

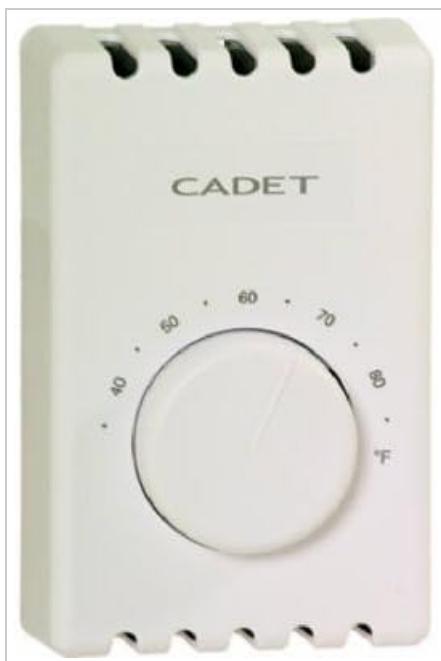
## Cadet 08301

# Cadet Heating Dial Double Pole Line Voltage Thermostat Model 08301 User Manual

Model: 08301 | Brand: Cadet

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Cadet Heating Dial Double Pole Line Voltage Thermostat, Model 08301. This thermostat is designed to control 120/208/240V electric heaters, offering reliable temperature regulation for your space. Please read this manual thoroughly before installation and use to ensure safe and efficient operation.



**Figure 1:** Cadet Heating Dial Double Pole Line Voltage Thermostat. This image displays the front view of the white thermostat with a central rotary dial for temperature adjustment. The dial is marked with temperature values in Fahrenheit, ranging from 40 to 80 degrees. The brand name "CADET" is visible at the top, and ventilation slots are present along the top and bottom edges of the unit.

## 2. SAFETY INFORMATION

**WARNING:** Risk of electric shock. Installation must be performed by a qualified electrician in accordance with all

local and national electrical codes. Failure to follow these instructions may result in electric shock, fire, or property damage.

- Always disconnect power at the main service panel before installing or servicing this thermostat.
- Ensure all wiring connections are secure and properly insulated.
- Do not use this thermostat with heating systems that exceed its specified voltage and amperage ratings (120/208/240V, 22A).
- Keep the thermostat dry and away from water sources.
- Do not attempt to repair or modify the thermostat. Contact qualified personnel for service.

### 3. SETUP AND INSTALLATION

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The Cadet 08301 thermostat is designed for wall-mount installation and is suitable for both new construction and replacement applications. It fits a standard outlet box.

#### 3.1 Pre-Installation Checklist

- Verify that the thermostat's voltage and amperage ratings match your heating system requirements.
- Ensure power to the heating circuit is OFF at the main breaker.
- Gather necessary tools: screwdriver, wire strippers, electrical tape.

#### 3.2 Mounting Instructions

1. Carefully remove the thermostat cover.
2. Mount the thermostat base to a standard electrical outlet box using the provided screws. Ensure it is level.
3. Avoid mounting the thermostat near heat sources (e.g., direct sunlight, lamps, appliances) or drafts (e.g., windows, doors) to ensure accurate temperature readings.

#### 3.3 Wiring Instructions

This is a double-pole, 4-wire thermostat. The thermostat features color-coded wires for easy installation.

1. Connect the two incoming line wires (from the circuit breaker) to the two thermostat wires marked "LINE".
2. Connect the two outgoing load wires (to the heater) to the two thermostat wires marked "LOAD".
3. Ensure all wire nuts are tight and connections are secure.
4. Carefully push the wires back into the electrical box and reattach the thermostat cover.
5. Restore power at the main service panel.

### 4. OPERATING INSTRUCTIONS

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The Cadet 08301 thermostat features a simple manual dial for temperature control.

1. **Setting Temperature:** Rotate the central dial clockwise to increase the desired temperature or counter-clockwise to decrease it. The temperature range is from 50°F to 90°F.
2. **OFF Setting:** To turn off the heating system, rotate the dial completely counter-clockwise past the lowest temperature setting until it clicks into the "OFF" position. This disconnects power to the heater.
3. **Temperature Sensing:** The bimetal sensor with a snap-action switch will activate or deactivate the heater to maintain the set temperature.

### 5. MAINTENANCE

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The Cadet 08301 thermostat requires minimal maintenance to ensure optimal performance.

- **Cleaning:** Periodically wipe the exterior of the thermostat with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the thermostat housing.
- **Airflow:** Ensure that the ventilation slots at the top and bottom of the thermostat are not obstructed by dust or debris. Blocked slots can affect temperature sensing accuracy.
- **Inspection:** Annually inspect the thermostat for any visible damage or loose connections. If any issues are found, disconnect power and consult a qualified electrician.

## 6. TROUBLESHOOTING

If you experience issues with your thermostat, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Heater does not turn on.	<ul style="list-style-type: none"><li>◦ Thermostat set to "OFF" position.</li><li>◦ Circuit breaker tripped.</li><li>◦ Loose wiring connection.</li><li>◦ Thermostat setting below room temperature.</li></ul>	<ul style="list-style-type: none"><li>◦ Rotate dial to a desired temperature setting.</li><li>◦ Check and reset the circuit breaker.</li><li>◦ Verify all wiring connections (power off first).</li><li>◦ Increase the temperature setting.</li></ul>
Heater runs continuously.	<ul style="list-style-type: none"><li>◦ Thermostat setting too high.</li><li>◦ Thermostat sensor obstructed or faulty.</li></ul>	<ul style="list-style-type: none"><li>◦ Decrease the temperature setting.</li><li>◦ Ensure ventilation slots are clear. If problem persists, consult a qualified electrician.</li></ul>
Inaccurate temperature reading.	<ul style="list-style-type: none"><li>◦ Thermostat located near heat source or draft.</li><li>◦ Ventilation slots blocked.</li></ul>	<ul style="list-style-type: none"><li>◦ Relocate thermostat if possible, or adjust for environmental factors.</li><li>◦ Clean ventilation slots.</li></ul>

If troubleshooting steps do not resolve the issue, contact a qualified electrician or Cadet customer support.

## 7. SPECIFICATIONS

- **Model:** 08301 (T522-W)
- **Type:** Double Pole, 4-Wire
- **Voltage:** 120/208/240 Volts
- **Amperage Rating:** 22 Amps
- **Control Type:** Manual Dial, Push Button (OFF setting)
- **Temperature Range:** 50°F to 90°F
- **Sensor Type:** Bimetal with Snap Action Switch
- **Mounting:** Wall Mount, fits standard outlet box
- **Color:** White
- **Dimensions:** Approximately 3.8 x 3.3 x 1.9 inches
- **Item Weight:** 3.78 Pounds
- **Included Components:** Temperature Sensor



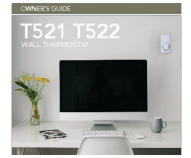

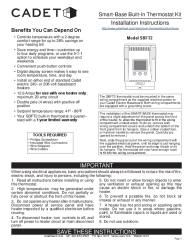
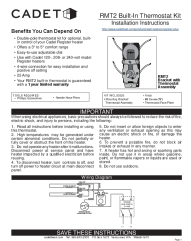
## 8. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or service, please refer to the documentation included with your purchase or visit the official Cadet Manufacturing website. Keep your proof of purchase for

warranty claims.

**Manufacturer:** CADET MANUFACTURING CO

## Related Documents - 08301

	<p><a href="#">Cadet TEP Series Programmable Electronic Line Voltage Thermostat User Guide and Installation</a></p> <p>This user guide provides comprehensive instructions for installing, operating, and programming the Cadet TEP Series programmable electronic line voltage thermostats (models TEP302DW, TEP362DW, TEP402DW). Includes technical specifications, setup, functions, programming, and warranty information.</p>
	<p><a href="#">Cadet TEP Series Programmable Electronic Line Voltage Thermostat User's Guide</a></p> <p>Comprehensive user's guide for Cadet TEP Series programmable electronic line voltage thermostats (TEP302DW, TEP362DW, TEP402DW). Learn about installation, wiring, setup, programming, functions, and technical specifications for efficient home heating control.</p>
	<p><a href="#">Cadet T521 T522 Wall Thermostat Owner's Guide &amp; Installation Instructions</a></p> <p>Comprehensive owner's guide and installation instructions for the Cadet T521 and T522 wall thermostats. Covers electrical ratings, required tools, wiring diagrams for single and double pole configurations, operating instructions, and warranty information.</p>
	<p><a href="#">Cadet SoftHEAT EBKN Built-in Thermostat Kit: Owner's Guide, Installation &amp; Operation</a></p> <p>Comprehensive guide for the Cadet SoftHEAT EBKN Built-in Thermostat Kit. Includes important safety instructions, installation steps, wiring diagrams, operating procedures, and warranty information. Learn how to install and use your Cadet thermostat for efficient home heating.</p>
	<p><a href="#">Cadet Smart-Base Built-In Thermostat Kit Installation Instructions</a></p> <p>Comprehensive installation guide for the Cadet Smart-Base Built-In Thermostat Kit (Model SBFT2). Covers product benefits, required tools, essential safety precautions, detailed step-by-step wiring instructions for left and right compartments, completion steps, thermostat operation, and warranty information.</p>
	<p><a href="#">Cadet RMT2 Built-In Thermostat Kit Installation Guide</a></p> <p>Detailed installation instructions and warranty information for the Cadet RMT2 Built-In Thermostat Kit, designed for Cadet Register heaters. Learn how to safely install and operate your thermostat.</p>

