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› Fasco D374 Blower Motor Instruction Manual

Fasco D374

Fasco D374 Blower Motor Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Fasco D374 Blower Motor. Please read this manual thoroughly before attempting any procedures to ensure proper function and to prevent potential hazards.

2. SAFETY INFORMATION

Warning: Electrical shock hazard. Disconnect power before servicing. Installation and maintenance should only be performed by qualified personnel.

- Always disconnect power to the motor and associated equipment before installation, maintenance, or troubleshooting.
- Ensure all wiring complies with local and national electrical codes.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Do not operate the motor if it is damaged or if any components are missing.
- Keep hands and loose clothing away from moving parts.

3. PRODUCT OVERVIEW

The Fasco D374 is a robust blower motor designed for various applications requiring reliable air movement. It features a durable construction and specific electrical characteristics for consistent performance.

Key Features:

- **Frame Diameter:** 4.4-Inch
- **Horsepower (HP):** 1/8 HP
- **Rotations Per Minute (RPM):** 1500 RPM
- **Voltage:** 115-volt
- **Amperage:** 4-Amp
- **Bearing Type:** Sleeve Bearing
- **Phase:** Single Phase (SP)

- **Speed:** 2 Speed
- **Rotation:** Clockwise (CW)
- **Ventilation:** Open Vent
- **Shaft Dimensions:** 3/8 x 2-1/2 inches
- **Motor Length:** 3-5/8-Inch



Figure 1: Fasco D374 Blower Motor. This image displays the Fasco D374 Blower Motor. The motor features a dark gray casing with visible copper windings through ventilation slots. A metal shaft extends from one end, and a product label with model number D374 and electrical specifications is affixed to the side.

4. SPECIFICATIONS

Specification	Value
Brand	Fasco
Model Name	D374
Speed	1500 RPM
Voltage	115 Volts

Specification	Value
Horsepower	0.13 Horsepower (1/8 HP)
Material	Copper
Item Weight	7.24 pounds
Product Dimensions	9.75 x 3.75 x 3.75 inches
Item Package Quantity	1

5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of the Fasco D374 Blower Motor. If you are not experienced with electrical installations, consult a qualified electrician or HVAC technician.

Installation Steps:

- Power Disconnection:** Ensure all power to the equipment where the motor will be installed is completely disconnected at the circuit breaker or fuse box. Verify with a voltage tester.
- Mounting:** Securely mount the motor in the intended position. Ensure the mounting is stable and can support the motor's weight and operational vibrations. The motor is designed with an open vent, so ensure adequate airflow around the motor for cooling.
- Shaft Connection:** Connect the blower wheel or fan blade to the motor shaft (3/8 x 2-1/2 inches) using appropriate fasteners. Ensure the connection is tight and balanced to prevent vibration.
- Wiring:** Connect the motor's electrical leads to the power supply according to the wiring diagram provided with your specific equipment or by a qualified electrician. The motor operates at 115-volt and has two speeds. Ensure correct wiring for the desired speed and rotation (Clockwise).
- Final Check:** Before restoring power, double-check all connections, mounting, and ensure no tools or debris are left near moving parts.
- Power Restoration:** Carefully restore power and observe the motor's initial operation for any unusual noises or vibrations.

6. OPERATING INSTRUCTIONS

The Fasco D374 Blower Motor is designed for continuous operation within its specified parameters. Once installed and wired correctly, operation typically involves activating the associated equipment's power switch.

- Initial Start-up:** Upon first activation, listen for any abnormal sounds. The motor should run smoothly.
- Speed Selection:** If wired for two speeds, ensure the correct speed setting is selected for your application. Refer to your equipment's control panel for speed adjustment.
- Continuous Operation:** The motor is designed for continuous duty. Monitor for signs of overheating or excessive noise during prolonged use.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Fasco D374 Blower Motor.

- Cleaning:** Periodically inspect and clean the motor's exterior, especially the ventilation openings, to prevent dust and debris buildup. Blocked vents can lead to overheating. Ensure power is disconnected before cleaning.

- **Bearing Inspection:** The D374 uses sleeve bearings. These bearings are typically pre-lubricated and sealed for life. Avoid disassembling the motor for lubrication unless specifically instructed by a Fasco service manual.
- **Vibration Check:** Regularly check for excessive vibration, which can indicate an unbalanced blower wheel, worn bearings, or loose mounting. Address any vibration issues promptly.
- **Wiring Inspection:** Annually inspect electrical connections for tightness and signs of wear or corrosion.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with the Fasco D374 Blower Motor. Always disconnect power before performing any troubleshooting steps.

Problem	Possible Cause	Solution
Motor does not start	No power supply Incorrect wiring Overload protection tripped Motor seized	Check circuit breaker/fuse Verify wiring connections Reset overload protector Inspect for obstructions, replace motor if seized
Motor runs but makes excessive noise	Unbalanced blower wheel Worn bearings Loose mounting Foreign object in blower	Inspect and balance blower wheel Replace motor if bearings are worn Tighten mounting bolts Remove obstruction
Motor overheats	Blocked ventilation Overload condition Incorrect voltage	Clean motor vents Reduce load on motor Verify supply voltage matches motor rating
Motor vibrates excessively	Unbalanced blower wheel Loose mounting Bent shaft	Inspect and balance blower wheel Tighten mounting bolts Replace motor if shaft is bent

9. WARRANTY AND SUPPORT

For warranty information, please refer to the official Fasco website or contact Fasco customer support directly. Keep your purchase receipt as proof of purchase.

For technical assistance or further inquiries, please visit the [Fasco official website](#) or contact their authorized service centers.

ASK A QUESTION ABOUT THIS MANUAL

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Question

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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