BP1500 Tech Sheet

Balboa Water Group

Part Number: 55697-04 4kW 800 Incoloy Element    55967-03 3kW 800 Incoloy Element
          55700-04 With 4kW Titanium Element     55968-03 3kW 800 Titanium Element

Compatible Plumbing Kits (Coupling nuts and seals included)
  55911 2" Tailpieces (2-Speed Pump 1)
  55914 1.5" Tailpieces (2-Speed Pump 1)
  55912 1" Tailpiece Inserts (Circ)
  55913 One Direct Circ Pump Coupling and one 1" Tailpiece Insert

System Model: BP1500
Software ID: M100_200
Software Version: 3.0
Hex File: BP1500_3.hex
Configuration Signature: A111A271

Eng. Project: 3333

Base PCBs / PCBA's:
  Power Board: 22117_B / 55674-01
  Logic Board: 22121_C / 55675-05

Control Panels:
  TP 600 55673-03
  Software Version 1.0 and later

Auxiliary Panels
  AX10A2 55919

User Interface and Programming Guide:
http://service.balboa-instruments.com/zz40940_download.zip

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. All material copyright of Balboa Water Group.
# System Revision History

<table>
<thead>
<tr>
<th>Part #</th>
<th>EPN</th>
<th>Date</th>
<th>Originator</th>
<th>Changes Made</th>
</tr>
</thead>
</table>
| 55697   | 2277 | 05-19-09  | Balboa     | Initial Generic Configuration  
800 Incoloy and Titanium models  
Initial release               |
|         |      | 06-09-09  | Balboa     | Minor corrections and clarification. Add J23 / J32 connection for Misc.          |
|         | 3297 | 12-01-09  | BWG        | Tech Sheet update                                          |
|         | 3333 | 02-09-10  | BWG        | Software update and configuration update (remove GFCI Test Feature)         |
|         | 3333 | 02-17-10  | BWG        | Wiring Diagram Update to Rev B Power Board and Rev C Logic Board               |
|         | 3333 | 03-12-10  | BWG        | Software update to Version 3.0                                             |
|         |      |           |            | P1 Low Timeout Update. Add Setup Change Reference                             |

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Service - Input Power Requirements (Circle Letter Assignment)

- **B**: 240VAC, 60Hz, 48A, Class A GFCI-protected service (Circuit Breaker = 60A max.), 4 wires [hot, hot, neutral, ground]
- **C**: 120/240VAC, 60Hz, 16/32A, Class A GFCI-protected service (Circuit Breaker = 20/40A max.), 3 or 4 wires [hot, hot (optional), neutral, ground]
- **D**: 240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker = 50A max.), 4 wires (Hot–Line 1, Hot–Line 2, Neutral, Ground)
- **A**: 120/240VAC, 60Hz, 16/40A, Class A GFCI-protected service (Circuit Breaker = 20/50A max.), 3 or 4 wires [hot, hot (optional), neutral, ground]
- **H**: 240VAC, 60Hz, 32A, Class A GFCI-protected service (Circuit Breaker = 40A max.), 4 wires [hot, hot, neutral, ground]
- **F**: 120VAC, 60Hz, 16A, Class A GFCI-protected service (Circuit Breaker = 20A max.), 3 wires [hot, neutral, ground]
- **Y**: 120/240VAC, 60Hz, 16/48A, Class A GFCI-protected service (Circuit Breaker = 20/60A max.), 3 or 4 wires [hot, hot (optional), neutral, ground]
Plumbing Fittings

2” Tailpiece kit PN 55911.
Standard 2” sockets to glue up to 2” PVC pipe.

1.5” Tailpiece kit PN 55914.
1.5” sockets to glue up to 1.5” PVC pipe with the I.D.
Be sure to orient the fittings so that the insert is at the 12:00 position to prevent trapped air.

1” Circ Pump Insert kit PN 55912.
1” barb fittings for use with 1” tubing.
Be sure to orient the fittings so that the insert is at the 12:00 position to prevent trapped air.

1” Circ Pump Insert kit PN 55913.
One fitting for direct coupling to the threaded suction of an appropriately-sized circ pump. A 1” barb fitting for use with 1” tubing is used on the other end of the heater.
Be sure to orient the fittings so that the insert is at the 12:00 position to prevent trapped air.
Setup 1 – As Manufactured

Power Requirements:
240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
4 wires (Hot–Line 1, Hot–Line 2, Neutral, Ground)

System Outputs:
Pump 1 240VAC 2-Speed 12A max 120-minute timer for Low Speed, 15 Minutes for High Speed
This is the heater pump and must be the same voltage as the Ozone
Must deliver a minimum of 20 GPM through heater
Pump 2 240VAC 1-Speed 12A max 15-minute timer
Ozone 240VAC .5A max Uses the same relay as Pump 1 Low
Must be the same voltage as heater pump
Spa Light 12VAC On/off .25A max 4-Hour timer.
Light output is rated for LED lighting only - NOT for use with incandescent lights.
Heater 4kW @ 240VAC
Misc. J23 & J32 120VAC 4A max Hot output (Stereo). Fused equipment or in-line fuse required.

Wiring Diagram and Settings

Refer to Page 3 to choose a suitable Plumbing Kit.
**Setup 2**

**Power Requirements:**
240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
4 wires (Hot–Line 1, Hot–Line 2, Neutral, Ground)

**System Outputs:**
- **Pump 1**: 240VAC, 1-Speed, 12A max, 15-minute timer
- **Pump 2**: 240VAC, 1-Speed, 12A max, 15-minute timer
- **Circ Pump**: 240VAC, 1-Speed, 5A max, Programmable Filtration Cycles + Polling
  This is the heater pump and must be the same voltage as the Ozone
  Must deliver a minimum of 20 GPM through heater
- **Ozone**: 240VAC, .5A max, Uses the same relay as the Circ Pump
  Must be the same voltage as heater pump
- **Spa Light**: 12VAC, On/Off, .25A max, 4-Hour timer.
  Light output is rated for LED lighting only - NOT for use with incandescent lights.
- **Heater**: 4kW @ 240VAC
- **Misc.**: J23 & J32, 120VAC, 4A max, Hot output (Stereo). Fused equipment or in-line fuse required.

**Wiring Diagram and Settings**

![Wiring Diagram](image)

**Software Configuration Changes based on Default**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Orig. Setup 1</th>
<th>Changes to</th>
</tr>
</thead>
<tbody>
<tr>
<td>J8</td>
<td>2-Speed Pump 1</td>
<td>1-Speed Pump 1</td>
</tr>
<tr>
<td>J21</td>
<td>Not Used (non-circ)</td>
<td>Circ Pump Enabled</td>
</tr>
</tbody>
</table>

Refer to Page 3 to choose a suitable Plumbing Kit.

*Blue indicates changes from the original Setup 1 default*
**Power Requirements:**

240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)

4 wires (Hot–Line 1, Hot–Line 2, Neutral, Ground)

**System Outputs:**

- **Pump 1**
  - 240VAC
  - 2-Speed
  - 12A max
  - 120-minute timer for Low Speed, 15 Minutes for High Speed
  - This is the heater pump and must be the same voltage as the Ozone
  - Must deliver a minimum of 20 GPM through heater

- **Blower**
  - 240VAC
  - 1-Speed
  - 8A max
  - 15-minute timer

- **Ozone**
  - 240VAC
  - .5A max
  - Uses the same relay as Pump 1 Low
  - Must be the same voltage as heater pump

- **Spa Light**
  - 12VAC
  - On/off
  - .25A max
  - 4-Hour timer.
  - Light output is rated for LED lighting only - NOT for use with incandescent lights.

- **Heater**
  - 4kW @ 240VAC

- **Misc.**
  - J23 & J32
  - 120VAC
  - 4A max
  - Hot output (Stereo). Fused equipment or in-line fuse required.

**Wiring Diagram and Settings**

Refer to Page 3 to choose a suitable Plumbing Kit.

*Blue indicates changes from the original Setup 1 default*
**Setup 4**

**Power Requirements:**
240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
4 wires (Hot–Line 1, Hot–Line 2, Neutral, Ground)

**System Outputs:**

- **Pump 1**: 240VAC 1-Speed 12A max 15-minute timer
- **Blower**: 240VAC 1-Speed 8A max 15-minute timer
- **Circ Pump**: 240VAC 1-Speed 5A max Programmable Filtration Cycles + Polling
  
  This is the heater pump and must be the same voltage as the Ozone.
  Must deliver a minimum of 20 GPM through heater

- **Ozone**: 240VAC .5A max Uses the same relay as the Circ Pump
  Must be the same voltage as heater pump

- **Spa Light**: 12VAC On/Off .25A max 4-Hour timer.
  Light output is rated for LED lighting only - NOT for use with incandescent lights.

- **Heater**: 4kW @ 240VAC

- **Misc.**: J23 & J32 120VAC 4A max Hot output (Stereo). Fused equipment or in-line fuse required.

**Wiring Diagram and Settings**

![Wiring Diagram](image)

**Software Configuration Changes based on Default**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Orig. Setup 1</th>
<th>Changes to</th>
</tr>
</thead>
<tbody>
<tr>
<td>J8</td>
<td></td>
<td>2-Speed Pump 1</td>
</tr>
<tr>
<td>J14, TP600 Button 2, LED 2, AX10A2</td>
<td>Pump 2</td>
<td>Blower</td>
</tr>
<tr>
<td>J21</td>
<td></td>
<td>Not Used (non-circ)</td>
</tr>
</tbody>
</table>

Refer to Page 3 to choose a suitable Plumbing Kit.

*Blue indicates changes from the original Setup 1 default*
Setup 5

Power Requirements:
240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
4 wires (Hot–Line 1, Hot–Line 2, Neutral, Ground)

System Ouputs:
Pump 1 240VAC 2-Speed 12A max 120-minute timer for Low Speed, 15 Minutes for High Speed
This is the heater pump and must be the same voltage as the Ozone
Must deliver a minimum of 20 GPM through heater
Ozone 240VAC .5A max Uses the same relay as Pump 1 Low
Must be the same voltage as heater pump
Spa Light 12VAC On/Off .25A max 4-Hour timer.
Light output is rated for LED lighting only - NOT for use with incandescent lights.
Heater 4kW @ 240VAC
Misc. J23 & J32 120VAC 4A max Hot output (Stereo). Fused equipment or in-line fuse required.

Software Configuration Changes based on Default
Feature Orig. Setup 1 Changes to
J14, TP600 Button 2, LED 2, AX10A2 . . . . Pump 2 . . . . . . . Not Used

Refer to Page 3 to choose a suitable Plumbing Kit.
Blue indicates changes from the original Setup 1 default

Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7,030,343, 7,417,834 b2,
Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.
**Setup 6**

**Power Requirements:**
240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
4 wires (Hot–Line 1, Hot–Line 2, Neutral, Ground)

**System Outputs:**
- **Pump 1**: 240VAC, 1-Speed, 12A max, 15-minute timer
- **Circ Pump**: 240VAC, 1-Speed, 5A max, Programmable Filtration Cycles + Polling
  - This is the heater pump and must be the same voltage as the Ozone
  - Must deliver a minimum of 20 GPM through heater
- **Ozone**: 240VAC, .5A max, Uses the same relay as the Circ Pump
  - Must be the same voltage as heater pump
- **Spa Light**: 12VAC, On/off, .25A max, 4-Hour timer.
  - Light output is rated for LED lighting only - NOT for use with incandescent lights.
- **Heater**: 4kW @ 240VAC
- **Misc.**: J23 & J32, 120VAC, 4A max, Hot output (Stereo). Fused equipment or in-line fuse required.

**Wiring Diagram and Settings**

![Wiring Diagram](image)

**Software Configuration Changes based on Default**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Orig. Setup 1</th>
<th>Changes to</th>
</tr>
</thead>
<tbody>
<tr>
<td>J8</td>
<td>2-Speed Pump 1</td>
<td>1-Speed Pump 1</td>
</tr>
<tr>
<td>J14, TP600 Button 2, LED 2, AX10A2</td>
<td>Pump 2</td>
<td>Not Used</td>
</tr>
<tr>
<td>J21</td>
<td>Not Used (non-circ)</td>
<td>Circ Pump Enabled</td>
</tr>
</tbody>
</table>

Refer to Page 3 to choose a suitable Plumbing Kit.

*Blue indicates changes from the original Setup 1 default*
Power Requirements:
120/240VAC, 60Hz, 16/40A, Class A GFCI-protected service (Circuit Breaker = 20/50A max.),
3 or 4 wires [hot, hot (optional), neutral, ground]. **Do not use this setup with a 3 kW heater.**

System Outputs:
Pump 1 120VAC 2-Speed 12A max 120-minute timer for Low Speed, 15 Minutes for High Speed
This is the heater pump and must be the same voltage as the Ozone
Must deliver a minimum of 20 GPM through heater
Ozone 120VAC .5A max Uses the same relay as Pump 1 Low
Must be the same voltage as heater pump
Spa Light 12VAC 0n/Off .25A max 4-Hour timer.
Light output is rated for LED lighting only - NOT for use with incandescent lights.
Heater 1kW @ 120VAC or 4kW @ 240VAC

Wiring Diagram and Settings

Software Configuration Changes based on Default Feature
Orig. Setup 1 Changes to
J14, TP600 Button 2, LED 2, AX10A2 . . . . Pump 2 . . . . . . . . . . . . . . . . . . . Not Used

120v to 240v heater conversion instructions:
1, Conversion must be performed by a qualified, licensed electrician.
2, Disconnect from power and remove power cord.
3, Completely remove jumper wire between J29 and J33 and discard.
4, Install 240V power conductors; Line 1, Line 2 and Neutral to main terminal block (TB1)

Refer to Page 3 to choose a suitable Plumbing Kit.
Blue indicates changes from the original Setup 1 default

Manufactured under one or more of these patents: U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7,030,343, 7,417,834 b2,
Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.
Setup 8

Power Requirements:
120/240VAC, 60Hz, 16/40A, Class A GFCI-protected service (Circuit Breaker = 20/50A max.),
3 or 4 wires [hot, hot (optional), neutral, ground]. Do not use this setup with a 3 kW heater.

System Outputs:

Power Requirements:
- **Pump 1**: 120VAC, 1-Speed, 12A max, 15-minute timer
- **Circ Pump**: 120VAC, 1-Speed, 1.5A max, Programmable Filtration Cycles + Polling
  This is the heater pump and must be the same voltage as the Ozone
  Must deliver a minimum of 20 GPM through heater
- **Ozone**: 120VAC, .5A max, Uses the same relay as the Circ Pump
  Must be the same voltage as heater pump
- **Spa Light**: 12VAC, On/Off, .25A max, 4-Hour timer.
  Light output is rated for LED lighting only - NOT for use with incandescent lights.
- **Heater**: 1kW @ 120VAC or 4kW @ 240VAC
- **Misc.**: J23 & J32, Not Applicable with 120V Heater.

Wiring Diagram and Settings

Software Configuration Changes based on Default

<table>
<thead>
<tr>
<th>Feature</th>
<th>Orig. Setup 1</th>
<th>Changes to</th>
</tr>
</thead>
<tbody>
<tr>
<td>J8</td>
<td></td>
<td>2-Speed Pump 1</td>
</tr>
<tr>
<td>J14, TP600 Button 2, LED 2, AX10A2</td>
<td>Pump 2</td>
<td>Not Used</td>
</tr>
<tr>
<td>J21</td>
<td></td>
<td>Not Used (non-circ)</td>
</tr>
</tbody>
</table>

120v to 240v heater conversion instructions:
See previous page.

Refer to Page 3 to choose a suitable Plumbing Kit.

*SWITCH # 6 SHOULD BE SET TO OFF UPHON FINAL INSTALLATION*
Setup Changes with DIP Switch 1 ON

Read and understand these instructions before beginning this process.

Know the Setup Number you want before you power up the spa and wait to power up the spa until you’re ready to change the Setup Number.

The system must be in Test Mode, so move Switch 1 to the ON position. The Test Menu will then be available.

Power up the spa, and press any button once to Link the panel. (Note: Switch 1 can be moved to the ON position immediately after power-up, if preferred - Danger! High Voltage will be present!)

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.)

As soon as Switch #1 is placed in the ON position, the temperature will show “T” after it instead of F or C, indicating the System is in Test Mode.

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

Move DIP Switch 1 (on S1 on the Logic circuit board) to ON.
The system will enter Test Mode.
Moving DIP Switch 1 to OFF will exit Test Mode.

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.
Setup Changes – 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, 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.

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*If the Control Panel does not have a Warm (Up) button, but rather a single Temp button, use the Temp button in place of the Warm button in the instruction above. (The flow chart assumes a single Temperature Button.)
## Configuration Options

### General Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump 1 in Filter Cycle (Circ Only)</td>
<td>No</td>
</tr>
<tr>
<td>Pump 1 Low Timer</td>
<td>120 Minutes</td>
</tr>
<tr>
<td>General Pump Timer</td>
<td>15 Minutes</td>
</tr>
<tr>
<td>Blower Timer</td>
<td>15 Minutes</td>
</tr>
<tr>
<td>Mister Timer ( (N/A) )</td>
<td>15 Minutes</td>
</tr>
<tr>
<td>Light Timer</td>
<td>240 Minutes</td>
</tr>
<tr>
<td>Circ</td>
<td>Like P1 Low</td>
</tr>
<tr>
<td>Cleanup Cycle</td>
<td>30 Minutes</td>
</tr>
<tr>
<td>Cleanup as Preference setting</td>
<td>Yes</td>
</tr>
<tr>
<td>Ozone</td>
<td>Always</td>
</tr>
<tr>
<td>Ozone Suppression</td>
<td>OFF</td>
</tr>
<tr>
<td>Pump Purge</td>
<td>60 Seconds</td>
</tr>
<tr>
<td>Blower Purge</td>
<td>30 Seconds</td>
</tr>
<tr>
<td>Mister Purge ( (N/A) )</td>
<td>5 Seconds</td>
</tr>
</tbody>
</table>

Circ Pump can be set with the following functions:
- 24 hr – 24 hr w/3° shutoff – Acts like P1 Low (filters, polls, etc. - Requires a single-speed P1)

Cleanup Cycle
- 30 Minutes

Ozone
- Always

Ozone Suppression
- OFF

Pump Purge
- 60 Seconds

Blower Purge
- 30 Seconds

Mister Purge \( (N/A) \)
- 5 Seconds

Blue Indicates New Custom Configuration Default (Setup 1)
## Configuration Options

### Temperature Features

#### Feature

<table>
<thead>
<tr>
<th>Feature</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Display</td>
<td>°F</td>
</tr>
</tbody>
</table>

*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.*

<table>
<thead>
<tr>
<th>°C</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
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<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
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</thead>
<tbody>
<tr>
<td>°F</td>
<td>39</td>
<td>41</td>
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<td>64</td>
<td>66</td>
<td>68</td>
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</table>

<table>
<thead>
<tr>
<th>°C</th>
<th>23</th>
<th>24</th>
<th>25</th>
<th>26</th>
<th>27</th>
<th>28</th>
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<th>36</th>
<th>37</th>
<th>38</th>
<th>39</th>
<th>40</th>
</tr>
</thead>
<tbody>
<tr>
<td>°F</td>
<td>73</td>
<td>75</td>
<td>77</td>
<td>79</td>
<td>81</td>
<td>82</td>
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<td>95</td>
<td>97</td>
<td>99</td>
<td>100</td>
<td>102</td>
<td>104</td>
</tr>
</tbody>
</table>

- 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

### Time Features

#### Feature

<table>
<thead>
<tr>
<th>Feature</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time Format*</td>
<td>12 Hour</td>
</tr>
<tr>
<td>Filter 1 Start Hour*</td>
<td>8:00 PM (20:00)</td>
</tr>
<tr>
<td>Filter 1 Duration*</td>
<td>2 Hours</td>
</tr>
<tr>
<td>Filter Cycle 2 Default*</td>
<td>OFF</td>
</tr>
<tr>
<td>Filter 2 Start Hour*</td>
<td>8:00 AM (08:00)</td>
</tr>
<tr>
<td>Filter 2 Duration*</td>
<td>15 Minutes</td>
</tr>
<tr>
<td>Light Cycle</td>
<td>Disabled</td>
</tr>
<tr>
<td>Light Cycle Default*</td>
<td>OFF</td>
</tr>
<tr>
<td>Light Cycle Start Hour*</td>
<td>9:00 PM (21:00)</td>
</tr>
<tr>
<td>Light Cycle Duration*</td>
<td>15 Minutes</td>
</tr>
</tbody>
</table>

*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, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.
## Configuration Options

### Reminder Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reminders Shown*</td>
<td>Yes</td>
</tr>
<tr>
<td>Check pH</td>
<td>OFF</td>
</tr>
<tr>
<td>Check Sanitizer</td>
<td>OFF</td>
</tr>
<tr>
<td>Clean Filter</td>
<td>30 Days</td>
</tr>
<tr>
<td>Test GFCI</td>
<td>65 Days</td>
</tr>
<tr>
<td>Drain Water</td>
<td>100 Days</td>
</tr>
<tr>
<td>Change Cartridge</td>
<td>OFF</td>
</tr>
<tr>
<td>Clean Cover</td>
<td>OFF</td>
</tr>
<tr>
<td>Treat Wood</td>
<td>OFF</td>
</tr>
<tr>
<td>Change Filter</td>
<td>365 Days</td>
</tr>
</tbody>
</table>

### Special Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special Amperage Rule 1</td>
<td>No Limitation</td>
</tr>
<tr>
<td>Special Amperage Rule 2</td>
<td>No Limitation</td>
</tr>
<tr>
<td>Drain Mode</td>
<td>Disabled</td>
</tr>
<tr>
<td>Demo Mode</td>
<td>Disabled</td>
</tr>
<tr>
<td>Automatic GFCI Test</td>
<td>Disabled</td>
</tr>
<tr>
<td>Ozone Slaved to Heater Pump</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Editable by end-user"
Configuration Options

Main Control Panel Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Button 1</td>
<td>Jets 1</td>
</tr>
<tr>
<td>Button 2</td>
<td>Jets 2</td>
</tr>
<tr>
<td>Button 3</td>
<td>Flip</td>
</tr>
<tr>
<td>Button 4</td>
<td>Up</td>
</tr>
<tr>
<td>Button 5</td>
<td>Light 1</td>
</tr>
<tr>
<td>Button 6</td>
<td>Down</td>
</tr>
</tbody>
</table>

LED 1 | Jets 1 |
LED 2 | Jets 2 |
LED 3 | Light 1 |
LED 4 | Heat ON |

TP600
55673-03

Download the User Interface and Programming Guide here:
http://service.balboa-instruments.com/zz40940_download.zip

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, 7,030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.
# Configuration Options

## Auxiliary Panel Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aux Button A1</td>
<td>Jets 1</td>
</tr>
<tr>
<td>Aux Button A2</td>
<td>Jets 2</td>
</tr>
<tr>
<td>Aux Button A3</td>
<td>Unused</td>
</tr>
<tr>
<td>Aux Button A4</td>
<td>Light</td>
</tr>
</tbody>
</table>

### AX10 A1
- No O/L
- 52803

### AX10 A2
- AUX 0/L
- 55919

### AX10 A3
- No O/L
- 52805

### AX10 A4
- No O/L
- 52806

### AX20 A1A2
- No O/L
- 52800

### AX20 A1A3
- No O/L
- 52801

### AX20 A1A4
- No O/L
- 52802

### AX40
- No O/L
- 52799