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ClimaTek ClimaTek Rplm for Janitrol B13707-38

ClimaTek Furnace Blower Motor Relay Instruction Manual

Model: ClimaTek Rplm for Janitrol B13707-38

1. Product Overview

This manual provides essential information for the installation, operation, and maintenance of your ClimaTek Furnace Blower Motor Relay. This component is a direct replacement part designed for various furnace systems, including Goodman, Janitrol, and Amana branded units.

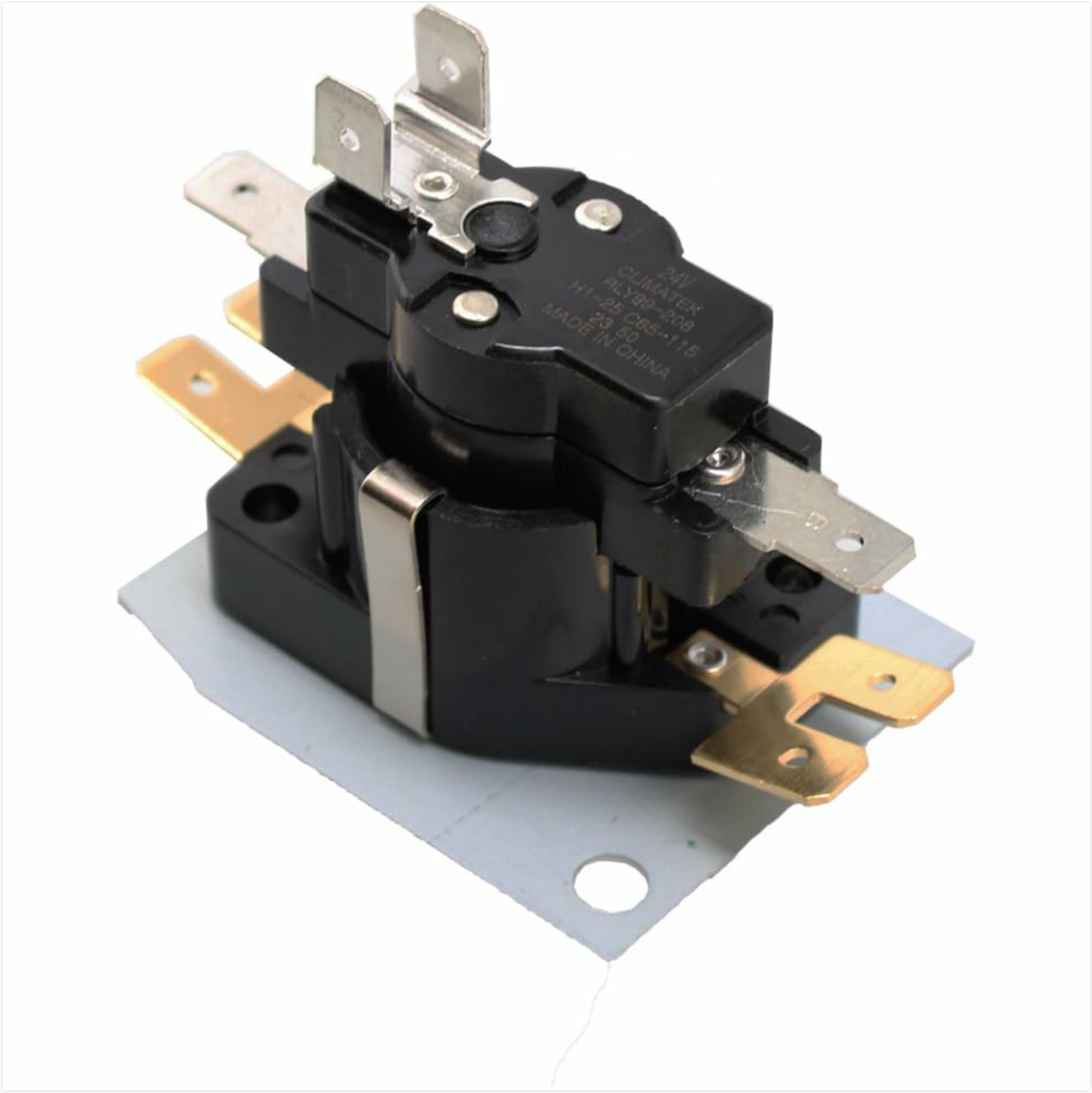


Figure 1: The ClimaTek Furnace Blower Motor Relay. This image shows the compact black relay unit with multiple metal terminals for electrical connections, mounted on a small metal plate.

Key features of this ClimaTek Furnace Blower Motor Relay include:

- Brand new, upgraded fan relay.
- High-quality ClimaTek replacement part, engineered for durability.
- Directly replaces part numbers: B13707-38, B1370738, Q108, PCQ108, NS108, DGS108, HN67GJ002, and others.
- Designed for compatibility with Goodman, Janitrol, and Amana branded furnaces.
- Features a "Plug and Play" design, requiring no electrical or hardware modifications for installation.

2. Safety Information

WARNING: Electrical shock hazard. Always disconnect power before servicing HVAC equipment.

- Ensure the main power supply to the furnace is completely disconnected before attempting any installation or maintenance.

- Only qualified personnel should perform installation and servicing of HVAC components.
- Wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Verify correct wiring connections to prevent damage to the relay or furnace system.
- Do not operate the furnace with damaged or improperly installed components.

3. Setup and Installation

This ClimaTek relay is designed for straightforward "Plug and Play" installation, replacing the existing furnace blower motor relay. Follow these general steps:

1. **Power Disconnection:** Locate the main power switch for your furnace and turn it OFF. For added safety, turn off the circuit breaker supplying power to the furnace.
2. **Access Existing Relay:** Open the furnace access panel to locate the existing blower motor relay. Note its position and wiring connections. It is recommended to take a photograph of the existing wiring before disconnection.
3. **Disconnect Old Relay:** Carefully disconnect all wires from the old relay. Note that this relay features Normally Open (NO) contacts.
4. **Remove Old Relay:** Unmount the old relay from its position.
5. **Install New Relay:** Mount the new ClimaTek B13707-38 relay in the same location.
6. **Connect Wiring:** Reconnect the wires to the new relay, ensuring they match the original configuration. Refer to your furnace's specific wiring diagram if unsure.
7. **Secure Panel:** Close and secure the furnace access panel.
8. **Restore Power:** Restore power to the furnace by turning on the circuit breaker and the furnace power switch.
9. **Test Operation:** Initiate a heating or cooling cycle to verify the proper operation of the blower motor.

For specific wiring diagrams and detailed installation procedures, always consult your furnace manufacturer's service manual.

4. Operating Instructions

The ClimaTek Furnace Blower Motor Relay operates automatically as part of your furnace's control system. Its primary function is to switch the power to the furnace's blower motor on and off, based on signals from the thermostat and furnace control board.

- When the thermostat calls for heating or cooling, the furnace control board sends a signal to the relay.
- The relay then closes its internal contacts, allowing electrical current to flow to the blower motor, which circulates air through your home's ductwork.
- Once the heating or cooling cycle is complete, or the thermostat's demand is met, the control board signals the relay to open its contacts, stopping the blower motor.

No direct user interaction is required for the operation of the relay itself, as it functions as an integral part of the furnace's automated system.

5. Maintenance

The ClimaTek Furnace Blower Motor Relay is a sealed component and does not require routine maintenance. However, periodic inspection of your furnace system is recommended to ensure optimal performance and longevity of all components, including the relay.

- **Visual Inspection:** During routine furnace maintenance (e.g., filter changes), visually inspect the relay and its wiring for any signs of damage, corrosion, or loose connections.

- **Cleanliness:** Ensure the area around the relay is free from dust and debris, which can impede proper operation or lead to overheating.
- **Professional Check:** It is advisable to have your HVAC system professionally inspected annually. A technician can assess the relay's function as part of a comprehensive system check.

If any issues are observed, refer to the Troubleshooting section or contact a qualified HVAC technician.

6. Troubleshooting

If you experience issues with your furnace's blower motor, the relay may be a contributing factor. Below are common symptoms and potential solutions:

Symptom	Possible Cause	Solution
Blower motor does not turn on.	Faulty relay, no power to furnace, thermostat issue, or control board issue.	Check furnace power supply and circuit breaker. Verify thermostat settings. If power is present and thermostat is calling for heat/cool, the relay may need replacement. Consult a technician.
Blower motor runs continuously.	Relay contacts stuck closed, thermostat fan setting, or control board issue.	Check thermostat fan setting (should be "Auto" for normal operation). If set to "Auto" and blower still runs, the relay may be faulty and stuck in the closed position, requiring replacement. Consult a technician.
Intermittent blower operation.	Loose wiring connections, intermittent relay fault, or control board issue.	Ensure all wiring connections to the relay are secure. If the problem persists, the relay may be failing intermittently and require replacement. Consult a technician.

Note: Always disconnect power before inspecting or working on electrical components. If you are unsure about any troubleshooting steps, contact a certified HVAC professional.

7. Specifications

Attribute	Detail
Product Name	Furnace Blower Motor Relay
Brand	ClimaTek
Model Number	ClimaTek Rplm for Janitrol B13707-38
Replaces Part Numbers	B13707-38, B1370738, Q108, PCQ108, NS108, DGS108, HN67GJ002
Contact Type	Normally Open
Operation Mode	Automatic
Product Dimensions	6 x 6 x 6 inches
Item Weight	2.29 ounces

8. Warranty Information

ClimaTek products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to

your B13707-38 Furnace Blower Motor Relay, please refer to the documentation provided with your purchase or visit the official ClimaTek website. Typically, replacement parts carry a limited warranty against manufacturing defects.

Keep your proof of purchase for any warranty claims.

9. Customer Support

If you have questions regarding the installation, operation, or troubleshooting of your ClimaTek Furnace Blower Motor Relay, or require technical assistance, please contact your authorized ClimaTek dealer or a qualified HVAC technician.

For general inquiries about ClimaTek products, you may visit the ClimaTek brand store on Amazon:ClimaTek Store.

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