

[Manuals.plus](#) /

> [Fasco](#) /

> Fasco A221 Shaded Pole Blower Motor User Manual

Fasco A221

Fasco A221 Shaded Pole Blower Motor User Manual

Model: A221

INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Fasco A221 Shaded Pole Blower Motor. Please read this manual thoroughly before attempting to install or operate the unit. Retain this manual for future reference.

IMPORTANT SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect power before servicing. Installation and servicing should be performed by qualified personnel only.

- Always disconnect power to the appliance before installing, servicing, or cleaning the blower motor.
- Ensure all wiring connections comply with local and national electrical codes.
- Do not operate the motor if it is damaged or if any parts are missing.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- This motor is designed for specific purpose OEM replacement in gas or oil furnaces and heaters. Do not use for other applications.

SETUP AND INSTALLATION

The Fasco A221 blower motor is designed as an OEM replacement. Ensure the replacement motor matches the specifications of the original unit.

1. **Power Disconnection:** Turn off all electrical power to the furnace or heater at the main circuit breaker or fuse box. Verify power is off using a voltage tester.
2. **Access Old Motor:** Locate and access the existing blower motor within the appliance. This may involve removing access panels or covers.

3. **Disconnect Wiring:** Carefully disconnect the electrical wiring from the old motor. Note the position and color of each wire for correct re-connection. Take a photograph if necessary.
4. **Remove Old Motor:** Unmount and remove the old blower motor. This typically involves unscrewing mounting bolts or clamps.
5. **Install New Motor:** Position the Fasco A221 motor in the same location as the old unit. Secure it using the appropriate mounting hardware. Ensure the motor is firmly seated and aligned.
6. **Connect Wiring:** Reconnect the electrical wiring to the new Fasco A221 motor, ensuring all connections are secure and match the original configuration. This motor operates at 208-230V.
7. **Verify Rotation:** The motor has a counterclockwise shaft end rotation. Ensure this matches the requirement of your appliance.
8. **Replace Covers:** Reinstall any access panels or covers removed during the process.
9. **Restore Power:** Restore electrical power to the appliance.



Image: Fasco A221 Shaded Pole Blower Motor. This image shows the compact design of the motor with its electrical connections and mounting points.

OPERATING INSTRUCTIONS

Once properly installed, the Fasco A221 blower motor operates automatically as part of your furnace or heater system. It is designed to expel exhaust gases efficiently.

- Ensure the furnace or heater is receiving power and is set to the desired operating mode (e.g., heat).
- The motor will activate when the appliance calls for heat, initiating the draft induction process.
- Listen for smooth operation. Unusual noises may indicate an issue.
- The motor is designed for continuous duty within its specified operating parameters.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Fasco A221 blower motor.

1. **Annual Inspection:** At least once a year, inspect the motor for any signs of wear, damage, or corrosion. Check electrical connections for tightness.

2. **Cleaning:** Keep the motor and surrounding area free from dust, dirt, and debris. A build-up of contaminants can impede airflow and lead to overheating. Use a soft brush or vacuum cleaner for cleaning. **Always disconnect power before cleaning.**

3. **Bearing Check:** The motor features sleeve bearings. These are typically self-lubricating and do not require additional oiling under normal operating conditions. However, listen for any unusual noises that might indicate bearing wear.

4. **Airflow:** Ensure that the air intake and exhaust pathways of the appliance are clear and unobstructed to allow for proper airflow through the blower.

TROUBLESHOOTING

If you encounter issues with your Fasco A221 blower motor, refer to the following common problems and solutions. For complex issues, consult a qualified technician.

Problem	Possible Cause	Solution
Motor does not start	No power supply; Loose wiring; Faulty control board; Motor failure	Check circuit breaker/fuse; Verify all electrical connections are secure; Consult appliance manual for control board diagnostics; Replace motor if faulty.
Motor runs but makes excessive noise	Worn bearings; Obstruction in blower wheel; Loose mounting	Inspect for obstructions and remove; Check mounting bolts for tightness; If bearings are worn, motor replacement may be necessary.
Motor overheats and shuts off	Blocked airflow; Overload; Internal motor fault	Ensure air pathways are clear; Verify motor specifications match application requirements; If thermal protection trips repeatedly, motor may need replacement.

SPECIFICATIONS

Feature	Detail
Model Number	A221
Brand	Fasco
Motor Type	Shaded Pole Blower
Horsepower (HP)	1/40 HP
Voltage	208-230 Volts
Frequency	60 Hz
Amperage	0.55 Amps
RPM	3000 RPM

Feature	Detail
Frame Size	3.3 inches
Bearing Type	Sleeve Bearing
Rotation	Counterclockwise Shaft End
Protection	Thermally Protected
Certifications	UL recognized; CSA or ULc certified
Item Weight	6.75 pounds
Product Dimensions	6 x 6 x 6 inches

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact Fasco customer support directly. Keep your proof of purchase for warranty claims.

For technical assistance or further inquiries, please visit the official Fasco website or contact their customer service department. When contacting support, please have your model number (A221) and purchase details ready.

Note: Protection plans may be available from your retailer. These are separate from the manufacturer's warranty.

© 2023 Fasco. All rights reserved. Information in this manual is subject to change without notice.

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

Open the live page

<https://manuals.plus/asin/B000NMJQS2>

More documents and user manuals: <https://manuals.plus/>