

## MARS 67915

# MARS 67915 Furnace Replacement Ignitor: Installation and Operation Manual

Model: 67915 | Brand: MARS

## 1. INTRODUCTION

This manual provides essential information for the safe and correct installation, operation, and maintenance of the MARS 67915 Furnace Replacement Ignitor. This hot surface ignitor is designed to replace various original equipment manufacturer (OEM) ignitors in residential and commercial furnace systems. Please read this manual thoroughly before attempting any installation or service.

## 2. SAFETY INFORMATION

**WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Always disconnect electrical power to the furnace at the main service panel. Close the manual gas shut-off valve to the furnace.
- Turn off the gas supply to the furnace before performing any service to prevent gas leaks or explosions.
- Hot surface ignitors are fragile. Handle with extreme care to avoid breakage. Do not touch the black ignitor surface with bare hands, as oils can reduce its lifespan.
- Installation should only be performed by a qualified service technician.
- Ensure all wiring connections are secure and correct according to the furnace manufacturer's specifications.

## 3. PRODUCT OVERVIEW AND FEATURES

The MARS 67915 is a high-quality hot surface ignitor designed for reliable ignition in various furnace applications. It features a durable construction and is engineered to meet or exceed OEM specifications.



**Figure 1:** MARS 67915 Furnace Replacement Ignitor. This image displays the ignitor unit, which consists of a U-shaped black heating element attached to a ceramic base, with two brown wires and multiple white wires extending from the base, bundled together and terminating in a white connector.

### Key Features:

- Hot Surface Igniter technology for efficient and reliable ignition.
- Equipped with 36-inch leads and a connector for versatile installation.
- Direct replacement for numerous OEM ignitor models.

## 4. COMPATIBILITY

The MARS 67915 ignitor is designed as a direct replacement for the following models:

- Armstrong: 38322B001
- Clare: C-238, C-242
- DMO: 20834, 26789
- Dornback: 271W
- Rheem: 62-22441-01
- Trane: 340039P01, IGN23
- Uni-Line: 41-238, 41-242, 41-402
- White Rodgers: 767A-371
- Williamson: 09050

It is also used in specific Clare and ICP Equipment Models including: HEHE100S, HFHF100S, HEHF100, HEHF100S, HEHF100B, HEHF50, HEHF50B, HEHF80, HEHF80B, HEMB100, HEMB100B, HEMB110, HEMB110B, HEMB120, HEMB120B, HEMB130, HEMB130B, HEMB40, HEMB40B, HEMB50, HEMB50B, HEMB60, HEMB60B, HEMB70, HEMB70B, HEMB80, HEMB80B, HEMB90, HEMB90B.

Always verify compatibility with your specific furnace model and manufacturer's instructions before replacement.

## 5. INSTALLATION INSTRUCTIONS

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**IMPORTANT:** Installation should only be performed by a qualified HVAC technician. Failure to follow these instructions can result in property damage, personal injury, or death.

1. **Safety First:** Turn off all electrical power to the furnace at the main service panel. Close the manual gas shut-off valve to the furnace.
2. **Access Ignitor:** Locate and remove the furnace access panel(s) to expose the burner assembly and ignitor.
3. **Disconnect Old Ignitor:** Carefully disconnect the wiring harness from the old ignitor. Note the routing of the wires.
4. **Remove Old Ignitor:** Unscrew or unclip the old ignitor from its mounting bracket. Handle it gently as it may be fragile.
5. **Inspect Mounting:** Examine the mounting bracket for any damage or corrosion. Clean if necessary.
6. **Install New Ignitor:** Carefully mount the new MARS 67915 ignitor onto the bracket using the original hardware or suitable replacements. Ensure it is securely fastened and positioned correctly according to the furnace manufacturer's specifications. Avoid touching the black ignitor element.
7. **Connect Wiring:** Connect the new ignitor's wiring harness to the furnace control board or existing wiring, ensuring a secure and correct connection. The MARS 67915 comes with 36-inch leads and a connector for direct replacement.
8. **Secure Panels:** Replace all furnace access panels securely.
9. **Restore Power and Gas:** Open the manual gas shut-off valve. Restore electrical power to the furnace.
10. **Test Operation:** Initiate a call for heat at the thermostat and observe the furnace's ignition sequence to ensure the new ignitor glows and ignites the gas burner properly.

## 6. OPERATING PRINCIPLE

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The MARS 67915 is a hot surface ignitor. When the furnace calls for heat, the control board sends voltage to the ignitor, causing its silicon carbide element to heat up rapidly to a very high temperature (typically over 1800°F or 980°C). Once the ignitor reaches its optimal temperature, the gas valve opens, allowing gas to flow over the hot ignitor, which then ignites the gas. After successful ignition, the ignitor typically de-energizes, and the flame sensor confirms the presence of a flame.

## 7. MAINTENANCE

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The MARS 67915 ignitor is a sealed component and does not require routine user maintenance. However, regular professional furnace maintenance is recommended to ensure optimal performance and longevity of all furnace components, including the ignitor.

- During annual furnace inspections, a qualified technician should visually inspect the ignitor for cracks, discoloration, or signs of wear.
- Ensure the area around the ignitor and burner assembly is free from dust, debris, and obstructions.

## 8. TROUBLESHOOTING

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If your furnace is not igniting, and you suspect the ignitor, consider the following common issues. Always

ensure safety precautions are followed before any inspection.

- **Ignitor Not Glowing:**

- Check for power to the furnace.
- Verify wiring connections to the ignitor are secure.
- The ignitor itself may be faulty or broken. A qualified technician can test its resistance.

- **Ignitor Glows but No Ignition:**

- Check if the gas supply to the furnace is open.
- Ensure the ignitor is positioned correctly to ignite the gas stream.
- There might be an issue with the gas valve or furnace control board.
- The ignitor may not be reaching sufficient temperature to ignite the gas.

- **Furnace Cycles On and Off Rapidly:** This could indicate a problem with the flame sensor, which works in conjunction with the ignitor.

For complex issues, it is highly recommended to contact a certified HVAC professional.

## 9. SPECIFICATIONS

<b>Manufacturer:</b>	MARS
<b>Part Number:</b>	67915
<b>Item Weight:</b>	1 pound
<b>Color:</b>	Multicolor (referring to components)
<b>Item Package Quantity:</b>	1
<b>Leads:</b>	36 inches with connector
<b>ASIN:</b>	B00CD5ZPA0
<b>Date First Available:</b>	June 3, 2013

## 10. WARRANTY AND SUPPORT

Specific warranty details for the MARS 67915 ignitor are typically provided at the point of purchase or can be obtained directly from the manufacturer, MARS. Please retain your proof of purchase for warranty claims.

For technical support, product inquiries, or warranty service, please contact MARS customer service or your authorized MARS dealer.