

Lennox 98M39

Lennox 98M39 Variable Speed Fan Motor Instruction Manual

Model: 98M39

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Lennox 98M39 Variable Speed Fan Motor. This motor is designed for use in compatible HVAC systems, providing efficient and reliable air movement. Please read this manual thoroughly before proceeding with any installation or service.

The Lennox 98M39 is a 1/3 HP variable speed motor, engineered for optimal performance and energy efficiency in various heating, ventilation, and air conditioning applications.

SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Consult a qualified installer, service agency, or the manufacturer for information or assistance. The information contained in this manual is intended for use by qualified service personnel only.

- Always disconnect power to the unit before installing or servicing the motor.
- Allow at least 5 minutes after power is disconnected before opening the motor or accessing internal components, due to potential residual electrical charge.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure all wiring connections comply with local and national electrical codes.
- Do not operate the motor if it is damaged or has exposed wiring.



An image showing the Lennox 98M39 variable speed fan motor. The motor is cylindrical, dark gray, with a central shaft extending upwards. Multiple colored wires (red, blue, yellow, green, black) are bundled and connected to the top of the motor. A warning label indicating 'HIGH VOLTAGE' and instructions to allow 5 minutes after power disconnection before opening is visible on the side.

SETUP AND INSTALLATION

1. **Power Disconnection:** Ensure the main power supply to the HVAC unit is completely disconnected and locked out before beginning installation. Verify with a voltage meter.
2. **Access Motor Compartment:** Open the access panels to the fan motor compartment of your HVAC unit.
3. **Remove Old Motor:** Disconnect all wiring from the existing motor. Carefully remove the fan blade from the old motor shaft. A fan blade puller may be required for safe removal. Unmount the old motor from its housing.
4. **Inspect New Motor:** Visually inspect the new Lennox 98M39 motor for any shipping damage.
5. **Mount New Motor:** Install the new motor into the fan housing, ensuring it is securely fastened according to the HVAC unit's specifications.
6. **Install Fan Blade:** Carefully slide the fan blade onto the new motor shaft. Ensure it is properly aligned and secured.
7. **Wiring Connections:** Connect the motor wiring according to the specific wiring diagram provided with your HVAC unit or the motor itself. Pay close attention to color codes and terminal designations. The Lennox 98M39 typically features multiple colored wires for variable speed control. If no diagram is immediately available, consult the HVAC unit's service manual.
8. **Secure Wiring:** Ensure all wiring is neatly routed and secured to prevent contact with moving parts or sharp edges.
9. **Close Compartment:** Replace all access panels and secure them.
10. **Restore Power:** Restore power to the HVAC unit.

OPERATING INSTRUCTIONS

The Lennox 98M39 Variable Speed Fan Motor operates under the control of your HVAC system's main control board. Its operation is typically automatic and does not require direct user intervention once installed correctly.

- Upon system demand for heating, cooling, or continuous fan operation, the control board will send signals to the motor to adjust its speed.
- Variable speed motors provide precise airflow control, which can lead to improved comfort, humidity control, and energy efficiency.
- Monitor your HVAC system's performance after installation. Ensure proper airflow from vents and listen for any unusual noises.

MAINTENANCE

The Lennox 98M39 Variable Speed Fan Motor is designed for minimal maintenance. However, periodic checks of the overall HVAC system are recommended.

- **Annual Inspection:** During routine HVAC system maintenance, have a qualified technician inspect the motor for signs of wear, corrosion, or loose connections.
- **Cleanliness:** Ensure the motor and fan compartment remain free of excessive dust and debris, which can impede airflow and motor cooling.
- **Lubrication:** This motor is typically sealed and does not require field lubrication. Refer to the motor's specific label or the HVAC unit's manual for any lubrication requirements.

TROUBLESHOOTING

If you experience issues with your fan motor, consider the following common troubleshooting steps. For complex issues, contact a qualified HVAC technician.

Symptom	Possible Cause	Action
Motor does not start or run.	No power, faulty wiring, control board issue, motor failure.	Check power supply. Verify wiring connections. Consult HVAC technician for control board or motor diagnosis.
Unusual noises (grinding, squealing).	Fan blade imbalance, foreign object in fan, worn bearings (less common for new motor), motor malfunction.	Disconnect power and inspect fan blade for obstructions or damage. If noise persists, contact a qualified technician.
Reduced airflow.	Dirty air filter, blocked ducts, fan speed setting, motor operating at reduced capacity.	Check and replace air filter. Inspect ducts for blockages. Consult HVAC technician to verify motor operation and control board settings.

SPECIFICATIONS

Specification	Value
Brand	Lennox
Model	98M39 (also referred to as 98M3901)
Horsepower	0.33 HP (1/3 HP)
Material	Copper

Specification	Value
Item Weight	0.01 Ounces (Note: This weight may refer to packaging or a specific component, actual motor weight will be higher)
Type	Variable Speed Fan Motor

WARRANTY AND SUPPORT

For warranty information and technical support regarding your Lennox 98M39 Variable Speed Fan Motor, please refer to the documentation provided with your complete HVAC system or contact Lennox customer service directly. Keep your purchase receipt and model number readily available when contacting support.

Lennox official website: www.lennox.com

ASK A QUESTION ABOUT THIS MANUAL

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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