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> Cadet BTF2W Double Pole Baseboard Heater Thermostat User Manual

Cadet BTF2W

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Model: BTF2W | Brand: Cadet

INTRODUCTION

This manual provides essential information for the safe and effective use of your Cadet BTF2W Double Pole Baseboard Heater Thermostat. This thermostat is designed for precise temperature control of Cadet Electric Baseboard Heaters.

Key features include:

- **Multi-Volt Compatibility:** Controls power output with 240/208/120 volt capabilities.
- **High Amperage:** Rated for 22 amps.
- **Temperature Range:** Adjustable from 40°F to 85°F (4.4°C to 29.4°C).
- **Easy Installation:** Designed for simple installation on either end of the baseboard heater.
- **Positive Off Position:** Ensures the heater is completely off when the knob is set to the 'OFF' position, enhancing safety.



Image: A Cadet baseboard heater with the BTFT2W thermostat installed on its end, positioned along a wall in a room.

IMPORTANT SAFETY INFORMATION

WARNING: Risk of Electric Shock. Disconnect power at the main service panel before installing or servicing this thermostat. Installation should be performed by a qualified electrician in accordance with all local and national electrical codes.

- Always turn off power at the circuit breaker before beginning any electrical work.
- Ensure all wiring connections are secure and properly insulated.
- Do not operate the thermostat if it appears damaged.
- This thermostat is designed for use exclusively with Cadet Electric Baseboard Heaters.

INSTALLATION INSTRUCTIONS

1. **Power Disconnection:** Before starting, ensure the power supply to the baseboard heater circuit is completely

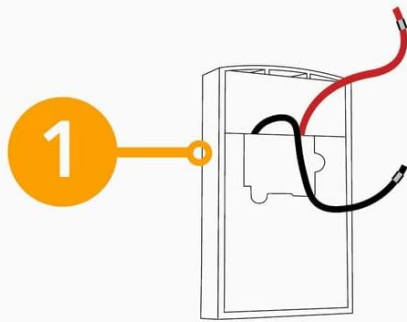
disconnected at the main electrical panel. Verify with a voltage tester.

2. **Access Heater End Compartment:** Remove the cover plate from the end compartment of your Cadet baseboard heater where the thermostat will be installed.
3. **Mounting the Thermostat:** The BTF2W thermostat is designed to fit directly into the heater's end compartment. Secure it using the provided screws or existing mounting points.
4. **Wiring Connections:**
 - The BTF2W is a double-pole thermostat, meaning it disconnects both incoming hot wires (L1 and L2 for 240V/208V, or L1 and Neutral for 120V if applicable, though typically 240V/208V for double pole).
 - Connect the thermostat wires according to the wiring diagram provided with your baseboard heater and the thermostat. Typically, two wires from the thermostat connect to the incoming power supply wires, and the other two thermostat wires connect to the heater element wires.
 - Ensure all connections are tight and secure using appropriate wire connectors.



Image: Rear view of the BTF2W thermostat showing the internal wiring terminals and connected wires (red and black) before installation into the heater.

SINGLE POLE



2-WIRE THERMOSTAT

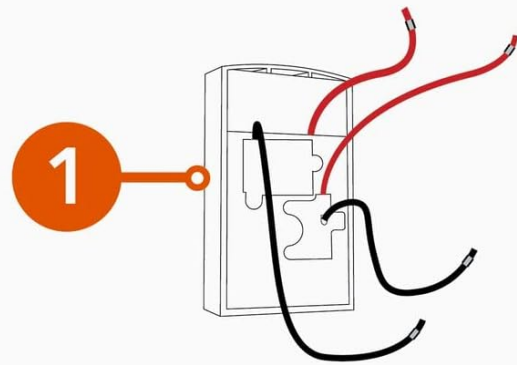


LOWEST SETTING = LO

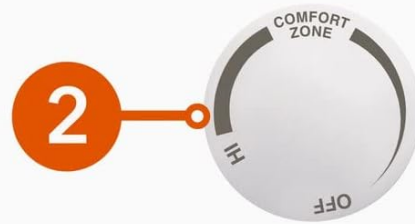


SINGLE POLE BREAKER 120V

DOUBLE POLE



4-WIRE THERMOSTAT



LOWEST SETTING = OFF



DOUBLE POLE BREAKER 240V

Image: A comparative diagram illustrating the wiring for single-pole (2-wire, 120V) and double-pole (4-wire, 240V) thermostats, showing connections to the breaker and heater element.

5. **Replace Cover:** Once wiring is complete and verified, carefully replace the heater's end compartment cover.
6. **Restore Power:** Turn the power back on at the main electrical panel.

OPERATING INSTRUCTIONS

The Cadet BTF2W thermostat features a simple mechanical knob for temperature control.



Image: Close-up view of the white control knob on the BTF2W thermostat, showing 'OFF', 'HI', and 'COMFORT ZONE' markings.

- **Turning On/Off:** Rotate the knob to the 'OFF' position to completely shut off power to the heater. Rotate it clockwise past 'OFF' to activate the heater.
- **Setting Temperature:**
 - Rotate the knob clockwise to increase the desired temperature.
 - Rotate the knob counter-clockwise to decrease the desired temperature.
 - The "COMFORT ZONE" marking indicates a typical comfortable room temperature range.
 - The 'HI' setting provides continuous heat output.
- **Initial Setup:** When first turning on the heater, set the thermostat to a high setting until the room reaches a comfortable temperature. Then, slowly turn the knob counter-clockwise until the heater turns off. This sets the thermostat to maintain your desired temperature.

The Cadet BTF2W thermostat requires minimal maintenance.

- **Cleaning:** Periodically wipe the thermostat knob and surrounding area with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure power is off before cleaning.
- **Inspection:** Annually, or if you notice any unusual operation, inspect the thermostat for signs of damage or loose connections. Always disconnect power before inspection.
- **No User Serviceable Parts:** There are no user-serviceable parts inside the thermostat. If the unit malfunctions, contact a qualified electrician or Cadet customer support.

TROUBLESHOOTING

If your Cadet BTF2W thermostat or baseboard heater is not functioning as expected, consider the following common issues:

| Problem | Possible Cause | Solution |
|---------------------------------|---|---|
| Heater does not turn on. | <ul style="list-style-type: none">• No power to the heater.• Thermostat set to 'OFF' or too low.• Loose wiring connection.• Faulty thermostat or heater element. | <ul style="list-style-type: none">• Check circuit breaker.• Adjust thermostat setting higher.• WARNING: Disconnect power before checking wiring. Tighten connections.• Contact a qualified electrician. |
| Heater runs continuously. | <ul style="list-style-type: none">• Thermostat set to 'HI' or too high.• Thermostat malfunction. | <ul style="list-style-type: none">• Adjust thermostat to a lower setting.• Contact a qualified electrician. |
| Inaccurate temperature control. | <ul style="list-style-type: none">• Thermostat sensor obstructed.• Thermostat malfunction. | <ul style="list-style-type: none">• Ensure no objects are blocking the thermostat's air vents.• Contact a qualified electrician. |

If problems persist after attempting these solutions, contact a qualified electrician or Cadet customer support.

SPECIFICATIONS

| | |
|------------------------------|--------------------------------|
| Model Number | BTF2W |
| Brand | Cadet |
| Controller Type | Mechanical knob |
| Temperature Range | 40°F to 85°F (4.4°C to 29.4°C) |
| Voltage Compatibility | 120V, 208V, 240V |
| Amperage | 22 Amps |
| Control Type | Dial Control |

| | |
|-------------------------------|----------------------|
| Mounting Type | Baseboard (Built-in) |
| Color | White |
| Material | Plastic |
| Item Weight | 6.4 ounces |
| Dimensions (D x W x H) | 30"D x 8"W x 6"H |

Note: The provided dimensions (30"D x 8"W x 6"H) typically refer to the baseboard heater unit itself, into which this thermostat is installed. The thermostat unit is designed to fit within the heater's end compartment.

WARRANTY INFORMATION

The Cadet BTF2W Double Pole Baseboard Heater Thermostat comes with a **1-year limited warranty** from the date of purchase.

This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, misuse, abuse, accident, or unauthorized repairs. For full warranty terms and conditions, please refer to the documentation included with your product or visit the official Cadet website.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Cadet customer support.

- **Website:** Visit the official Cadet website for FAQs, product registration, and contact information.
- **Phone:** Refer to your product packaging or the Cadet website for customer service phone numbers.

When contacting support, please have your product model number (BTF2W) and date of purchase available.