

YORK CECOMINOD071178

YORK Furnace Control Circuit Board User Manual

Model: CECOMINOD071178 (Replacement for 031-01234-000)

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your new YORK Furnace Control Circuit Board, Model CECOMINOD071178. This board serves as a direct replacement for the original 031-01234-000 board, designed to manage the various functions of your furnace system. Please read this manual thoroughly before proceeding with any installation or service.

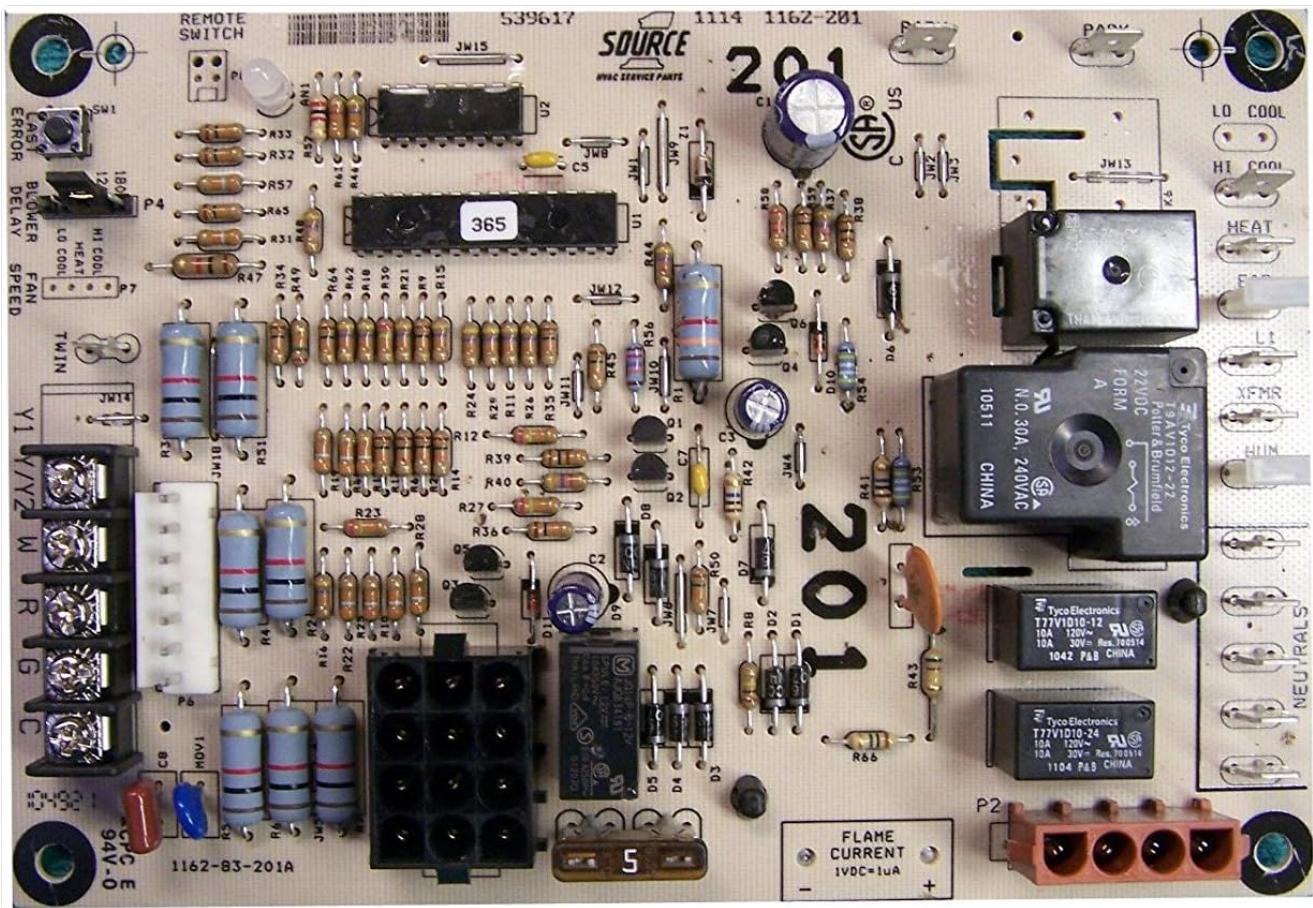
2. SAFETY INFORMATION

Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

- Disconnect Power:** Always ensure that all electrical power to the furnace is disconnected at the main service panel before installing or servicing the control board. Failure to do so can result in electrical shock, fire, or death.
- Static Discharge:** Electronic components are sensitive to static electricity. Before handling the board, discharge any static electricity from your body by touching a grounded metal object, such as a bare metal pipe or the furnace chassis. Consider using an anti-static wrist strap.
- Qualified Personnel:** Installation and troubleshooting should only be performed by individuals with proper electrical and HVAC system knowledge.
- Wiring Accuracy:** Double-check all wiring connections against the furnace's wiring diagram and the instructions provided with this board. Incorrect wiring can damage the board or the furnace.

3. PRODUCT OVERVIEW

The YORK Furnace Control Circuit Board (Model CECOMINOD071178) is a critical component responsible for controlling the sequence of operations in your furnace. It manages functions such as ignition, fan operation, and safety shutdowns. This board is an upgraded replacement designed to be compatible with systems originally using the 031-01234-000 board.



This image displays the complete layout of the York Furnace Control Circuit Board. Key components visible include various resistors, capacitors, integrated circuits, relays, and terminal blocks for wiring connections. The board features labels for different functions such as 'REMOTE SWITCH', 'FAN SPEED', 'Y/Y2', 'W', 'R', 'G', 'C', 'HI COOL', 'LO COOL', 'HEAT', 'XFMR', and 'NEUTRALS', indicating its role in managing furnace operations. A fuse labeled '5' is also visible near the bottom.

While this board is a functional replacement, its physical layout and mounting hole configuration may differ from the original 031-01234-000 board. It is manufactured by White-Rodgers and may carry part number 50A56-956.

4. SETUP AND INSTALLATION

Follow these steps carefully for proper installation:

- 1. Power Disconnection:** Turn off all electrical power to the furnace at the main circuit breaker or fuse box. Verify power is off using a voltage meter.
- 2. Document Existing Wiring:** Before disconnecting any wires from the old control board, take clear photographs of all connections. Label each wire and its corresponding terminal on the old board. This is crucial for correct re-connection.
- 3. Remove Old Board:** Carefully disconnect all wires and remove the old control board from the furnace control box. Note the mounting method.
- 4. Mount New Board:** The new board may have different mounting hole locations. You may need to drill new holes in the control box to secure the new board. The board typically comes with nylon standoffs and snap-tabs. Position the new board, mark the new hole locations, and drill appropriate pilot holes (e.g., 3/16" for nylon standoffs). Ensure the board is securely mounted.
- 5. Connect Wiring:** Refer to your documented wiring (photos and labels) and the wiring diagram provided with the new control board. Connect each wire to its corresponding terminal on the new board.
- 6. Transformer Polarity (Crucial):** Some replacement boards, including this one, may have a reverse polarity design for the 24V transformer leads compared to the original York board. If your furnace does not operate after installation and displays a

