BP6013G1 Tech Sheet

 Part Number:
 56611-06
 825 Incoloy 3.0kW

 59085
 825 Incoloy 3.0kW "3S" heater

 56612-06
 Titanium 3.0kW

 56986-01
 825 Incoloy 2.0kW

 56941-01
 Titanium 2.0kW

 59364
 Titanium 2.0kW "3S" heater

Custom Box Overlay
Box Overlay Part Number N/A

CE System Model For 3.0kW: BP21-BP6013G1-RCA3.0K CE System Model For 2.0kW: BP21-BP6013G1-RCA2.0K

Software Version ID:	M100_226 V43.0
Software Version:	43.0
File Name:	BP6013_43.0_BP6013G1.hex
Configuration Signature:	1B456746

Eng. Project Number: 5210

Control Pa	inels:
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spa	aTouch™2	Any version (version 2.0 or later required for bba™2 fully integrated functionality; version 2.19 or later required for CHROMAZON∃™ support)
Ico	on spaTouch™	Any version (version 3.36 or later required for bba™2 fully integrated functionality)
Me	nued spaTouch™	Any version (version 2.8 or later required for bba™2 integrated functionality)
TP	300	Version 3.1 and later (Version 3.13 or later required for bba™; version 4.11 or later required for bba™2 integrated functionality)
TP	500	Version 2.7 and later (Version 2.12 or later required for bba™/bba™2 On/Off control via menu)
TP	400T CE	Version 2.7 and later (TP400T US should <u>not</u> be used) (Version 2.12 or later required for bba™/bba™2 0n/Off control via menu)
TP	400W CE	Version 2.7 and later (TP400W US should <u>not</u> be used) (Version 2.12 or later required for bba™/bba™2 On/Off control via menu)

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.



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System Revision History

Part #	EPN	Date	Originator	Changes Made
ZT000101	4305	1	BWG	Stripped-down version of BP2100 board, with the same Setups as in BP601G1, plus 3 additional Setups (with Circ pump plus 2-Speed Pump 1), but with multiple services supported. No remote support, no real-time clock, & no low speed relay for Pump 2.
56610, 56611, 56612	4305	07-08-14	BWG	Release to production.
56610-01, 56611-01, 56612-01	4354	08-07-14	BWG	Rename from BP1900G1 to BP6013G1.
56731	4466	02-18-15	Sales	Create 2.0kW Version.
56610-02, 56611-02, 56612-02, 56731-01	4489	03-20-15	BWG	BWG update with plug and click heater.
56610-03, 56611-03, 56612-03, 56731-02	4601	09-30-15	BWG	Update to latest software version, including faster return to heating after high-speed pumps turn OFF, in amperage-resricted situations.
56610-04, 56611-04, 56612-04, 56731-03	4776	10-26-16	BWG	Updated to latest software version, adding topside-intergrated bba™2 support. Released to production.
56610-05, 56611-05, 56612-05, 56731-04	4890	06-05-17	BWG	Updated to latest software version, adding bba™/bba™2 On/Off support to TP600/TP400 Menus. Released to production.
56986, 56941	N/A	06-12-18	BWG	Add 2.0kW 825 Incoloy & Titanium system PNs.
56610-06, 56611-06, 56612-06, 56731-05, 56986-01, 56941-01	5098	12-13-18	BWG	Redesigned BP6013 board. + updated software to support CHROMAZON∃™ & M8.
59085, 59364	5210	12-09-19	BWG	Add 3.0kW 825 Incoloy "3S" system PN & 2.0kW Titanium "3S" system PN. 800 Incoloy system PNs 56610-XX & 56731-XX discontinued.

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

 bba^{m} is integrated into graphic display panels (TP800, TP900 and spaTouch^m). With TP600/TP400, use the "BT" entry on the menu to toggle bba^{m} power On/Off. $bba^{m}2$ is integrated into graphic display panels (TP800, TP900 and spaTouch^m). With TP600/TP400, use the "BT" entry on the menu to toggle $bba^{m}2$ power On/Off.



Basic Functions Setups 1-9

Power Requirements:

Single Service [3 wires (line, neutral, ground)]
230VAC, 50/60Hz*, 1b, 16A/32A, (Circuit Breaker rating = 20A/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)] 230VAC line-to-neutral**, 50/60Hz*, 3b, 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.

* 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.

** 3-phase service measured line-to-line will read about 400V, but BP systems do not use it line-to-line.

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

Migrating from BP601G1:

If you are migrating from the BP601G1 model to this BP6013G1 model:

- The first 6 Setups are the same as the 6 Setups in the BP601G1.
- The remiaining 3 Setups are new Setups that allows a 2-Speed Pump1 to be used along with a Circ Pump (which is not possible on the BP601G1).



Basic Functions Setups 1-9

System Ouputs:

Pump 1	230VAC	1 Speed in S	6.5A - 12A n Setups in Setu 5 dependent c			
		•	3, 5, this is 20 GPM thro	the heater pump. ugh heater		
Pump 2	230VAC		•	nax 15-minute timer on service available (16A vs. 32A), other equipment installed, and if A5 is set to ON for Special Amperage Rule B.		
Blower	230VAC	1-Speed Used in Setu	4A max 1p 3, 4 & 8	15-minute timer		
Circ Pump	230VAC		2A max eater pump i 20 GPM thro	Programmable Filtration Cycles + Polling in Setups 2, 4, 6 - 9. Jugh heater		
Ozone	230VAC		.5A max	Slaved to Circ Pump in Circ Setups 2, 4, 6 - 9. Independent in Non-Circ Setups 1, 3 & 5.		
Spa Light	10VAC	0n/0ff	2A* max	240-minute timer.		
A/V (Stereo)	230VAC	Hot	4A max	Always on		
Heater	3.0kW @ 240VAC max 2.0kW @ 240VAC max					

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



Wiring Diagram for normal heater versions





Settings for normal heater versions

LOCATION	DEVICE	MAX AMPS		†	SWITCHBANK S1 OFF		SWITCHBANK S1 ON
J9	ETZSTROMVERSORGUNG 2-GESCHWPUMPE 1		MAY	230V 1þ	TEST MODE OFF	 A1 	TEST MODE ON
ALIMENTATION POMPE 1 A 2 VITESSES 2-SPD PUMP 1	6.5A - 12A	6.5A - 12A MAX	1x32A	DON'T ADD 1 HS PUMP W/HTR	A2 🕨	ADD 1 HS PUMP WITH HEAT	
J14 1-SPD PUM	1-SPD PUMP 2 / BLOWER				DON'T ADD 2 HS PUMPS W/HTR	 A3 	ADD 2 HS PUMPS WITH HEAT
	NETZSTROMVERSORGUNG 1-GESCHWPUMPE 2 / SPRUDELGE	BLASE 6.5A - 12A	MAX / 4A MAX		DON'T ADD 4 HS PUMPS W/HTR	A4	ADD 4 HS PUMPS WITH HEAT
	ALIMENTATION POMPE 2 A 1 VITESSE / VENTILATEUR				SPECIAL AMPERAGE RULE A	A 5	SPECIAL AMPERAGE RULE B
J15	10V BELEUCHTUNG ECLAIRAGE BAIN HYDRO SPA LIGHT	2A* (@10V)			STORE SETTINGS*	A 6	MEMORY RESET*
J21	KREISLAUF PUMPE POMPE DE CIRCULATION CIRC PUMP	2A			1 MIN HTR COOLDOWN (ELEC)	A7	5 MIN HTR COOLDOWN (GAS)
J32	OZONGENERATOR GENERATOROZONE OZONE GENERATOR	0.5A			NOT ASSIGNED	A 8	NOT ASSIGNED
J33	TV / AV	2A			NOT ASSIGNED	A9	NOT ASSIGNED
J44	HEATER	3.0kW			NOT ASSIGNED	A 10	NOT ASSIGNED
	x16A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			230V 1þ 1x16A	SWITCHBANK S1 OFF TEST MODE OFF DON'T ADD 1 HS PUMP W/HTR	 A1 A2 	SWITCHBANK S1 ON TEST MODE ON ADD 1 HS PUMP WITH HEAT
		I		v	DON'T ADD 2 HS PUMPS W/HTR		ADD 2 HS PUMPS WITH HEAT
A2					DON'T ADD 4 HS PUMPS W/HTR	🗲 A4	ADD 4 HS PUMPS WITH HEAT
-		82 02			SPECIAL AMPERAGE RULE A	A5 🕨	SPECIAL AMPERAGE RULE B
▲ A3					STORE SETTINGS*	 A6 	MEMORY RESET*
◀ A5	T01 A5					A7	5 MIN HTR COOLDOWN (GAS)
					NOT ASSIGNED	A8	NOT ASSIGNED
BLU		1			NOT ASSIGNED	A9	NOT ASSIGNED
BRN					NOT ASSIGNED	A10	NOT ASSIGNED
BLU BRN GRN		102 188 1			*SWITCH # 6 SHOULD BE SET TO OFF U	IPON FINAL I	NSTALLATION.
USE CONDUCT BASIS OF 60	CONNECTIONS, USE COPPER CONDUCTORS ONLY. TORS SIZED ON THE EMPLOYER UNIQUEMENT O°C AMPACITY BUT DES CONDUCTEURS DE CUIVRE. MUM OF 90°C.	TORQUE RANGE FOR MAIN TERMINAL BLOCK (TB1): 27-30 IN. LBS. (31.1-34.5 kg cm)	BALE		BP6013G1 -	PN	56611-06 PAR



Wiring Diagram for "3S" heater versions





Settings for "3S" heater versions

OCATION	DEVICE	MAX AMPS	≜		SWITCHBANK S1 OFF		SWITCHBANK S1 ON
9	NETZSTROMVERSORGUNG 2-GESCHWPUMPE 1	C 54 104 WW	2	230V 1þ	TEST MODE OFF	 A1 	TEST MODE ON
ALIMENTATION POMPE 1 A 2 VITESSES 2-SPD PUMP 1	6.5A - 12A MAX	1	.x32A	DON'T ADD 1 HS PUMP W/HTR	A2 🕨	ADD 1 HS PUMP WITH HEAT	
J14 1-SPD PUMP 2 / BLOW	1-SPD PUMP 2 / BLOWER				DON'T ADD 2 HS PUMPS W/HTR		ADD 2 HS PUMPS WITH HEAT
	NETZSTROMVERSORGUNG 1-GESCHWPUMPE 2 / SPRUDELGEE	BLASE 6.5A - 12A MAX	/ 4A MAX		DON'T ADD 4 HS PUMPS W/HTR	< A4	ADD 4 HS PUMPS WITH HEAT
	ALIMENTATION POMPE 2 A 1 VITESSE / VENTILATEUR				SPECIAL AMPERAGE RULE A	A5	SPECIAL AMPERAGE RULE B
J15	10V BELEUCHTUNG ECLAIRAGE BAIN HYDRO SPA LIGHT	2A* (@10V)			STORE SETTINGS*	A6	MEMORY RESET*
J21	KREISLAUF PUMPE POMPE DE CIRCULATION CIRC PUMP	2A			1 MIN HTR COOLDOWN (ELEC)	A7	5 MIN HTR COOLDOWN (GAS)
J32	OZONGENERATOR GENERATOROZONE OZONE GENERATOR	0.5A			NOT ASSIGNED	A8	NOT ASSIGNED
J33	TV / AV	2A			NOT ASSIGNED	A9	NOT ASSIGNED
J44	HEATER	3.0kW			NOT ASSIGNED	A10	NOT ASSIGNED
					SWITCHBANK S1 OFF	A1	SWITCHBANK S1 ON TEST MODE ON
230V 2b 2	x16A \Q J20 J18 230V 3b 3x16A	_I	$\int 1$.X16A	DON'T ADD 1 HS PUMP W/HTR	A2	ADD 1 HS PUMP WITH HEAT
		i	•	[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
▲ A3					STORE SETTINGS*	🗲 A6	MEMORY RESET*
🛋 A5		_ []			1 MIN HTR COOLDOWN (ELEC)	🗲 A7	5 MIN HTR COOLDOWN (GAS)
	TB1 TB1 4 Image: Second se				NOT ASSIGNED	🗲 A8	NOT ASSIGNED
BLU					NOT ASSIGNED	🗲 A9	NOT ASSIGNED
BRN					NOT ASSIGNED	🗲 A10	NOT ASSIGNED
BLU BRN GRN	2 0 II BLU 2 3 3 II 2 3 3 3 REMOVE JUMPER WIRES II GRN REMOVE JUMPER JUMPE J51-J58 II J52-J36 J52-J36	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■		*	*SWITCH # 6 SHOULD BE SET TO OFF U	IPON FINAL IN	STALLATION.
JSE CONDUC	CONNECTIONS, USE COPPER CONDUCTORS ONLY. TORS SIZED ON THE EMPLOYER UNIQUEMENT 0°C AMPACITY BUT DES CONDUCTEURS DE CUIVRE.	TORQUE RANGE FOR MAIN TERMINAL BLOCK (TB1): 27-30 IN. LBS.	BALB@A	E	3P6013G1 -	PN	59085



Setup Reference Table

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

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



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. 10

To Change Software Setups:

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





ON 🕨

S1

ON

S1

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. 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.



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





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. 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.



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.



THIS SYSTEM IS

CONFIGURED AS SETUP #

Equipment Expansion

Expansion Features Control Connection

Relay 1 (J101)

Relay 7/8 (J107)

Default Undefined Undefined **Fuse** None None



DIP Switch Functions

Fixed-fuction DIP Switches



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.

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.



ON 🕨

S1

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	J31 🔽
	Jumper on 2 pins with a 3.0kW or higher heater	
]29	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	d 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.	230V

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.



Replacement Parts

PCBA: Main PCBA:		59147 3.0kW	Madala
Maill PCDA:		59147 S.0kW 59155 2.0kW	
Expander PCBA:		N/A	
HEATER(s):			
Plug + Click Heater Kit:		58301 3.0kW	
		58302 3.0kW	kW 825 Inc "35" heater
		58397 2.0kW	825 Inc
		58394 2.0kW	
Temp Sensor Kit:		53605	kW Titanium "3S" heater
CABLES:		N/A	
FUSES:			
Part Number	Amperage		Location
30136	30A		F6, F8
26307 26905	2A SLO 0.5A SLO		F4 F3
26904	10A		F2, F7
26976	3.15A SLO		F5



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	
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.



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-Ra	ange [Defaul	lt Tem	ıp*				100°	F										
Lo-Ra	ange l	4in.S	Set Te	mp				50°F											
Lo-Ra	ange l	Max. S	Set Te	mp				99°F											
Lo-Ra	ange l	Defaul	lt Tem	ıp*				70°F											
Freez	e Thr	esholo	ł					44°F											
Freez	е Тур	е						Rotat	ting -	Pump	s at L	owest	: Spee	d					
Temp	Lock	Туре						Temp	+ Set	tings									

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



Time Features Default Feature Time Format* 24 Hour 20:00 (8:00 PM) Filter 1 Start Hour* 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)



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)



Special Features Feature

Default

reacure	
Special Amperage Rule A	No Limitation
Special Amperage Rule B	1 High Speed Pump Maximum, and also Blower turns off with 1 High Speed Pump
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



TP800 Panel Configuration

Button Layout Table

Feature #	Setup 1	Setups 2 & 7	Setup 3	Setups 4 & 8	Setup 5	Setups 6 & 9
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	Blower	Blower	Light 1	Light 1
A4	Light 1	Light 1	Light 1	Light 1	Invert	Invert
A5	Invert	Invert	Invert	Invert	Undefined	(Circ Icon)
A6	Undefined	(Circ Icon)	Undefined	(Circ Icon)	Undefined	Undefined
A7	Undefined	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	Undefined	Undefined	Undefined	Undefined	Undefined	Undefined
B3	Jets 2	Jets 2	Blower	Blower	Undefined	Undefined
B4	Light 1	Light 1	Light 1	Light 1	Light 1	Light 1



TP800 Panel Configuration

Spa Screen



Note: Button B2 is ALWAYS unused on TP800 when used with this sytsem. A custom overlay will be required.

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, 2 & 7	Setups 3, 4 & 8	Setups 5, 6 & 9
1	Jets 1	Jets 1	Jets 1
2	Jets 2	Blower	Undefined
3	Invert	Invert	Invert
4	Up	Up	Up
5	Light 1	Light 1	Light 1
6	Down	Down	Down
LED 1	Jets 1	Jets 1	Jets 1
LED 2	Jets 2	Blower	Undefined
LED 3	Light 1	Light 1	Light 1
LED 4	Heat On	Heat On	Heat On



TP600 55676-XX No Overlay



TP400 Panel Configuration

Button Layout Table for TP400T

Button #	Setups 1, 2 & 7	Setups 3, 4 & 8	Setups 5, 6 & 9
1	Temperature	Temperature	Temperature
2	Jets 1	Jets 1	Jets 1
3	Light 1	Light 1	Light 1
4	Jets 2	Blower	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	Jets 2 ON	Blower ON	Undefined



TP400T CE

50260-XX Includes overlay PN 12511.

Button Layout Table for TP400W

Button Edyout Tuble To						
All Setups						
Up						
Down						
Light 1						
Jets 1						
Heater ON						
Undefined	.					
Light ON						
Jets 1 ON						
	All Setups Up Down Light 1 Jets 1 Heater ON Undefined Light ON					

Use the TP400W for setups that only have one pump (No Blower or Pump 2).

TP400W CE

50259-XX Includes overlay PN 12510.



Auxiliary Panel Features on Bank 1*FeatureDefaultAux Button A1Jets 1

Aux Button A2 Jets 2 in 3	Setups 1, 2 & 7
Blower in	Setups 3, 4 & 8 in Setups 5, 6 & 9
Aux Button A3 Undefined	
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.

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.



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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.

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





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.

