

## Fasco A249

# Fasco A249 Lennox Draft Inducer Motor Instruction Manual

Model: A249

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective installation, operation, and maintenance of the Fasco A249 Lennox Draft Inducer Motor. This component is designed for use in HVAC furnace systems to facilitate the exhaust of combustion byproducts. Please read this manual thoroughly before attempting any procedures.

## 2. SAFETY INFORMATION

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**WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Refer to this manual. For assistance or additional information, consult a qualified installer, service agency, or the manufacturer.

- Always disconnect power to the furnace before servicing to prevent electrical shock.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Verify proper venting and exhaust pathways after installation.
- Do not operate the furnace if any components are damaged or improperly installed.

## 3. PRODUCT DESCRIPTION

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The Fasco A249 is a single-phase draft inducer blower motor, specifically designed as an OEM replacement for Lennox furnace systems. It features a shaded pole motor design, operating at a nameplate RPM of 3,400. This motor is engineered to ensure efficient and safe removal of combustion gases from the furnace heat exchanger, maintaining optimal system performance and safety. It is compatible with Lennox models requiring replacement parts 103618-01, 103618-03, 702112686, and 702113118.



| Feature                  | Specification                       |
|--------------------------|-------------------------------------|
| Nameplate RPM            | 3,400 RPM                           |
| Voltage                  | 115V AC                             |
| Full Load Amps           | 2.35 A                              |
| Frame                    | 3.3                                 |
| Motor Service Factor     | 1                                   |
| Motor Thermal Protection | Auto                                |
| Insulation Class         | B                                   |
| Max. Ambient Temp.       | 40 Degrees C                        |
| Motor Shaft Rotation     | CCWSE (Counter-Clockwise Shaft End) |
| Motor Enclosure Design   | Open Air Over                       |
| Product Dimensions       | 10"W x 6"H                          |
| Item Weight              | 6 Pounds                            |
| Country of Origin        | Mexico                              |

## 5. SETUP AND INSTALLATION

Installation of the Fasco A249 Draft Inducer Motor should only be performed by a qualified HVAC technician. Incorrect installation can lead to system malfunction, safety hazards, and voiding of warranties. The following steps are general guidelines; always refer to your specific furnace manufacturer's instructions for detailed procedures.

- Power Disconnection:** Turn off all electrical power to the furnace at the main service panel.
- Access:** Open the furnace access panel to locate the existing draft inducer motor.
- Disconnection:** Disconnect all electrical wiring and any attached hoses or ducts from the old motor. Note the orientation and connections for reassembly.
- Removal:** Unbolt and carefully remove the old draft inducer motor assembly.
- Installation of New Motor:** Position the new Fasco A249 motor in place, ensuring proper alignment. Secure it with the appropriate bolts.
- Connections:** Reconnect all electrical wiring, hoses, and ducts to the new motor. Double-check all connections for tightness and correct placement.
- Verification:** Ensure no tools or debris are left inside the furnace. Close the access panel.
- Power Restoration:** Restore electrical power to the furnace.
- Test Operation:** Initiate a heating cycle to verify the proper operation of the new draft inducer motor and the furnace system. Check for unusual noises or odors.

## 6. OPERATING INSTRUCTIONS

The Fasco A249 Draft Inducer Motor operates automatically as part of your furnace's heating cycle. When the thermostat calls for heat, the furnace control board activates the draft inducer motor. This motor creates a negative pressure (draft) within the heat exchanger, pulling combustion air into the burner and expelling exhaust gases out through the flue. Once sufficient draft is established and verified by the pressure switch, the igniter and gas valve are activated to begin the heating process. The motor

continues to run throughout the heating cycle and for a short period after the burners shut off to clear any remaining exhaust gases.

## 7. MAINTENANCE

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

- **Annual Inspection:** Have a qualified technician inspect the draft inducer motor annually as part of routine furnace maintenance.
- **Cleaning:** Periodically inspect the motor and impeller for dust, debris, or corrosion. Gently clean with a soft brush or vacuum if necessary. Ensure the motor's ventilation openings are clear.
- **Venting Check:** Ensure the exhaust vent pipe connected to the inducer motor is free from obstructions, cracks, or leaks.
- **Noise Monitoring:** Pay attention to any unusual noises (e.g., grinding, squealing, rattling) coming from the motor, which could indicate a bearing issue or impeller imbalance.
- **Electrical Connections:** Verify that all electrical connections to the motor are tight and free from corrosion.

## 8. TROUBLESHOOTING

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

| Problem                                | Possible Cause                                               | Solution                                                                                           |
|----------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Motor does not start                   | No power, faulty wiring, seized motor, faulty control board. | Check power supply. Inspect wiring. Consult technician for motor or control board replacement.     |
| Motor runs but furnace does not ignite | Blocked vent, faulty pressure switch, faulty igniter.        | Check vent for obstructions. Test pressure switch. Consult technician for igniter issues.          |
| Loud or unusual noises from motor      | Worn bearings, debris in impeller, loose mounting.           | Inspect for debris. Check mounting bolts. Motor replacement may be necessary if bearings are worn. |
| Motor runs continuously                | Faulty pressure switch, faulty control board.                | Consult technician to diagnose and replace faulty components.                                      |

## 9. WARRANTY AND SUPPORT

For specific warranty information regarding your Fasco A249 Draft Inducer Motor, please refer to the documentation provided at the time of purchase or contact Fasco customer support directly. Keep your proof of purchase for warranty claims. For technical support, installation guidance, or service, it is recommended to contact a certified HVAC professional or the manufacturer's authorized service center.

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