

Fasco A984

Fasco A984 Draft Inducer Motor Instruction Manual

Model: A984

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Fasco A984 Draft Inducer Motor. The Fasco A984 is a replacement draft inducer blower motor assembly designed for use in various heating, ventilation, and air conditioning (HVAC) systems, specifically compatible with Miller furnace models requiring part numbers 341449, 7058-1023, J238-150, and 7058-2721.

Please read this manual thoroughly before attempting any installation or service to ensure proper function and to prevent potential hazards.

SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in property damage, serious injury, or death.

- **Disconnect Power:** Always ensure that the main power supply to the furnace or HVAC system is completely disconnected before beginning any installation, maintenance, or repair work. Verify power is off using a voltage meter.
- **Qualified Personnel:** Installation and servicing of this motor should only be performed by qualified and experienced HVAC technicians or electricians. Improper installation can lead to electrical shock, fire, or equipment malfunction.
- **Personal Protective Equipment (PPE):** Wear appropriate safety gear, including safety glasses and gloves, to protect against potential hazards during installation and handling.
- **Electrical Connections:** Ensure all electrical connections are secure and comply with local electrical codes. Incorrect wiring can cause electrical hazards or damage to the motor and system.
- **Exhaust System Integrity:** Verify that the flue exhaust system is free from obstructions and leaks after installation to prevent carbon monoxide hazards.
- **Hot Surfaces:** Motors and surrounding components can become hot during operation. Allow sufficient time for cooling before handling.

PRODUCT OVERVIEW

The Fasco A984 Draft Inducer Motor is a critical component in forced-air heating systems, responsible for drawing combustion gases out of the furnace heat exchanger and venting them safely through the flue. This unit is a shaded pole flue exhaust blower with ball bearings, designed for reliable performance.



Image 1: Front view of the Fasco A984 Draft Inducer Motor assembly, showing the blower housing and exhaust port with hose clamps.

Key features include:

- Single-speed operation
- CCWOSE (Counter-Clockwise Opposite Shaft End) rotation
- Ball bearing construction for durability
- Automatic overload protection
- C-Frame motor design



Image 2: Rear view of the Fasco A984 Draft Inducer Motor, showing the electrical motor housing and mounting points.

SPECIFICATIONS

Feature	Specification
Brand	Fasco
Model Number	A984
Speeds	1
Amps	2.63
Rotation	CCWOSE (Counter-Clockwise Opposite Shaft End)
RPM	3000
Bearings	Ball
Frame	C-Frame

Feature	Specification
Hertz	60 Hz
Voltage	115 Volts
Horsepower	0.07 HP
Product Dimensions	12.5"W x 10.5"H
Item Weight	7.02 pounds
UPC	663001334019

SETUP AND INSTALLATION

This section outlines the general steps for replacing an existing draft inducer motor. Specific furnace models may have variations. Always refer to your furnace manufacturer's service manual for detailed instructions.

1. **Power Disconnection:** Turn off the main power supply to the furnace at the circuit breaker or fuse box. Verify that power is off using a non-contact voltage tester.
2. **Access the Motor:** Locate the existing draft inducer motor on your furnace. This typically involves removing an access panel.
3. **Disconnect Wiring:** Carefully disconnect the electrical wiring from the old motor. Take photos or label wires to ensure correct re-connection.
4. **Remove Exhaust Piping:** Disconnect the exhaust piping or hoses from the inducer motor. Note their orientation.
5. **Remove Old Motor:** Unbolt or unmount the old draft inducer motor from the furnace housing.
6. **Inspect and Transfer Components:**
 - Inspect the mounting gasket for damage. Replace if necessary.
 - **Important:** Check the old motor for a restrictor plate (sometimes a small metal disc or ring) inside the exhaust port. If present, carefully remove it and transfer it to the new Fasco A984 motor. Failure to transfer this plate can affect furnace operation.
 - Compare the new Fasco A984 motor with the old one to ensure physical compatibility. Some installations may require minor adjustments to the mounting points or housing. In some cases, users have found it easier to separate the fan housing of the old and new units and use the old housing half if the new one does not seat properly.
7. **Mount New Motor:** Position the new Fasco A984 motor and secure it to the furnace housing using the appropriate bolts and gasket. Ensure a tight, airtight seal.
8. **Reconnect Exhaust Piping:** Reattach the exhaust piping or hoses to the new motor, ensuring all connections are secure and leak-free. Use new hose clamps if the old ones are corroded or damaged.
9. **Reconnect Wiring:** Connect the electrical wiring to the new motor, matching the connections made during removal. Double-check all connections for security and correctness.
10. **Restore Power and Test:** Replace any access panels. Restore power to the furnace. Initiate a heating cycle to test the operation of the new draft inducer motor. Listen for unusual noises and observe the furnace's ignition sequence.

OPERATING INSTRUCTIONS

The Fasco A984 Draft Inducer Motor operates automatically as part of your furnace's heating cycle. Once properly

installed, it will activate when the thermostat calls for heat, drawing combustion air into the burner and expelling exhaust gases. No manual intervention is required for its operation.

Ensure that the furnace's control board is functioning correctly and that all safety switches (e.g., pressure switches) are properly engaged for the inducer motor to operate.

MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your draft inducer motor and furnace system.

- **Annual Inspection:** Have a qualified HVAC technician inspect the draft inducer motor and the entire flue system annually. They can check for wear, corrosion, and proper function.
- **Cleanliness:** Ensure the area around the motor and its intake/exhaust ports remains free of dust, debris, and obstructions. Blockages can reduce efficiency and lead to premature motor failure.
- **Noise Monitoring:** Pay attention to any changes in the motor's operating sound. Unusual noises (grinding, squealing, rattling) can indicate worn bearings or other issues requiring attention.
- **Vibration Check:** Excessive vibration can indicate an imbalance or mounting issue. If noticed, consult a technician.

TROUBLESHOOTING

Before attempting any troubleshooting, ensure the power to the furnace is disconnected. If you are unsure about any step, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Motor does not start or run.	◦ No power supply. ◦ Faulty wiring connection. ◦ Pressure switch not closing. ◦ Motor seized or failed.	◦ Check circuit breaker/fuse. ◦ Verify all electrical connections are secure. ◦ Inspect pressure switch hose for blockages; check switch operation. ◦ If motor is new and not running, verify correct installation and wiring. If old, consider replacement.
Motor makes unusual noises (grinding, squealing).	◦ Worn bearings. ◦ Debris in blower wheel. ◦ Loose mounting.	◦ Motor likely needs replacement. ◦ Disconnect power and inspect blower wheel for obstructions. ◦ Ensure mounting bolts are tight.
Furnace not igniting after motor runs.	◦ Restrictor plate missing or incorrect. ◦ Pressure switch not sensing proper draft. ◦ Flue obstruction.	◦ Verify restrictor plate was transferred from the old motor. ◦ Check pressure switch hose and connections. ◦ Inspect flue for blockages.

WARRANTY AND SUPPORT

For information regarding the warranty of your Fasco A984 Draft Inducer Motor, please refer to the documentation provided with your purchase or contact Fasco customer support directly. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

For technical assistance, replacement parts, or further inquiries, please contact Fasco customer service or consult a certified HVAC professional.

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