

Fasco D602

Fasco D602 Blower Motor Instruction Manual

Model: D602

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Fasco D602 Blower Motor. Please read these instructions thoroughly before attempting to install or operate the motor. Retain this manual for future reference.

The Fasco D602 is a single-phase, single-speed blower motor designed for various applications requiring reliable air movement. It features a totally enclosed design, clockwise rotation, and a 1/4 x 2-1/4 inch shaft, making it suitable for specific blower and fan systems.

2. SAFETY INFORMATION

Adherence to these safety guidelines is crucial to prevent personal injury and damage to the equipment.

- **Disconnect Power:** Always ensure the power supply is disconnected before performing any installation, maintenance, or inspection procedures on the motor or connected equipment.
- **Electrical Safety:** All electrical wiring must be performed by a qualified electrician and comply with local and national electrical codes. Ensure proper grounding.
- **Moving Parts:** Keep hands, tools, and clothing clear of all moving parts during operation.
- **Personal Protective Equipment (PPE):** Wear appropriate safety glasses and gloves when handling or working near the motor.
- **Ventilation:** Ensure adequate ventilation around the motor to prevent overheating.
- **Environmental Conditions:** Do not operate the motor in environments with excessive moisture, corrosive gases, or explosive atmospheres unless specifically rated for such conditions.

3. SETUP AND INSTALLATION

Proper installation is vital for the motor's performance and longevity.

3.1 Unpacking and Inspection

Carefully remove the motor from its packaging. Inspect for any visible damage that may have occurred during shipping. If damage is found, contact your supplier immediately.

3.2 Mounting

The Fasco D602 motor features a 3.3-inch frame diameter and is designed for specific mounting configurations using its integrated studs. Ensure the mounting surface is stable, flat, and capable of supporting the motor's weight and operational forces. Secure the motor firmly to prevent vibration and misalignment.



Figure 1: Fasco D602 Blower Motor. This image displays the black cylindrical motor unit, highlighting the output shaft and the threaded mounting studs positioned around the motor's circumference.

3.3 Electrical Connection

The motor operates on 115 Volts and draws 0.9 Amps. Connect the motor to a power supply that matches these specifications. Ensure all wiring connections are secure and insulated. Refer to the motor's wiring diagram (if provided on the motor label) for specific connection details. Incorrect wiring can lead to motor damage or electrical hazards.

3.4 Shaft Connection

The motor is equipped with a 1/4 x 2-1/4 inch shaft. When connecting a fan blade or other load, ensure it is properly balanced and securely fastened to the shaft. Misalignment or imbalance can cause excessive vibration, noise, and premature bearing wear.

4. OPERATING INSTRUCTIONS

Once installed, the Fasco D602 motor is designed for straightforward operation.

- **Initial Start-up:** After ensuring all connections are secure and safety precautions are observed, apply power to the motor.
- **Normal Operation:** The motor will operate at 1500 RPM. Monitor for unusual noises, vibrations, or excessive

heat during the initial run.

- **Continuous Duty:** This motor is designed for continuous operation within its specified ratings.
- **Shut Down:** To turn off the motor, simply disconnect the power supply.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Fasco D602 motor.

- **Cleaning:** Periodically clean the exterior of the motor to prevent the buildup of dust, dirt, and debris, which can impede cooling and lead to overheating. Use a soft, dry cloth or compressed air.
- **Inspection:** Regularly inspect the motor for any signs of wear, loose connections, or damage to wiring. Check mounting bolts for tightness.
- **Bearings:** The Fasco D602 motor utilizes sleeve bearings. These are typically permanently lubricated and require no routine maintenance. Avoid disassembling the motor unless performed by qualified personnel.
- **Shaft and Load:** Ensure the connected load (e.g., fan blade) remains securely attached and balanced.

6. TROUBLESHOOTING

This section provides solutions to common issues. For problems not listed here, contact qualified service personnel.

Problem	Possible Cause	Solution
Motor does not start	No power supply; Incorrect wiring; Overload protection tripped	Check power source and circuit breaker; Verify wiring connections; Reset overload protection if applicable.
Motor overheats	Insufficient ventilation; Excessive load; Low voltage	Ensure clear airflow around motor; Reduce load if possible; Verify power supply voltage.
Excessive noise or vibration	Loose mounting; Unbalanced load; Worn bearings	Tighten mounting bolts; Balance or replace connected load; If bearings are worn, motor replacement may be necessary.
Motor runs slowly	Low voltage; Excessive load	Verify power supply voltage; Reduce load if possible.

7. SPECIFICATIONS

Brand	Fasco
Model Number	D602
Frame Diameter	3.3-Inch
Horsepower (HP)	1/50 HP (0.05 HP)
Revolutions Per Minute (RPM)	1500 RPM
Voltage	115 Volts

Amperage	0.9 Amp
Bearing Type	Sleeve Bearing
Phase	Single Phase
Speed	1 Speed
Rotation	CW (Clockwise)
Enclosure Type	Totally Enclosed
Shaft Dimension	1/4 x 2-1/4 inches
Motor Length	2-3/16 inches (Air over)
Material	Copper
Item Weight	0.16 ounces (approx. 4.54 g)
Product Dimensions	7.25 x 2.75 x 2.75 inches

8. WARRANTY AND SUPPORT

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

For technical support or further assistance, please visit the official Fasco website or contact their customer service department using the contact information provided on the product packaging or their website.

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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.

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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