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› Replacement for York Furnace Control Circuit Board OEM Fits 031-01972-000 P031-01972-000

LLPParts OEM

Replacement York Furnace Control Circuit Board User Manual

Model: OEM | Part Numbers: 031-01972-000, P031-01972-000

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your LLPParts Replacement York Furnace Control Circuit Board. This board is designed as a direct replacement for original equipment manufacturer (OEM) part numbers 031-01972-000 and P031-01972-000, fitting various York furnace models. Please read this manual thoroughly before attempting any installation or service.

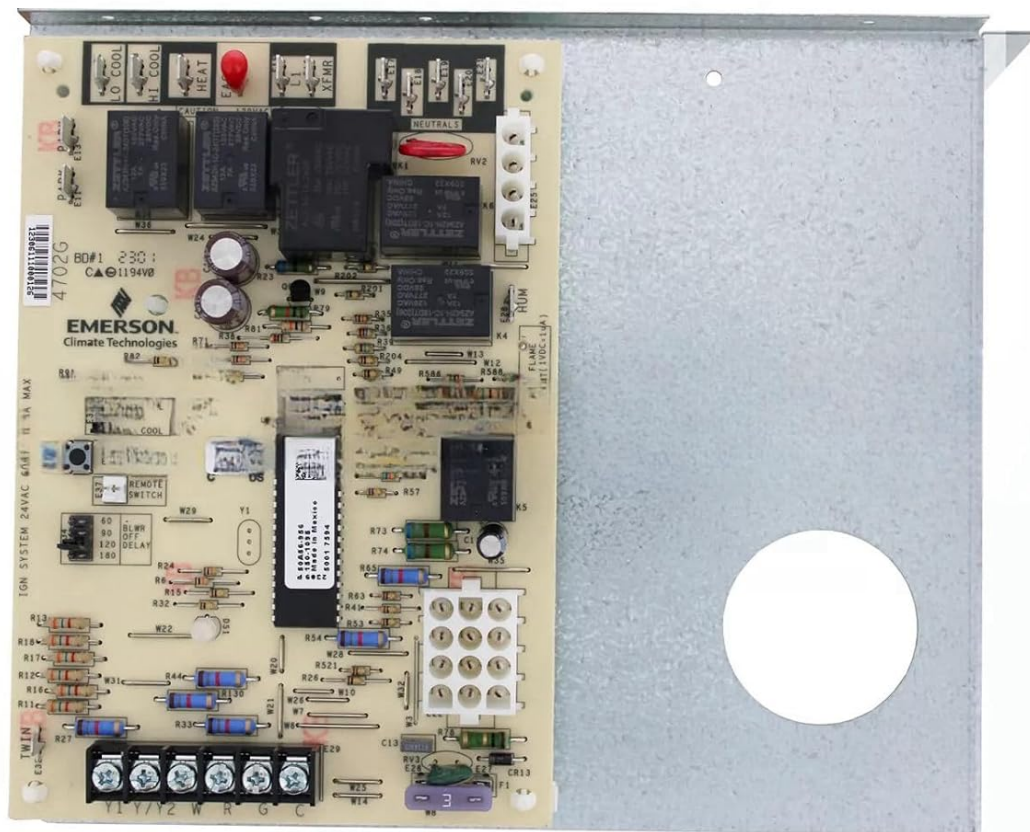
2. SAFETY INFORMATION

WARNING: 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.

- Always disconnect the main power supply to the furnace before installing, servicing, or removing the control board. Failure to do so can result in electrical shock or severe injury.
- Verify that all wiring connections are secure and correct according to the furnace manufacturer's specifications and local electrical codes.
- Do not bypass any safety devices.
- Handle the circuit board by its edges to avoid damaging electronic components due to static electricity.

3. PRODUCT OVERVIEW

The LLPParts Replacement York Furnace Control Circuit Board is a critical component responsible for managing the various functions of your furnace, including ignition, fan operation, and safety shutdowns. It is designed to meet or exceed the specifications of the original York part, ensuring reliable performance.



A detailed view of the furnace control circuit board, showing various electronic components, relays, and connection terminals mounted on a metal bracket. The board is labeled with 'EMERSON Climate Technologies' and model numbers.

This board replaces all control boards in furnaces where the Model # begins with one of the following prefixes: GY9, GF9, GM9, P1UK, PAKU, P2MP, P2MPV, P9MP, P2UR, PBLU, P2LN, P2DP, P3UR, PCLU, P1CX, PACR, XED, P(12)CD, P(AB)ND, XND, DGD, GDD, P3HU, P3GEB, GUD, DGU, PCUH, P1DU, FL8, P3UR, G9T, FG9, P23DN, P3DH, PCDF, P2DR, PBLD, PBKM, PBKD, P1CK, PACE, and many more.

4. INSTALLATION (SETUP)

Installation of this furnace control board should only be performed by a qualified HVAC technician. The following steps are for informational purposes only and do not substitute professional expertise.

1. **Power Disconnection:** Turn off all electrical power to the furnace at the main service panel. Verify power is off using a voltage meter.
2. **Access Panel Removal:** Remove the furnace access panels to expose the existing control board.
3. **Wiring Documentation:** Carefully label all wires connected to the old control board before disconnecting them. Take photos for reference if necessary.
4. **Old Board Removal:** Disconnect all wires and mounting screws/clips holding the old board in place. Remove the old board.
5. **New Board Installation:** Mount the new LLPParts control board in the same location as the old one. Ensure it is securely fastened.
6. **Wiring Connection:** Connect all labeled wires to their corresponding terminals on the new board. Double-check each connection for accuracy and tightness.

7. **Panel Reinstallation:** Replace the furnace access panels.
8. **Power Restoration & Test:** Restore power to the furnace. Observe the furnace operation to ensure all functions (e.g., ignition, fan, heat) are working correctly. Check for any error codes.

5. OPERATING PRINCIPLES

Once installed and powered, the control board continuously monitors various furnace sensors and inputs to ensure safe and efficient operation. It manages the sequence of operations during a heating cycle, including:

- Receiving thermostat calls for heat or fan operation.
- Initiating the draft inducer motor.
- Activating the igniter.
- Opening the gas valve.
- Monitoring the flame sensor.
- Controlling the main blower fan speed and delay.
- Implementing safety shutdowns in case of malfunctions.

The board's integrated diagnostics often provide LED flash codes to indicate operational status or specific fault conditions, aiding in troubleshooting.

6. MAINTENANCE

The furnace control board itself typically requires no routine maintenance. However, regular maintenance of the overall furnace system is crucial for its longevity and proper function. This includes:

- **Annual Professional Inspection:** Have a qualified HVAC technician inspect your furnace annually.
- **Air Filter Replacement:** Regularly replace or clean your furnace air filter as recommended by the furnace manufacturer. A dirty filter can restrict airflow and cause the furnace to overheat, potentially stressing components including the control board.
- **Cleanliness:** Keep the area around the furnace clean and free of obstructions. Ensure the control board itself is free of dust and debris.
- **Wiring Integrity:** Periodically check for any loose or corroded wiring connections within the furnace, especially those connected to the control board.

7. TROUBLESHOOTING

Before attempting any troubleshooting, ensure the main power to the furnace is disconnected. If you are not comfortable performing these steps, contact a qualified HVAC technician.

Common Issues and Diagnostic Steps:

- **No Heat / Furnace Not Starting:**
 - Check thermostat settings.
 - Verify power supply to the furnace.
 - Inspect the furnace filter for excessive dirt.
 - Look for diagnostic LED flash codes on the control board (refer to your furnace manual for code interpretations).

- Check for tripped circuit breakers or blown fuses.

- **Blower Fan Not Operating:**

- Ensure the thermostat fan setting is not set to 'OFF'.
- Check for diagnostic codes related to the blower motor.
- Verify the fan limit switch setting.

- **Intermittent Operation:**

- Check for loose wiring connections on the control board and other furnace components.
- Ensure proper grounding.
- Inspect flame sensor for cleanliness.

For complex issues or if diagnostic codes persist, it is recommended to consult a professional HVAC technician.

8. SPECIFICATIONS

Brand	LLPParts
Model Name	OEM
Replaces Part Numbers	031-01972-000, P031-01972-000
Material	Cotton (Note: This refers to packaging material, not the board itself)
Package Dimensions	1 x 1 x 1 inches
Item Weight	1 Pound
ASIN	B0DSJJSVC8
UPC	761759758306

9. WARRANTY

This LLPParts Replacement York Furnace Control Circuit Board comes with a product warranty period of one year from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use and service. It does not cover damage resulting from improper installation, misuse, abuse, or unauthorized repairs.

10. SUPPORT

For technical assistance, warranty claims, or further inquiries regarding your LLPParts Replacement York Furnace Control Circuit Board, please contact the manufacturer or your qualified HVAC service provider. Always provide the model number and part numbers when seeking support to ensure accurate assistance.

For additional information or to find a qualified technician, you may refer to resources from reputable HVAC organizations or the original furnace manufacturer's website.



