

BP25P3BC Tech Sheet

Customer: Balboa Water Group

Part Number: 55963-02

Custom Box Overlay

Box Overlay Part Number N/A

UL System Model: BM25-BP25P3BC-AM

Software Version ID: M100_210 V6

Software Version: 6.0

File Name: BP2500_6.0_BP25P3BC_4.hex

Configuration Signature: 328AA608

Eng. Project Number: 3735

Base PCBA: 55964-02

Bare Board: 22614_A

Control Panels:

TP800 50261

TP900 50262

Software Version 1.2 and later

Auxiliary Panels

See Page 20

System Revision History

| Part # | EPN | Date | Originator | Changes Made |
|----------|------|----------|------------|--|
| 55963 | 3343 | 03-15-10 | BWG | Initial Release Generic BP2500 |
| 55963-01 | 3479 | 10-12-10 | BWG | Add Setups for Circ and three 1-speed pumps. RMA Tester and eFAST compatibility added. Light output changed to 1A. |
| 55963-02 | 3735 | 12-01-11 | BWG | Additional iPhone app support. Add TP800 Panel functionality. |
| | | | | |
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| | | | | |

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.



Basic Functions Setup 1

Power Requirements:

240VAC, 60Hz, 48A, Class A GFCI-protected service (Circuit Breaker = 60A max.),
4 wires [hot, hot, neutral, ground]

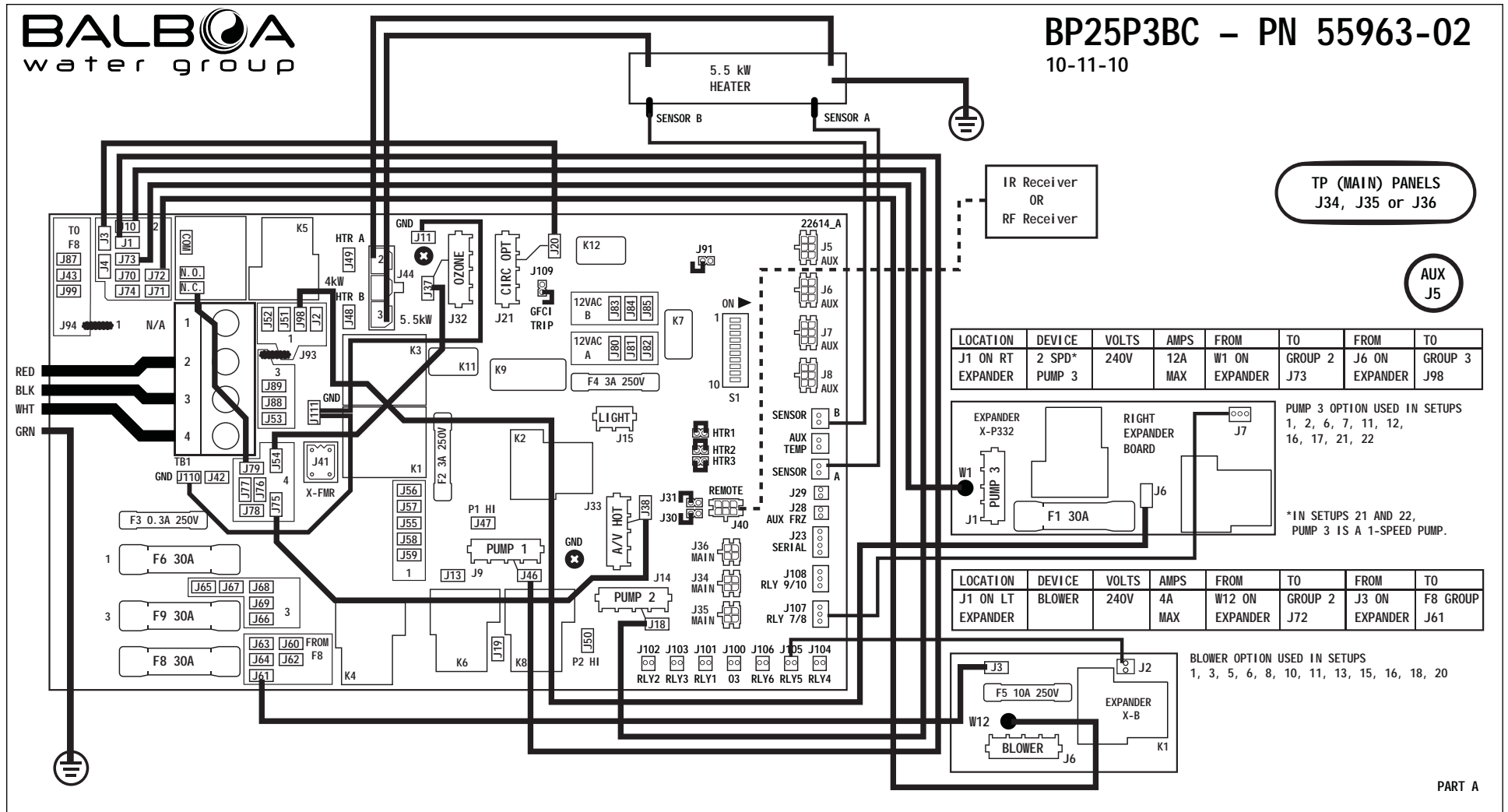
System Outputs:

| | | | | |
|--------------|---|---------|---------|---|
| Pump 1 | 240VAC | 2-Speed | 12A max | 15-minute timer for High Speed, 15-Minute timer for Low Speed |
| Pump 2 | 240VAC | 2-Speed | 12A max | 15-minute timer |
| Pump 3 | 240VAC | 2-Speed | 12A max | 15-minute timer |
| Blower | 240VAC | 1-Speed | 12A max | 15-minute timer |
| Circ Pump | 240VAC | 1-Speed | 2A max | Programmable Filtration Cycles + Polling |
| | This is the heater pump Must deliver 20 GPM through heater | | | |
| Ozone | 120VAC | | .5A max | Separate Relay |
| Spa Light | 12VAC | On/Off | 1A max | 240-minute timer. |
| A/V (Stereo) | 120VAC | Hot | 5A max | Always on |
| Heater | 5.5kW @ 240VAC max | | | |

*A 120VAC light may allow more than 1A max.

Hardware Setup

Wiring Diagram



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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Hardware Setup

Settings

| LOCATION | DEVICE | VOLTS | MAX AMPS | FROM | TO |
|----------|-------------|-------|----------|------|-------------|
| J9 | 2-SP PUMP 1 | 240V | 12A MAX | J46 | J1-GROUP 2 |
| J14 | 2-SP PUMP 2 | 240V | 12A MAX | J18 | J10-GROUP 2 |
| J15 | SPA LIGHT | 12V | 1A | | |
| J21 | CIRC OPTION | 240V | 1A MAX | J20 | J3-GROUP 2 |
| J32 | OZONE | 120V | 1A | J37 | J54-GROUP 4 |
| J33 | TV / AV | 120V | 5A | J38 | J75-GROUP 4 |
| J44 | HEATER | 240V | 5.5 kW | | |

PUMP 1 IS 1-SPEED IN SETUP2 21 AND 22
 PUMP 2 IS 1-SPEED IN SETUPS 5, 10, 15, 20, 21 AND 22

CIRC PUMP OPTION
 PROGRAMMABLE FILTRATION CYCLES + POLLING
 USED IN SETUPS
 1, 2, 3, 4, 5, 11, 12, 13, 14, 15, 21, 22

SETUPS 1-10 ARE IDENTICAL TO SETUPS 11-20, EXCEPT 11-20 DISPLAY TEMPERATURE IN °C
 SETUP 21 IS IDENTICAL TO SETUP 22, EXCEPT 22 DISPLAYS TEMPERATURE IN °C

| SETUP # | CIRC PUMP | PUMP 1 | PUMP 2 | PUMP 3 | BLOWER | TEMP SCALE |
|---------|-----------------------------------|---------|---------|---------|---------|------------|
| 1 | PROGRAMMABLE FILTRATION + POLLING | 2-SPEED | 2-SPEED | 2-SPEED | 1-SPEED | °F |
| 2 | PROGRAMMABLE FILTRATION + POLLING | 2-SPEED | 2-SPEED | 2-SPEED | | °F |
| 3 | PROGRAMMABLE FILTRATION + POLLING | 2-SPEED | 2-SPEED | | 1-SPEED | °F |
| 4 | PROGRAMMABLE FILTRATION + POLLING | 2-SPEED | 2-SPEED | | | °F |
| 5 | PROGRAMMABLE FILTRATION + POLLING | 2-SPEED | 1-SPEED | | 1-SPEED | °F |
| 6 | | 2-SPEED | 2-SPEED | 2-SPEED | 1-SPEED | °F |
| 7 | | 2-SPEED | 2-SPEED | 2-SPEED | | °F |
| 8 | | 2-SPEED | 2-SPEED | | 1-SPEED | °F |
| 9 | | 2-SPEED | 2-SPEED | | | °F |
| 10 | | 2-SPEED | 1-SPEED | | 1-SPEED | °F |
| 11 | PROGRAMMABLE FILTRATION + POLLING | 2-SPEED | 2-SPEED | 2-SPEED | 1-SPEED | °C |
| 12 | PROGRAMMABLE FILTRATION + POLLING | 2-SPEED | 2-SPEED | 2-SPEED | | °C |
| 13 | PROGRAMMABLE FILTRATION + POLLING | 2-SPEED | 2-SPEED | | 1-SPEED | °C |
| 14 | PROGRAMMABLE FILTRATION + POLLING | 2-SPEED | 2-SPEED | | | °C |
| 15 | PROGRAMMABLE FILTRATION + POLLING | 2-SPEED | 1-SPEED | | 1-SPEED | °C |
| 16 | | 2-SPEED | 2-SPEED | 2-SPEED | 1-SPEED | °C |
| 17 | | 2-SPEED | 2-SPEED | 2-SPEED | | °C |
| 18 | | 2-SPEED | 2-SPEED | | 1-SPEED | °C |
| 19 | | 2-SPEED | 2-SPEED | | | °C |
| 20 | | 2-SPEED | 1-SPEED | | 1-SPEED | °C |
| 21 | PROGRAMMABLE FILTRATION + POLLING | 1-SPEED | 1-SPEED | 1-SPEED | | °F |
| 22 | PROGRAMMABLE FILTRATION + POLLING | 1-SPEED | 1-SPEED | 1-SPEED | | °C |

SYSTEM WILL BE IN
 SETUP #1 UNLESS
 MARKED OTHERWISE BELOW

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



PUMP 1 LOW TIMEOUT IS 15 MINUTES FOR CIRC SYSTEMS.
 PUMP 1 LOW TIMEOUT IS 120 MINUTES FOR NON-CIRC SYSTEMS.

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 A |
| STORE SETTINGS* | ◀ A6 | MEMORY RESET* |
| NOT ASSIGNED | ◀ A7 | NOT ASSIGNED |
| NOT ASSIGNED | ◀ A8 | NOT ASSIGNED |
| NOT ASSIGNED | ◀ A9 | NOT ASSIGNED |
| NOT ASSIGNED | ◀ A10 | NOT ASSIGNED |

*SWITCH # 6 SHOULD BE SET TO OFF UPON FINAL INSTALLATION.

USE COPPER CONDUCTORS ONLY.
 EMPLOYER UNIQUEMENT DES CONDUCTEURS DE CUIVRE.
 #6 AWG MIN. WIRE = 90°

FOR SUPPLY CONNECTIONS, USE CONDUCTORS SIZED ON THE BASIS OF
 60°C AMPACITY BUT RATED MINIMUM OF 90°C.

TORQUE RANGE FOR MAIN TERMINAL BLOCK (TB1):
 27-30 IN. LBS. (31.1-34.5 kg cm)

CONNECT ONLY TO CIRCUITS PROTECTED BY A CLASS A GFCI.

A DISCONNECTING MEANS MUST BE INSTALLED WITHIN SIGHT FROM
 THE EQUIPMENT AND AT LEAST 5 FEET (1.52 M) FROM THE
 INSIDE WALLS OF THE POOL, SPA, OR HOT TUB.

TOTAL OUTPUT AMP DRAW NOT TO EXCEED MAX INPUT RATING OF SPA
 USE EARTH GROUND CONNECTIONS AS INDICATED INSIDE THE SYSTEM ENCLOSURE

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BP25P3BC – PN 55963-02

10-11-10

PART B

Setup Reference Table

| Setup # | Circ Pump | Pump 1 | Pump 2 | Pump 3 | Blower | Temp Scale |
|---------|-----------------------------------|---------|---------|---------|---------|------------|
| 1 | Programmable Filtration + Polling | 2-Speed | 2-Speed | 2-Speed | 1-Speed | °F |
| 2 | Programmable Filtration + Polling | 2-Speed | 2-Speed | 2-Speed | | °F |
| 3 | Programmable Filtration + Polling | 2-Speed | 2-Speed | | 1-Speed | °F |
| 4 | Programmable Filtration + Polling | 2-Speed | 2-Speed | | | °F |
| 5 | Programmable Filtration + Polling | 2-Speed | 1-Speed | | 1-Speed | °F |
| 6 | | 2-Speed | 2-Speed | 2-Speed | 1-Speed | °F |
| 7 | | 2-Speed | 2-Speed | 2-Speed | | °F |
| 8 | | 2-Speed | 2-Speed | | 1-Speed | °F |
| 9 | | 2-Speed | 2-Speed | | | °F |
| 10 | | 2-Speed | 1-Speed | | 1-Speed | °F |
| 11 | Programmable Filtration + Polling | 2-Speed | 2-Speed | 2-Speed | 1-Speed | °C |
| 12 | Programmable Filtration + Polling | 2-Speed | 2-Speed | 2-Speed | | °C |
| 13 | Programmable Filtration + Polling | 2-Speed | 2-Speed | | 1-Speed | °C |
| 14 | Programmable Filtration + Polling | 2-Speed | 2-Speed | | | °C |
| 15 | Programmable Filtration + Polling | 2-Speed | 1-Speed | | 1-Speed | °C |
| 16 | | 2-Speed | 2-Speed | 2-Speed | 1-Speed | °C |
| 17 | | 2-Speed | 2-Speed | 2-Speed | | °C |
| 18 | | 2-Speed | 2-Speed | | 1-Speed | °C |
| 19 | | 2-Speed | 2-Speed | | | °C |
| 20 | | 2-Speed | 1-Speed | | 1-Speed | °C |
| 21 | Programmable Filtration + Polling | 1-Speed | 1-Speed | 1-Speed | | °F |
| 22 | Programmable Filtration + Polling | 1-Speed | 1-Speed | 1-Speed | | °C |

System is shipped in Setup 1

Pump 1 Low timeout is 15 minutes for Circ systems.
Pump 1 Low timeout is 120 minutes for Non-Circ systems.

Setups 11-20 are identical to 1-10 except for °C.

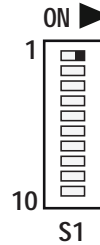
Setup 21 is identical to 22 except for °C.

Changing Software Setups

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

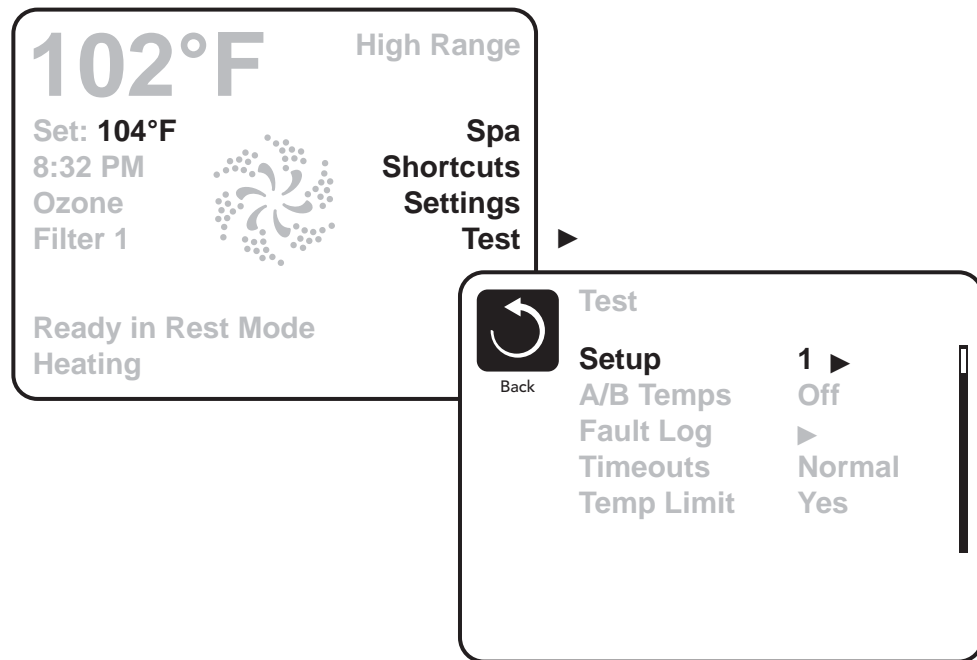
DANGER! HIGH VOLTAGE WILL BE ACCESSIBLE! SERVICE TECHNICIAN ONLY!

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.



Equipment Expansion

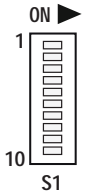
Expansion Features

| Control Connection | Default | Fuse |
|--------------------|-----------|------|
| Relay 1 (J101) | Undefined | None |
| Relay 2 (J102) | Undefined | None |
| Relay 3 (J103) | Undefined | None |
| Relay 4 (J104) | Undefined | None |
| Relay 5 (J105) | Blower | 10A |
| Relay 6 (J106) | Undefined | None |
| Relay 7/8 (J107) | Pump 3 | 30A |
| 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.

Undesignated switches are not assigned a function.

Jumper Definitions

| | | |
|--------------------|---|--|
| J93 J94 | Must be soldered in place for UL and cUL Note: <i>Single service, 50A or 60A.</i> | J94  J93  |
| J109 | GFCI Test/Trip Enable Note: <i>This feature must be enabled in software as well.</i> | J109  |
| J91 | Real Time Clock Enable/Disable Note: <i>This Jumper should NOT be shorted when the Control Panel can display time of day.</i> | J91  |
| J30 J31 | Do Not Use | |
| J29 | Do Not Use | J29  |
| HTR 1, 2, 3 | Heater Type Settings. Note: <i>Factory Configured.</i> | |

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.

BP2500 Configuration Options

General Features

| Feature | Default |
|------------------------------------|--|
| Pump 1 in Filter Cycle (Circ Only) | No |
| Pump 1 Low Timer | <i>15 Minutes with Circ</i> <i>120 Minutes Non-Circ</i> |
| 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 | Always |
| Ozone Suppression | OFF |
| Pump Purge | 60 Seconds |
| Blower Purge | 30 Seconds |
| Mister Purge | 5 Seconds |

Blue Indicates New Custom Configuration Default (Setup 1)

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.

BP2500 Configuration Options

Temperature Features

| Feature | Default |
|---------------------|---|
| Temperature Display | °F in Setups 1-10 °C in Setups 11-20 |

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 |
| Temp Lock Type | Temp + Settings |

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

Blue Indicates New Custom Configuration Default (Setup 1)

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.

BP2500 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 |

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

Blue Indicates New Custom Configuration Default (Setup 1)

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.

BP2500 Configuration Options

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 | <i>65 Days</i> |
| 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)*

Blue Indicates New Custom Configuration Default (Setup 1)

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.

BP2500 Configuration Options

Special Features

| Feature | Default |
|-----------------------------|----------------------|
| Special Amperage Rule A | No Limitation |
| Special Amperage Rule B | No Limitation |
| Drain Mode | Disabled |
| Demo Mode | Disabled |
| Automatic GFCI Test | Disabled |
| Ozone Slaved to Heater Pump | No |
| Dual Voltage Heater | Always Input Voltage |
| Safety Suction | Disabled |

TP800 Panel Configuration

Button Layout Table

| Feature # | Pump 3 & Blower Setups 1, 6, 11, 16 | Pump 3 & NO Blower Setups 2, 12, 21, 22 | NO Pump 3 & Blower Setups 3, 5, 8, 10, 13, 15, 18, 20 | NO Pump 3 & NO Blower Setups 4, 9, 14, 19 |
|-----------|--|--|--|--|
| A1 | N/A | N/A | N/A | N/A |
| A2 | Jets 1 | Jets 1 | Jets 1 | Jets 1 |
| A3 | Jets 2 | Jets 2 | Jets 2 | Jets 2 |
| A4 | Jets 3 | Jets 3 | Blower | Light 1 |
| A5 | Blower | Light 1 | Light 1 | Invert |
| A6 | Light 1 | Invert | Invert | (Circ Icon) |
| A7 | Invert | (Circ Icon) | (Circ Icon) | Undefined |
| A8 | (Circ Icon) | Undefined | Undefined | Undefined |
| A9 | Undefined | Undefined | Undefined | Undefined |
| A10 | Undefined | Undefined | Undefined | Undefined |
| A11 | N/A | N/A | N/A | N/A |
| A12 | N/A | N/A | N/A | N/A |
| A13 | Jets 1 | Jets 1 | Jets 1 | Jets 1 |
| A14 | Jets 2 | Jets 2 | Jets 2 | Jets 2 |
| A15 | Blower | Jets 3 | Blower | Undefined |
| A16 | Light 1 | Light 1 | Light 1 | Light 1 |
| B1 | Jets 1 | Jets 1 | Jets 1 | Jets 1 |
| B2 | Jets 2 | Jets 2 | Jets 2 | Jets 2 |
| B3 | Blower | Jets 3 | Blower | Undefined |
| B4 | Light 1 | Light 1 | Light 1 | Light 1 |

A Circ Icon will appear when a Circ Pump is configured using Setups 1, 2, 3, 4, 5, 11, 12, 13, 14, 15, 21, 22

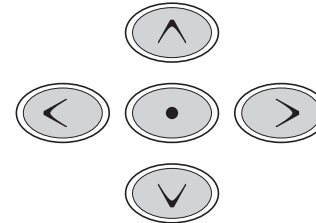
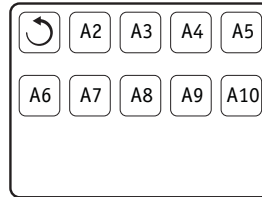
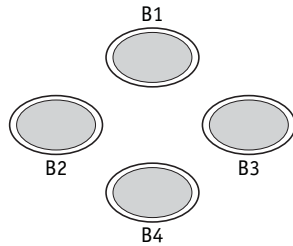
BP2500 Sheet

TP800

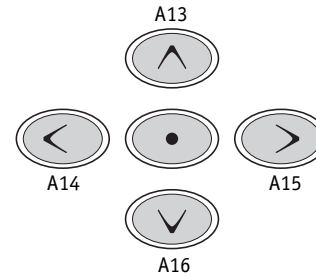
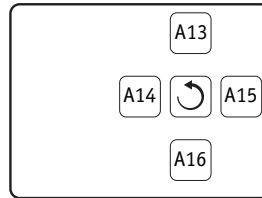
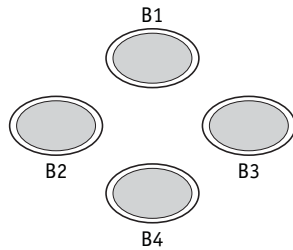
Note: Buttons 11 and 12 are not used in this configuration.

Button 1 is fixed.

Spa Screen



Shortcuts Screen

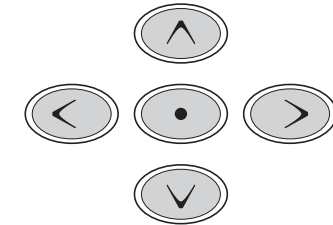
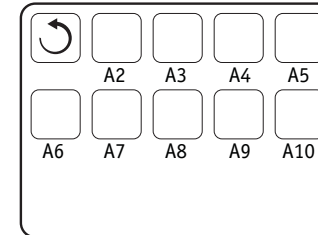


TP900 Panel Configuration

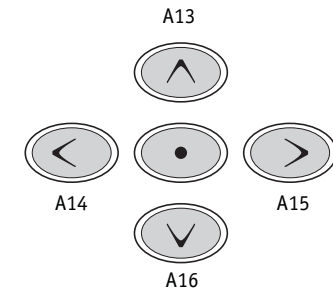
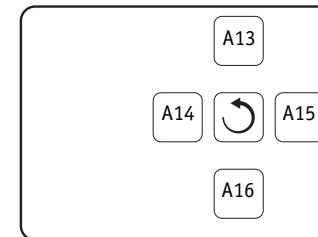
Button Layout Table

| Feature # | Pump 3 & Blower Setups 1, 6, 11, 16 | Pump 3 & NO Blower Setups 2, 12, 21, 22 | NO Pump 3 & Blower Setups 3, 5, 8, 10, 13, 15, 18, 20 | NO Pump 3 & NO Blower Setups 4, 9, 14, 19 |
|-----------|--|--|--|--|
| A1 | N/A | N/A | N/A | N/A |
| A2 | Jets 1 | Jets 1 | Jets 1 | Jets 1 |
| A3 | Jets 2 | Jets 2 | Jets 2 | Jets 2 |
| A4 | Jets 3 | Jets 3 | Blower | Light 1 |
| A5 | Blower | Light 1 | Light 1 | Invert |
| A6 | Light 1 | Invert | Invert | (Circ Icon) |
| A7 | Invert | (Circ Icon) | (Circ Icon) | Undefined |
| A8 | (Circ Icon) | Undefined | Undefined | Undefined |
| A9 | Undefined | Undefined | Undefined | Undefined |
| A10 | Undefined | Undefined | Undefined </td <td>Undefined</td> | Undefined |
| A11 | N/A | N/A | N/A | N/A |
| A12 | N/A | N/A | N/A | N/A |
| A13 | Jets 1 | Jets 1 | Jets 1 | Jets 1 |
| A14 | Jets 2 | Jets 2 | Jets 2 | Jets 2 |
| A15 | Blower | Jets 3 | Blower | Undefined |
| A16 | Light 1 | Light 1 | Light 1 | Light 1 |

Spa Screen



Shortcuts Screen



A Circ Icon will appear when a Circ Pump is configured using Setups 1, 2, 3, 4, 5, 11, 12, 13, 14, 15, 21, 22

BP2500 Configuration Options

Auxilliary Panel Features on Bank 1*

| Feature | Default |
|---------------|---------|
| Aux Button A1 | Jets 1 |
| Aux Button A2 | Jets 2 |
| Aux Button A3 | Jets 3 |
| Aux Button A4 | Light |

Auxilliary Panel Features on Bank 2*

| Feature | Default |
|---------------|---------|
| Aux Button A5 | Jets 1 |
| Aux Button A6 | Jets 2 |
| Aux Button A7 | Blower |
| Aux Button A8 | Light |

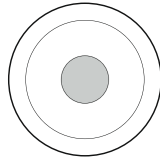
*Bank 1 consists on J5 and J6 on the Main Circuit Board.
Bank 2 consists on J7 and J8 on the Main Circuit Board.
Aux Connection Splitter PN4XXXX may be required.

BP2500 Configuration Options

Auxilliary Panel Features

AX10 Panels on Bank 1*

| | | | |
|------------|--------|-------|---|
| A1, AX10A1 | No O/L | 52803 | |
| A2, AX10A2 | No O/L | 52804 | |
| A3, AX10A3 | No O/L | 55805 | ▶ |
| A4, AX10A4 | No O/L | 52806 | |



Call Customer Service for additional information about Auxiliary Panels.

Auxiliary Panel Part Number _____

Overlay Part Number _____

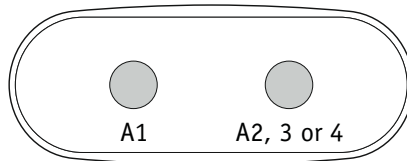
AX10 Panels on Bank 2*

| | | |
|------------|--------|-------|
| 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 PN4XXXX may be required.

AX20

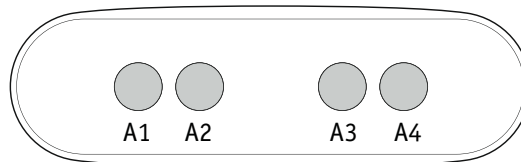
| | | |
|-----------|--------|-------|
| AX20 A1A2 | No O/L | 52800 |
| AX20 A1A3 | No O/L | 52801 |
| AX20 A1A4 | No O/L | 52802 |



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 |
|------|--------|-------|



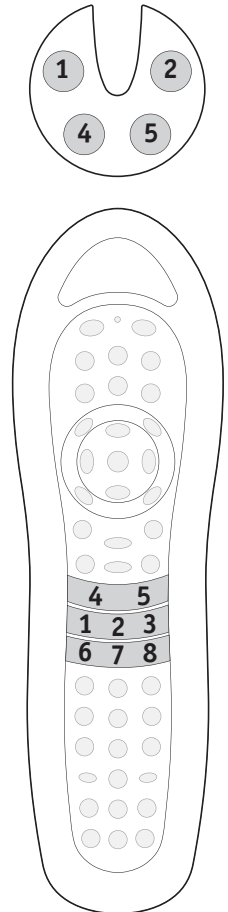
AX40 Auxiliary Panel plugged into Bank 1 will operate A1 + A2, A3 and A4.
AX40 Auxiliary Panel plugged into Bank 2 will operate A5 + A6, A7 and A8.

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.

BP2500 Configuration Options

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 |



Remote Panel Part Number _____
 Overlay Part Number _____