Setups 3, 4 13 - 16	Circ Setups with 2 Swim Pumps: Setups 1, 2 5 - 12	Non-Circ Setups with 2 Swim Pumps: Setups 3, 4 13 - 16
A1	N/A	N/A	N/A	N/A
A2	Jets 1	Jets 1	Jets 1	Jets 1
A3	Light 1	Light 1	Jets 2	Jets 2
A4	(Circ Icon)	Undefined	Light 1	Light 1
A5	Undefined	Undefined	(Circ Icon)	Undefined
A6	Undefined	Undefined	Undefined	Undefined
A7	Undefined	Undefined	Undefined	Undefined
A8	Undefined	Undefined	Undefined	Undefined
A9	Undefined	Undefined	Undefined	Undefined
A10	Undefined	Undefined	Undefined	Undefined
11	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A
13	Undefined	Undefined	Undefined	Undefined
14	Undefined	Undefined	Undefined	Undefined
15	Undefined	Undefined	Undefined	Undefined
16	Undefined	Undefined	Undefined	Undefined

Spa Screen



Shortcuts Screen



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

Note: TP900 support is included only to enable proper function of the spaTouch panel.

BP2000 Configuration Options

Auxiliary Panel Features on Bank 1*

Feature	Default
Aux Button A1	Swim Speed Down
Aux Button A2	Swim Speed Up
Aux Button A3	Swim Stop
Aux Button A4	Swim Pause

Auxiliary Panel Features on Bank 2*

Feature	Default
Aux Button A5	Swim Speed Up
Aux Button A6	Swim Pause
Aux Button A7	Swim Speed Down
Aux Button A8	Swim Stop

*Bank 1 is for use with an AX40 (horizontal layout) panel.
Bank 2 is for use with an AX42 (round layout) panel.

So if using an AX40, plug it into J5, but if using an AX42, plug it into J8.

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

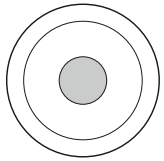
*Bank 1 consists of J5 on the Main Circuit Board.
Bank 2 consists of J8 on the Main Circuit Board.
Aux Connection Splitter PN 25257 may be required.

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.

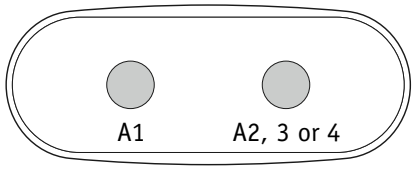
AX10 Panels on Bank 2*

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 on J5 and J6 on the Main Circuit Board.
Bank 2 consists on J7 and J8 on the Main Circuit Board.
Aux Connection Splitter PN 25257 may be required.

AX20

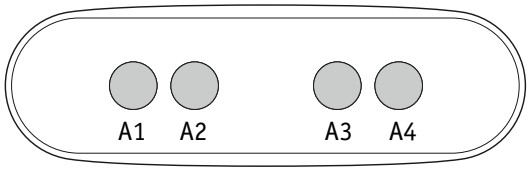
AX20 A1A2	No O/L	52800
AX20 A1A3	No O/L	52801
AX20 A1A4	No O/L	52802



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

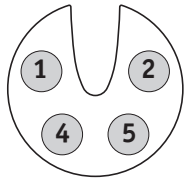


AX40 Auxiliary Panel plugged into Bank 1 will operate A1 + A2, A3 and A4.
AX40 Auxiliary Panel plugged into Bank 2 will operate A5 + A6, A7 and A8.

BP2000 Configuration Options

Remote Panel Features

Feature	Default
Remote Button A1	Undefined
Remote Button A2	Undefined
Remote Button A3	Undefined
Remote Button A4	Undefined
Remote Button A5	Undefined
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 _____