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Lennox 33w12

Lennox 33w12 Variable Speed Refrigerator Motor Instruction Manual

Model: 33w12 | Part Number: 10156401

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INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Lennox 33w12 Variable Speed Refrigerator Motor. Please read this manual thoroughly before attempting any installation or service to ensure proper function and to prevent potential hazards.



Figure 1: The Lennox 33w12 Variable Speed Refrigerator Motor. This image displays the compact design of the motor, typically used as a replacement part in refrigeration systems. It features a cylindrical body with mounting points and electrical connections.

SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in electric shock, fire, serious injury, or death.

- Always disconnect power to the appliance before installing, servicing, or removing the motor.
- Installation and service should only be performed by qualified and experienced technicians.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not operate the motor if it is damaged or has been exposed to water.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves, during installation and service.
- Keep children and pets away from the work area.

SETUP & INSTALLATION

Tools Required:

- Screwdrivers (Phillips and flathead)
- Wrench set
- Wire strippers/cutters
- Multimeter (for testing electrical connections)
- Safety glasses and gloves

Pre-Installation Steps:

1. **Disconnect Power:** Locate the circuit breaker for the refrigerator and turn it off. Verify power is off using a multimeter.
2. **Access Motor:** Refer to your refrigerator's service manual to locate and access the existing motor. This typically involves removing back panels or internal components.
3. **Document Connections:** Before disconnecting any wires, take clear photos or make a diagram of the existing wiring connections to ensure correct reassembly.

Motor Replacement:

4. **Remove Old Motor:** Carefully disconnect all electrical wires and mounting hardware securing the old motor. Remove the old motor from its position.
5. **Install New Motor:** Position the Lennox 33w12 motor in the same location as the old motor. Secure it using the appropriate mounting hardware. Ensure it is firmly seated and does not wobble.
6. **Connect Wiring:** Using your documented connections, carefully reattach all electrical wires to the new motor. Ensure each connection is tight and secure. Double-check for any loose wires or incorrect connections.
7. **Reassemble Appliance:** Replace any panels or components that were removed to access the motor. Ensure all screws and fasteners are tightened.

Post-Installation Checks:

1. **Visual Inspection:** Perform a final visual check to ensure all components are correctly installed and no tools or debris are left inside the appliance.
2. **Restore Power:** Turn the circuit breaker back on.
3. **Test Operation:** Observe the refrigerator's operation. Listen for unusual noises and verify that the motor is functioning as expected. Allow the appliance to run for a period to confirm proper cooling.

OPERATION

The Lennox 33w12 is a variable speed motor designed to operate as an integral component within your refrigerator's cooling system. Its operation is controlled by the refrigerator's main control board, which regulates the motor's speed based on cooling demands and temperature settings.

- **Automatic Control:** The motor's speed will automatically adjust to maintain optimal temperatures and energy efficiency.
- **Normal Sounds:** Expect a low hum during operation. Variable speed motors may exhibit slight changes in sound as their speed adjusts.
- **Continuous Operation:** The motor may run for extended periods, especially after initial power-up or if the refrigerator door is frequently opened. This is normal behavior for efficient cooling.

MAINTENANCE

The Lennox 33w12 motor is designed for long-term reliability with minimal maintenance. However, periodic inspection can help ensure its longevity and efficient operation.

- **Annual Inspection:** Annually, or as recommended by your refrigerator's manufacturer, inspect the motor area for dust and debris accumulation.
- **Cleaning:** If dust or debris is present, disconnect power to the refrigerator and carefully clean the motor and surrounding area using a soft brush or vacuum cleaner. Do not use water or liquid cleaners directly on the motor.
- **Check Connections:** While power is disconnected, visually inspect electrical connections for any signs of corrosion or looseness. Tighten if necessary.
- **Listen for Changes:** Pay attention to any changes in motor sound during normal operation. Unusual noises may indicate a potential issue.

TROUBLESHOOTING

If you experience issues with your refrigerator's cooling system after motor replacement, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Motor not running	No power; loose wiring; faulty control board; motor failure.	Check circuit breaker. Verify all wiring connections. Consult a qualified technician to test the control board and motor.
Unusual noises (grinding, squealing)	Obstruction in fan blades; worn bearings; motor defect.	Disconnect power and inspect for obstructions. If noise persists, motor may need replacement.
Refrigerator not cooling properly	Motor not running at correct speed; refrigerant issues; other component failure.	Ensure motor is running. If motor appears functional, consult a qualified technician for further diagnosis of the refrigeration system.

Note: For complex issues or if you are unsure about any step, it is highly recommended to contact a certified appliance repair technician.

SPECIFICATIONS

Feature	Detail
Brand	Lennox
Model Number	33w12
Part Number	10156401
Horsepower (HP)	1/2 HP
Motor Type	Variable Speed
Item Weight	12 pounds (approx. 5.44 kg)

Feature	Detail
Application	Refrigerator Replacement Motor

WARRANTY & SUPPORT

Manufacturer's Warranty:

The Lennox 33w12 motor is covered by a manufacturer's warranty. Specific warranty terms and duration may vary. Please refer to the warranty information provided with your original purchase documentation or contact Lennox customer service for details.

Keep your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Lennox customer support. You may find their contact information on the official Lennox website or on the product packaging.

When contacting support, please have your motor model number (33w12) and part number (10156401) readily available.