YORK P031-01972-000

YORK Furnace Control Circuit Board Instruction Manual

Model: P031-01972-000

Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your new YORK Furnace Control Circuit Board, model P031-01972-000. This board is a replacement component designed to manage the various functions of a compatible furnace system. Please read this manual thoroughly before attempting any installation or service.

Safety Information

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read these instructions thoroughly before installing or servicing this equipment.

- Always disconnect all electrical power to the furnace unit before installing or servicing the control board. Failure to do so can result in electrical shock, personal injury, or death.
- Installation and servicing should be performed by a qualified HVAC technician.
- Ensure all wiring connections are secure and comply with local and national electrical codes.
- Do not bypass any safety devices.
- Handle the circuit board by its edges to avoid damaging components due to static electricity.

Setup and Installation

This section outlines the general steps for replacing an existing furnace control board. Specific wiring diagrams for your furnace model should be consulted in conjunction with these instructions.

1. **Power Disconnection:** Turn off all power to the furnace at the main electrical panel. Verify power is off using a voltage meter.
2. **Access Panel Removal:** Remove the furnace access panel to expose the existing control board.
3. **Document Wiring:** Before disconnecting any wires, take clear photographs of all connections on the old board. Label each wire and its corresponding terminal for accurate re-connection.
4. **Disconnect Wires:** Carefully disconnect all wires and harnesses from the old control board. Note the location of the

fuse and remove it.

5. **Remove Old Board:** Unscrew or unclip the old control board from its mounting points.
6. **Install New Board:** Position the new YORK P031-01972-000 control board in the furnace. Secure it using the existing mounting points. In some cases, minor adjustments to mounting holes may be necessary due to slight variations in board layout.
7. **Connect Wiring:** Refer to your documented photographs and labels to re-connect all wires and harnesses to the new board. Ensure all connections are firm and correctly seated. Pay close attention to the multi-plug wiring harnesses, ensuring they are oriented correctly (squared on one side, rounded on the other).
8. **Install Fuse:** Insert the appropriate fuse into the designated fuse holder on the new board.
9. **Verify Connections:** Double-check all wiring connections against your documentation and the furnace's wiring diagram.
10. **Replace Access Panel:** Securely re-install the furnace access panel.
11. **Restore Power:** Turn on the power to the furnace at the main electrical panel.

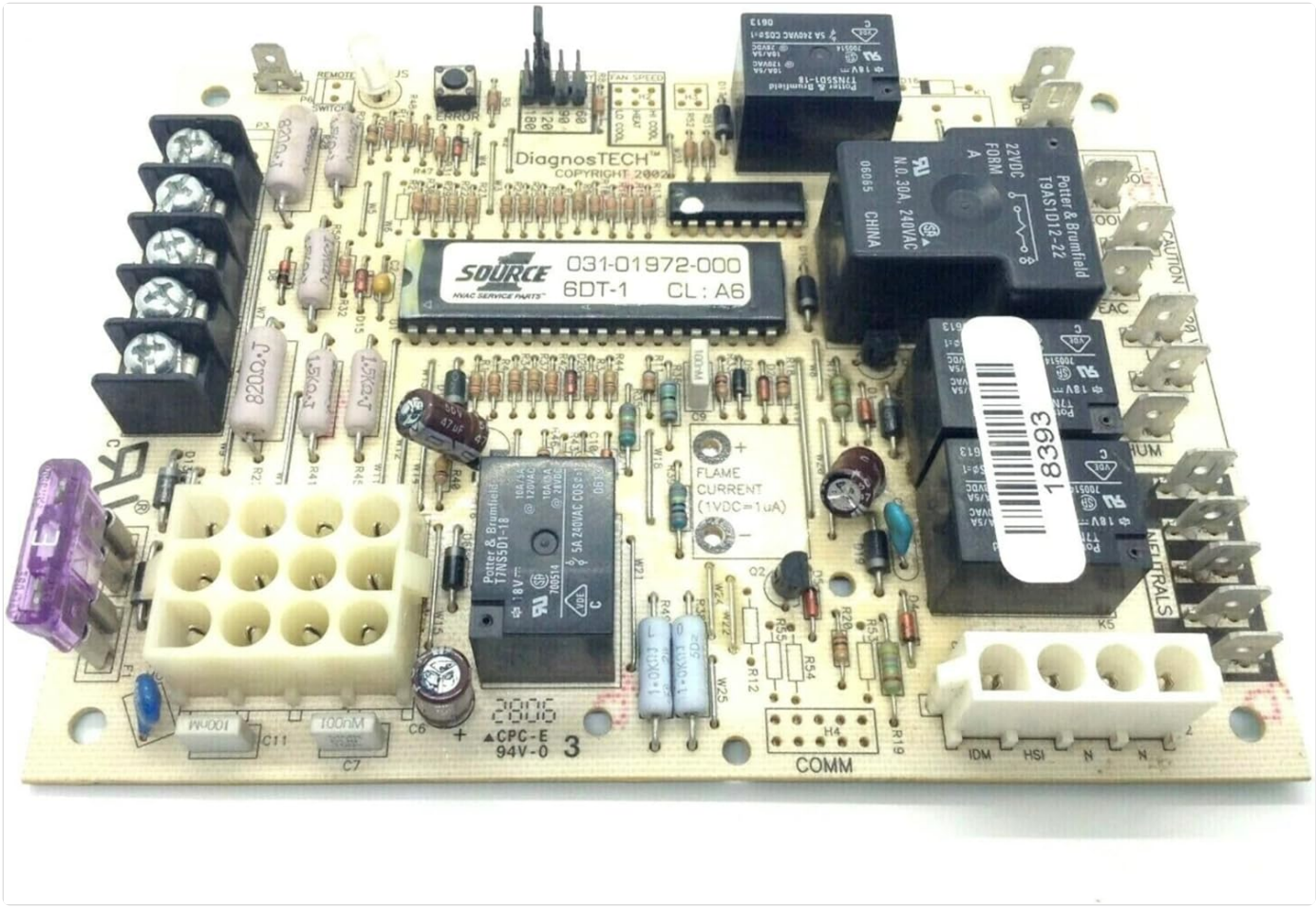

Figure 1: Overview of the YORK Furnace Control Circuit Board (Model P031-01972-000). This image shows the various terminals, relays, and components, including the main chip labeled "SOURCE 031-01972-000" and a barcode sticker with "18393". Note the screw terminals for wiring connections on the left and right, and the multi-pin connectors at the bottom.

Operating Instructions

Once the control board is correctly installed and power is restored, the furnace system should initiate its normal startup sequence. The control board manages the ignition, flame sensing, blower operation, and safety shutdowns.

- Set your thermostat to the desired heating or cooling mode and temperature.
- The control board will receive the call for heat or cool and begin the appropriate sequence of operations.

- Observe the furnace's operation to ensure it cycles on and off correctly and maintains the set temperature.
- Refer to your furnace's specific user manual for detailed operational sequences and thermostat settings.

Maintenance

The YORK Furnace Control Circuit Board is designed for long-term reliability and typically requires minimal direct maintenance. However, regular maintenance of the overall furnace system is crucial for the longevity of all components, including the control board.

- **Annual Inspection:** Have a qualified HVAC technician perform an annual inspection and tune-up of your furnace. This includes checking electrical connections, cleaning components, and verifying proper operation.
- **Air Filter Replacement:** Regularly replace or clean your furnace's air filter as recommended by the furnace manufacturer. A dirty filter can restrict airflow, causing the furnace to overwork and potentially stress electrical components.
- **Keep Area Clear:** Ensure the area around the furnace is clear of obstructions and combustible materials to allow for proper ventilation and prevent overheating.

Troubleshooting

If your furnace is not operating correctly after installing the new control board, consider the following common issues. Always disconnect power before inspecting any internal components.

Problem	Possible Cause	Solution
Furnace does not start or no power.	No power to the furnace. Blown fuse on the control board. Loose wiring connection.	Check circuit breaker/fuse at main panel. Inspect and replace the fuse on the control board if blown (ensure correct amperage). Verify all wiring connections are secure.
Furnace cycles on and off rapidly (short cycling).	Restricted airflow (dirty filter). Overheating (limit switch tripping).	Replace or clean air filter. Ensure return air vents are not blocked. Consult a technician for overheating issues.
Blower motor not operating.	Loose blower wiring. Blower motor issue (less likely if board is new).	Check blower motor connections on the board. If problem persists, professional diagnosis is recommended.

If troubleshooting steps do not resolve the issue, or if you are unsure about any procedure, contact a qualified HVAC professional for assistance.

Specifications

Feature	Detail
Brand	YORK
Model Number	P031-01972-000
Part Number	8039966

Feature	Detail
Item Weight	14.1 ounces (approx. 400 grams)
Product Dimensions	8 x 6 x 10 inches (approx. 20.3 x 15.2 x 25.4 cm)
Material	Copper (components)
Indoor/Outdoor Usage	Indoor
Control Method	App (likely refers to system integration, not direct board control)

Warranty Information

This YORK Furnace Control Circuit Board is covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary. Please retain your proof of purchase for warranty claims. For detailed warranty information, refer to the documentation provided with your purchase or contact the seller.

Support

For technical assistance, troubleshooting beyond the scope of this manual, or to inquire about replacement parts, please contact your authorized YORK service provider or the retailer from whom you purchased this product. When contacting support, please have your product model number (P031-01972-000) and proof of purchase readily available.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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