

Fasco A144

Fasco A144 York Furnace Draft Inducer Motor User Manual

Model: A144

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Fasco A144 York Furnace Draft Inducer / Exhaust Vent Venter Motor. Please read these instructions thoroughly before proceeding with any installation or service to ensure proper function and to prevent potential hazards.

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 power to the furnace before installing or servicing the draft inducer motor. Failure to do so can result in electrical shock or injury.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation and maintenance.
- Ensure all wiring connections are secure and comply with local electrical codes.
- This motor operates at high speeds. Keep hands and loose clothing clear of moving parts.
- Only qualified personnel should perform installation and service.

3. PRODUCT OVERVIEW

The Fasco A144 is a replacement draft inducer / exhaust vent venter motor designed for York furnaces. It is a critical component responsible for drawing combustion gases out of the furnace heat exchanger and venting them safely outside. This motor features a durable design for reliable performance in heating systems.

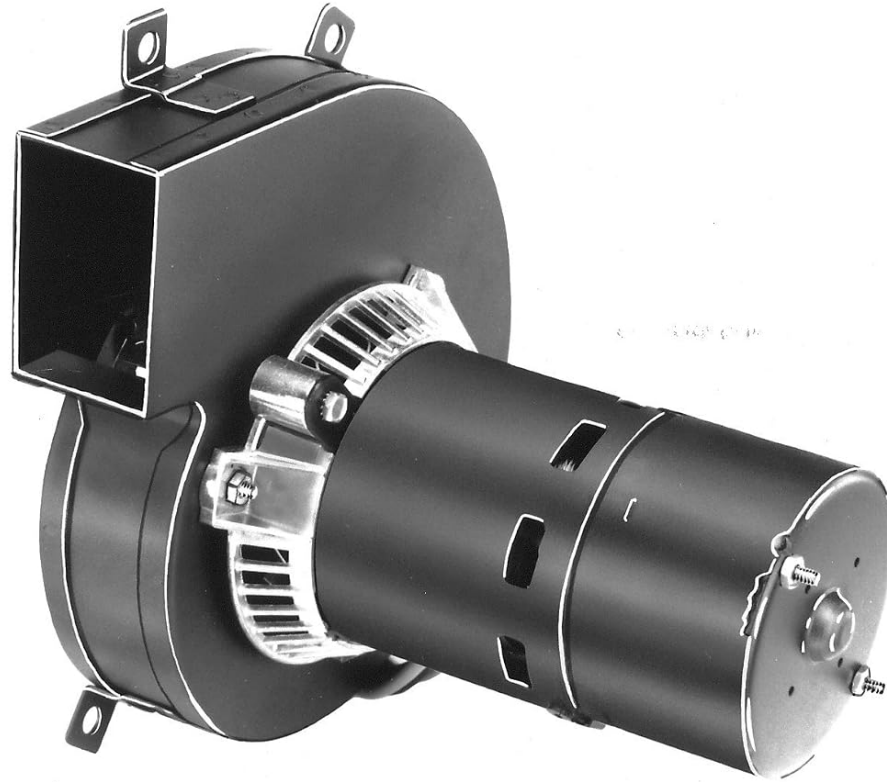


Figure 1: Fasco A144 Draft Inducer Motor. This image displays the Fasco A144 draft inducer motor, which consists of a black cylindrical motor unit connected to a black centrifugal blower housing with a square exhaust vent. Mounting tabs are visible on the housing.

4. SPECIFICATIONS

Feature	Specification
Voltage	208-230V
Amperage	0.5 Amp
Type	S.P. (Shaded Pole)
Speed	1 Speed, 3000 RPM
Bearings	Sleeve Bearings
Diameter	3.3 inches
Rotation	CW (Clockwise)
Product Dimensions	6 x 6 x 6 inches
Item Weight	10 pounds
Manufacturer	Fasco

Feature	Specification
Model Number	A144
Cross References	York 7021-6770, 024-24115-018, 705, 326-25999-000, 024-24115-017, RFB-144, 7021-9912, 4MH35, 4MH45, 7021-10282, 7121-10621, 024-24115-014, 026-29599-700

5. INSTALLATION / SETUP

IMPORTANT: Installation of this draft inducer motor should only be performed by a qualified HVAC technician. Incorrect installation can lead to furnace malfunction, carbon monoxide leaks, or other dangerous conditions.

- Power Disconnection:** Turn off all electrical power to the furnace at the main service panel. Verify power is off using a voltage meter.
- Access the Inducer:** Locate the existing draft inducer motor on your furnace. It is typically connected to the exhaust vent pipe.
- Disconnect Wiring:** Carefully disconnect the electrical wiring from the old motor, noting the position of each wire for correct re-connection. Take a photograph if necessary.
- Remove Old Motor:** Unbolt or unclamp the old draft inducer motor from the furnace housing and the exhaust vent pipe. Be prepared for potential residual water or debris.
- Inspect Gasket:** Inspect the gasket between the inducer housing and the furnace. Replace if damaged or worn to ensure an airtight seal.
- Install New Motor:** Mount the new Fasco A144 motor in the same position as the old one, ensuring it is securely fastened to the furnace housing and connected to the exhaust vent pipe.
- Connect Wiring:** Reconnect the electrical wiring to the new motor according to the previous configuration. Double-check all connections for tightness.
- Restore Power & Test:** Restore power to the furnace. Initiate a call for heat and observe the draft inducer motor's operation. Ensure it starts smoothly, runs quietly, and that exhaust gases are properly vented. Check for any unusual noises or vibrations.
- Check for Leaks:** After operation, visually inspect for any exhaust gas leaks around the inducer housing and vent connections.

6. OPERATING INSTRUCTIONS

The Fasco A144 draft inducer motor operates automatically as part of your furnace's combustion cycle. When the thermostat calls for heat, the furnace control board will energize the draft inducer motor. The motor's fan will create a negative pressure (draft) in the heat exchanger, pulling in fresh air for combustion and expelling exhaust gases. Once sufficient draft is established, a pressure switch will close, allowing the igniter and gas valve to activate, initiating the heating process. No manual operation is required for this component. Its function is entirely controlled by the furnace's internal safety and operational sequences.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your draft inducer motor. It is recommended to have your furnace, including the draft inducer, inspected annually by a qualified HVAC technician.

- Annual Inspection:** Have a qualified technician inspect the motor for signs of wear, corrosion, or damage.
- Clean Fan Blades:** Over time, dust and debris can accumulate on the fan blades, reducing efficiency. A technician can carefully clean the blades if necessary.

- **Check for Obstructions:** Ensure the exhaust vent pipe connected to the inducer is free from obstructions (e.g., bird nests, leaves).
- **Listen for Unusual Noises:** Pay attention to any grinding, squealing, or rattling noises from the motor, which could indicate bearing wear or other issues.
- **Verify Proper Venting:** Ensure that the furnace is venting combustion gases properly and that there are no signs of back-drafting.

8. TROUBLESHOOTING

If your furnace is not operating correctly, the draft inducer motor may be a contributing factor. Always consult a qualified HVAC technician for diagnosis and repair.

Problem	Possible Cause	Action
Motor does not start	No power, faulty wiring, seized motor, faulty control board, faulty pressure switch.	Check power supply. Verify wiring connections. Consult a technician to test motor and control components.
Motor runs but furnace does not ignite	Blocked vent, faulty pressure switch, faulty igniter, faulty gas valve.	Check for vent obstructions. Consult a technician to test pressure switch, igniter, and gas valve.
Unusual noises (grinding, squealing)	Worn bearings, debris in blower wheel, loose mounting.	Disconnect power immediately. Consult a technician for inspection and repair/replacement.
Motor cycles on and off rapidly	Blocked vent, faulty pressure switch, restricted airflow.	Check for vent obstructions. Consult a technician to diagnose pressure switch or airflow issues.

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Fasco A144 Draft Inducer Motor, please refer to the documentation provided by the original seller or contact Fasco directly. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

For technical support, troubleshooting assistance beyond this manual, or to locate authorized service providers, please contact the manufacturer or your HVAC professional.

Manufacturer: Fasco

Model: A144

Contact: Refer to Fasco's official website or product packaging for current contact information.

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

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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