

Trane CNT04717

Trane CNT04717 Ignition Control Module User Manual

Genuine OEM Replacement Part for HVAC Systems

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Trane CNT04717 Ignition Control Module. This component is a genuine OEM replacement part designed for use in various Trane HVAC systems, particularly within the foodservice industry. Adhering to these instructions ensures safety, reliability, and optimal performance of your equipment.

The Trane CNT04717 Ignition Control is a critical component responsible for managing the ignition sequence in heating appliances. It ensures safe and efficient operation by controlling the gas valve, igniter, and flame sensor during startup and operation.

2. 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 power to the appliance before installing or servicing the ignition control module.
- Installation and service must be performed by a qualified installer, service agency, or gas supplier.
- Verify all wiring connections are secure and correct according to the appliance's wiring diagram.
- Do not bypass any safety devices.
- Handle the control module with care to avoid damage from electrostatic discharge.

3. PRODUCT OVERVIEW

The Trane CNT04717 is an electronic ignition control board. It integrates various functions to ensure the safe and efficient operation of a heating system's burner. Key components include relays, resistors, capacitors, and integrated circuits, all designed to manage the ignition sequence and monitor flame presence.

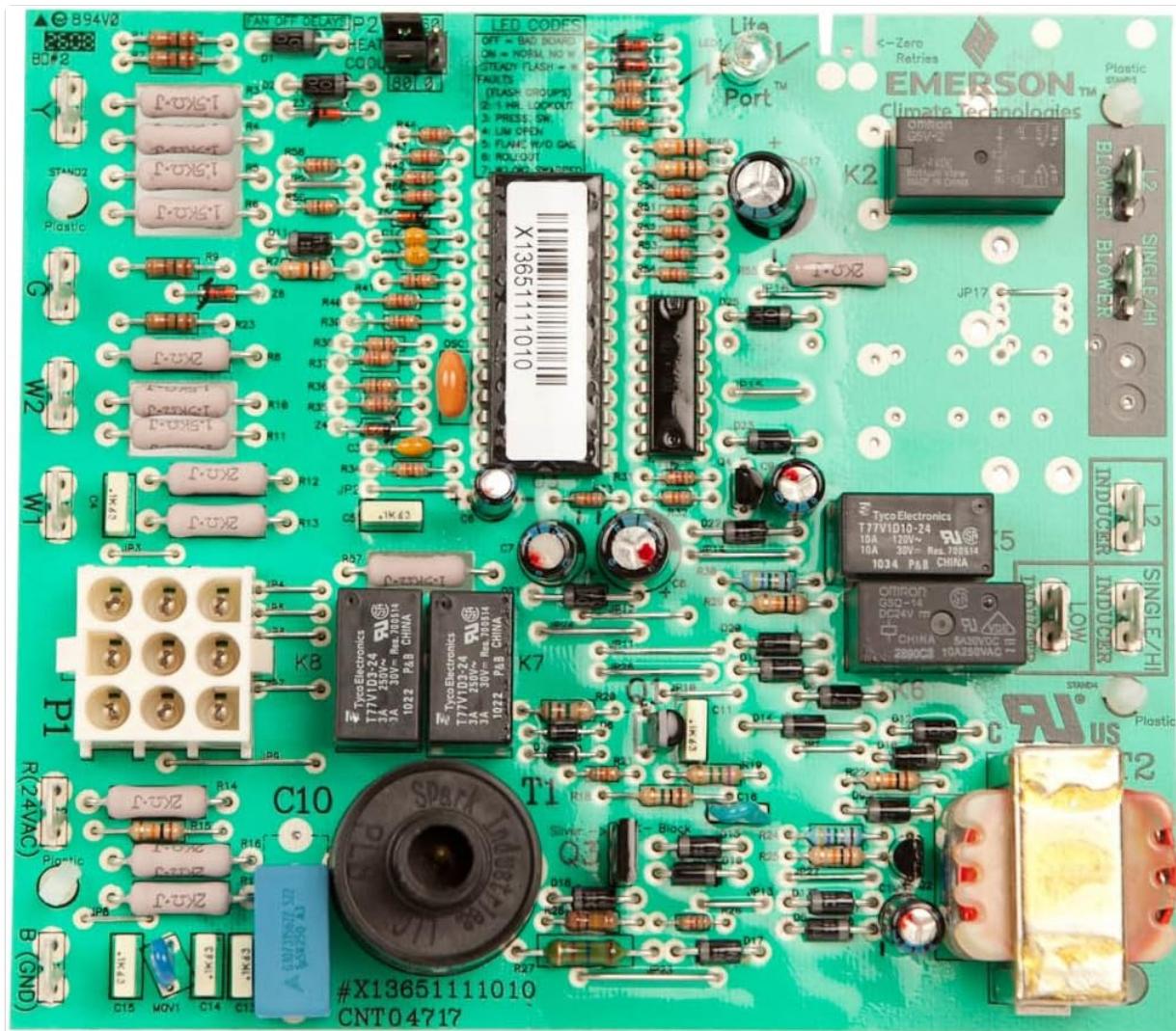


Figure 1: Top-down view of the Trane CNT04717 Ignition Control Module circuit board. This image displays the various electronic components, including relays (e.g., Tyco Electronics T77V1D10-24, Omron G5Q-14), resistors, capacitors, and integrated circuits, mounted on a green printed circuit board. Connectors for power, sensors, and output signals are visible, along with labels such as "BLOWER," "INDUCER," and "LED CODES" for diagnostic purposes.

4. SETUP AND INSTALLATION

Installation of the Trane CNT04717 Ignition Control Module should only be performed by a qualified HVAC technician. Refer to the specific appliance's service manual for detailed wiring diagrams and mounting instructions.

- 1. Power Disconnection:** Ensure all electrical power to the appliance is disconnected at the main service panel before beginning installation.
- 2. Access:** Locate and access the existing ignition control module within the appliance.
- 3. Removal:** Carefully disconnect all wires and mounting hardware from the old control module. Note the position of each wire for correct re-connection. Taking a photograph of the existing wiring can be helpful.
- 4. Mounting:** Mount the new Trane CNT04717 module in the same location and orientation as the old module, using appropriate fasteners.
- 5. Wiring:** Connect all wires to the new module according to the appliance's wiring diagram and the labels on the control board. Ensure connections are tight and secure. Pay close attention to connections for power, igniter, flame sensor, gas valve, and limit switches.
- 6. Verification:** Double-check all connections for accuracy before restoring power.

7. **Power Restoration:** Restore power to the appliance and observe the ignition sequence.
8. **Testing:** Perform operational checks as specified in the appliance's service manual to confirm proper function.

5. OPERATING INSTRUCTIONS

The Trane CNT04717 Ignition Control Module operates automatically as part of the appliance's heating cycle. Once installed and powered, it will initiate the following sequence:

1. **Call for Heat:** Upon receiving a call for heat from the thermostat, the control module begins its sequence.
2. **Inducer Fan Activation:** The inducer fan starts to purge combustion gases.
3. **Igniter Activation:** After a pre-purge period, the igniter (e.g., hot surface igniter or spark igniter) is energized.
4. **Gas Valve Opening:** Once the igniter reaches ignition temperature (or spark is established), the gas valve opens, allowing gas to flow to the burner.
5. **Flame Sensing:** The flame sensor detects the presence of a flame. If a flame is not detected within a specified time, the control will attempt re-ignition or enter a lockout state for safety.
6. **Main Blower Activation:** After a short delay, the main blower fan activates to distribute heated air.
7. **Cycle Completion:** The control monitors the flame and safety limits throughout the heating cycle. When the thermostat is satisfied, the gas valve closes, and the fans shut down after a cool-down period.

Diagnostic LED codes on the board (as indicated in Figure 1) can provide information on the control's status and any detected faults. Refer to the appliance's service manual for a detailed explanation of these codes.

6. MAINTENANCE

The Trane CNT04717 Ignition Control Module is a sealed electronic component and generally requires no routine maintenance. However, periodic inspection of its connections and the surrounding environment is recommended as part of overall appliance maintenance.

- **Visual Inspection:** During routine appliance servicing, visually inspect the control module for any signs of physical damage, corrosion, or overheating.
- **Wiring Integrity:** Ensure all wiring connections to the module are clean, tight, and free from fraying or damage.
- **Environmental Factors:** Keep the area around the control module clean and free from dust, debris, and moisture, which can affect electronic components.

If any issues are observed, consult a qualified technician for diagnosis and potential replacement.

7. TROUBLESHOOTING

If the appliance fails to ignite or operate correctly, consider the following general troubleshooting steps. Always refer to the appliance's specific service manual for detailed diagnostic procedures.

- **No Power:**
 - Check the circuit breaker or fuse for the appliance.
 - Verify that the thermostat is calling for heat.

- Ensure all wiring connections to the control module are secure.

- **No Ignition/Burner Fails to Light:**

- Check for proper gas supply to the appliance.
- Inspect the igniter for damage or proper operation (e.g., glowing hot surface igniter, visible spark).
- Verify the flame sensor is clean and positioned correctly in the flame path.
- Check for blockages in the flue or combustion air intake.

- **Burner Lights but Shuts Off Quickly (Short Cycling):**

- Clean the flame sensor. A dirty sensor may not detect the flame reliably.
- Check for proper grounding of the appliance and control module.
- Inspect for issues with limit switches or rollout switches.

- **Diagnostic LED Codes:**

- Observe any flashing LED lights on the control board. These codes indicate specific fault conditions.
- Consult the appliance's service manual for the interpretation of these LED codes.

If troubleshooting does not resolve the issue, it is recommended to contact a qualified HVAC service technician.

8. SPECIFICATIONS

Feature	Detail
Brand Name	Trane
Model Number	CNT04717
Part Number	CNT04717
Item Weight	10.4 ounces
Product Dimensions	5 x 9 x 9 inches
Batteries Required?	No
ASIN	B00ENLHVMC
Date First Available	August 15, 2013

9. WARRANTY AND SUPPORT

As a genuine Trane OEM replacement part, the CNT04717 Ignition Control Module is covered by Trane's standard warranty policy for replacement parts. Please refer to the official Trane website or contact your authorized Trane dealer for specific warranty terms and conditions.

For technical support, service, or to purchase additional genuine Trane parts, please contact an authorized Trane service provider or visit the official Trane website. Using genuine OEM parts ensures compatibility, safety, and maintains the performance and warranty of your Trane equipment.

Trane Official Website: www.trane.com

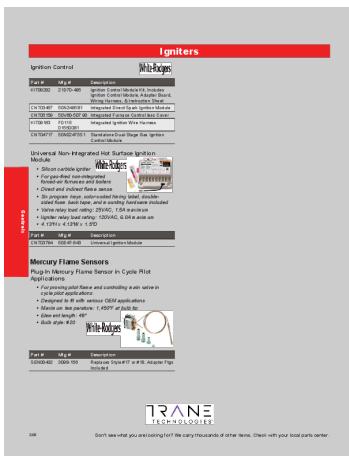
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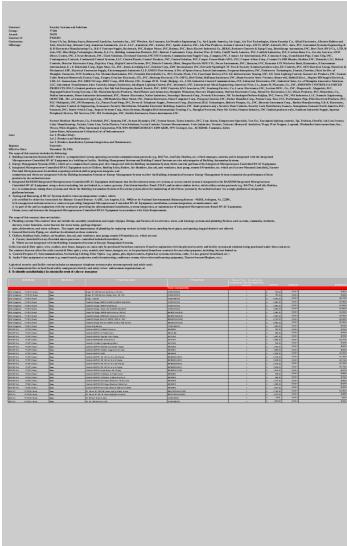


[pdf] Specifications

SPECIFICATION Venter Assembly with Gasket for Trane TUE060A936K3 Gas Furnace Service First Ferguson 708029 4535794 specification fergusonprod a bigcontent io v1 static |||

FALL 2018 LEVEL 1 1,000 Order Poker Chip Set 30 value LEVEL 2 2,000 Order Amazon Gift Card 60 ... 4 KIT15815 IFC Kit IFC, Igniter, Harness 195586 CNT07721 Integrated Furnace Control 2-Stg 49263 **CNT04717** Ignition Control Module 72364 CNT06424 HSI Control 2-Stg 194681 KIT17858 IFC Kit IFC, Ha...

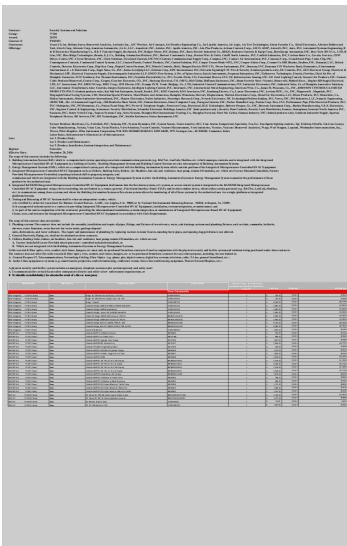
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[Trane Building Automation System \(BAS\) and HVAC Components Price List](#)

Comprehensive price list for Trane Building Automation Systems (BAS), HVAC equipment, and related components, including controllers, sensors, chillers, air handlers, and accessories. Details product codes, model numbers, and pricing for commercial and industrial applications.

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[Trane Building Automation and HVAC Systems: Contract Price List](#)

Comprehensive price list for Trane Building Automation Systems (BAS), Energy Management Systems (EMS), and HVAC equipment, including controllers, sensors, chillers, and air handlers, offered under Contract PT65823.

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