Balboa Water Group 50335KIT TP600

Balboa 50335KIT TP600 Topside Control Panel

USER INSTRUCTION MANUAL

1. Introduction

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Balboa 50335KIT TP600 Topside Control Panel. This control panel is designed to interface with Balboa spa control systems, allowing users to manage various functions of their hot tub or spa, including jets, temperature, and lighting. Please read this manual thoroughly before installation and operation to ensure proper function and safety.

2. Safety Information

Always observe the following safety precautions to reduce the risk of injury, electric shock, fire, or damage to the product.

- **Electrical Safety:** Ensure that the main power to the spa is disconnected at the circuit breaker before attempting any installation, maintenance, or repair.
- **Qualified Personnel:** Installation and servicing should only be performed by a qualified service technician.
- **Water and Electronics:** Never expose the internal components of the control panel to water. Ensure all connections are dry and secure.
- **Proper Use:** Use this control panel only for its intended purpose as a spa topside controller.

3. Installation

Follow these steps for proper installation of the Balboa TP600 Topside Control Panel.

1. **Disconnect Power:** Turn off all power to the spa at the main circuit breaker. Verify that the power is off before proceeding.
2. **Remove Old Panel (if applicable):** Carefully remove the existing topside control panel. Disconnect its cable from the spa pack.
3. **Prepare Mounting Surface:** Clean the area where the new control panel will be mounted. Ensure it is dry and free of debris. The TP600 typically uses an adhesive gasket for a watertight seal.
4. **Connect Cable:** Route the new TP600 control panel cable to the spa pack. Locate the designated receptacle

on the spa pack (usually labeled 'Topside' or 'Panel'). Align the connector keyway and firmly push the cable into the receptacle until it clicks securely. Do not force the connection.

5. **Mount Panel:** Peel the backing from the adhesive gasket on the back of the TP600 panel. Carefully align the panel with the cutout in the spa shell and press firmly to create a watertight seal.
6. **Restore Power:** Once the panel is securely mounted and the cable is connected, restore power to the spa at the circuit breaker.
7. **Test Functionality:** Power on the spa and test all functions of the new control panel to ensure proper operation.

Figure 3.1: Rear view of the Balboa TP600 control panel, showing the attached cable and the adhesive gasket for mounting.

Figure 3.2: The Balboa TP600 topside control panel, including the overlay with button labels and the attached communication cable.

4. Operating Instructions

The Balboa TP600 control panel features an LCD display and several buttons to manage your spa's functions. Refer to the image below for button layout.

Figure 4.1: Detailed view of the Balboa TP600 control panel overlay, highlighting the LCD screen and the function buttons.

4.1. Button Functions

- **JETS 1:** Press to turn the primary jet pump on or off. Multiple presses may cycle through different speeds (if applicable).
- **JETS 2:** Press to turn the secondary jet pump on or off. Multiple presses may cycle through different speeds (if applicable).
- **AUX:** Activates an auxiliary function, such as a blower or a third pump, depending on your spa's configuration.
- **WARM (Up Arrow):** Increases the set temperature of the spa.
- **COOL (Down Arrow):** Decreases the set temperature of the spa.
- **LIGHT:** Turns the spa lights on or off. Repeated presses may cycle through different light modes or colors (if applicable).

4.2. LCD Display

The LCD displays the current water temperature, set temperature, and various status indicators. Common indicators include:

- **Set Temperature:** The desired temperature for the spa water.
- **Current Temperature:** The actual temperature of the spa water.
- **Heater On:** An icon or text indicating the heater is active.
- **Jets On:** Icons indicating which jet pumps are running.
- **Filter Cycle:** An icon indicating the filtration cycle is active.
- **Economy/Sleep Mode:** Indicators for specific operating modes (if configured).

4.3. Adjusting Temperature

To adjust the desired water temperature, press the **WARM** (Up Arrow) or **COOL** (Down Arrow) buttons. The set

temperature will flash on the display. Continue pressing until the desired temperature is reached. The display will revert to showing the current water temperature after a few seconds.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your control panel.

- **Cleaning the Panel:** Wipe the control panel surface with a soft, damp cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the display or buttons.
- **Inspect Cable:** Periodically check the topside control panel cable for any signs of wear, damage, or loose connections. Ensure it remains securely plugged into the spa pack.
- **Avoid Direct Sunlight:** Prolonged exposure to direct sunlight can degrade the plastic and display over time.

6. Troubleshooting

If you encounter issues with your Balboa TP600 control panel, refer to the following common troubleshooting steps.

- **Display is Blank:**
  - Check if the main power to the spa is on.
  - Ensure the control panel cable is securely connected to the spa pack.
  - Try cycling the power to the spa at the circuit breaker.
- **Buttons Unresponsive:**
  - Perform a power cycle by turning off and on the spa's main power.
  - Check for any visible damage or debris around the buttons.
- **Incorrect Temperature Reading:**
  - Ensure the water level in the spa is adequate.
  - If an error code related to a sensor appears, consult your spa's main control system manual or a qualified technician.
- **Error Codes on Display:**
  - The TP600 display may show various error codes (e.g., 'FLO', 'DR', 'HL'). Refer to your spa's main control system manual for a complete list of error codes and their meanings.

If these steps do not resolve the issue, or if you are unsure about any repair, contact a qualified spa service technician.

7. Specifications

- **Model:** Balboa 50335KIT TP600
- **Type:** Topside Control Panel
- **Buttons:** Jets 1, Jets 2, Aux, Warm (Up), Light, Cool (Down)
- **Display:** LCD
- **Compatibility:** Designed for use with Balboa spa control systems.
- **Part Number:** 50335KIT

8. Warranty Information

This Balboa product is covered by a manufacturer's limited warranty. The specific terms and duration of the warranty may vary. Please retain your proof of purchase. For detailed warranty information, refer to the documentation provided with your spa or contact your authorized Balboa dealer.

9. Customer Support

For technical assistance, parts, or service inquiries, please contact your authorized Balboa dealer or the spa manufacturer. Provide your product model number (50335KIT TP600) and a detailed description of the issue when seeking support.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question