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Trane Parts KIT15816

Trane Parts KIT15816 Furnace Control & Ignitor Instruction Manual

Model: KIT15816

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of the Trane Parts KIT15816 Furnace Control and Ignitor kit. This kit is a genuine OEM replacement component designed for specific American Standard and Trane furnace models. Please read these instructions thoroughly before proceeding with 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 electrical power to the furnace before installing or servicing this control board.
- Turn off the gas supply to the furnace before beginning any work.
- Ensure all wiring connections are secure and correctly matched according to the furnace manufacturer's specifications.
- Wear appropriate personal protective equipment (PPE) during installation.
- Verify proper operation after installation, including gas leak checks and ignition sequence.

3. Product Overview

The Trane Parts KIT15816 is an integrated furnace control kit that includes a furnace control assembly (circuit board) and an ignitor with its associated cable. This kit is designed to replace various older control board models and is compatible with numerous American Standard and Trane furnace units. It manages the furnace's ignition sequence, blower operation, and safety functions.



Image 3.1: Front view of the Trane KIT15816 Furnace Control Board. This image displays the various terminals, relays, and electronic components on the primary side of the circuit board.



Image 3.2: Back view of the Trane KIT15816 Furnace Control Board. This image shows the solder points and traces on the reverse side of the circuit board.



Image 3.3: Official Trane OEM Component Stamp. This stamp signifies that the product is a genuine Original Equipment Manufacturer part from Trane.

4. Setup and Installation

This section outlines the general procedure for replacing a furnace control board and ignitor. Specific steps may vary based on your furnace model. Always refer to your furnace's specific service manual for detailed instructions.

4.1 Pre-Installation Steps

1. **Disconnect Power:** Turn off all electrical power to the furnace at the main service panel.
2. **Turn Off Gas:** Close the manual gas shut-off valve to the furnace.
3. **Access Control Board:** Remove the furnace access panel(s) to expose the control board and wiring.
4. **Document Wiring:** Take clear photographs or make detailed diagrams of all existing wiring connections to the old control board. Label wires if necessary.
5. **Remove Old Ignitor:** Carefully disconnect and remove the old ignitor.
6. **Remove Old Control Board:** Disconnect all wires and mounting screws/clips securing the old control board.

4.2 Installation Steps

1. **Mount New Control Board:** Secure the new KIT15816 control board in the same location as the old one using the appropriate mounting hardware.
2. **Connect Wiring:** Refer to your documented wiring diagrams and the furnace's service manual to connect all wires to the new control board. Ensure each wire is securely attached to its correct terminal.
3. **Install New Ignitor:** Install the new ignitor and connect its cable to the designated ignitor terminal on the control board.
4. **Double-Check Connections:** Visually inspect all connections to ensure they are tight and correctly placed.

5. Operating Instructions

After successful installation of the KIT15816 control board and ignitor, follow these steps to restore furnace operation:

1. **Restore Gas Supply:** Open the manual gas shut-off valve to the furnace.
2. **Restore Electrical Power:** Turn on the electrical power to the furnace at the main service panel.
3. **Set Thermostat:** Set your thermostat to a heat setting above the current room temperature to initiate a call for heat.
4. **Monitor Ignition Sequence:** Observe the furnace's ignition sequence. The ignitor should glow, followed by the main burner ignition.
5. **Verify Operation:** Ensure the furnace operates through a full heating cycle, including blower activation and proper temperature rise.
6. **Replace Access Panels:** Once proper operation is confirmed, replace all furnace access panels.

6. Maintenance

The KIT15816 control board is designed for reliable operation and typically requires no routine maintenance itself. However, regular maintenance of the overall furnace system is crucial for its longevity and efficiency.

- **Annual Furnace Inspection:** Have a qualified HVAC technician perform an annual inspection and tune-up of your furnace.
- **Air Filter Replacement:** Regularly check and replace your furnace's air filter as recommended by the furnace manufacturer.
- **Inspect Wiring:** Periodically, with power disconnected, visually inspect wiring connections to the control board for any signs of wear or looseness.
- **Keep Area Clear:** Ensure the area around the furnace is kept clear of obstructions and combustible materials.

7. Troubleshooting

If your furnace is not operating correctly after installing the KIT15816, consider the following common troubleshooting steps. Always ensure power and gas are disconnected before inspecting internal components.

- **No Power to Furnace:** Check circuit breakers and furnace disconnect switch. Ensure the furnace door panel is correctly installed, as many have safety interlocks.
- **No Ignition/No Heat:**
  - Verify gas supply is open.
  - Check ignitor for proper glow. If no glow, ensure it's correctly wired and not damaged.
  - Inspect flame sensor for dirt or damage (clean with fine sandpaper if dirty).
  - Ensure all wiring connections to the control board are secure.
- **Blower Not Operating:**
  - Check thermostat settings (fan mode).
  - Ensure blower motor wiring is secure.
  - Some control boards have diagnostic lights; consult your furnace manual for error codes.
- **Intermittent Operation:** This can often be due to loose connections, faulty sensors, or issues with the thermostat. Re-check all wiring.

If troubleshooting does not resolve the issue, contact a qualified HVAC technician for further diagnosis and repair.

8. Specifications

Feature	Detail
Model Number	KIT15816
Manufacturer	Trane Parts
Type	Integrated Furnace Control Board & Ignitor Kit
Compatibility	Various American Standard and Trane furnace units (replaces CNT05160, CNT04985, CNT04678, CNT03777, etc.)
Item Weight	Approximately 0.01 ounces (packaging weight may vary)
ASIN	B07JG7LHR2

9. Warranty Information

Specific warranty details for the Trane Parts KIT15816 are typically provided by the seller or the original equipment manufacturer at the time of purchase. Please retain your proof of purchase for any warranty claims. For detailed warranty terms and conditions, refer to the documentation provided with your purchase or contact the seller directly.

10. Support

For technical assistance, installation guidance, or troubleshooting beyond the scope of this manual, it is recommended to contact a certified HVAC professional. For inquiries regarding your purchase or product availability, please contact your retailer or the Trane Parts customer service department.

Note: Images in this manual are for illustration purposes only. The actual product may vary slightly in appearance.

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