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› Fasco Motors A225 Inducer Draft Motor Instruction Manual

Fasco A225

Fasco Motors A225 Inducer Draft Motor Instruction Manual

Model: A225

1. PRODUCT OVERVIEW

The Fasco A225 Inducer Draft Motor is a genuine replacement part designed for use in HVAC systems, specifically as a furnace inducer draft motor. This component is crucial for ensuring proper ventilation and combustion within a furnace by drawing combustion gases out of the heat exchanger and expelling them through the flue.

Key features include:

- **Manufacturer Model:** A225
- **Type:** Genuine Replacement Part
- **Brand:** Fasco Motors



Figure 1.1: Side view of the Fasco A225 Inducer Draft Motor. This image shows the motor housing, wiring connections, and the draft fan assembly.

2. SAFETY INFORMATION

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 or HVAC unit before attempting any installation, maintenance, or repair.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure all electrical connections are secure and comply with local electrical codes.
- Verify that the replacement part matches the original specifications to ensure proper system function and safety.
- Refer to the furnace manufacturer's specific instructions for your unit.

3. PACKAGE CONTENTS

The package for the Fasco A225 Inducer Draft Motor typically includes:

- Fasco A225 Inducer Draft Motor (Blower assembly)
- *Note: Additional mounting hardware or gaskets may be required and are not always included. Please check your specific furnace requirements.*

4. SPECIFICATIONS

Attribute	Value
Brand	Fasco
Model Name	A225 7967017
Part Number	A225
Speed	3200 RPM
Voltage	115 Volts
Horsepower / Watts	115 Watts
Item Weight	6.05 pounds
Product Dimensions	1.5 x 2.5 x 3.5 inches
UPC	696738565555
Manufacturer	Fasco Motors

5. INSTALLATION / SETUP

This section provides general guidance for the installation of the Fasco A225 Inducer Draft Motor. Always refer to the specific installation instructions provided by your furnace manufacturer and consult a qualified HVAC technician if you are unsure about any steps.

1. **Power Disconnection:** Before beginning, ensure the main power supply to the furnace is completely disconnected at the circuit breaker or fuse box. Verify with a voltage tester.
2. **Access the Inducer Motor:** Locate the existing inducer draft motor on your furnace. This typically involves removing access panels.
3. **Disconnect Wiring and Hoses:** Carefully disconnect all electrical wiring and any pressure switch hoses connected to the old inducer motor. Note the position and connection points of each wire and hose for reinstallation. Taking photos can be helpful.
4. **Remove Old Motor:** Unbolt or unfasten the old inducer motor from its mounting bracket or furnace housing. Be prepared for it to be heavy.
5. **Inspect and Clean:** Inspect the mounting area for any debris or corrosion. Clean as necessary. Ensure the new motor's gasket (if supplied or purchased separately) is properly seated.
6. **Install New Motor:** Position the new Fasco A225 Inducer Draft Motor in place and secure it with the appropriate bolts or fasteners. Ensure it is firmly mounted.
7. **Reconnect Wiring and Hoses:** Reconnect all electrical wiring and pressure switch hoses to the new motor, matching the connections noted during removal. Double-check all connections for security.

8. **Restore Power and Test:** Once all connections are secure and access panels are replaced, restore power to the furnace. Initiate a heating cycle to test the operation of the new inducer motor. Listen for unusual noises and observe for proper exhaust venting.

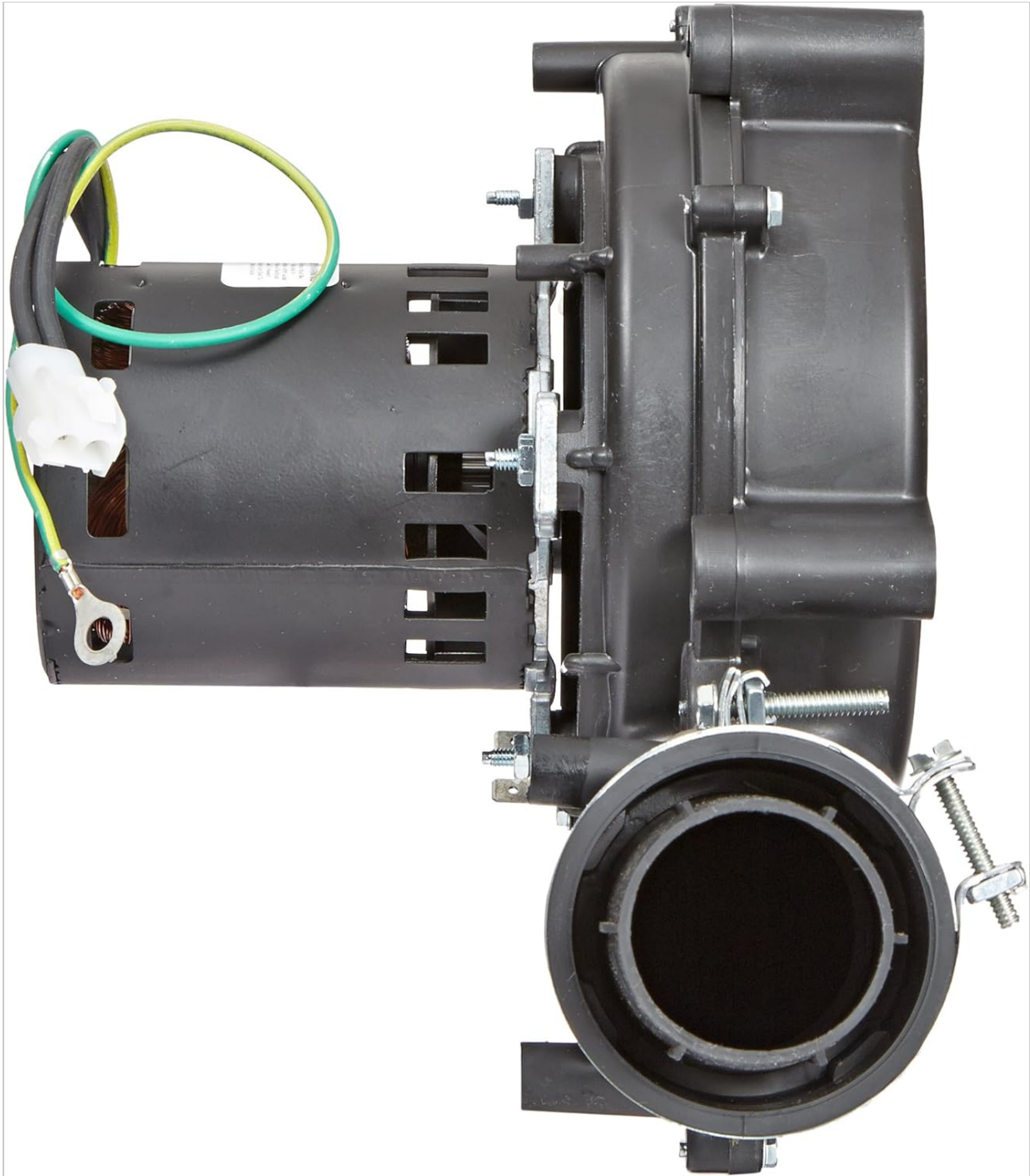


Figure 5.1: Close-up view of the Fasco A225 Inducer Draft Motor's fan housing and exhaust port. This shows the connection point for the exhaust flue.

6. OPERATION

The Fasco A225 Inducer Draft Motor operates automatically as part of your furnace's heating cycle. When the thermostat calls for heat, the furnace control board initiates the inducer motor. This motor creates a negative pressure (draft) in the combustion chamber, pulling fresh air for combustion and expelling exhaust gases.

- The motor should start before the main burner ignites.
- It will continue to run throughout the heating cycle.
- After the heating cycle completes, the motor may run for a short period to purge any remaining combustion gases.

Note: Abnormal noises (e.g., grinding, squealing) or failure to start indicate a potential issue that requires immediate attention.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your inducer draft motor and furnace. Always disconnect power before performing any maintenance.

- **Annual Inspection:** Have a qualified technician inspect the inducer motor annually as part of routine furnace maintenance.
- **Cleanliness:** Ensure the motor and fan housing are free from dust, debris, and obstructions. A build-up of lint or other materials can impede airflow and cause the motor to overheat.
- **Vibration Check:** Periodically check for excessive vibration during operation, which could indicate worn bearings or an unbalanced fan.
- **Wiring Integrity:** Inspect electrical connections for signs of wear, corrosion, or looseness.

8. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues related to the inducer draft motor. For complex problems, consult a qualified HVAC technician.

Problem	Possible Cause	Solution
Motor does not start	No power, faulty wiring, pressure switch issue, motor failure.	Check circuit breaker. Verify wiring connections. Inspect pressure switch hose for blockages. Test motor for continuity (requires specialized tools).
Loud grinding or squealing noise	Worn motor bearings, debris in fan housing.	Disconnect power and inspect fan for obstructions. If bearings are worn, motor replacement is typically required.
Motor runs but furnace does not ignite	Pressure switch not closing, blocked flue, faulty igniter.	Check pressure switch hose for blockages. Ensure flue is clear. Consult furnace manual for igniter troubleshooting.

Always disconnect power before inspecting or attempting repairs. If you are not comfortable performing these steps, contact a professional.

9. WARRANTY AND SUPPORT

Warranty: The Fasco A225 Inducer Draft Motor is indicated to have "No Warranty" by the manufacturer. Please verify warranty terms with your point of purchase or the manufacturer directly for the most current information.

Support: For technical assistance or inquiries regarding this product, please contact the seller or a qualified HVAC professional. The original seller for this product was Unlimited Electric Motor Supply.