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- > [Cadet](#) /
- > [Cadet BTF1W Single Pole Built-In Thermostat Kit User Manual](#)

Cadet BTF1W

Cadet BTF1W Single Pole Built-In Thermostat Kit User Manual

For Cadet Electric Baseboard Heaters (Model: BTF1W, Part: 08732)

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Cadet BTF1W Single Pole Built-In Thermostat Kit. This thermostat is designed to integrate seamlessly with Cadet F-series electric baseboard heaters, offering precise temperature control for your living space. Please read all instructions carefully before installation and use.

SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation must be performed by a qualified electrician in accordance with all local and national electrical codes. Always disconnect power at the main service panel before installing or servicing this thermostat.

Proposition 65 Warning: This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

- Ensure the power supply is completely off before beginning any work.
- Verify voltage and amperage compatibility with your baseboard heater. This thermostat is rated for 22 Amp, 240/208/120 Volt systems.
- Do not operate the heater without the thermostat cover properly installed.

PACKAGE CONTENTS

- Cadet BTF1W Single Pole Built-In Thermostat Kit
- Mounting hardware (screws)

SPECIFICATIONS

Feature	Specification
Model Name	BTF1W (Part 08732)

Voltage	240/208/120 Volts (AC)
Amperage	22 Amp
Temperature Range	45°F - 80°F (7°C to 27°C)
Controller Type	Manual Dial Control
Pole Type	Single Pole (2-wire)
Color	White
Material	Plastic
Product Dimensions	1"D x 7"W x 7.6"H
Item Weight	6.2 ounces (177 Grams)

COMPATIBILITY

This Cadet BTF1W Single Pole Built-In Thermostat Kit is designed exclusively for use with Cadet F-series electric baseboard heaters (sold separately). It is not compatible with other heater models or brands.

INSTALLATION

The thermostat is designed for easy installation directly onto either end of your compatible Cadet baseboard heater, eliminating the need for additional wiring or wall-mounted controls.

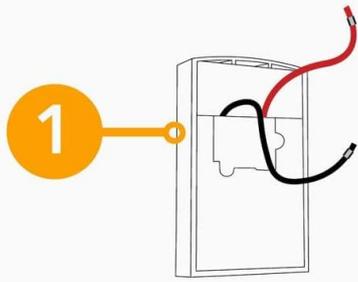
Before You Begin

- **IMPORTANT:** Turn off all power to the baseboard heater circuit at the main electrical panel before proceeding.
- Ensure you have the necessary tools: screwdriver, wire strippers, and electrical tape.

Installation Steps

1. **Prepare the Heater:** Remove the end cap from the desired side of your Cadet F-series baseboard heater where the thermostat will be installed.
2. **Connect Wiring:** The thermostat features two wires (typically black and red). Connect these wires to the corresponding heater wires. For single pole (2-wire) installation, follow the wiring diagram provided. Ensure all connections are secure and insulated with electrical tape or wire nuts.

SINGLE POLE



2-WIRE THERMOSTAT

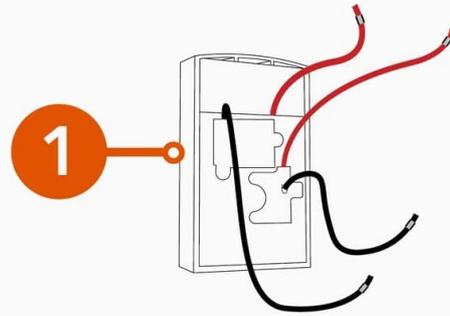


LOWEST SETTING = LO



SINGLE POLE BREAKER 120V

DOUBLE POLE



4-WIRE THERMOSTAT



LOWEST SETTING = OFF



DOUBLE POLE BREAKER 240V

Image: Detailed wiring diagram illustrating connections for both single pole (2-wire) and double pole (4-wire) thermostats, along with their respective circuit breaker types (120V single pole, 240V double pole).

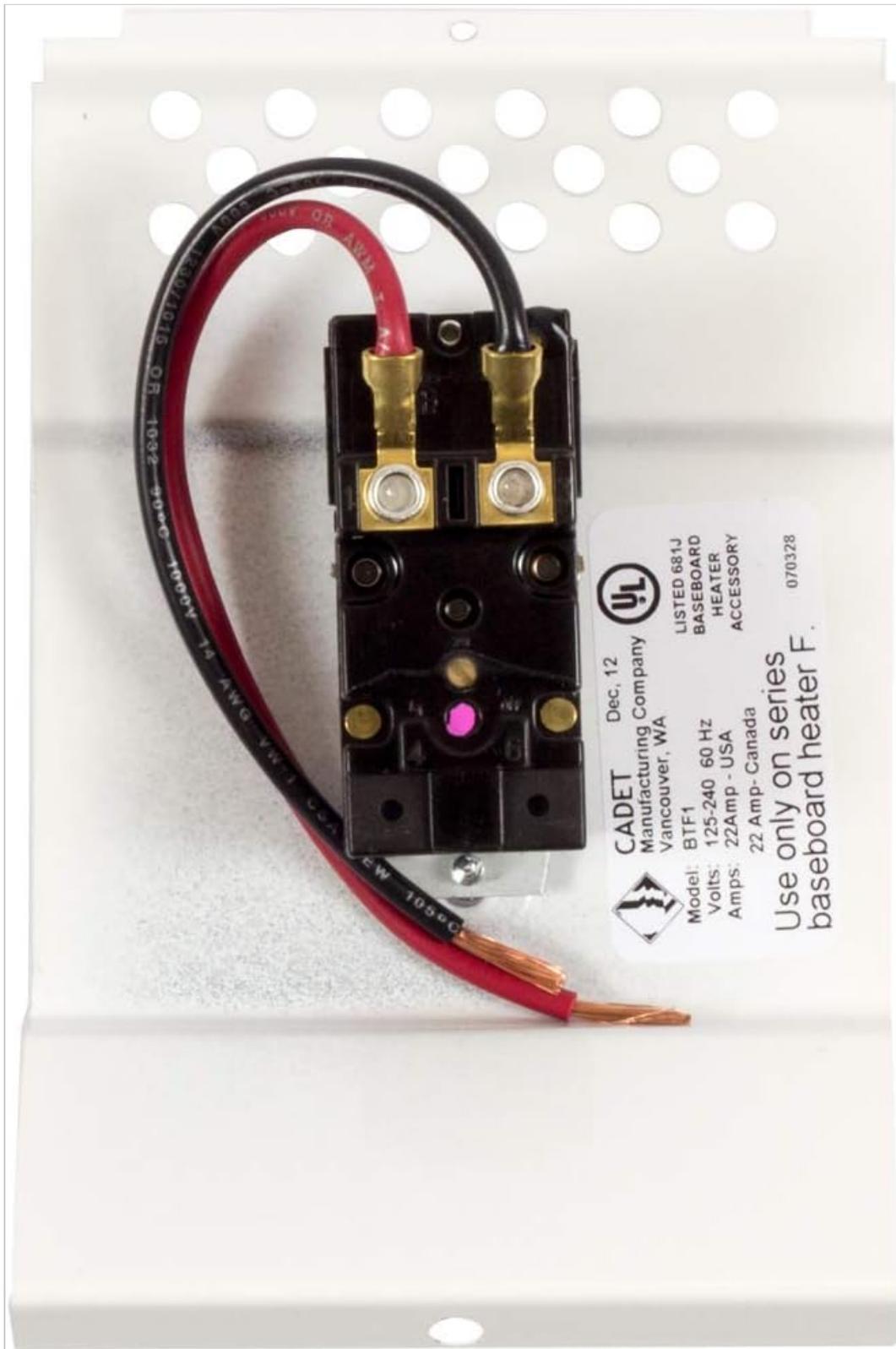


Image: Close-up view of the thermostat's internal components, highlighting the black and red wires connected to the terminals, ready for installation into the baseboard heater.

- 3. Mount the Thermostat:** Slide the thermostat assembly into the end of the baseboard heater, aligning the mounting holes. Secure it with the provided screws.

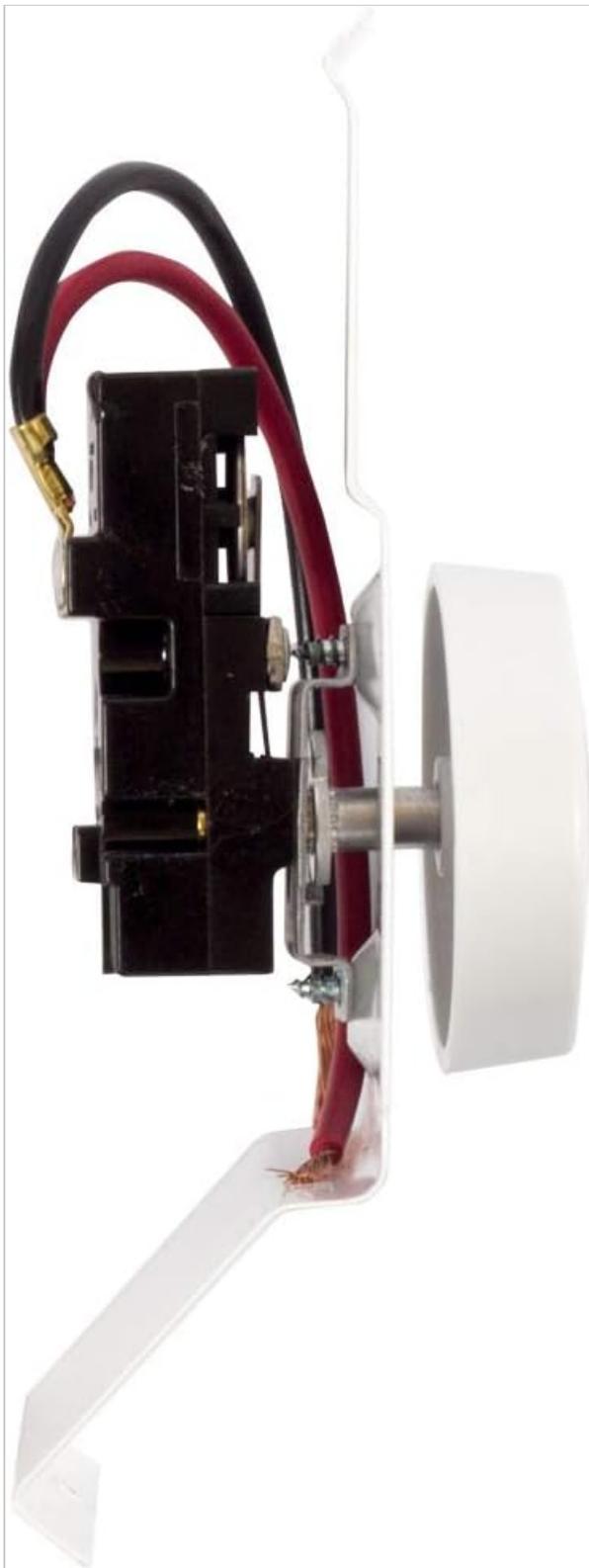


Image: Side profile of the Cadet thermostat, illustrating its compact form factor and how it fits into the end section of a baseboard heater.

4. **Restore Power:** Once the thermostat is securely mounted and all wiring is checked, restore power to the circuit at the main electrical panel.
5. **Verify Operation:** Turn the thermostat dial to a desired setting and confirm that the baseboard heater begins to operate.



Image: The Cadet single pole built-in thermostat seamlessly integrated into the end of a white electric baseboard heater, with its control dial visible for temperature adjustment.



Image: A white Cadet baseboard heater, featuring the integrated thermostat on its left end, positioned neatly against a light gray wall above a wooden floor, demonstrating its discreet installation.

Product Overview Video

Your browser does not support the video tag.

Video: This official product overview video provides a visual guide to the Cadet Single Pole Built-In Thermostat Kit, demonstrating its features and how it integrates with a baseboard heater.

OPERATION

The Cadet BTF1W thermostat features a simple twist dial for temperature control.

- **OFF:** Turn the dial fully counter-clockwise to the 'OFF' position to completely shut off the heater.
- **LO (Low):** The lowest setting on the dial, providing minimal heat output.
- **Comfort Zone:** The recommended range for comfortable heating, typically between 68°F and 72°F (20°C to 22°C).
- **HI (High):** The highest setting, providing maximum heat output.

Adjust the dial clockwise to increase the temperature and counter-clockwise to decrease it. The thermostat will automatically cycle the heater on and off to maintain the set temperature.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your thermostat and heater.

- **Cleaning:** Periodically wipe the exterior of the thermostat with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure power is off before cleaning.
- **Inspection:** Annually inspect the wiring connections for any signs of wear, corrosion, or loose connections. Ensure the thermostat is securely mounted. Always disconnect power before inspection.
- Do not attempt to lubricate any part of the thermostat.

TROUBLESHOOTING

If you experience issues with your Cadet BTF1W thermostat, refer to the following common problems and solutions:

- **Heater not turning on:**
 - Check if the thermostat dial is set to 'OFF'. Turn it to a higher setting.
 - Verify that the circuit breaker for the heater is not tripped. Reset if necessary.
 - Ensure all electrical connections are secure. (**WARNING:** Disconnect power before checking connections).
- **Heater runs continuously or does not reach desired temperature:**
 - Ensure the thermostat is not obstructed by furniture or curtains, which can affect temperature sensing.
 - Check for drafts near the thermostat that might cause it to misread the room temperature.
 - If the issue persists, the thermostat may require professional inspection or replacement.
- **Thermostat feels warm:**
 - It is normal for the thermostat to feel slightly warm during operation, especially when the heater is running at high settings. If it feels excessively hot or emits a burning smell, immediately disconnect power and contact a qualified electrician.

WARRANTY & SUPPORT

This product comes with a manufacturer's warranty. For specific warranty details and duration, please refer to the documentation included with your purchase or visit the official Cadet website.

For technical support, replacement parts, or further assistance, please contact Cadet customer service or visit the [Cadet Store on Amazon](#).