Trane Parts ADD1B060A9361AD

American Standard & Trane ADD1B060A9361AD OEM Replacement Hot Surface Ignitor User Manual

Model: ADD1B060A9361AD

1. Introduction

This manual provides essential information for the safe and proper installation, operation, and maintenance of the American Standard & Trane ADD1B060A9361AD OEM Replacement Hot Surface Ignitor. This component is designed as a direct replacement part for various American Standard and Trane HVAC systems. Please read this manual thoroughly before attempting any installation or service.

2. Product Overview

The ADD1B060A9361AD is an Original Equipment Manufacturer (OEM) silicon-nitride hot surface ignitor. It operates at 80V and is supplied with a mounting bracket and screws for installation. This ignitor is a critical component in gas-fired furnaces, responsible for initiating the combustion process by heating to a high temperature and igniting the gas.



Figure 2.1: The Trane OEM Hot Surface Ignitor, showing the silicon-nitride ignitor element, wiring, and mounting bracket.



Figure 2.2: Packaging for the Trane OEM Hot Surface Ignitor, model ADD1B060A9361AD.



Figure 2.3: Official Trane OEM Component stamp, indicating a genuine product.

3. 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 electrical power to the furnace or HVAC unit before installing or servicing the ignitor to prevent electrical shock.
- Gas supply to the appliance must be shut off prior to installation or service.
- Installation and service should only be performed by a qualified HVAC technician.
- Handle the ignitor carefully. The silicon-nitride element is fragile and can be damaged by impact or contamination from skin oils. Avoid touching the ceramic part of the ignitor.
- Ensure all wiring connections are secure and correct according to the furnace manufacturer's specifications.
- Verify proper operation after installation, including gas ignition and flame sensing.

4. Installation Instructions

This ignitor is designed for replacement in compatible American Standard and Trane furnace models. Refer to your specific furnace's service manual for detailed instructions. The following is a general guide:

1. **Disconnect Power and Gas:** Turn off the electrical power to the furnace at the service panel and shut off the gas supply valve to the furnace.
2. **Access Ignitor:** Open the furnace access panel to locate the existing hot surface ignitor. It is typically located near the gas burners.
3. **Remove Old Ignitor:** Carefully disconnect the wiring harness from the old ignitor. Remove the screws or fasteners securing the ignitor and its bracket to the burner assembly. Gently pull the old ignitor out.
4. **Inspect Area:** Clean any debris or carbon buildup from the ignitor mounting area.
5. **Install New Ignitor:** Attach the new ADD1B060A9361AD ignitor to the mounting bracket using the provided screws, if necessary. Position the new ignitor in the same location and orientation as the old one. Secure the bracket with screws. Ensure the ignitor element is not touching any metal surfaces.
6. **Connect Wiring:** Connect the new ignitor's wiring harness to the furnace's control board or designated connector. Ensure a secure connection.
7. **Restore Power and Gas:** Close the furnace access panel. Restore the gas supply and then the electrical power to the furnace.
8. **Test Operation:** Initiate a call for heat at the thermostat. Observe the furnace's ignition sequence to ensure the ignitor heats up and ignites the gas burners properly.

5. Operating Principles

The hot surface ignitor is an automatic ignition device. When the thermostat calls for heat, the furnace control board sends voltage to the ignitor, causing its silicon-nitride element to heat up rapidly to a glowing temperature. Once the ignitor reaches the appropriate temperature, the gas valve opens, allowing gas to flow over the hot ignitor, which then ignites the gas. A flame sensor confirms ignition, and the ignitor then de-energizes.

6. Maintenance

Hot surface ignitors are generally considered wear-and-tear components and are not typically subject to routine maintenance. Their lifespan can vary depending on usage and environmental factors. It is recommended to have your HVAC system, including the ignitor, inspected annually by a qualified technician. During inspection, the technician can check for signs of cracking, discoloration, or other damage that may indicate impending failure.

7. Troubleshooting

If your furnace is not igniting, the hot surface ignitor may be a potential cause. Always consult a qualified HVAC technician for diagnosis and repair.

- **No Ignition / No Heat:** If the furnace fan runs but there is no ignition, the ignitor may be faulty. A technician can test the

ignitor for continuity and proper voltage.

- **Ignitor Glows, But No Ignition:** This could indicate a problem with the gas valve, flame sensor, or control board, rather than the ignitor itself.
- **Cracked or Damaged Ignitor:** Visually inspect the ignitor (after disconnecting power). Any visible cracks or damage to the ceramic element indicates a need for replacement.

Note: Attempting to diagnose or repair furnace issues without proper training and tools can be dangerous and may void warranties. Always contact a professional.

8. Specifications

Feature	Detail
Model Number	ADD1B060A9361AD
Part Type	Hot Surface Ignitor (HSI)
Ignitor Material	Silicon-Nitride
Voltage	80V
Includes	Bracket, Screws, Install Guide
Manufacturer	Trane Parts
Item Weight	13 ounces
ASIN	B09MWK9VBL

9. Replacement Part Compatibility

This ADD1B060A9361AD ignitor replaces or supersedes the following part numbers:

- IGN104, IGN-104
- IGN0104, IGN-0104
- IGN00104
- IGN117, IGN00117, IGN-0117, IGN0117
- IGN00145, IGN145, IGN0145, IGN-0145
- A341947P01
- A341948P02
- And others

This component is commonly found in hundreds of American Standard and Trane units. Always verify compatibility with your specific furnace model before purchase and installation.

10. Warranty and Support

As an Original Equipment Manufacturer (OEM) component from Trane Parts, this ignitor is subject to the manufacturer's standard warranty terms. For specific warranty details or technical support, please refer to the documentation provided with your furnace or contact a certified Trane or American Standard dealer or HVAC professional. Keep your purchase receipt for warranty claims.

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