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> Unifit Digital Thermostat Control Board User Manual for Pit Boss 2 Series Electric Vertical Smokers

Unifit PBV2D1

Unifit Digital Thermostat Control Board User Manual

FOR PIT BOSS 2 SERIES ELECTRIC VERTICAL SMOKERS (MODEL PBV2D1)

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Unifit Digital Thermostat Control Board. This control board is designed as a replacement part specifically for Pit Boss 2 Series Digital Electric Vertical Smokers, including models like the PBV2D1. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1: Unifit Digital Thermostat Control Board, showing the display, buttons, and wiring.

Compatible with Pit Boss 2 Series Digital Electric Vertical Smokers



Figure 2: Illustration of the control board's compatibility and placement within a Pit Boss 2 Series Digital Electric Vertical Smoker.

2. SAFETY INFORMATION

Always observe the following safety precautions when installing or operating the control board:

- **Disconnect Power:** Ensure the smoker is completely unplugged from the power source before attempting any installation, maintenance, or repair.
- **Qualified Personnel:** Installation should be performed by individuals familiar with electrical components and smoker assembly.
- **Proper Tools:** Use appropriate tools for installation to prevent damage to the control board or smoker.
- **Environmental Conditions:** Do not expose the control board to excessive moisture or extreme temperatures outside of normal operating conditions.
- **Original Smoker Manual:** Refer to your original Pit Boss smoker manual for additional safety guidelines specific to your appliance.

3. PACKAGE CONTENTS

Your package should contain the following item:

- 1x Unifit Digital Thermostat Control Board

Note: Meat probes are not included with this control board and must be purchased separately if needed.

4. PRODUCT FEATURES

The Unifit Digital Thermostat Control Board offers the following features:

- **Bright LED Display:** Provides clear visibility of settings and temperatures, even in direct sunlight.
- **Durable Construction:** Designed for high-temperature resistance and extended service life.
- **Temperature Monitoring:** Displays internal smoker temperatures and supports two wired meat probes (probes not included).
- **Four Cooking Modes:** Select from smoking, basing, braising, and roasting modes.
- **Temperature Range:** Adjustable temperature settings from 100°F to 400°F.
- **Digital Control:** Push-button interface for precise temperature and time adjustments.

5. INSTALLATION INSTRUCTIONS

This section outlines the general steps for replacing the control board. Always refer to your specific Pit Boss smoker's service manual for detailed disassembly and reassembly procedures.

1. **Power Disconnection:** Ensure the Pit Boss smoker is unplugged from the electrical outlet.
2. **Access Old Control Board:** Locate and carefully remove the existing control board from your smoker. This typically involves unscrewing fasteners and disconnecting wiring harnesses.
3. **Disconnect Wiring:** Systematically disconnect all wires from the old control board. It is recommended to take photos or label wires to ensure correct re-connection.
4. **Connect New Control Board:** Connect the wiring harnesses from the smoker to the new Unifit Digital Thermostat Control Board. Ensure all connections are secure and match the original configuration.
5. **Secure New Control Board:** Mount the new control board into the smoker's designated slot and secure it with the appropriate fasteners.
6. **Final Check:** Double-check all connections and ensure no wires are pinched or exposed.
7. **Power On:** Plug the smoker back into a grounded electrical outlet.

Digital Controls Vertical Electric Smokers

ELECTRIC REQUIREMENTS

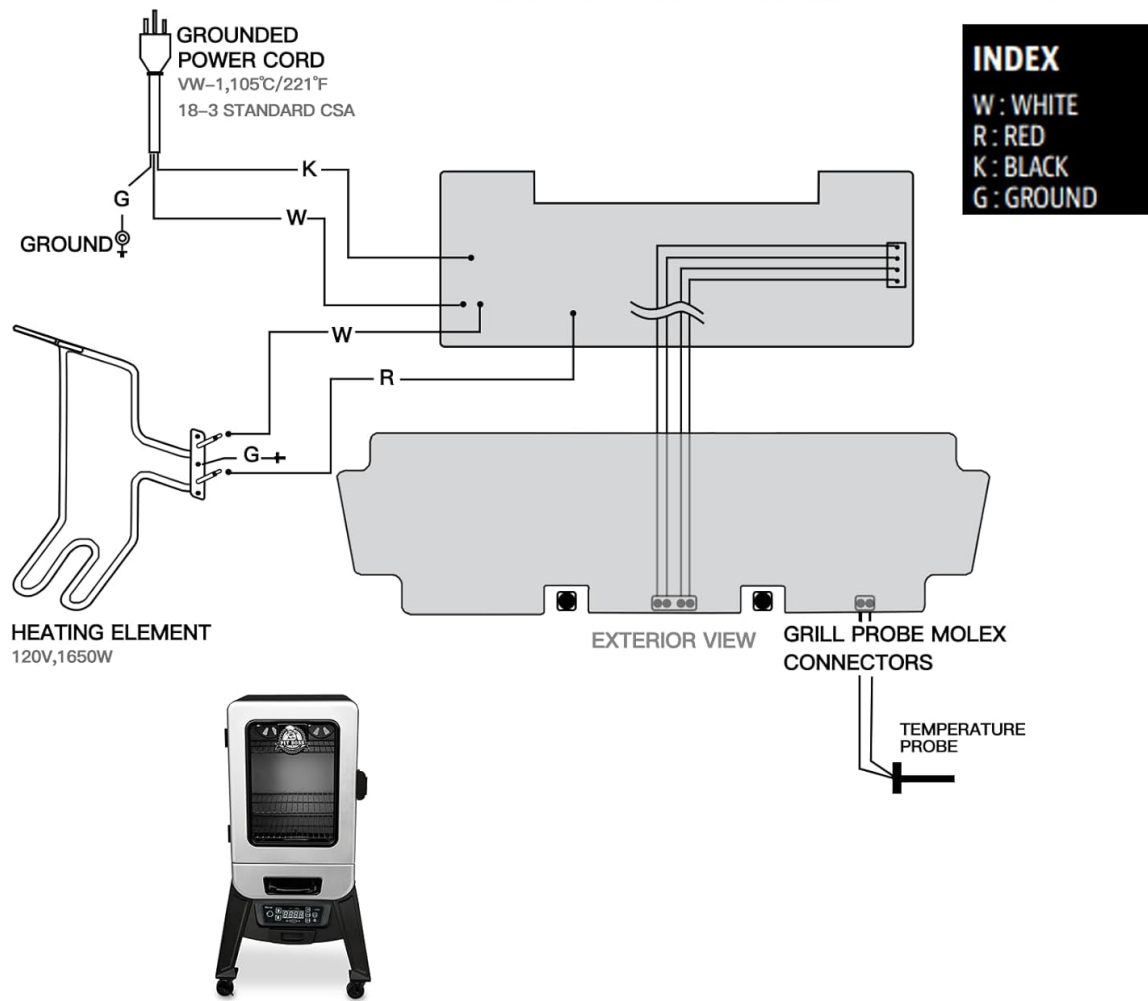


Figure 3: Electrical wiring diagram for digital controls in vertical electric smokers, showing connections for the grounded power cord, heating element, and grill probe molex connectors.



Figure 4: Close-up view of the Unifit control panel installed in a smoker, displaying temperature and probe readings.

6. OPERATING INSTRUCTIONS

Familiarize yourself with the control panel buttons and their functions:



Power Button

Press the TEMP Button on the Control Board to make adjustments to the cooking temperature



Element Light Indicator DESCRIPTION



TIME Button

Press the TIME Button on the Control Board to make adjustments to the cooking time



Adjustment Arrows

allow you to increase or decrease the TIME and TEMP on the Controller

Figure 5: Diagram illustrating the functions of the control panel buttons, including Power, Temp, Time, Set/Act, Smoke, and Adjustment Arrows.

- **Power Button:** Press to turn the smoker on or off.
- **Temp Button:** Press to adjust the desired cooking temperature. Use the **Up** and **Down** arrows to change the value.
- **Time Button:** Press to set the cooking timer. Use the **Up** and **Down** arrows to change the value.
- **Set/Act Button:** After setting temperature or time, press this button immediately to confirm and activate the setting.
- **Smoke Button:** Activates the smoking mode.
- **F/C Button:** Press to switch the temperature display between Fahrenheit (°F) and Celsius (°C). The default setting is Fahrenheit.
- **Element Light Indicator:** Illuminates when the heating element is active.

Setting Temperature and Time:

1. Press the **Temp** button.
2. Use the **Up** or **Down** arrows to select your desired temperature (100°F – 400°F).
3. Immediately press the **Set/Act** button to confirm the temperature.
4. To set a timer, press the **Time** button.

5. Use the **Up** or **Down** arrows to set the desired cooking duration.
6. Immediately press the **Set/Act** button to confirm the timer.

*Important Note: The window of time to press the **Set/Act** button after adjusting temperature or time is brief. Ensure you press it promptly to save your settings.*

7. MAINTENANCE

To ensure the longevity and proper function of your control board:

- **Cleaning:** Wipe the control panel surface clean with a soft, damp cloth. Do not use abrasive cleaners or immerse the unit in water.
- **Inspection:** Periodically inspect the wiring connections for any signs of wear or damage.
- **Storage:** If the smoker is stored for an extended period, ensure the control board is clean and dry.

8. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Display is blank or dim.	No power, loose connection, or display issue.	<ul style="list-style-type: none"> ◦ Ensure smoker is plugged into a working outlet. ◦ Check all wiring connections to the control board. ◦ If the issue persists, contact support.
Temperature or time settings do not save.	"Set/Act" button not pressed promptly.	<ul style="list-style-type: none"> ◦ After adjusting temperature or time, immediately press the Set/Act button to confirm.
Smoker not heating.	Heating element issue, wiring problem, or incorrect temperature setting.	<ul style="list-style-type: none"> ◦ Verify the temperature is set above the current internal temperature. ◦ Check the element light indicator. If it's off, check wiring to the heating element. ◦ Consult your original smoker manual for heating element troubleshooting.

9. SPECIFICATIONS

Pit boss Electric Smoker Controller Size



Figure 6: Detailed dimensions of the Unifit Digital Thermostat Control Board, showing length, width, and height measurements.

Feature	Detail
Brand	Unifit
Model Compatibility	Pit Boss 2 Series Digital Electric Vertical Smokers (e.g., PBV2D1)
Temperature Range	100°F – 400°F
Display Type	Digital LED
Connectivity Technology	Wired
Outer Material	Plastic
Included Components	1x Controller
Product Care	Wipe Clean
Dimensions (Approx.)	10.94 x 6.1 x 3.74 inches (Package)

10. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Unifit Digital Thermostat Control Board, please refer to the documentation provided with your purchase or contact the manufacturer directly. Keep your purchase receipt for warranty claims.