

Goodman B1370145

Goodman B1370145 Furnace Burner Roll-Out Limit Switch User Manual

MODEL: B1370145



Image: Goodman brand logo, a red rectangle with "Goodman" written in white.

Introduction

This manual provides essential information for the installation, operation, and maintenance of the Goodman B1370145 Furnace Burner Roll-Out Limit Switch. This component is a genuine Original Equipment Manufacturer (OEM) part designed for compatibility with Goodman and Amana HVAC systems. Please read these instructions carefully before proceeding with any installation or service.

Safety Warning:

Installation and servicing of HVAC components should only be performed by qualified and experienced technicians. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Always disconnect power to the furnace before performing any work. Follow all local codes and regulations.

Product Overview

The Goodman B1370145 is a normally open, copper-contact limit switch designed to monitor temperatures within a furnace. Its primary function is to act as a safety device, tripping and shutting down the furnace if temperatures exceed a safe operating limit, typically due to a burner flame roll-out condition. This helps prevent potential hazards and damage to the equipment.



Image: A close-up view of the Goodman B1370145 Furnace Burner Roll-Out Limit Switch. It is a small, circular metal disc with two mounting holes and two electrical terminals, designed to detect overheating.

Setup and Installation

1. **Verify Compatibility:** Before installation, ensure that the Goodman B1370145 is the correct replacement part for your specific furnace model. Refer to your furnace's service manual or consult a qualified technician.



Image: A graphic with a stop sign and text emphasizing the importance of checking your model number before purchasing or installing parts to ensure compatibility.

2. **Power Disconnection:** **ALWAYS** turn off the electrical power to the furnace at the main service panel before attempting any installation or maintenance.
3. **Locate Existing Switch:** Identify the existing roll-out limit switch in your furnace. It is typically located near the burner assembly.
4. **Disconnect Wiring:** Carefully disconnect the electrical wires from the old switch. Note the orientation of the wires for correct re-connection.
5. **Remove Old Switch:** Unscrew or unclip the old limit switch from its mounting bracket.
6. **Install New Switch:** Mount the Goodman B1370145 in the same location and orientation as the old switch. The panel mount design facilitates secure installation.
7. **Connect Wiring:** Reconnect the electrical wires to the new switch's screw terminals. Ensure connections are secure and tight to ensure reliable conductivity.

8. **Verify Installation:** Double-check all connections and ensure the switch is securely mounted.
9. **Restore Power:** Once installation is complete and verified, restore power to the furnace.

This genuine OEM part ensures a perfect fit and compatibility with Goodman and Amana equipment, featuring durable copper contacts for reliable performance.

Operating Principles

The Goodman B1370145 operates automatically as a safety control. It is a "Normally Open" contact type, meaning that under normal operating conditions, the electrical circuit through the switch is open, allowing the furnace to function. If the temperature at the switch's location exceeds its calibrated limit (indicating a potential burner flame roll-out or other overheating condition), the switch will close, interrupting the furnace's control circuit and shutting down the burner. This automatic operation is crucial for preventing unsafe conditions.

Once tripped, the switch typically requires manual reset or a cool-down period before the furnace can operate again, depending on the specific furnace control board logic. Always investigate the cause of a tripped limit switch before resetting and restarting the furnace.

Maintenance

The Goodman B1370145 is a sealed component and does not require routine maintenance itself. However, regular maintenance of your furnace is essential to ensure the proper functioning of all safety devices, including this limit switch.

- **Annual Furnace Inspection:** Have your furnace inspected annually by a qualified HVAC technician. They will check for proper burner operation, heat exchanger integrity, and the functionality of all safety controls.
- **Cleanliness:** Ensure the area around the limit switch and burner assembly is free from dust, debris, and obstructions that could affect temperature sensing or airflow.
- **Wiring Integrity:** Periodically check the wiring connections to the limit switch for any signs of corrosion or looseness.

Troubleshooting

If your furnace is not operating and you suspect the roll-out limit switch has tripped, consider the following:

- **Furnace Not Firing:** If the furnace attempts to start but immediately shuts down, or does not start at all, a tripped limit switch could be the cause.
- **Resetting the Switch:** Some limit switches are auto-resetting, while others require a manual reset button (if present) or simply cooling down. Consult your furnace manual for specific reset procedures.
- **Identify the Cause:** A tripped roll-out limit switch indicates an underlying problem, such as:
 - Blocked flue or exhaust vent.
 - Cracked heat exchanger (**serious hazard!**).
 - Dirty or obstructed burners.
 - Improper gas pressure.
 - Faulty blower motor or restricted airflow.
- **Professional Diagnosis Required:** Do not repeatedly reset the switch without addressing the root cause. A tripped roll-out limit switch is a critical safety indicator. Contact a qualified HVAC technician immediately to diagnose and repair the underlying issue.
- **Incorrect Part:** Ensure the installed switch is the correct OEM part for your furnace model. An incorrect switch may not function properly or safely.

Specifications

Brand	Goodman
Model Number	B1370145
Product Dimensions (L x W x H)	6.2 x 3.1 x 2.9 inches
Item Weight	0.16 ounces
Contact Type	Normally Open
Connector Type	Screw
Operation Mode	Automatic
Actuator Type	Limit Switch
Contact Material	Copper
Circuit Type	1-way
International Protection Rating	IP00
Manufacturer	Goodman
Date First Available	March 6, 2017

Warranty Information

Specific warranty details for the Goodman B1370145 Furnace Burner Roll-Out Limit Switch are typically provided by the original seller or Goodman Manufacturing. Please retain your proof of purchase. For detailed warranty terms and conditions, refer to the documentation provided with your purchase or contact Goodman customer support directly.

Support

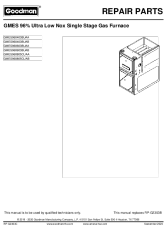





For technical assistance, installation questions, or troubleshooting beyond the scope of this manual, it is highly recommended to contact a qualified HVAC professional. You may also reach out to Goodman customer support for product-specific inquiries.

- **Goodman Manufacturing:** Visit the official Goodman website for contact information and support resources.
- **Qualified HVAC Technician:** For safe and effective service, always consult a certified HVAC technician for furnace repairs and component replacements.



© 2025 Goodman Manufacturing. All rights reserved. This manual is for informational purposes only. Goodman is not responsible for damages or injuries resulting from improper installation or use of this product.

Related Documents - B1370145

	<p>Goodman GMES 96% Ultra Low Nox Single Stage Gas Furnace Repair Parts List</p> <p>Comprehensive repair parts list and diagrams for the Goodman GMES 96% Ultra Low Nox Single Stage Gas Furnace, including part numbers, descriptions, and model applicability. Essential information for HVAC technicians.</p>
	<p>Goodman GMH95 40" 95% Gas Furnace Technical Manual</p> <p>Comprehensive technical manual for the Goodman GMH95 40" 95% Gas Furnace. Includes product identification, general operation, technical specifications, component details, wiring diagrams, blower performance data, and installation considerations for HVAC professionals.</p>
	<p>Goodman/Amana M9S96/C9S96 & M9S92 Gas Furnace Installation Instructions</p> <p>Comprehensive installation instructions for Goodman and Amana single-stage gas furnaces, models M9S96, C9S96, and M9S92. Covers safety, installation procedures, operation, and maintenance for Type FSP CATEGORY IV furnaces.</p>
	<p>Goodman CVC9/95 & MVC95 Two-Stage Gas Furnace Installation Instructions</p> <p>This document provides comprehensive installation instructions for Goodman and Amana CVC9/95 and MVC95 series two-stage gas furnaces. It details safety precautions, installation procedures, venting requirements, electrical connections, startup, and troubleshooting for professional installers.</p>
	<p>Goodman GSM & GSMS Sealed Combustion Condensing Furnace Installation & Operating Instructions</p> <p>Comprehensive installation and operating instructions for Goodman GSM and GSMS series sealed combustion condensing furnaces. Covers safety, installation procedures, combustion air, venting, gas piping, electrical connections, and maintenance.</p>
	<p>Goodman GMES96-U Ultra Low NOx Gas Furnace: Specifications & Features</p> <p>Explore the Goodman GMES96-U, an ultra-low NOx, single-stage, multi-speed ECM gas furnace with up to 96% AFUE. View specifications, dimensions, airflow data, and installation details.</p>