AMECA 755

AMECA Furnace Air Pressure Switch Model 755

Instruction Manual for Trane and American Standard Furnaces

1. Introduction

This manual provides essential information for the safe and effective use of the AMECA Furnace Air Pressure Switch, Model 755. This component is designed to monitor air pressure within your furnace system, ensuring proper operation and safety. It is compatible with various Trane and American Standard furnace models.



A close-up view of the AMECA Furnace Air Pressure Switch, showing its white plastic housing, metal mounting bracket, and various certification markings such as CE, SP US, and 'ORIGIN: USA'. The pressure port is visible on the side.

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 furnace before installing or servicing the pressure switch.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not bypass or tamper with safety devices.
- If you are unsure about any part of the installation process, consult a qualified HVAC technician.
- Wear appropriate personal protective equipment (PPE) during installation.

3. Compatibility

The AMECA Furnace Air Pressure Switch Model 755 is compatible with a wide range of Trane and American Standard

furnace models. Please verify your furnace model number against the list below to ensure compatibility.

Compatible Models:

- SWT2293
- SWT02293
- AUD080C924K4
- AUD080C936K0
- AUD080C936K1
- AUD080C936K2
- AUD080C936K4
- AUD080C948K0
- AUD080C948K1
- AUD080C948K2
- ADD040C924F0-F3 series
- ADD060C924F0-F3 series
- ADD060C936F0-F3 series
- ADD080C936F0-F3 series
- ADD080C945F0-F3 series
- ADD100C945F0-F3 series
- ADD100C948F0-F3 series
- ADD100C954F0-F3 series
- ADD120C954F0-F3 series
- ADD120C960F0-F3 series
- ADD140C960F0-F3 series
- ADD1A040A9241AA-AC series
- ADD1A060A9241AA-AC series
- ADD1A060A9361AA-AC series
- ADD1B060A9361AA-AC series
- ADD1B060A9H31AA-BC series
- ADD1B080A9361AA-AC series
- ADD1B080A9451AA-AC series
- ADD1B080A9H31AA-BC series
- ADD1B100A9451AA-AC series
- ADD1C100A9481AA-AC series
- ADD1C100A9541AA-AC series
- ADD1C100A9H51AA-BC series

4. Setup and Installation

This section provides general guidelines for replacing a furnace air pressure switch. Always refer to your specific furnace manufacturer's service manual for detailed instructions.

1. **Disconnect Power:** 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 current air pressure switch in your furnace. It is typically connected to a rubber

hose that leads to the inducer motor or exhaust vent.

3. **Note Connections:** Carefully observe and note the positions of the electrical wires and the rubber hose(s) connected to the old switch. Taking a photograph can be helpful.
4. **Remove Old Switch:** Disconnect the electrical wires and the rubber hose(s) from the old switch. Remove any mounting screws or clips securing the switch.
5. **Install New Switch:** Mount the new AMECA Model 755 pressure switch in the same location and orientation as the old one. Secure it with the appropriate fasteners.
6. **Connect Hoses and Wires:** Reconnect the rubber hose(s) to the correct ports on the new switch. Reattach the electrical wires to the terminals as noted in step 3. Ensure all connections are snug and secure.
7. **Restore Power and Test:** Restore electrical power to the furnace. Initiate a heating cycle and observe the furnace's operation to ensure the new pressure switch is functioning correctly.

5. Operation

The air pressure switch is a critical safety device in your furnace. Its primary function is to detect adequate airflow or proper venting before allowing the furnace's burner to ignite. When the inducer motor starts, it creates a negative pressure (vacuum) or positive pressure, which is sensed by the pressure switch through a connected hose. If the correct pressure is detected, the switch closes, signaling the control board that it is safe to proceed with the ignition sequence. If the pressure is not within the specified range (e.g., due to a blocked vent or faulty inducer motor), the switch remains open, preventing the furnace from igniting and ensuring safe operation.

6. Maintenance

Regular maintenance helps ensure the longevity and reliable operation of your furnace and its components. For the air pressure switch:

- **Annual Inspection:** During your annual furnace inspection, visually check the pressure switch and its connecting hose(s).
- **Hose Condition:** Ensure the rubber hose connecting the switch to the inducer motor or vent is free from cracks, kinks, or blockages. Clear any debris or condensation from the hose.
- **Connections:** Verify that all electrical and hose connections are secure.
- **Cleanliness:** Keep the area around the pressure switch clean and free of dust or lint accumulation.

7. Troubleshooting

If your furnace is experiencing issues related to 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 blockages (e.g., water, debris), cracks, or disconnections. A clogged or damaged hose can prevent the switch from sensing pressure correctly.
- **Vent Obstruction:** Ensure the furnace's exhaust vent is not blocked by debris, ice, or animal nests. An obstructed vent will prevent proper airflow and pressure.
- **Inducer Motor:** Verify that the inducer motor is operating correctly and generating sufficient airflow.
- **Faulty Switch:** If the hose and vent are clear, and the inducer motor is working, the pressure switch itself may be faulty and require replacement.

For complex issues or if you are unable to resolve the problem, it is recommended to contact a certified HVAC professional.

8. Specifications

Attribute	Detail
Manufacturer	AMECA
Part Number	755
ASIN	B0F1LJX9F6
Date First Available	March 16, 2025

9. Support and Contact

If you have any questions regarding the compatibility, installation, or operation of your AMECA Furnace Air Pressure Switch Model 755, please do not hesitate to contact us. We are committed to providing assistance as quickly as possible.

For support, please refer to the contact information provided by your retailer or the AMECA official website.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question