

Fasco D1100

Fasco D1100 Shaded Pole OEM Replacement Motor Instruction Manual

Model: D1100 | Brand: Fasco

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Fasco D1100 Shaded Pole OEM Replacement Motor. This motor is designed as an OEM replacement for specific applications, including Loren Cook 7173-1580, GC/GN, 142/144 units. Please read all instructions carefully before proceeding with installation or operation.

IMPORTANT SAFETY WARNINGS

- ELECTRICAL SHOCK HAZARD:** Always disconnect power before installing, servicing, or performing any maintenance on the motor. Failure to do so can result in severe injury or death.
- GROUNDING:** The motor **MUST BE GROUNDED** in accordance with all local and national electrical codes to prevent possible injury due to electrical shock.
- QUALIFIED PERSONNEL:** Installation and servicing should only be performed by qualified and licensed electricians or technicians.
- THERMAL PROTECTION:** This motor is thermally protected. If the motor overheats, it will shut off automatically and restart once it cools down. Investigate the cause of overheating if this occurs frequently.
- ROTATING PARTS:** Keep hands, tools, and clothing clear of rotating parts during operation.

PRODUCT SPECIFICATIONS

Feature	Detail
Model Number	D1100

Feature	Detail
Brand	Fasco
Motor Type	Shaded Pole
Horsepower (HP)	1/50 HP
Voltage	115V
Frequency	60 Hz
Amperage (Full Load)	1.2/0.7 amps
Speed Rating (RPM)	1550/900 rpm
Bearing Type	Sleeve Bearing
Shaft Diameter	5/16 inches
Shaft Length	2-3/8 inches
Motor Length	2-7/8 inches
Frame Size	3.3 inches
Rotation	Clockwise Shaft End
Certifications	UL Recognized; CSA Certified
OEM Replacement For	Loren Cook 7173-1580, GC/GN, 142/144

SETUP AND INSTALLATION

Before beginning installation, ensure all power to the equipment is disconnected at the main circuit breaker. Verify that the replacement motor specifications match the original motor's requirements.

- Power Disconnection:** Turn off and lock out the power supply to the equipment where the motor will be installed.
- Old Motor Removal:** Carefully disconnect wiring from the old motor, noting wire colors and connections. Remove mounting hardware and extract the old motor.
- New Motor Placement:** Position the Fasco D1100 motor in the mounting location. Ensure the shaft aligns correctly with the driven component (e.g., fan blade). The motor features a 5/16" diameter shaft with a 2-3/8" length.
- Mounting:** Secure the motor using appropriate mounting hardware. The motor has a 3.3" frame.
- Wiring Connections:**

Connect the motor wiring according to the equipment's wiring diagram and local electrical codes. This motor is designed for 115V, 60 Hz operation. Ensure proper grounding of the motor frame. The motor has multiple wires for different speeds (1550/900 rpm) and a ground wire. Refer to the specific wiring diagram for your application.



Image: Fasco D1100 Shaded Pole Motor. This image displays the motor's main body, output shaft, mounting studs, and the electrical wiring harness with a connector and a green ground wire. A safety warning label is visible on the motor casing.

6. **Verification:** Double-check all connections and mounting for security and correctness.

OPERATION

Once installed and wired correctly, the Fasco D1100 motor is ready for operation. This motor operates at 115V and offers two speed settings: 1550 rpm and 900 rpm, depending on the wiring configuration. The shaft rotation is clockwise when viewed from the shaft end.

- **Initial Start-up:** Restore power to the equipment. Observe the motor for smooth operation, unusual noises, or vibrations.

- **Speed Selection:** The operating speed (1550 rpm or 900 rpm) is determined by the electrical connections made during installation. Refer to your equipment's wiring diagram for specific speed selection instructions.
- **Thermal Protection:** The motor is equipped with thermal protection. If it becomes excessively hot, it will temporarily shut down to prevent damage. It will automatically restart once it has cooled sufficiently.

MAINTENANCE

The Fasco D1100 motor is designed for reliable operation with minimal maintenance. However, periodic checks can help ensure longevity and optimal performance.

- **Cleaning:** Periodically inspect the motor for dust and debris accumulation. Clean the exterior of the motor using a dry cloth or compressed air. Ensure ventilation openings are clear to prevent overheating.
- **Lubrication:** This motor features sleeve bearings. These bearings are typically pre-lubricated for the life of the motor and generally do not require additional lubrication. Consult the original equipment manufacturer's guidelines for any specific lubrication recommendations.
- **Vibration Check:** Listen for any unusual noises or vibrations during operation. Excessive vibration can indicate a problem with mounting, the driven component, or the motor itself.
- **Wiring Inspection:** Annually inspect all electrical connections for tightness and signs of wear or corrosion.

TROUBLESHOOTING

If the motor is not functioning as expected, refer to the following common issues and potential solutions. Always disconnect power before attempting any troubleshooting or repairs.

- **Motor Does Not Start:**
 - Check power supply: Ensure the circuit breaker is on and power is reaching the motor.
 - Verify wiring: Confirm all electrical connections are secure and correct according to the wiring diagram.
 - Thermal overload: If the motor recently shut down, it might be in a thermal overload state. Allow it to cool down. Investigate potential causes of overheating (e.g., restricted airflow, excessive load).
 - Shaft obstruction: Check if the motor shaft or the driven component (e.g., fan blade) is obstructed or seized.
- **Motor Runs Hot:**
 - Restricted airflow: Ensure the motor's ventilation openings are clear and not blocked.
 - Excessive load: Verify that the motor is not operating under a load greater than its rated capacity.
 - Incorrect voltage: Confirm the supply voltage matches the motor's 115V rating.
- **Excessive Noise or Vibration:**
 - Loose mounting: Check all mounting bolts and ensure the motor is securely fastened.
 - Driven component imbalance: Inspect the fan blade or other driven components for damage or imbalance.
 - Bearing wear: While sleeve bearings are durable, excessive noise could indicate wear.

If problems persist after following these steps, contact a qualified service technician.

WARRANTY AND SUPPORT

Specific warranty information for the Fasco D1100 motor is typically provided at the point of purchase or can be obtained directly from Fasco or an authorized distributor. Please retain your proof of purchase for warranty claims.

For technical support or further assistance, please contact Fasco customer service or your product supplier.

ASK A QUESTION ABOUT THIS MANUAL

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