

# BP200G1 Tech Sheet

# KARAG

**Customer:** Balboa Water Group

**Part Number:** 59190-01 3.0kW 800 Incoloy  
59368 3.0kW 825 Incoloy  
59192-01 2.0kW 800 Incoloy  
59257-01 Remote Heater System -- Heater is sold separately

Custom Box Overlay   
Box Overlay Part Number N/A

CE System Model For 2.0KW: BP2-BP200G1-RCA-2.0KW  
CE System Model For 3.0KW: BP2-BP200G1-RCA-3.0KW  
CE System Model For Remote: BP2-BP200G1-RCA  
Software Version ID: M100\_235 V52.0  
Software Version: 52.0  
File Name: BP200\_52.0\_BP200G1.hex  
Configuration Signature: EB1605F2

Eng. Project Number: 5270

Control Panels (See later pages for more information):

spaTouch™2 Any version (version 2.0 or later required for bba™2 fully integrated functionality)  
Icon spaTouch™ Any version (version 3.36 or later required for bba™2 fully integrated functionality)  
Menued spaTouch™ Any version (version 2.8 or later required for bba™2 integrated functionality)  
TP800 Version 3.1 and later (Version 3.13 or later required for bba™; version 4.11 or later required for bba™2 integrated functionality)  
TP600 Version 2.7 and later (Version 2.12 or later required for bba™/bba™2 On/Off control via menu)  
TP500 Any version  
TP400T CE Version 2.7 and later (TP400T US should not be used) (Version 2.12 or later required for bba™/bba™2 On/Off control via menu)  
TP400W CE Version 2.7 and later (TP400W US should not be used) (Version 2.12 or later required for bba™/bba™2 On/Off control via menu)

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.

# System Revision History



Part #	EPN	Date	Originator	Changes Made
59190 59192	5205	04-15-19	BWG	Generic BP200G1 system, supporting all the Setups the BP200 board can do without an expander board.
59257	5205	06-05-19	BWG	Added PN for version with remote heater support. Remote heater is sold separately.
59190-01 59192-01 59257-01	5270	09-03-19	BWG	Update software for full TP500 compatibility.
"	"	10-10-19	BWG	Add line 3 info to 2/3x16A conversion instructions box.
59368	"	10-17-19	BWG	Added new 825 Incoloy system PN.

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

bba™ is integrated into graphic display panels (TP800, TP900 and spaTouch™). With TP600/TP500/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/TP500/TP400, use the “BT” entry on the menu to toggle bba™2 power On/Off.

# Basic Functions Setup 1 - 3

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## Power Requirements:

**Single Service** [3 wires (line, neutral, ground)]

230VAC, 50/60Hz\*, 1p, 16A, (Circuit Breaker rating = 20A max.)

**Single Service** [3 wires (line, neutral, ground)]

230VAC, 50/60Hz\*, 1p, 32A, (Circuit Breaker rating = 40A max.)

**2-out-of-3-Service** [4 wires (line 1, line 2, no line 3, neutral, ground)]

230VAC line-to-neutral\*\*, 50/60Hz\*, 2/3p, 16A, (Circuit Breaker rating = 20A max each phase line.)

NOTE: 2-out-of-Service is simply 3-Service (single common) with one of the three lines unused. The third line could be used for a slave heater if desired, or left for a use not related to the spa at all.

\*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.

### 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 - 3

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## System Outputs:

Pump 1	230VAC	2-Speed	12A max	15-minute timer (30-minute timer for P1 Low in non-circ Setup 2 only)
				This is the heater pump in Setup 2. Must deliver 20 GPM through heater
				1 Speed in Setup 1 Unused in Setup 3
Circ Pump	230VAC	1-Speed	2A max	Programmable Filtration Cycles + Polling
				This is the heater pump in Setups 1 & 3. Must deliver 20 GPM through heater
Ozone	230VAC		.5A max	Slaved to Circ Pump in Circ Setups and to Pump 1 Low in Non-Circ Setups
Spa Light	10VAC	On/Off	1A max	240-minute timer.
A/V (Stereo)	230VAC	Hot	2A max	Always on
Heater	3.0kW @ 240VAC max			

# Hardware Setup



## Wiring Diagram for Integral Heater Version

10-10-19

TP (MAIN) PANELS  
J34 OR J35

### BP200G1 59190-01

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

LOCATION	DEVICE	MAX AMPS
J9	NETZSTROMVERSORGUNG 2/1-GESCHW. -PUMPE 1 ALIMENTATION POMPE 1 A 2/1 VITESSES 2/1-SPD PMP 1	12A MAX
J15	10V BELEUCHTUNG ECLAIRAGE BAIN HYDRO SPA LIGHT	1A (@10V)
J19	KREISLAUF PUMPE POMPE DE CIRCULATION CIRC PUMP	2A MAX
J21	OZONGENERATOR GENERATOROZONE OZONE GENERATOR	0.5A MAX
J33	TV / AV	2A MAX
J11 & J13	HEATER	3.0 KW

ON POSITION	S1 SWITCH #	OFF POSITION
TBD	8	TBD
SIMPLIFIED MENUS	7	STANDARD MENUS
MEMORY RESET*	6	STORE SETTINGS*
SPECIAL AMPERAGE RULE ON	5	SPECIAL AMPERAGE RULE OFF
5 MIN HTR COOLDOWN (GAS)	4	1 MIN HTR COOLDOWN (ELEC)
ADD 2 HS PUMPS WITH HEAT	3	DON'T ADD 2 HS PUMPS W/HTR
ADD 1 HS PUMP WITH HEAT	2	DON'T ADD 1 HS PUMP W/HTR
TEST MODE ON	1	TEST MODE OFF

\*SWITCH # 6 SHOULD BE SET TO OFF UPON FINAL INSTALLATION. ALL UNUSED SWITCHES SHOULD BE OFF

NOTE: SWITCH A7 MUST BE OFF WHEN USING GRAPHIC PANELS (TP800, TP900, OR SPATOUCH FAMILY).

SETUP #	CIRC PUMP	PUMP 1	TEMP SCALE
1	FILTERS + POLLING	1-SPEED	°C
2	NONE	2-SPEED	°C
3	FILTERS + POLLING	NONE	°C

INSTEAD OF SETUP #1, THIS SYSTEM IS CONFIGURED IN SETUP #:

WIFI TRANSCEIVER J34 OR J35

NOTE: SWITCH A7 SHOULD BE OFF IF USING WIFI, SINCE WIFI DOESN'T SUPPORT SIMPLIFIED MENUS.

TORQUE RANGE FOR TB1: 27-30IN. LBS.

TORQUE RANGE FOR HEATER CONNECTIONS: 30 TO 35 IN. LBS.

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.

230V 1p 1x16A 1x32A

230V 1p 1x32A

ON OFF  
A2

230V 2/3p 2/3x16A

BRN 2 1

BRN 1 2

BLU 3

GRN

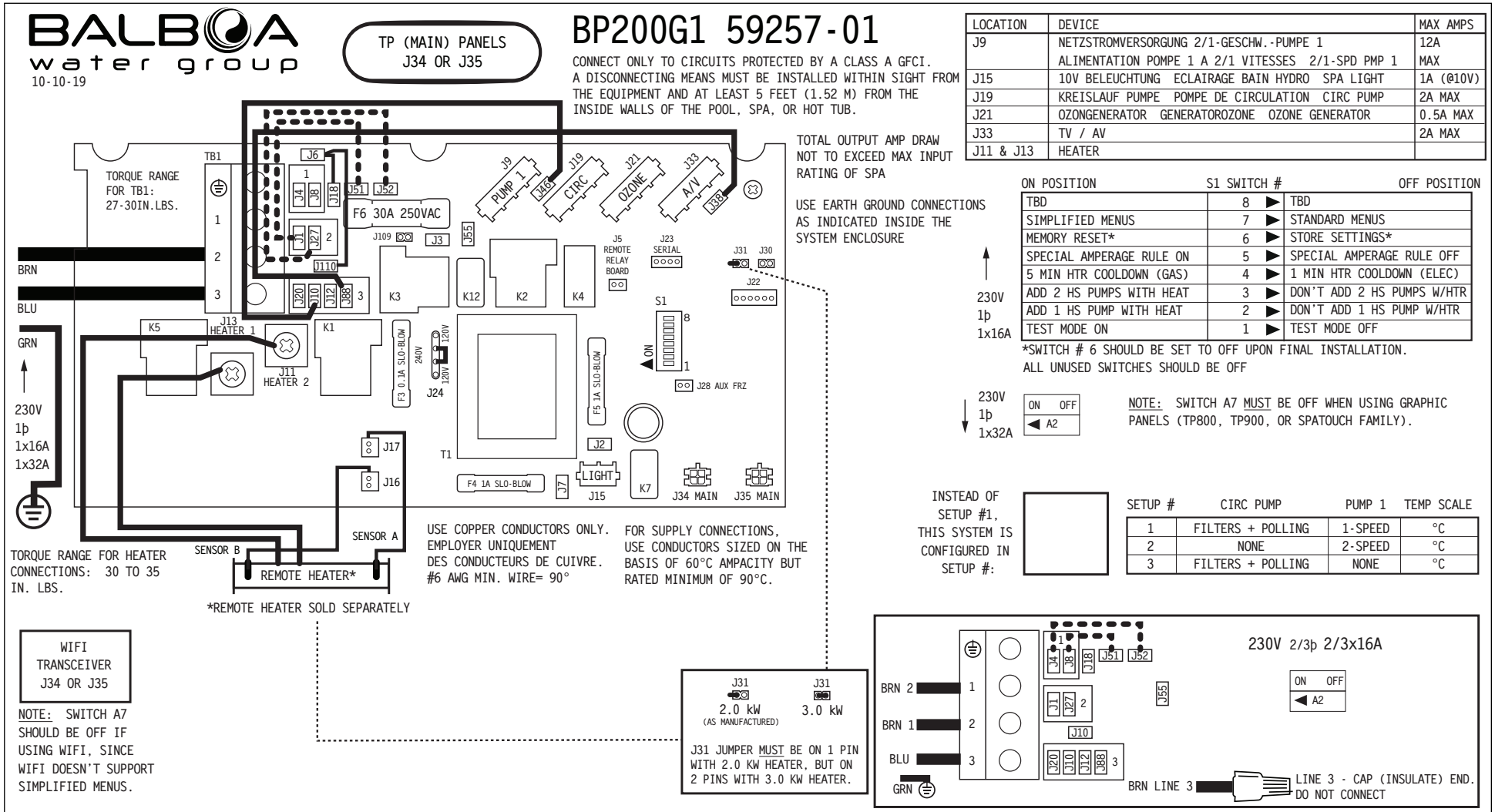
BRN LINE 3

LINE 3 - CAP (INSULATE) END. DO NOT CONNECT

# Hardware Setup



## Wiring Diagram for Remote Heater Version



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.



# Setup Reference Table

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Setup #	Circ Pump	Pump 1	Temp Scale
1	Programmable Filtration + Polling	1-Speed	°C
2	None	2-Speed	°C
3	Programmable Filtration + Polling	None	°C

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

# Changing Software Setups with spaTouch™ Icon-Driven Panels

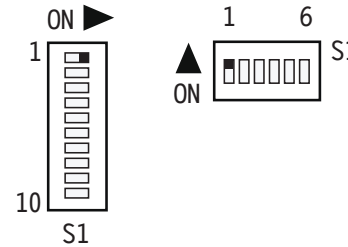
## Test Menu Access (S1, Switch 1 ON) *Service Technician ONLY.*

**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.

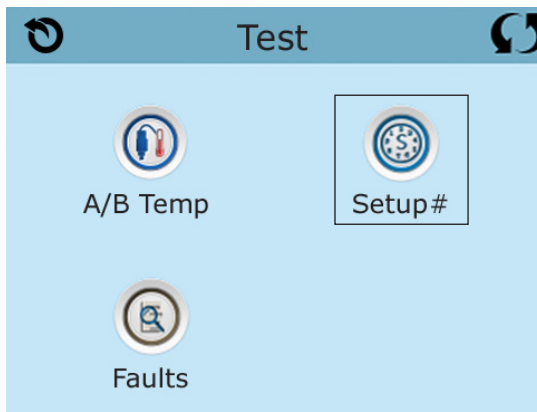
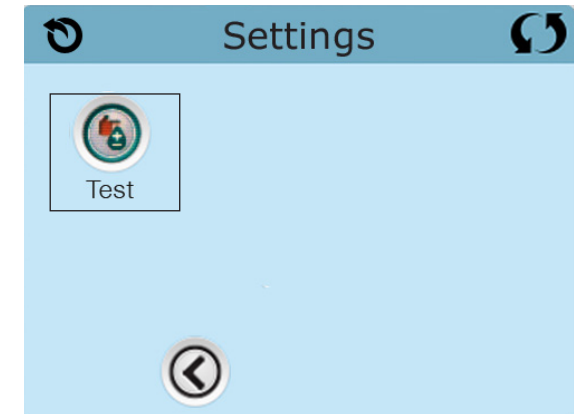
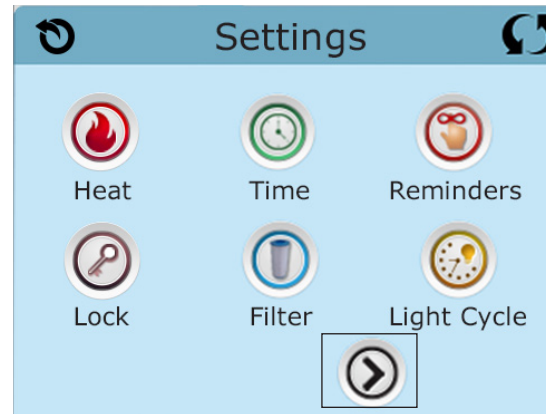
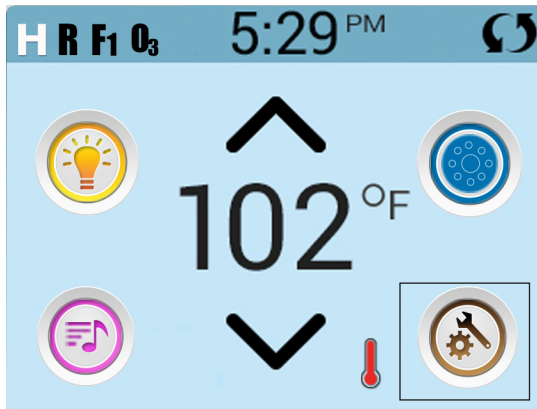
## To Change Software Setups:

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



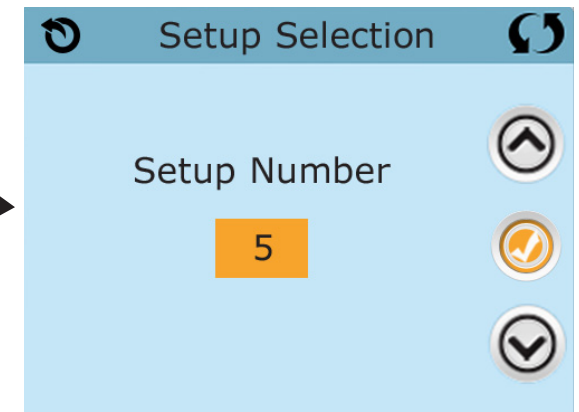
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The example screens shown here are from the spaTouch 1 Icon-Driven Panel, but the screens on the spaTouch 2 Panel are similar. The main difference is that the spaTouch 2 display is wider.



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.

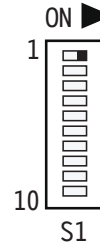


# Changing Software Setups with TP800 / TP900 / spaTouch™ Menued Panel

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

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

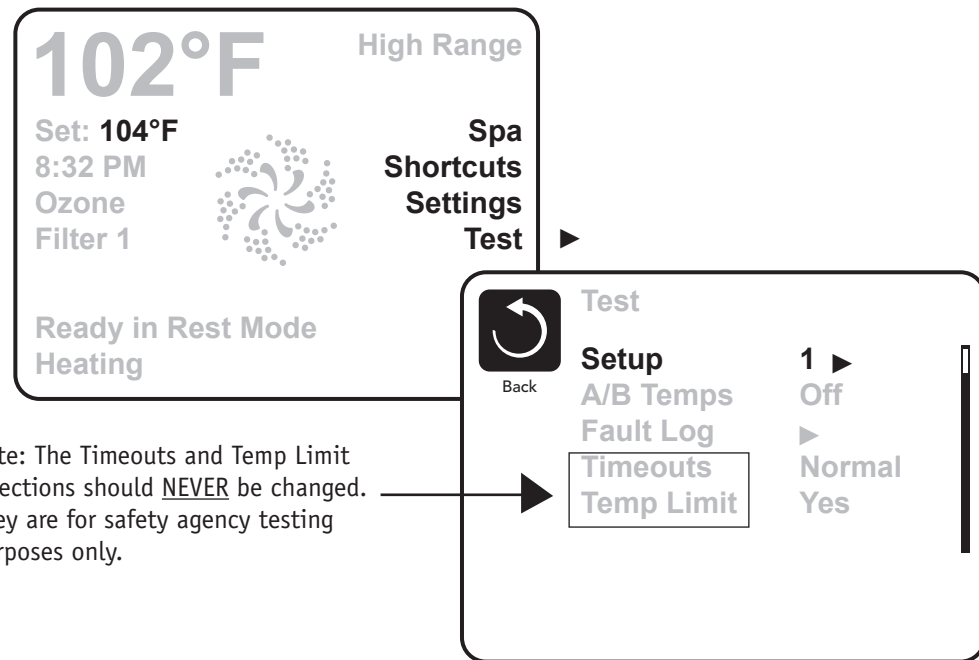
While the system is running, move DIP Switch 1 (on S1 on the Main circuit board) to ON. The system will enter Test Mode. Moving DIP Switch 1 to OFF will exit Test Mode.



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## Software Setups

Under the TEST Menu, the Setup screen will allow changing the Setup from 1 to any number established by the Manufacturer. Changing the Setup may require wiring changes as well.



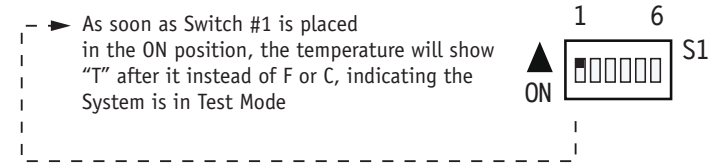
Note: The Timeouts and Temp Limit selections should NEVER be changed. They are for safety agency testing purposes only.

# Changing Software Setups with TP600/TP500/TP400 **KARAG**

## 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.



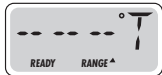
## Software Setups

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.

# Continued

# Changing Software Setups with TP600/TP500/TP400 **KARAG**

Again, **You will have 1 minute** to complete the setup change after you manually exit Priming Mode.

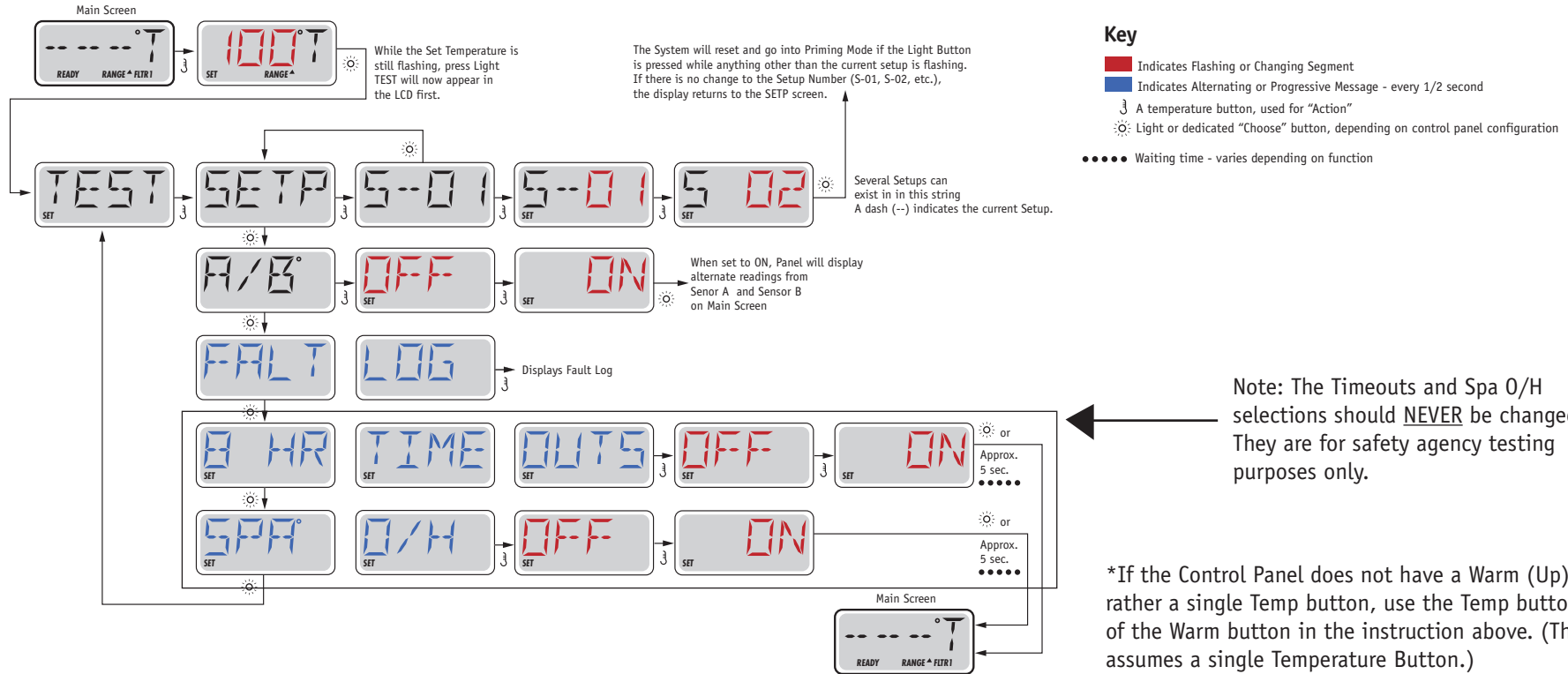
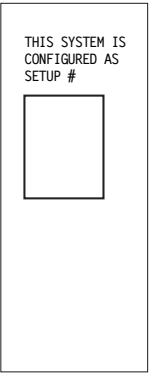
NOTE: Wherever the below says Warm or Temp followed by Light, on the TP500 press Menu instead of Warm or Temp followed by light. And whenever the chart below says Light, on the TP500 press Menu instead of Light.

Immediately after exiting Priming Mode, press this sequence of buttons: Warm\*, Light, Warm, Warm, Warm, Warm. Continue to press Warm until the display 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.



# Equipment Expansion

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## Expansion Features

### Control Connection

Relay 1 (J5)

### Default

None

### Fuse

None

# DIP Switch Functions

## Fixed-function 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.
- 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 and A3** 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 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 all off = No heat with any high-speed pump or blower.

## Assignable DIP Switches

- A4 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).
- A7 In "ON" position, Simplified Menus on TP400/TP500/TP600. Do not use graphic panels (TP800, TP900, or spaTouch™ family) with Simplified Menus.  
In "OFF" position, Regular Menus on TP400/TP500/TP600. This setting is compatible with all panels.

*Undesignated switches are not assigned a function.*

# Jumper Definitions

<b>J109</b>	Non Applicable on CE models	J109 
<b>J30</b>	Do Not Use	
<b>J31</b>	<p>Jumper on 1 pin with 2.0kW or smaller heater</p> <p>Jumper on 2 pins with a 3.0kW or higher heater</p>	<p>J31  for 2kW models</p> <p>Jumper setting varies by system model which is shown to the right of the jumper.</p> <p>J31  for 3kW models</p>

<b>J44</b>	Jumper must be on center two pins (240V) for CE Systems.	
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## 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. © Copyright 2009 Balboa Water Group.

# Replacement Parts

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## PCBA:

Main PCBA: 59191-01 3.0kW Models  
59193-01 2.0kW Models  
Expander PCBA: N/A

## HEATER(s):

Heater: 58419 3.0kW 800 Inc -- for integral heater only  
58450 3.0kW 825 Inc -- for integral heater only  
58427 2.0kW 800 Inc -- for integral heater only  
Temp Sensor Kit: 30344KIT 12-inch sensor -- for integral heater only  
30382KIT 24-inch sensor -- for integral heater only

## CABLES:

N/A

## FUSES:

Part Number	Amperage	Location
30136	30A	F6
26983	1A	F4, F5
24514	0.1A SLO	F3

# BP200 Configuration Options



## General Features

Feature	Default	
Pump 1 in Filter Cycle (Circ Only)	No	
Pump 1 Low Timer	30 Minutes	Applies in non-circ Setups (configurations) only
General Pump Timer	15 Minutes	
Blower Timer	15 Minutes	
Mister Timer	15 Minutes	
Light Timer	240 Minutes	
Circ (when enabled)	Programmable + Polling	
Cleanup Cycle	<i>30 Minutes</i>	
Cleanup as Preference setting	<i>Yes</i>	
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.



# BP200 Configuration Options



## Temperature Features

Feature	Default
Temperature Display	°C

All temperatures must be specified in °F. The system converts °F to °C dynamically. If Celsius is required for default settings, choose a desired °C value that (after rounding) corresponds to a Fahrenheit value.

°C	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
°F	39	41	43	45	46	48	50	52	54	55	57	59	61	63	64	66	68	70	72
°C	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
°F	73	75	77	79	81	82	84	86	88	90	91	93	95	97	99	100	102	104	

Hi-Range Min. Set Temp	80°F
Hi-Range Max. Set Temp	104°F
Hi-Range Default Temp*	100°F
Lo-Range Min. Set Temp	50°F
Lo-Range Max. Set Temp	99°F
Lo-Range Default Temp*	70°F
Freeze Threshold	44°F in Setups 1 & 2; 48°F in Setup 3
Freeze Type	Rotating - Pumps at Lowest Speed
Temp Lock Type	Temp + Settings

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

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.

# BP200 Configuration Options



## Time Features

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

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.

# BP200 Configuration Options

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## Reminder Features

Feature	Default
Reminders Shown*	<i>Yes</i>
Check pH	<i>OFF</i>
Check Sanitizer	<i>OFF</i>
Clean Filter	30 Days
Test GFCI	OFF
Drain Water	<i>100 Days</i>
Change Cartridge	OFF
Clean Cover	<i>OFF</i>
Treat Wood	<i>OFF</i>
Change Filter	365 Days

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

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.

# BP200 Configuration Options

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## Special Features

Feature	Default
Special Amperage Rule A	No Limitation
Special Amperage Rule B	No Limitation
Drain Mode	Disabled
Demo Mode	Disabled
GFCI Trip	Not Applicable for CE Models
Automatic GFCI Test	Disabled
Ozone Slaved to Heater Pump	Yes
Dual Voltage Heater	Always Input Voltage
Safety Suction	Disabled
Menu Style	Standard Menus when DIP switch A7 is OFF. Simplified Menus when DIP switch A7 is ON..

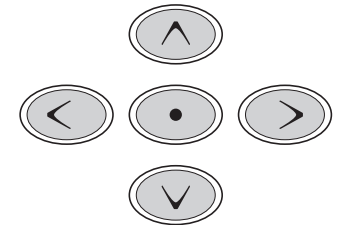
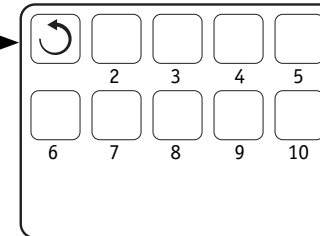
# TP900 Panel Configuration

# KARAG

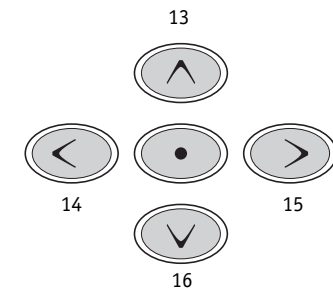
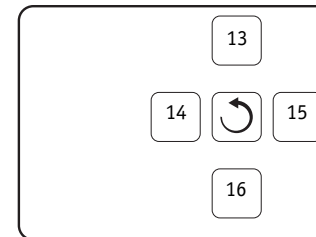
## Button Layout Table

Button #	Setup 1	Setup 2	Setup 3
1	N/A	N/A	N/A
2	Jets 1	Jets 1	Light
3	Light	Light	Invert
4	Invert	Invert	(Circ Icon)
5	(Circ Icon)	Undefined	Undefined
6	Undefined	Undefined	Undefined
7	Undefined	Undefined	Undefined
8	Undefined	Undefined	Undefined
9	Undefined	Undefined	Undefined
10	Undefined	Undefined	Undefined
11	N/A	N/A	N/A
12	N/A	N/A	N/A
13	Jets 1	Jets 1	Undefined
14	Undefined	Undefined	Undefined
15	Light	Light	Undefined
16	Invert	Invert	Undefined

### Spa Screen



### Shortcuts Screen



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

# TP800 Panel Configuration



## Button Layout Table

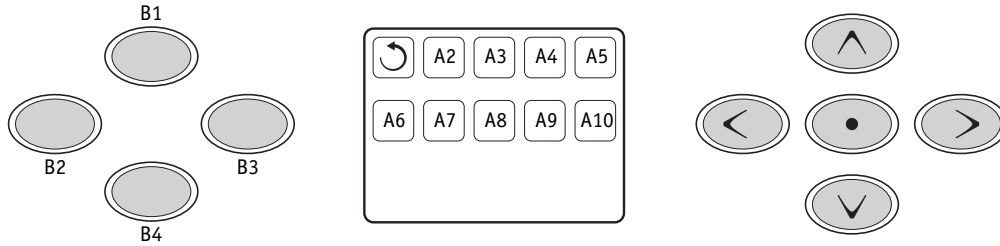
Feature #	Setup 1	Setup 2
A1	N/A	N/A
A2	Jets 1	Jets 1
A3	Light 1	Light 1
A4	Invert	Invert
A5	(Circ Icon)	Undefined
A6	Undefined	Undefined
A7	Undefined	Undefined
A8	Undefined	Undefined
A9	Undefined	Undefined
A10	Undefined	Undefined
A11	N/A	N/A
A12	N/A	N/A
A13	Undefined	Undefined
A14	Undefined	Undefined
A15	Undefined	Undefined
A16	Undefined	Undefined
B1	Jets 1	Jets 1
B2	Undefined	Undefined
B3	Undefined	Undefined
B4	Light 1	Light 1

TP800 is not officially supported in Setup 3.

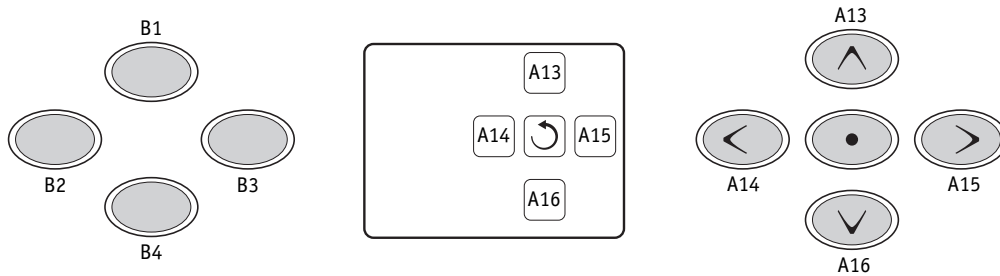
# TP800 Panel Configuration

# KARAG

## Spa Screen



## Shortcuts Screen



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

Button 1 is fixed.

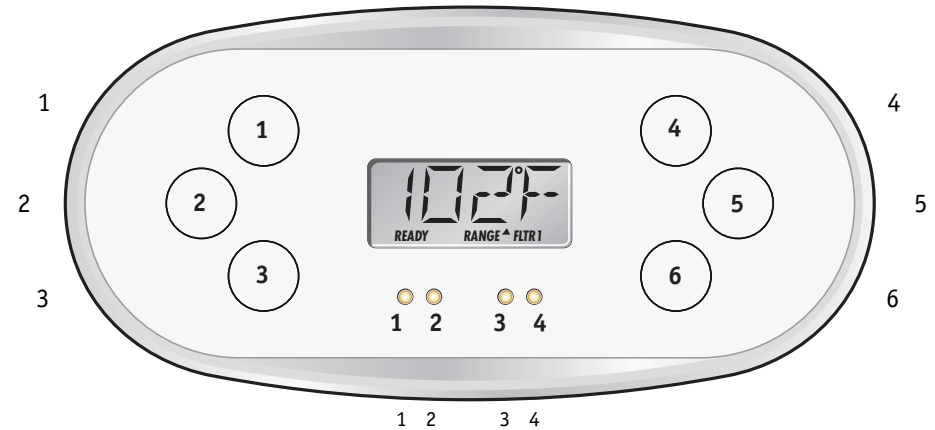
# TP600 Panel Configuration

# KARAG

## Button Layout Table

Button #	Setup 1 & 2
1	Jets 1
2	Undefined
3	Invert
4	Up
5	Light 1
6	Down
<b>LED 1</b>	Jets 1
<b>LED 2</b>	Undefined
<b>LED 3</b>	Light 1
<b>LED 4</b>	Heat On

TP600 is not officially supported in Setup 3.



## TP600

55676-XX

No Overlay

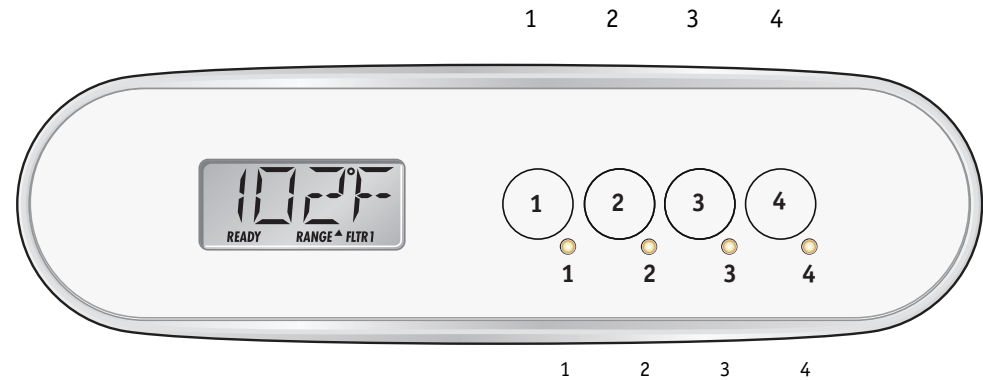


# TP400 Panel Configuration

# KARAG

## Button Layout Table for TP400T

Button #	Setup 1 & 2	Setup 3
1	Temperature	Up
2	Jets 1	Down
3	Light 1	Light 1
4	Undefined	Undefined
LED 1	Heater ON	Heater ON
LED 2	Jets 1 ON	Undefined
LED 3	Light ON	Light ON
LED 4	Undefined	Undefined



## Button Layout Table for TP400W

Button #	All Setups
1	Up
2	Down
3	Light 1
4	Jets 1
LED 1	Heater ON
LED 2	Undefined
LED 3	Light ON
LED 4	Jets 1 ON

### TP400W CE

50259-XX

Includes overlay PN 12510.

### TP400T CE

50260-XX

Includes overlay PN 12511.