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## Trane Parts ADX100C948C2

# Trane ADX100C948C2 OEM Replacement Hot Surface Ignitor User Manual

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Trane ADX100C948C2 OEM Replacement Hot Surface Ignitor. This component is designed to replace original ignitors in various American Standard and Trane heating units. Adhering to these instructions will help ensure safe and efficient performance of your heating system.



**Image 1.1:** Official Trane OEM Component Stamp. This image confirms the authenticity of the replacement part, indicating it is an Original Equipment Manufacturer component designed for compatibility and reliability with Trane and American Standard systems.

## 2. SAFETY INFORMATION

**WARNING:** Installation and servicing of heating equipment can be hazardous and requires specialized knowledge and training. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Read and understand these instructions completely before proceeding.

- Always disconnect electrical power to the heating unit before installing or servicing the ignitor. Failure to do so can result in electrical shock or death.
- Ensure the gas supply to the unit is turned off before beginning any work.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Handle the ignitor carefully. The silicon-nitride material is fragile and can break if dropped or mishandled.
- Verify all connections are secure and correct before restoring power and gas.
- If you are unsure about any part of the installation process, consult a qualified HVAC technician.

### 3. PRODUCT OVERVIEW

The Trane ADX100C948C2 is an 80V silicon-nitride hot surface ignitor designed for reliable ignition in compatible heating systems. It comes as a complete kit, including the ignitor, a mounting bracket, and necessary screws for installation.



**Image 3.1:** The Trane ADX100C948C2 Hot Surface Ignitor. This image displays the silicon-nitride ignitor element, its wiring, and the included metal mounting bracket, which facilitates secure installation within the heating unit.

This OEM component is engineered to meet the exact specifications of American Standard and Trane units, ensuring optimal performance and longevity.

### 4. SETUP AND INSTALLATION

**IMPORTANT:** This procedure should only be performed by a qualified service technician.

#### 4.1 Pre-Installation Steps

1. **Disconnect Power:** Turn off all electrical power to the heating unit at the main service panel.
2. **Turn Off Gas:** Close the manual gas shut-off valve to the heating unit.

3. **Access Ignitor:** Open the furnace access panel to locate the existing ignitor.
4. **Inspect Old Ignitor:** Note the orientation and wiring connections of the old ignitor before removal.

## 4.2 Removal of Old Ignitor

1. Carefully disconnect the electrical connector from the old ignitor.
2. Unscrew and remove the old ignitor and its mounting bracket from the burner assembly.
3. Dispose of the old ignitor responsibly.

## 4.3 Installation of New Ignitor

1. Using the provided bracket and screws, mount the new Trane ADX100C948C2 ignitor in the same position and orientation as the old ignitor. Ensure it is securely fastened.
2. Connect the electrical connector from the furnace wiring harness to the new ignitor. Ensure the connection is firm and fully seated.
3. Double-check all connections and ensure no wires are pinched or in contact with hot surfaces.

## 4.4 Post-Installation Steps

1. Close the furnace access panel.
2. Restore the gas supply to the heating unit.
3. Restore electrical power to the heating unit at the main service panel.
4. Initiate a call for heat to verify proper operation of the new ignitor and the heating system. Observe the ignition sequence to ensure the ignitor glows and ignites the gas burner smoothly.

## 5. OPERATING PRINCIPLES

The hot surface ignitor is a critical component in modern gas furnaces. When a call for heat is initiated, the ignitor receives electrical current and rapidly heats up to a high temperature, glowing red hot. This incandescent surface then ignites the gas flowing from the burners. Once ignition is confirmed by the flame sensor, the ignitor's circuit is typically de-energized until the next heating cycle.

## 6. MAINTENANCE

The Trane ADX100C948C2 ignitor is designed for durability and typically requires minimal maintenance. However, regular inspection as part of annual furnace servicing is recommended.

- **Visual Inspection:** During annual furnace maintenance, visually inspect the ignitor for any signs of cracks, discoloration, or physical damage. A healthy ignitor should appear intact.
- **Cleaning:** Avoid direct cleaning of the ignitor element. Any dust or debris should typically burn off during operation. If excessive buildup is observed, consult a qualified technician for assessment.
- **Replacement:** Ignitors have a finite lifespan. If the ignitor fails to glow or ignite the burner consistently, it may need replacement.

## 7. TROUBLESHOOTING

If your heating system is experiencing issues related to ignition, consider the following common troubleshooting points. Always ensure power and gas are disconnected before inspecting components.

- **No Heat / Ignitor Not Glowing:**
  - Check for power to the furnace.
  - Verify the ignitor's electrical connection is secure.
  - Inspect the ignitor for visible cracks or damage. A damaged ignitor will not heat up.

- A multimeter can be used by a qualified technician to check for proper voltage (80V) at the ignitor terminals.

- **Ignitor Glows but No Ignition:**

- Ensure the gas supply is open and gas is reaching the burners.
- Check for proper ignitor positioning relative to the gas flow.
- Inspect burner orifices for blockages.
- The ignitor may be weak and not reaching sufficient temperature to ignite the gas.

- **Intermittent Ignition:**

- This could indicate a failing ignitor that is intermittently reaching ignition temperature.
- Check for loose wiring connections.
- A faulty flame sensor could also cause intermittent ignition issues.

For persistent issues, it is strongly recommended to contact a certified HVAC professional.

## 8. SPECIFICATIONS

<b>Part Number</b>	ADX100C948C2
<b>Type</b>	Hot Surface Ignitor (HSI)
<b>Material</b>	Silicon-Nitride
<b>Voltage</b>	80V
<b>Includes</b>	Ignitor, Mounting Bracket, Screws, Install Guide
<b>Replaces / Supersedes</b>	IGN104, IGN-104, IGN0104, IGN-0104, IGN00104, IGN117, IGN00117, IGN00145, IGN145, IGN0145, IGN-0145, IGN00117, IGN-0117, IGN0117, A341947P01, A341948P02, and others
<b>Brand</b>	Trane Parts (OEM Component)
<b>Country of Origin</b>	USA
<b>Item Weight</b>	368.54 g

## 9. WARRANTY AND SUPPORT

As an Original Equipment Manufacturer (OEM) component, the Trane ADX100C948C2 Hot Surface Ignitor is manufactured to high standards. Specific warranty terms are typically provided by the point of purchase or the manufacturer. Please retain your proof of purchase for any warranty claims.

For technical support or further assistance, please contact your authorized Trane or American Standard dealer or a qualified HVAC service provider.