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Balboa TP400

Balboa TP400 Hot Tub Control Panel User Manual

Model: TP400

Introduction

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your Balboa TP400 Hot Tub Control Panel. The TP400 is designed to work seamlessly with Balboa BP series hot tub control systems, offering an intuitive interface for managing your hot tub's functions.

Key features include:

- Part of the Balboa BP Wifi Ready range.
- Equipped with a 4-pin black plastic connector for easy integration.
- Elegant LCD screen with mobile function indicator icons.
- Provides maintenance reminders and service alerts for optimal performance.
- Features water-resistant connectors for durability.

Product Overview



Figure 1: Balboa TP400 Hot Tub Control Panel. This image shows the front of the control panel, featuring an LCD display on the left and four circular buttons on the right labeled "Temp", "Jets", "Light", and "Aux". Below the "Temp" button, there is a "Heat" indicator. A grey cable with a 4-pin connector is visible underneath the panel.

The Balboa TP400 control panel measures approximately 210 mm x 63 mm. It features a clear LCD display and four primary control buttons:

- **Temp:** Adjusts the water temperature.
- **Jets:** Activates and controls the jet pumps.
- **Light:** Controls the hot tub lighting.
- **Aux:** Controls an auxiliary function, which may vary depending on your hot tub model.

Setup and Installation

The Balboa TP400 control panel is designed for compatibility with Balboa BP2100 and BP601 (WiFi Compatible) control boxes. Installation should ideally be performed by a qualified technician.

Installation Steps:

1. **Preparation:** Ensure the hot tub's power supply is disconnected before beginning any installation work.
2. **Remove Old Panel (if applicable):** Carefully detach the existing control panel, noting the wiring connections.
3. **Clean Surface:** Clean the mounting surface thoroughly to ensure proper adhesion for the new panel.
4. **Apply Sealant:** Apply a high-quality silicone sealant, such as Silcoset, around the perimeter of the opening to create a watertight seal. This is crucial for preventing water ingress.
5. **Connect Wiring:** Connect the 4-pin black plastic connector from the TP400 panel to the corresponding port on your Balboa BP series control system. Ensure the connection is secure.
6. **Mount Panel:** Carefully position the new TP400 panel into the opening, pressing firmly to ensure the sealant creates a tight seal.
7. **Secure Panel:** If applicable, secure the panel with any provided fasteners.

8. **Test:** Once installed, reconnect the hot tub's power supply and test all functions of the control panel.

Note: Due to the wide range of sealants available, we specifically recommend using Silcoset silicone sealant for its industry-leading performance in hot tub applications.

Operating Instructions

The Balboa TP400 control panel provides intuitive control over your hot tub's primary functions. The large, easy-to-read LCD display shows current status and settings.

Button Functions:

- **Temp Button:**

- Press once to display the set temperature.
- Press again to adjust the set temperature. Use the Temp button to cycle through available temperature settings.
- The "Heat" indicator light will illuminate when the heater is active.

- **Jets Button:**

- Press to turn the primary jet pump on/off or to cycle through different jet speeds/modes (if applicable).

- **Light Button:**

- Press to turn the hot tub lights on/off or to cycle through different light modes/colors (if applicable).

- **Aux Button:**

- This button controls an auxiliary function, which can vary by hot tub model. Common auxiliary functions include a secondary jet pump, air blower, or waterfall. Refer to your hot tub's main manual for specific details.

Display Indicators:

The LCD screen displays various icons and messages to indicate the hot tub's status:

- **Temperature Display:** Shows the current water temperature or the set temperature.
- **Heat Indicator:** A small icon (often a flame or thermometer) indicates when the heater is active.
- **Jet/Pump Indicators:** Icons representing pumps will illuminate when the corresponding pump is running.
- **Maintenance Reminders:** The panel will display alerts for routine maintenance, such as filter cleaning or water testing.
- **Service Alerts:** Critical system errors or warnings will be displayed to prompt user action or professional service.

Maintenance

Regular maintenance of your Balboa TP400 control panel and hot tub system will ensure longevity and optimal performance.

- **Cleaning the Panel:** Use a soft, damp cloth to wipe down the control panel. Avoid abrasive cleaners or solvents, as these can damage the display and buttons.

- **Checking Connections:** Periodically inspect the 4-pin connector and other wiring for any signs of wear, corrosion, or loose connections. Ensure the panel remains securely sealed to prevent water ingress.
- **Responding to Reminders:** Pay attention to maintenance reminders displayed on the LCD screen (e.g., "CLEAN FILTER"). Address these prompts promptly to maintain water quality and system efficiency.
- **Water Quality:** While not directly related to the panel, maintaining proper hot tub water chemistry is vital for the overall health of your system, including sensors and internal components connected to the control panel.

Troubleshooting

This section addresses common issues you might encounter with your Balboa TP400 control panel. For more complex problems, consult a qualified hot tub technician.

Problem	Possible Cause	Solution
Panel is unresponsive or blank.	No power to the hot tub; loose connection; internal panel fault.	Check hot tub's main power supply and circuit breaker. Ensure the 4-pin connector is securely plugged in. If issues persist, contact support.
Buttons do not respond.	Panel wet; internal button fault.	Ensure the panel surface is dry. If buttons are stuck or unresponsive, the panel may need replacement.
Display shows error code/service alert.	System malfunction; maintenance required.	Refer to your hot tub's main control system manual for specific error code definitions. Address maintenance reminders (e.g., clean filter).
Temperature not adjusting.	Heater issue; sensor fault; circulation problem.	Check water flow and filter cleanliness. Ensure the heater is receiving power. Consult a technician if the problem persists.

Specifications

- **Model:** Balboa TP400
- **Dimensions:** 210 mm (Length) x 63 mm (Width)
- **Material:** Plastic
- **Connector Type:** 4-pin black plastic connector
- **Display:** LCD with mobile function indicator icons
- **Compatibility:** Balboa BP Series Control Systems (e.g., BP2100, BP601)
- **Features:** Maintenance reminders, service alerts, water-resistant connectors

Warranty and Support

The Balboa TP400 control panel is sold by Pool and Spa Centre, an official reseller of Balboa products. For specific warranty information, please refer to the documentation provided at the time of purchase or contact Pool and Spa Centre directly.

For technical support, troubleshooting assistance beyond this manual, or to inquire about replacement parts, please contact your authorized Balboa dealer or the Pool and Spa Centre.

Note: Spare parts availability information is currently unavailable.

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This manual is for informational purposes only. Specifications are subject to change without notice.