

OEM Replm for Rheem 62-24268-03

OEM Replacement Furnace Control Board 62-24268-03 Instruction Manual

For Rheem Furnace Systems

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the OEM Replacement Furnace Control Board, model 62-24268-03. This control board is designed as a direct replacement for specific Rheem furnace systems. Please read this manual thoroughly before proceeding with any installation or service to ensure safety and correct functionality.

2. SAFETY INFORMATION

WARNING: Electrical Shock Hazard. Disconnect power before servicing.

- Installation and servicing of heating equipment can be hazardous and requires specialized knowledge and training. This control board should only be installed and serviced by a qualified heating and air conditioning technician.
- Always disconnect the main electrical power to the furnace and gas supply before installing, servicing, or removing the control board. Failure to do so can result in electrical shock, fire, or serious injury.
- Ensure all wiring connections are secure and comply with local and national electrical codes.
- Do not operate the furnace if any part has been submerged in water. A qualified technician should inspect the furnace and replace any part of the control system and any gas control that has been submerged in water.
- Wear appropriate personal protective equipment (PPE) during installation and servicing.

3. PRODUCT OVERVIEW

The 62-24268-03 control board is an OEM (Original Equipment Manufacturer) replacement part designed to manage the operational sequences of a Rheem furnace. It controls critical functions such as ignition, flame sensing, blower motor operation, and safety limit monitoring. This board ensures the furnace operates efficiently and safely according to its design specifications.

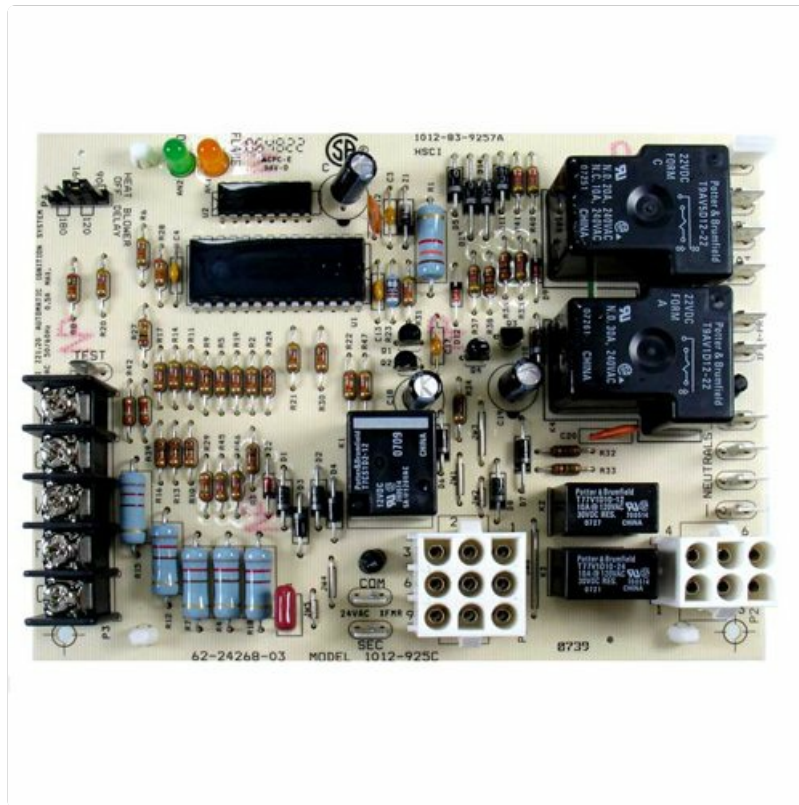


Figure 1: The 62-24268-03 OEM Replacement Furnace Control Board. This image shows the circuit board with various connectors and components, designed to replace the original control board in compatible Rheem furnace models.

4. INSTALLATION

Professional installation by a qualified technician is strongly recommended.

4.1 Pre-Installation Checks

- Verify that the new control board (model 62-24268-03) is the correct replacement for your specific Rheem furnace model. Refer to your furnace's service manual.
- Ensure all necessary tools are available, including screwdrivers, wire strippers, and a multimeter.
- Confirm that the main power supply to the furnace is disconnected at the circuit breaker or fuse box.
- Turn off the gas supply to the furnace.

4.2 Removal of Old Control Board

1. Take clear photographs of the existing wiring connections on the old control board for reference.
2. Carefully disconnect all wires from the old control board, labeling them if necessary to ensure correct re-connection.
3. Unmount the old control board from its housing. Note how it was secured (screws, clips, etc.).

4.3 Installation of New Control Board

1. Mount the new 62-24268-03 control board in the same location and orientation as the old board.
2. Connect all wires to the corresponding terminals on the new control board, using your photographs and labels as a guide. Ensure all connections are tight and secure.
3. Double-check all wiring against the furnace's wiring diagram and your reference photos.

4.4 Post-Installation

1. Restore the gas supply to the furnace.

2. Restore electrical power to the furnace.
3. Initiate a test cycle for the furnace to ensure proper operation of all components (e.g., inducer motor, igniter, flame sensor, blower motor).
4. Observe the furnace through several cycles to confirm stable and correct functionality.

5. FUNCTIONALITY AND SYSTEM INTEGRATION

The 62-24268-03 control board acts as the central processing unit for your furnace. It receives signals from the thermostat and various safety sensors to orchestrate the heating cycle. Key functions include:

- **Ignition Control:** Manages the sequence for igniting the main burners.
- **Flame Sensing:** Monitors the presence of a flame to ensure safe operation and prevent gas accumulation.
- **Blower Motor Control:** Activates and deactivates the indoor blower fan for heat distribution and cooling cycles.
- **Safety Limit Monitoring:** Responds to signals from high-limit switches, rollout switches, and pressure switches to shut down the furnace if unsafe conditions are detected.
- **Diagnostic Codes:** Many control boards feature LED indicators that flash specific codes to help diagnose operational issues. Refer to your furnace's service manual for a list of diagnostic codes.

6. MAINTENANCE

The control board itself typically requires no routine maintenance. However, ensuring the overall furnace system is well-maintained contributes to the longevity and reliable operation of all components, including the control board.

- **Annual Professional Inspection:** Have your furnace inspected and serviced annually by a qualified HVAC technician. This includes checking electrical connections, cleaning components, and verifying proper operation of safety devices.
- **Keep Area Clean:** Ensure the area around the furnace is free from dust, debris, and obstructions to allow for proper airflow and prevent overheating of components.
- **Filter Replacement:** Regularly replace or clean your furnace air filter as recommended by the furnace manufacturer. A dirty filter can restrict airflow, leading to overheating and potential stress on furnace components.

7. TROUBLESHOOTING

If your furnace is experiencing issues after control board replacement, consider the following common troubleshooting steps. Always ensure power and gas are disconnected before inspecting internal components.

- **No Power to Furnace:**
 - Check the circuit breaker for the furnace.
 - Verify the furnace disconnect switch is in the "ON" position.
 - Ensure the furnace door panel is correctly installed, as many furnaces have a safety interlock switch.
- **Furnace Not Igniting:**

- Check for diagnostic codes on the control board (if applicable). Refer to your furnace manual for code interpretation.
 - Verify gas supply is open.
 - Inspect the igniter for damage or proper glow.
 - Clean the flame sensor.
- **Blower Fan Not Operating Correctly:**
 - Check thermostat settings for fan operation (AUTO/ON).
 - Ensure all wiring to the blower motor and control board is secure.
- **Repeated Cycling or Lockout:**
 - This often indicates a safety limit switch has tripped. Check for restricted airflow (dirty filter, blocked vents) or issues with the flue.
 - Consult diagnostic codes.

If issues persist after basic troubleshooting, contact a qualified HVAC technician for diagnosis and repair.

8. SPECIFICATIONS

Feature	Detail
Model Number	62-24268-03
Type	OEM Replacement Furnace Control Board
Compatibility	Designed for specific Rheem furnace models
Product Dimensions	6 x 6 x 6 inches
Item Weight	9 ounces
Manufacturer	Rheem (as original equipment manufacturer)

9. WARRANTY AND SUPPORT

As an OEM replacement part, warranty coverage for the 62-24268-03 control board typically falls under the terms provided by the seller or the original equipment manufacturer (Rheem). Please retain your proof of purchase for any warranty claims.

- **Warranty Information:** Refer to the specific warranty documentation provided at the time of purchase or contact your supplier for details regarding warranty periods and conditions.
- **Technical Support:** For technical assistance or complex troubleshooting, it is recommended to contact a qualified HVAC professional. They have the expertise and diagnostic tools to properly assess and resolve furnace issues.