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Carrier TSTATCCBAC01-B

Carrier TSTATCCBAC01-B Thermostat User Manual

Model: TSTATCCBAC01-B (062 Variant)

Brand: Carrier

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Carrier TSTATCCBAC01-B Thermostat, specifically the 062 variant. This non-programmable wall control is designed for conventional heat/cool systems and includes a remote temperature sensor assembly, which is crucial for specific system configurations or installations requiring remote sensing. It is important to note that this 062 variant is distinct from the heat pump model (BHP01-B) and the 063 variant, as it is intended solely for heat/cool systems and features the integrated remote sensor.

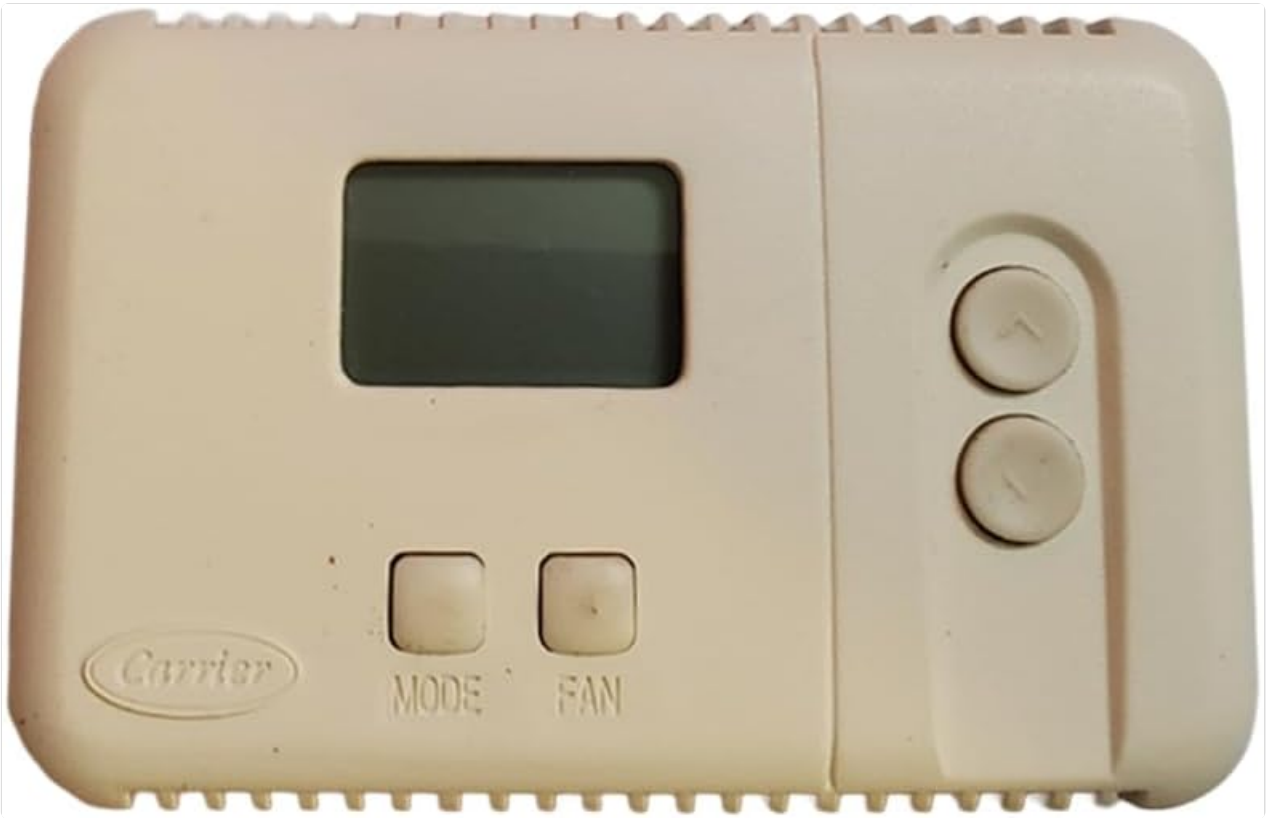


Figure 1: Carrier TSTATCCBAC01-B Thermostat Front View

Safety Information

Please read all instructions carefully before installing or operating this thermostat. Failure to follow these instructions could

result in property damage, personal injury, or death. All wiring must conform to local and national electrical codes.

- Disconnect power to the heating and cooling system before installation to prevent electrical shock.
- This thermostat is designed for 24 VAC systems only. Do not use on line voltage systems (120/240 VAC).
- Ensure all wiring connections are secure and properly insulated.
- Do not short out terminals on the gas valve or at the system control to test the thermostat. This will damage the thermostat and void the warranty.

Package Contents

Verify that all components are present before beginning installation:

- Carrier TSTATCCBAC01-B Thermostat (062 Variant)
- Installation Manual (this document)
- Mounting Screws
- External Remote Temperature Sensor (pre-wired)



Figure 2: Package Contents - Thermostat, Remote Sensor, and Mounting Hardware



Figure 3: Thermostat and Accessories with Packaging

Setup and Installation

1. Pre-Installation Checks

- Ensure the power to your HVAC system is turned off at the circuit breaker.
- Confirm your system is a conventional heat/cool system (not a heat pump). This 062 variant is specifically designed for conventional systems.
- Identify and label existing thermostat wires before disconnecting them.

2. Mounting the Thermostat Base

The thermostat consists of two parts: the wall plate (base) and the thermostat body. The wall plate mounts directly to the wall.

1. Gently pull the thermostat body away from the wall plate.
2. Position the wall plate against the wall where the new thermostat will be installed. Use the provided mounting screws to secure the wall plate. Ensure it is level for aesthetic purposes.



Figure 4: Thermostat Mounting Base with Remote Sensor

3. Wiring Connections

Connect the labeled wires from your HVAC system to the corresponding terminals on the thermostat wall plate. Refer to your existing thermostat's wiring or your HVAC system's manual for specific wire functions if unsure. The 062 variant includes a pre-wired remote temperature sensor. Ensure this sensor is properly positioned for accurate temperature readings, typically away from direct drafts or heat sources.

Common Wiring Terminals

Terminal	Description
R	24 VAC Hot (Power)
C	24 VAC Common
Y	Cooling (Compressor)
W	Heating (Furnace)

Terminal	Description
G	Fan Relay
S1, S2	Remote Temperature Sensor (pre-wired on 062 variant)

After connecting all wires, gently push any excess wire back into the wall opening. Ensure no wires are pinched.

4. Attaching the Thermostat Body

Align the thermostat body with the mounted wall plate and gently push it into place until it snaps securely. Do not force it.

5. Power On and Test

Restore power to your HVAC system at the circuit breaker. The thermostat display should illuminate. Test both heating and cooling functions to ensure proper operation.

Operating Instructions

The Carrier TSTATCCBAC01-B is a non-programmable thermostat designed for straightforward temperature control.

1. Display Overview

The digital display shows the current room temperature and the setpoint temperature. It may also indicate the system mode (Heat, Cool, Off) and fan status (Auto, On).

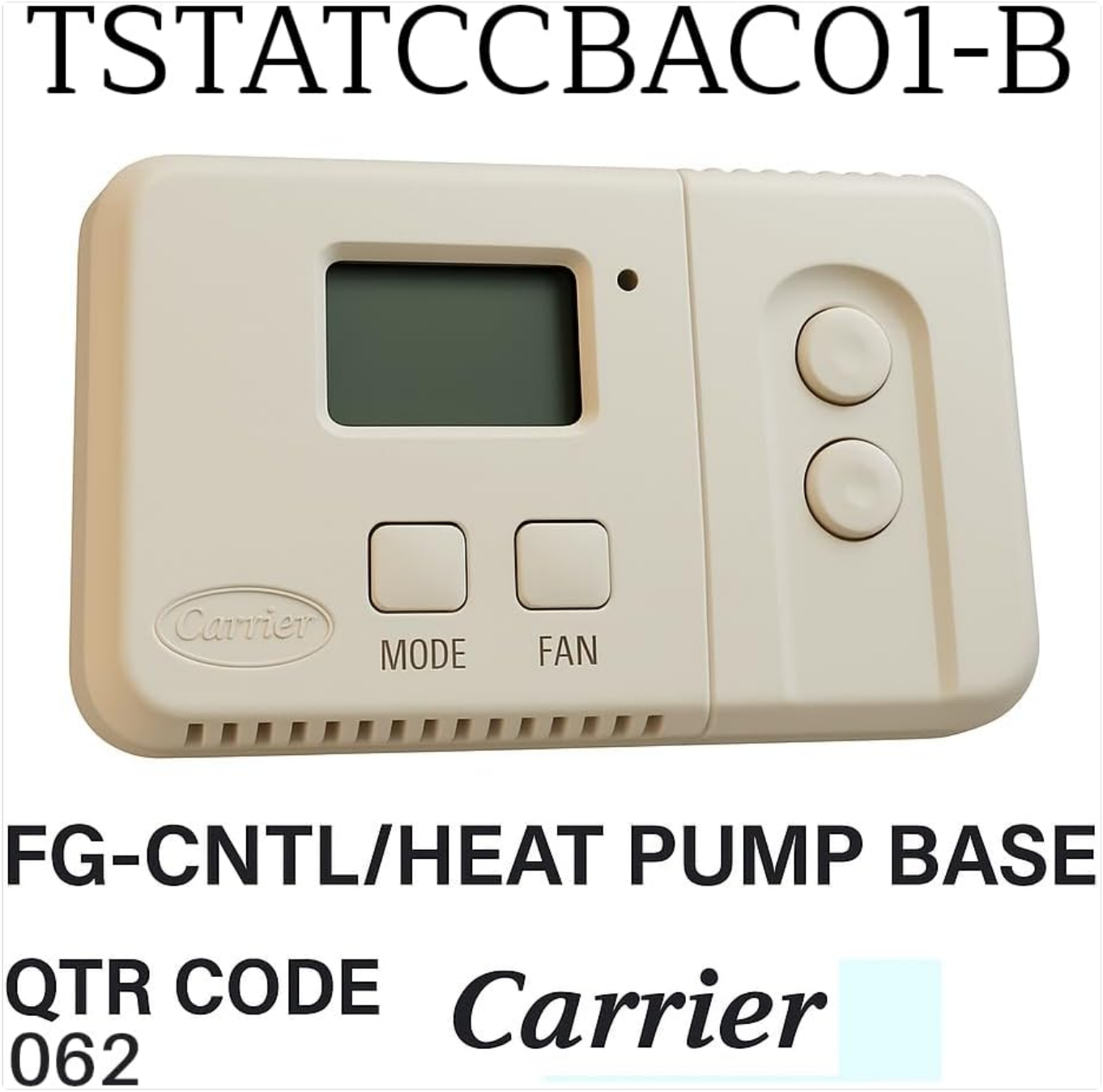


Figure 5: Thermostat Display and Controls

2. Adjusting Temperature

- Use the **Up Arrow** button to increase the setpoint temperature.
- Use the **Down Arrow** button to decrease the setpoint temperature.
- The system will automatically turn on or off to maintain the set temperature.

3. Mode Selection

Press the **MODE** button to cycle through the available system modes:

- **HEAT:** The system will operate to maintain the set heating temperature.
- **COOL:** The system will operate to maintain the set cooling temperature.
- **OFF:** The heating and cooling system is turned off. The fan can still be operated manually.

4. Fan Control

Press the **FAN** button to cycle through the fan settings:

- **AUTO:** The fan runs only when the heating or cooling system is actively operating. This is the most common and energy-efficient setting.
- **ON:** The fan runs continuously, regardless of whether the heating or cooling system is operating.

Maintenance

The Carrier TSTATCCBAC01-B thermostat requires minimal maintenance.

- **Cleaning:** Wipe the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Airflow:** Ensure the thermostat's vents are not obstructed by dust or debris, as this can affect temperature sensing accuracy.
- **Remote Sensor:** Periodically check the remote temperature sensor for any physical damage or obstructions that might impair its function.
- **Power:** As this is a wired thermostat, there are no batteries to replace.

Troubleshooting

If you experience issues with your thermostat, try the following steps before contacting a service professional:

Troubleshooting Guide

Problem	Possible Cause	Solution
Thermostat display is blank.	No power to the thermostat.	Check the circuit breaker for your HVAC system. Ensure it is in the ON position. Verify secure wiring connections at the thermostat.
System not heating/cooling.	Incorrect mode selected; setpoint not met; power issue; system malfunction.	Ensure the thermostat is set to HEAT or COOL mode. Adjust the setpoint temperature to be above (for heat) or below (for cool) the current room temperature. Check circuit breaker. If issues persist, contact an HVAC technician.
Fan not operating.	Fan mode set to AUTO; fan malfunction.	Press the FAN button to set it to ON. If the fan still does not operate, there may be an issue with the fan motor or wiring.
Inaccurate temperature reading.	Thermostat or remote sensor obstructed; sensor malfunction.	Ensure the thermostat and remote sensor are not in direct sunlight, near heat sources, or obstructed by furniture. Clean any dust from vents. If the issue persists, the sensor may need replacement.

Specifications

Feature	Detail
Model Name	Carrier Builder Series Thermostat – 062 Variant
Item Model Number	TSTATCCBAC01-B
Controller Type	Hand Control
Special Feature	Remote Sensor Included, Non-Programmable, Conventional System Compatible
Color	White
Specific Uses For Product	Air Conditioner (and Heating Systems)
Connectivity Technology	Wired
Material	Plastic

Feature	Detail
Shape	Rectangular
Style	Standard
Manufacturer	Carrier
Package Dimensions	5 x 3 x 1.5 inches
Item Weight	1 pounds
Country of Origin	China
Date First Available	May 20, 2025

Warranty and Support

For warranty information and technical support, please refer to the official Carrier documentation or contact Carrier customer service directly. Keep your purchase receipt as proof of purchase.
For additional resources, you may visit the Carrier official website.

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