Goodman 9371VO-HS-0010

Goodman OEM Upgraded Replacement Furnace Vent Air Pressure Switch

Model: 9371VO-HS-0010

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Goodman OEM Upgraded Replacement Furnace Vent Air Pressure Switch, model 9371VO-HS-0010. This critical component is designed to monitor the vent air pressure within your furnace system, ensuring safe and efficient operation by verifying proper exhaust ventilation before the burner ignites.

Please read this manual thoroughly before attempting any installation or service to ensure correct procedures and personal safety.

2. Safety Information

Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

- **Disconnect Power:** Always disconnect electrical power to the furnace before installing or servicing the pressure switch to prevent electrical shock.
- **Qualified Personnel:** Installation and maintenance should only be performed by trained and qualified HVAC technicians.
- **Personal Protective Equipment (PPE):** Wear appropriate safety gear, including gloves and eye protection, during installation and service.
- **Verify Connections:** Ensure all electrical and hose connections are secure and correct before restoring power.
- **System Testing:** After installation, thoroughly test the furnace system to confirm proper operation of the

pressure switch and overall safety.

3. Product Overview

The Goodman 9371VO-HS-0010 is an upgraded OEM furnace air pressure switch. It is engineered for reliability and compatibility with Amana furnace systems. This switch features two wiring terminals for electrical connection and one hose port for pressure sensing, making it a direct replacement for the specified models.

Image of the Goodman 9371VO-HS-0010 furnace vent air pressure switch, showing its compact design with two electrical terminals and a single hose connection port.

4. Setup and Installation

Follow these steps for safe and proper installation of the pressure switch:

1. **Power Disconnection:** Turn off all electrical power to the furnace at the main service panel. Verify power is off using a voltage tester.
2. **Locate Existing Switch:** Identify the existing furnace pressure switch. Note its mounting position and how the wires and hose are connected.
3. **Disconnect Old Switch:** Carefully disconnect the two electrical wires from the terminals and remove the rubber hose from the port on the old pressure switch.
4. **Remove Old Switch:** Unmount the old pressure switch from its bracket or mounting location.
5. **Mount New Switch:** Securely mount the new Goodman 9371VO-HS-0010 pressure switch in the same location and orientation as the old one.
6. **Connect Hose:** Attach the rubber hose from the furnace's inducer motor or vent system to the single hose port on the new pressure switch. Ensure a snug fit.
7. **Connect Wiring:** Connect the two electrical wires to the two terminals on the new pressure switch. The

polarity for these connections is typically not critical, but ensure they are firmly attached.

8. **Restore Power and Test:** Restore electrical power to the furnace. Initiate a call for heat and observe the furnace's startup sequence to ensure the pressure switch functions correctly and the furnace operates safely.

5. Operating Principles

The furnace vent air pressure switch operates automatically as a safety device. When the furnace's inducer motor starts, it creates a negative pressure (vacuum) or positive pressure (depending on furnace design) in the vent system. The pressure switch senses this pressure change through the connected hose.

If the correct pressure differential is detected, indicating that the vent system is clear and exhaust gases can be safely expelled, the pressure switch closes its internal contacts. This closure signals the furnace control board that it is safe to proceed with the ignition sequence. If the proper pressure is not detected (e.g., due to a blocked vent, faulty inducer motor, or a cracked hose), the switch remains open, preventing the furnace from igniting and thus preventing the accumulation of dangerous combustion gases.

6. Maintenance

Regular inspection and maintenance can help ensure the longevity and reliable operation of your pressure switch and furnace system.

- **Annual Inspection:** Have a qualified technician inspect the pressure switch and its connections annually as part of routine furnace maintenance.
- **Hose Check:** Periodically inspect the rubber hose connected to the pressure switch for cracks, blockages, or deterioration. Replace if any damage is observed.
- **Port Cleanliness:** Ensure the pressure port on the switch and the connection point on the inducer motor are free from debris, rust, or condensation buildup.
- **Electrical Connections:** Verify that the electrical wires are securely attached to the switch terminals and show no signs of corrosion or damage.
- **Vent System:** Ensure the furnace's vent and exhaust system are clear of obstructions (e.g., bird nests, ice, debris) that could affect pressure readings.

7. Troubleshooting

If your furnace is not operating correctly and you suspect an issue with the pressure switch, consider the following common troubleshooting steps:

- **Furnace Not Starting:** If the furnace inducer motor runs but the burner does not ignite, the pressure switch may not be closing.
- **Check Hose:** Inspect the rubber hose for kinks, cracks, or blockages. A compromised hose will prevent accurate pressure sensing.
- **Verify Vent System:** Ensure the furnace's exhaust vent is clear and unobstructed. Blockages can prevent proper pressure from being established.
- **Electrical Connections:** Confirm that the wires are securely connected to the pressure switch terminals. Loose connections can interrupt the circuit.
- **Inducer Motor:** Ensure the inducer motor is operating correctly and generating sufficient draft. A weak or

faulty motor will not create the necessary pressure.

- **Error Codes:** Consult your furnace's main control board for any diagnostic error codes, which may indicate a specific issue related to the pressure switch or vent system.

If these steps do not resolve the issue, it is recommended to contact a qualified HVAC technician for further diagnosis and repair.

8. Specifications

Key technical specifications for the Goodman OEM Upgraded Replacement Furnace Vent Air Pressure Switch, model 9371VO-HS-0010:

Feature	Detail
Model	9371VO-HS-0010
Brand	Goodman
Switch Type	Pressure Switch
Operation Mode	Automatic
Contact Type	Normally Closed
Connector Type	Screw Terminals
Terminal Type	Screw
Material	Metal
Color	Black
Circuit Type	1-way
Mounting Type	Flush Mount
International Protection Rating	IP54
OEM Specification Met	Yes
Item Weight	3 Ounces
Approx. Package Dimensions (L x W x H)	8 x 6 x 10 inches