

Fasco D140

Fasco D140 Ventilator and Unit Heater Motor Instruction Manual

Model: D140

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Fasco D140 Ventilator and Unit Heater Motor. Please read this manual thoroughly before installation and operation, and retain it for future reference.

The Fasco D140 is a 5.0-inch shaded pole motor designed for ventilator and unit heater applications. It features a 1/15 HP motor, operates at 115 Volts, and has a single speed of 1050 RPM. The motor includes an OAO (Open Air Over) enclosure and CWSE (Clockwise Shaft End) rotation with sleeve bearings.

2. SAFETY INSTRUCTIONS

WARNING: Electrical shock hazard. Disconnect power before servicing.

Always follow basic safety precautions to reduce the risk of fire, electric shock, and injury to persons, including the following:

- Ensure all electrical connections comply with local codes and ordinances.
- Do not operate the motor with a damaged cord or plug.
- Do not immerse the motor in water or other liquids.
- Keep hands, hair, and loose clothing away from moving parts.
- Only qualified personnel should perform installation and maintenance.
- Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves.

3. SETUP AND INSTALLATION

Before installation, inspect the motor for any shipping damage. Ensure the mounting surface is stable and capable of supporting the motor's weight.

3.1 Mounting the Motor

The Fasco D140 motor is designed for specific mounting configurations. Refer to the original equipment manufacturer's instructions for proper mounting within the ventilator or unit heater assembly.

Shaft Orientation: The motor features CWSE (Clockwise Shaft End) rotation. Ensure this matches the application requirements.

Shaft Dimensions: The shaft measures 3/8-inch in diameter and 2-3/8-inch in length. Confirm compatibility with the fan blade or impeller.



Figure 1: Fasco D140 motor showing the main body, shaft, and mounting points. This image illustrates the overall design and physical characteristics of the motor.

3.2 Electrical Connection

Ensure the power supply matches the motor's voltage requirements (115 Volts). Connect the motor wiring according to the wiring diagram provided with your specific unit heater or ventilator. If no diagram is available, consult a qualified electrician.

- Disconnect all power before making electrical connections.
- Use appropriate wire gauges for the motor's amperage (2.7 Amps).
- Secure all connections to prevent loosening during operation.

4. OPERATING INSTRUCTIONS

Once the motor is properly installed and wired, it is ready for operation.

1. Ensure all safety guards are in place and secured.
2. Restore power to the unit.

- 3. Activate the unit's power switch or control system.
- 4. Observe the motor for smooth operation, unusual noises, or vibrations during the initial startup.

The Fasco D140 operates at a single speed of 1050 RPM. No speed adjustments are available on the motor itself.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Fasco D140 motor.

5.1 Cleaning

Periodically clean the motor's exterior to prevent dust and debris buildup, which can impede cooling. Use a soft, dry cloth or a vacuum cleaner with a brush attachment. Do not use water or solvents.

5.2 Lubrication

The Fasco D140 motor utilizes sleeve bearings. These bearings are typically pre-lubricated and sealed for life, requiring no additional lubrication under normal operating conditions. If the motor exhibits unusual noise or resistance, consult a qualified technician.

5.3 Inspection

Annually inspect the motor for:

- Loose mounting bolts.
- Damaged wiring or insulation.
- Excessive vibration or noise.
- Signs of overheating (discoloration, burnt smell).

Address any issues promptly to prevent further damage.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Fasco D140 motor.

Problem	Possible Cause	Solution
Motor does not start	No power supply Incorrect wiring Motor overload	Check power source and circuit breaker Verify wiring against diagram Check for obstructions or excessive load on fan/impeller
Motor runs hot	Insufficient ventilation Overload Bearing failure	Ensure clear airflow around motor Reduce load if possible Consult a qualified technician for bearing inspection
Excessive noise or vibration	Loose mounting Unbalanced fan/impeller Worn bearings	Tighten mounting bolts Inspect fan/impeller for damage or imbalance Consult a qualified technician for bearing inspection

If troubleshooting steps do not resolve the issue, contact Fasco customer support or a qualified service technician.

7. SPECIFICATIONS

Key technical specifications for the Fasco D140 Ventilator and Unit Heater Motor:

- **Model:** D140
- **Horsepower (HP):** 1/15 HP
- **Voltage:** 115 Volts
- **RPM:** 1050 RPM
- **Speed:** 1 Speed
- **Amperage:** 2.7 Amps
- **Enclosure:** OAO (Open Air Over)
- **Rotation:** CWSE (Clockwise Shaft End)
- **Bearing Type:** Sleeve Bearing
- **Body Length:** 2-5/8 inches
- **Shaft Dimensions:** 3/8 inch x 2-3/8 inches
- **Material:** Copper
- **Item Weight:** Approximately 0.16 ounces (product data shows conflicting weights, refer to packaging for accurate weight)
- **Package Dimensions:** 10.9 x 5.5 x 5.4 inches

8. WARRANTY INFORMATION

Fasco products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Fasco website. Retain your proof of purchase for warranty claims.

9. CUSTOMER SUPPORT

If you have any questions regarding the installation, operation, or maintenance of your Fasco D140 motor, please contact Fasco customer support. Contact information can typically be found on the product packaging or the official Fasco website.

Online Resources: For additional information and support, visit the [Fasco official website](#).