

Coleman-Mach 6636-3441

Coleman-Mach 6636-3441 Two Stage Digital Thermostat User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the Coleman-Mach 6636-3441 Two Stage Digital Thermostat. Designed for use with Coleman-Mach Package A/C Systems and gas furnaces, this guide ensures proper functionality and longevity of your climate control unit.

2. SAFETY INFORMATION

WARNING: Installation of this thermostat should only be performed by trained technicians. Improper installation can lead to electrical shock, fire, or damage to the product and connected systems. Always refer to manufacturer recommendations to ensure compatibility and safety.

Before beginning any installation or maintenance, ensure that all power to the HVAC system is disconnected at the main power supply.

3. PRODUCT FEATURES

The Coleman-Mach 6636-3441 Two Stage Digital Thermostat offers precise control over your A/C and gas furnace systems. Key features include:

- Digital readout for clear temperature display.
- Exclusive compatibility with Coleman-Mach Package A/C Systems.
- Designed for A/C & Gas Furnace, Wall Mount applications.
- Two-stage output for efficient heating and cooling.
- Operates on 12V DC power.
- Fan control options: High, Low, Auto, On.
- Thermostat control options: Cool, Heat, Off.

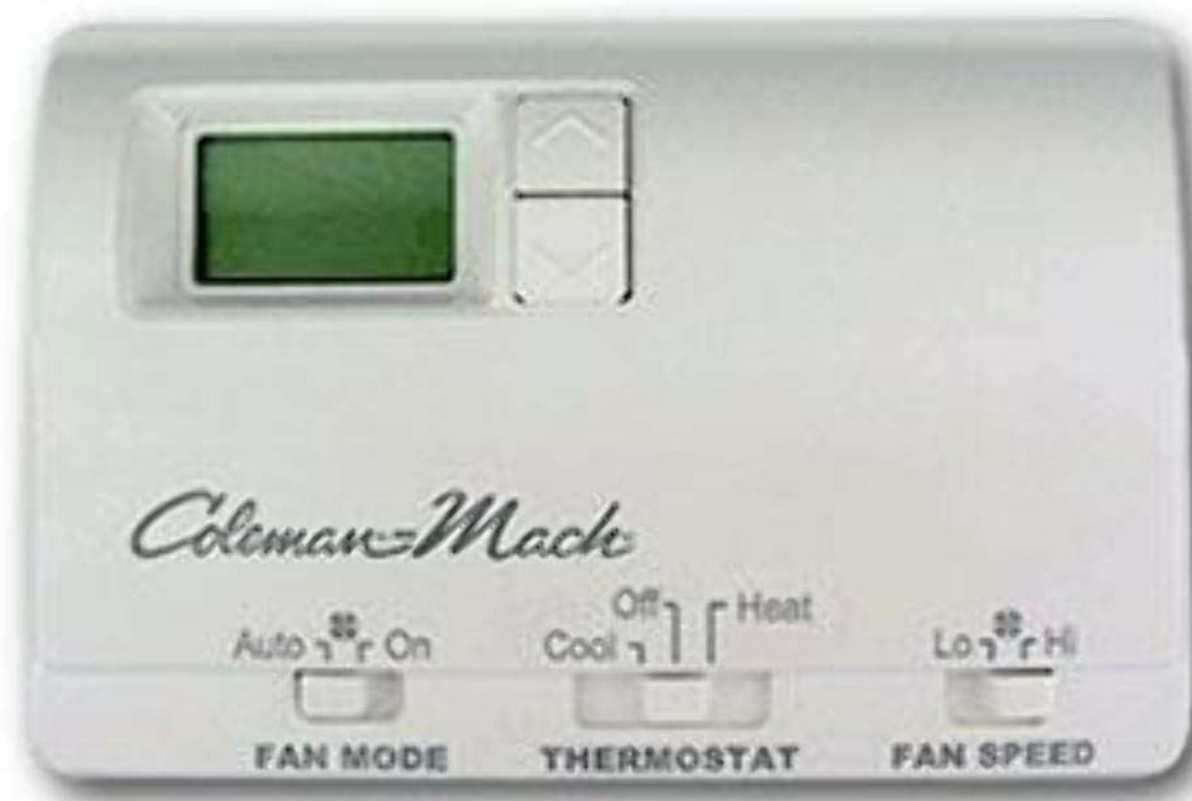


Figure 1: Front view of the Coleman-Mach 6636-3441 Two Stage Digital Thermostat, showing the digital display, control buttons, and mode/fan speed sliders.

4. INSTALLATION

Proper installation is crucial for the optimal performance of your thermostat. This section provides general guidelines. Always consult the detailed wiring diagrams and instructions provided with your specific HVAC unit.

4.1. Preparing for Installation

1. Ensure all electrical power to the air conditioner and furnace systems is turned off at the circuit breaker.
2. Carefully remove the old thermostat from the wall, noting the existing wiring connections.
3. Inspect the wall opening for any debris or damage.

4.2. Wiring Instructions

The Coleman-Mach 6636-3441 thermostat requires a 12V DC power supply. Connect the wires according to the wiring diagram for your specific Coleman-Mach Package A/C System and gas furnace. Ensure secure connections

for all wires.

Video 1: This video demonstrates the internal components and wiring diagram for a similar two-stage digital thermostat (model 6536A3351), providing a visual guide for wire connections.

Video 2: This video illustrates the installation process for a digital thermostat (model 83303362), including removing the cover, threading wires, securing the base, and reattaching the cover.

4.3. Mounting the Thermostat

1. After wiring, secure the thermostat base to the wall using appropriate screws. Ensure it is level and firmly attached.
2. Carefully attach the thermostat cover onto the base, ensuring all wires are tucked away and not pinched.
3. Restore power to the HVAC system at the circuit breaker.

5. OPERATING INSTRUCTIONS

The Coleman-Mach 6636-3441 thermostat is designed for user-friendly operation. Use the control buttons and sliders to manage your climate settings.

5.1. Basic Operation

The thermostat features a digital display showing the current room temperature and set temperature. Use the up/down arrow buttons to adjust the desired temperature. The system will automatically maintain the set temperature based on the selected mode.

Video 3: This video demonstrates the basic operation of a digital thermostat (model 83303362), including adjusting temperature, selecting modes, and controlling fan speed.

Video 4: This video provides an overview of the features and controls of a digital thermostat (model 6536A3351), highlighting its functionality for climate control.

5.2. Mode Selection

Use the 'THERMOSTAT' slider switch to select the desired operating mode:

- **Cool:** Activates the air conditioning system to cool the space to the set temperature.
- **Heat:** Activates the gas furnace to heat the space to the set temperature.
- **Off:** Turns off both the heating and cooling systems.

5.3. Fan Control

Use the 'FAN MODE' slider switch to control the fan operation:

- **Auto:** The fan runs only when the heating or cooling system is actively operating.
- **On:** The fan runs continuously, regardless of whether the heating or cooling system is active.

Use the 'FAN SPEED' slider switch to adjust the fan speed:

- **Lo:** Sets the fan to a low speed.
- **Hi:** Sets the fan to a high speed.

Video 5: This video highlights the heat and cool wall-mount features of a digital RV thermostat (model 8330D3351), demonstrating its operational modes.

Video 6: This video showcases the features of an RV air conditioner thermostat (model 7330F385), including its display and control options.

6. MAINTENANCE

The Coleman-Mach 6636-3441 thermostat requires minimal maintenance to ensure continued reliable operation.

- **Cleaning:** Periodically wipe the thermostat's exterior with a soft, damp cloth. Avoid using abrasive cleaners or solvents.
- **Airflow:** Ensure that the vents on the thermostat are not obstructed, as this can affect temperature sensing.
- **Power Supply:** As this is a 12V DC unit, ensure your RV's 12V system is functioning correctly.

7. TROUBLESHOOTING

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

- **No Display/No Power:** Check the 12V DC power supply to the thermostat and ensure all connections are secure. Verify that the RV's main power is on.
- **System Not Responding:** Ensure the thermostat is set to the correct mode (Cool or Heat) and the desired temperature is appropriately adjusted.
- **Fan Not Operating:** Check the 'FAN MODE' and 'FAN SPEED' settings. Ensure the fan is not set to 'Off' or 'Auto' if continuous operation is desired.
- **Inaccurate Temperature Reading:** Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources that could affect its temperature sensor.
- **System Cycles Too Frequently/Infrequently:** This could indicate an issue with the thermostat's calibration or the HVAC system itself. Consult a qualified technician.

If problems persist after attempting these steps, contact a qualified HVAC technician for further assistance.

8. SPECIFICATIONS

Attribute	Detail
Brand	Coleman-Mach
Model Name	6636-3441
Controller Type	Push Button / Slider
Color	White
Specific Uses For Product	A/C & Gas Furnace
Temperature Control Type	Manual
Connectivity Technology	BACnet MS/TP
Power Source	12V DC
Item Weight	6.72 ounces
Material	Plastic

Display Type	Digital
Mounting Type	Wall Mount

9. WARRANTY AND SUPPORT

Specific warranty details for the Coleman-Mach 6636-3441 Two Stage Digital Thermostat are not provided in this manual. Please refer to your product's packaging or the manufacturer's official website for the most up-to-date warranty information.

For technical support or service inquiries, please contact Coleman-Mach customer service or consult a certified HVAC technician.

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