## **SARBP20X Tech Sheet**

**Customer:** Saratoga Spas

**Part Number:** 59559-01 Titanium 4.0kW

Custom Box Overlay [

Box Overlay Part Number N/A

UL System Model: BP20-SARBP20X-AS

Software Version ID: M100\_220 V71.0

Software Version: 71.0

File Name: BP2000\_71.0\_SARBP20X\_2023.hex

Configuration Signature: B59FEB32

Eng. Project Number: 5793

Control Panels:

spaTouch™3 Any version TP700 Any version



## **System Revision History**

Part #	EPN	Date	Originator	Changes Made
ZT000553	5334	11-15-21	Customer	BP2000-based system with custom Setups, and with spaTouch™3 and TP700 as the only panels expected to be used.
59559	5334	01-11-22	Customer	Approved for production.
ZT-59559-01	5793	06-27-23	Customer	Add 106F Overrange. Add DIP switch to select circ type. Update software to not turn Off Light 1 when in Hold.
59559-01	5793	07-10-23	Customer	Approved for production, and software updated to release version.

bba™2 / bba™3 (Balboa Bluetooth Amp) connection is documented separately.
bba™2 / bba™3 is integrated into graphic display panels (including TP700 and spaTouch™).

Template 56377 10-05-12 2 59559-01\_97\_A 07-10-23

## **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 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.

Template 56377 10-05-12 3 59559-01\_97\_A 07-10-23

## **Basic Functions Setup 1-8**

#### **System Ouputs:**

Pump 1		2-Speed neater pump i r 20 GPM thro	12A max in Setups 6–8 ough heater	15-minute timer for High Speed, 15-Minute timer for Low Speed					
Pump 2	240VAC	2-Speed 1-Speed in Unused in S	12A max Setups 4, 7 Setups 5, 6, 8	15-minute timer					
Pump 3	240VAC	2-Speed 1-Speed in Unused in S	•	15-minute timer					
Blower	240VAC	1 Speed Unused in S	4A max Setups 1–5, 7,	15-minute timer 8					
Circ Pump		1-Speed neater pump i r 20 GPM thro	2A max in Setups 1–5 ough heater	24-hour with 3°F shutoff (outside of filter cycles) or Programmable Filtration Cycles + Polling					
0zone	120VAC**		.5A max	Slaved to Circ Pump in Setups 1–5 Independent in Setups 6–8					
Spa Light	10VAC	0n/0ff	2A* max	240-minute timer.					
A/V (Stereo)	120VAC	Hot	4A max	Always on					
Heater	4.0kW @ 240VAC max								

<sup>\*\*</sup>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.)



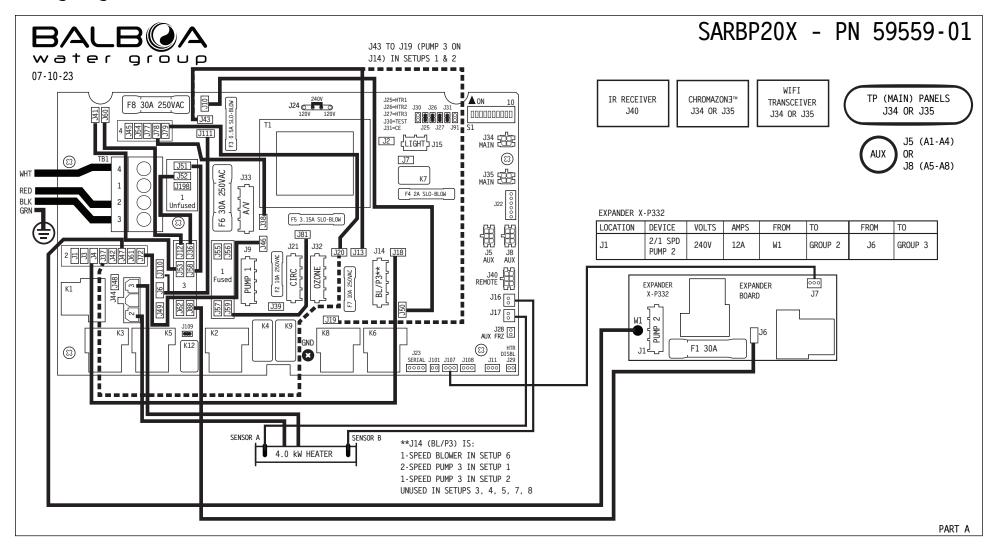
Template 56377 10-05-12 4 59559-01\_97\_A 07-10-23

<sup>\* 2</sup>A max limit is shared by On/Off Spa Light <u>and</u> CHROMAZON∃™.

## **Hardware Setup**

#### **Wiring Diagram**

Template 56377 10-05-12



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



## **Hardware Setup**

#### **Settings**

LOCATION	DEUTOE	VOLTO	MAN AMBC	EDOM					
LOCATION	DEVICE	VOLTS	MAX AMPS	FROM	TO TO				
J9	2-SP PUMP 1	240V	12A MAX	J46	GROUP 2				
J14	1-SP BLOWER	240V	4A MAX	J18	GROUP 2				
J14	2/1-SP PUMP 3	2400	12A MAX	310	GINOUI Z				
	J14 LINE 1 COM	NECTION		J43	J13 (MOVE TO J19 FOR PUMP 3)				
				J10	J50				
J15	SPA LIGHT	2A*							
J21	CIRC PUMP	120V**	2A MAX	J20	GROUP 4				
J32	OZONE	0.5A							
	CIRC AND OZONE	LINE 1	CONNECTION	J81	J59				
J33	TV / AV	120V	4A	J38	GROUP 4				
J44	HEATER	240V	4.0 kW						

<sup>\* 2</sup>A LIMIT IS SHARED BY J15 SPA LIGHT AND CHROMAZON∃™

SETUP #	CIRC PUMP	PUMP I	PUMP 2	PUMP 3	BLOWER	TEMP SCALE
1	YES*	2-SPEED	2-SPEED	2-SPEED	NONE	°F
2	YES*	2-SPEED	2-SPEED	1-SPEED	NONE	°F
3	YES*	2-SPEED	2-SPEED	NONE	NONE	°F
4	YES*	2-SPEED	1-SPEED	NONE	NONE	°F
5	YES*	2-SPEED	NONE	NONE	NONE	°F
6	NONE	2-SPEED	NONE	NONE	1-SPEED	°F
7	NONE	2-SPEED	1-SPEED	NONE	NONE	°F
8	NONE	2-SPEED	NONE	NONE	NONE	°F

<sup>\*</sup> CIRC BEHAVIOR DEPENDS ON THE SETTING OF DIP SWITCH A8



water group

07-10-23

#### SWITCHBANK S1 OFF

#### SWITCHBANK S1 ON

TEST MODE OFF	<b>⋖</b> 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	<b>⋖</b> A3	ADD 2 HS PUMPS WITH HEAT
DON'T ADD 4 HS PUMPS W/HTR	<b>⋖</b> A4	ADD 4 HS PUMPS WITH HEAT
SPECIAL AMPERAGE RULE A	<b>⋖</b> A5	SPECIAL AMPERAGE RULE B
STORE SETTINGS**	<b>⋖</b> A6	MEMORY RESET**
1 MIN HTR COOLDOWN (ELEC)	<b>⋖</b> A7	5 MIN HTR COOLDOWN (GAS)
CIRC: 24HR W/ 3F SHUTOFF	<b>⋖</b> A8	CIRC: PROG FILTERS + POLLING
NOT ASSIGNED	<b>⋖</b> A9	NOT ASSIGNED
NOT ASSIGNED	◀ A10	NOT ASSIGNED

<sup>\*\*</sup> SWITCH # 6 SHOULD BE SET TO OFF UPON FINAL INSTALLATION.

USE COPPER CONDUCTORS ONLY. EMPLOYER UNIQUEMENT DES CONDUCTEURS DE CUIVRE. #6 AWG MIN. WIRE =  $90^{\circ}$ 

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

SARBP20X - PN 59559-01

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

INSTEAD OF SETUP #3. THIS SYSTEM IS CONFIGURED IN SETUP #:



<sup>\*\*</sup> FOR 240V CIRC PUMP AND OZONE. CONNECT J20 TO GROUP 2

# **Setup Reference Table**

Setup #	Circ Pump	Pump 1	Pump 2	Pump 3	Blower	Temp Scale
1	Yes*	2-Speed	2-Speed	2-Speed	None	°F
2	Yes*	2-Speed	2-Speed	1-Speed	None	°F
3	Yes*	2-Speed	2-Speed	None	None	°F
4	Yes*	2-Speed	1-Speed	None	None	°F
5	Yes*	2-Speed	None	None	None	°F
6	None	2-Speed	None	None	1-Speed	°F
7	None	2-Speed	1-Speed	None	None	°F
8	None	2-Speed	None	None	None	°F

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

Template 56377 10-05-12 **7** 59559-01\_97\_A 07-10-23

<sup>\*</sup> Circ type is either 24hr/3°F or Programmable Filters + Polling, depending on the setting of DIP switch A8.

## **Changing Software Setups with spaTouch™ Icon-Driven Panels**

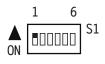
## Test Menu Access (S1, Switch 1 ON) Service Technician ONLY.

#### 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.

# ON 10 10 S1

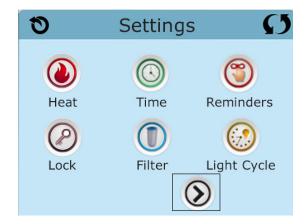


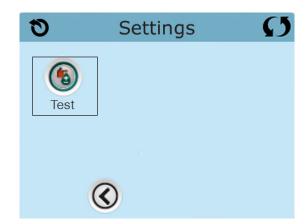
wider.

#### **To Change Software Setups:**

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



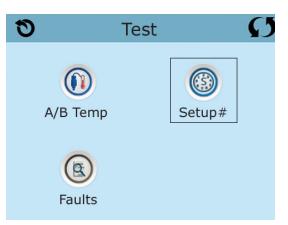




The example screens shown here are from the

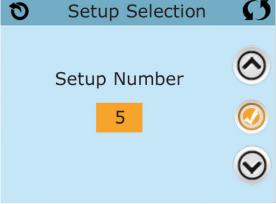
spaTouch 1 Icon-Driven Panel, but the screens on the spaTouch 2 Panel are similar. The main

difference is that the spaTouch 2 display is



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.







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

# **Equipment Expansion**

Expansion Features			
<b>Control Connection</b>	Default	Fuse	
Relay 1 (J101)	Undefined	None	
Relay 7/8 (J107)	See Below	30A	
	2-Speed Pump 2 ir 1-Speed Pump 2 ir Unused in Setups !	n Setup 4, 7	
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).

A8 In "ON" position, Circ Type is Programmable Filters + Polling (aka Acts Like Pump 1 Low)

In "OFF" position, Circ Type is as configured under General Features (see page 13)

Undesignated switches are not assigned a function.



## **Jumper Definitions**

GFCI Test/Trip Enable/Disable	1100 K.
Note: This feature must be enabled in software as well.	J109 🚰
Real Time Clock Enable/Disable	J91 © <b>⊕</b> ■
<b>Note:</b> This Jumper should NOT be shorted when the Control Panel can display time of day.	031 241
Do Not Use	
Non Applicable on UL models	J31 🌠
(Used on CE models only)	031
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 installe	d in conjunction with the spa.
Heater Type Settings.	J27
Note: Factory Configured do not change.	J25 2 J26
Jumper on center two pins (230V) when heater is running at 240V.	230V
Two Jumpers installed; one on left 2 pins and one on right 2 pins (115V) when heater is running at 120V.	J24 0 0 0 0 15V
	Note: This feature must be enabled in software as well.  Real Time Clock Enable/Disable  Note: This Jumper should NOT be shorted when the Control Panel can display time of day.  Do Not Use  Non Applicable on UL models (Used on CE models only)  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.  Note: Factory Configured do not change.  Jumper on center two pins (230V) when heater is running at 240V.

## 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.

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



Template 56377 10-05-12 11 59559-01\_97\_A 07-10-23

# **Replacement Parts**

PCBA:

Main PCBA: 59560-01 Expander PCBA: 59097

**HEATER(s):** 

Plug + Click Heater Kit: 55625R16 4.0kW 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

<sup>\*</sup> 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.



Template 56377 10-05-12 12 59559-01\_97\_A 07-10-23

#### **General Features**

Default
No
15 Minutes
15 Minutes
15 Minutes
15 Minutes
240 Minutes
24 hr with 3°F shutoff (outside of filter cycles)
DIP switch A9 (see page 10)
30 Minutes
Yes
With Heater Pump*
OFF
60 Seconds
30 Seconds
5 Seconds
Serial - Pumps at lowest speed



<sup>\*</sup> The heater Pump can be either a Circ Pump or Pump 1 Low.

## **Temperature Features**

Feature Display PF

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	<i>15</i>	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

Overrange Enable Yes

Template 56377 10-05-12

BALB (A) water group

<sup>\*</sup>May be changed by end-user (if enabled)

## **Time Features**

Feature	Default
Time Format*	12 Hour
Films 4 Charles to	00 00 (0 00 PM)
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



15

<sup>\*</sup>May be changed by end-user (if enabled)

#### **Reminder Features**

Feature	Default
Reminders Shown*	Yes
Check pH	<i>OFF</i>
Check Sanitizer	OFF
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

BALB@A
water group

<sup>\*</sup>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

# **TP800 Panel Configuration (used for TP700 & spaTouch™)**

#### **Button Layout Table**

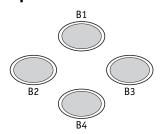
Feature	3 Pumps & Circ	2 Pumps & Circ	1 Pump & Circ	1 Pump,	2 Pumps & NO	1 Pump & NO
#	Setup 1	Setup 2	Setup 3	Blower & NO Circ	Circ	Circ
				Setup 4	Setup 5	Setup 6
A1	N/A	N/A	N/A	N/A	N/A	N/A
A2	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
А3	Jets 2	Jets 2	Light 1	Blower	Jets 2	Light 1
A4	Jets 3	Light 1	Invert	Light 1	Light 1	Invert
A5	Light 1	Invert	(Circ Icon)	Invert	Invert	Undefined
A6	Invert	(Circ Icon)	Undefined	Undefined	Undefined	Undefined
A7	(Circ Icon)	Undefined	Undefined	Undefined	Undefined	Undefined
A8	Undefined	Undefined	Undefined	Undefined	Undefined	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	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A14	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A15	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
A16	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
B1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1	Jets 1
B2	Jets 2	Jets 2	Undefined	Blower	Jets 2	Undefined
В3	Jets 3	Undefined	Undefined	Undefined	Undefined	Undefined
B4	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1

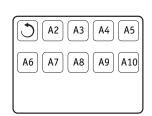
BALB (A) Water group

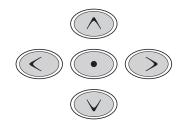
Template 56377 10-05-12 18 59559-01\_97\_A 07-10-23

## **TP800 Panel Configuration (used for TP700 & spaTouch™)**

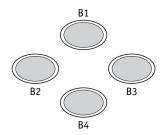
#### Spa Screen

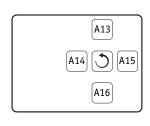


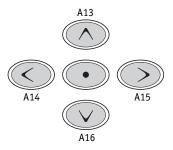




#### **Shortcuts Screen**







**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.



## **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 1
Aux Button A6	Jets 2
Aux Button A7	Jets 3
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.



## **Auxiliary Panel Features**

#### AX10 Panels on Bank 1\*

A1, AX10A1 No 0/L 52803
A2, AX10A2 No 0/L 52804
A3, AX10A3 No 0/L 52805 ▶
A4, AX10A4 No 0/L 52806



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

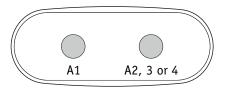
\*Bank 1 consists of J5 on the Main Circuit Board.

Bank 2 consists of J8 on the Main Circuit Board.

Aux Connection Splitter PN 25257 may be required.

#### AX20

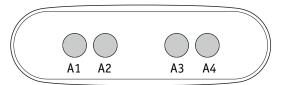
AX20 A1A2	No O/L	52800
AX20 A1A3	No O/L	52801
AX20 A1A4	No O/L	52802



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 0/L 52799

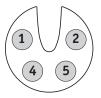


AX40 Auxiliary Panel plugged into Bank 1 will operate A1 + A2, A3 and A4. AX40 Auxiliary Panel plugged into Bank 2 will operate A5 + A6, A7 and A8.



#### **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.

Template 56377 10-05-12

Remote Panel Part Number

Overlay Part Number

59559-01\_97\_A 07-10-23

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22