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Lennox 59M51

Lennox 59M51 Blower Motor Instruction Manual

Model: 59M51

1. PRODUCT OVERVIEW

The Lennox 59M51 Blower Motor is a critical component designed for use in HVAC (Heating, Ventilation, and Air Conditioning) systems. Its primary function is to circulate air through the ductwork of a furnace or air handler, ensuring proper heating or cooling distribution throughout a building. This motor is engineered for reliable performance and compatibility with specific Lennox and Ducane furnace models.



Image: The Lennox 59M51 Blower Motor, a replacement component for HVAC systems. This image displays the motor's housing and electrical connections.

2. SAFETY INFORMATION

WARNING: Electrical Shock Hazard. Read and understand all safety instructions before installation, operation, or maintenance.

- Always disconnect power to the HVAC unit at the main breaker before performing any service or installation.
- Installation and service should only be performed by a qualified HVAC technician. Improper installation can result in property damage, personal injury, or death.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure all wiring connections are secure and comply with local and national electrical codes.
- Do not operate the blower motor if it is damaged or if any components are missing.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking. The package should typically include:

- Lennox 59M51 Blower Motor
- Instruction Manual (this document)
- *Additional mounting hardware or accessories may vary by specific application or supplier.*

4. INSTALLATION AND SETUP

This section provides general guidelines for the installation of the Lennox 59M51 Blower Motor. Due to the complexity and safety requirements, professional installation by a certified HVAC technician is strongly recommended.

1. **Power Disconnection:** Turn off all electrical power to the furnace or air handler at the main service panel. Confirm power is off using a voltage tester.
2. **Access Blower Compartment:** Open the access panel to the blower compartment.
3. **Disconnect Wiring:** Carefully label and disconnect all electrical wiring connected to the old blower motor. Take photos for reference if necessary.
4. **Remove Old Motor:** Unbolt or unmount the old blower motor from its housing. Note the orientation and mounting method.
5. **Install New Motor:** Mount the new Lennox 59M51 Blower Motor in the same orientation as the old one. Ensure it is securely fastened.
6. **Connect Wiring:** Reconnect all electrical wiring to the new motor, matching the labels or referring to your photos. Double-check all connections for tightness.
7. **Secure Compartment:** Close and secure the blower compartment access panel.
8. **Restore Power:** Restore electrical power to the HVAC unit at the main service panel.
9. **Test Operation:** Initiate a heating or cooling cycle to verify proper operation of the new blower motor. Listen for unusual noises and observe airflow.

Refer to your specific furnace or air handler's service manual for detailed, model-specific installation instructions.

5. OPERATION

The Lennox 59M51 Blower Motor operates automatically as part of your HVAC system's control sequence. When the thermostat calls for heating or cooling, the control board energizes the blower motor, which then draws air from the return ducts, pushes it across the heat exchanger or evaporator coil, and distributes the conditioned air through the supply ducts.

Proper operation is characterized by a consistent, smooth airflow and minimal operational noise. Any significant changes in noise level or airflow should be investigated.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your blower motor and HVAC system. Always disconnect power before performing maintenance.

- **Air Filter Replacement:** Regularly check and replace your HVAC system's air filter according to the manufacturer's recommendations (typically every 1-3 months). A clogged filter can restrict airflow, causing the blower motor to work harder and potentially overheat.
- **Blower Wheel Cleaning:** Periodically inspect the blower wheel for dirt and debris accumulation. A dirty blower wheel can become unbalanced, reduce airflow, and increase motor strain. Cleaning should be performed by a qualified technician.
- **Motor Inspection:** During routine HVAC system checks, a technician should inspect the motor for signs of wear, such

as unusual noises, vibrations, or excessive heat.

7. TROUBLESHOOTING

If you experience issues with your HVAC system's airflow, consider the following common troubleshooting steps. For complex issues, contact a qualified HVAC technician.

Symptom	Possible Cause	Solution
No airflow or weak airflow	◦ Clogged air filter ◦ Thermostat setting incorrect ◦ Power supply issue ◦ Blower motor failure ◦ Blower wheel obstruction	◦ Replace air filter ◦ Check thermostat settings ◦ Verify power to the unit and circuit breaker ◦ Contact technician for motor diagnosis/replacement ◦ Inspect blower wheel (power off)
Unusual noises (squealing, grinding)	◦ Worn motor bearings ◦ Loose blower wheel ◦ Debris in blower housing	◦ Contact technician for inspection and repair/replacement ◦ Contact technician for inspection and repair ◦ Inspect and clean blower housing (power off)
Motor runs intermittently or not at all	◦ Overheating (thermal overload) ◦ Faulty capacitor ◦ Control board issue ◦ Wiring problem	◦ Check for restricted airflow (filter) ◦ Contact technician for diagnosis and repair ◦ Contact technician for diagnosis and repair ◦ Contact technician for diagnosis and repair

8. SPECIFICATIONS

The following specifications are for the Lennox 59M51 Blower Motor. These are general specifications and may vary slightly based on manufacturing revisions.

- **Model:** 59M51
- **Brand:** Lennox
- **Item Weight:** 19.5 pounds
- **ASIN:** B005JUZ8I0
- **Manufacturer:** Lennox
- **Typical Application:** Automotive Replacement Blower Motor (also used in HVAC furnaces/air handlers)

9. WARRANTY AND SUPPORT

For warranty information and technical support regarding your Lennox 59M51 Blower Motor, please refer to the official Lennox website or contact Lennox customer service directly. Warranty terms typically cover defects in materials and workmanship for a specified period from the date of purchase. Keep your proof of purchase for warranty claims. For service or replacement parts, contact a certified Lennox dealer or HVAC professional.

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