

## Lennox 43W85

# Lennox 43W85 Inducer Motor Assembly

## INSTRUCTION MANUAL

### 1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of the Lennox 43W85 Inducer Motor Assembly. This component is designed for use in compatible HVAC systems to facilitate the safe and efficient venting of combustion byproducts. Adherence to these instructions is crucial for optimal performance and safety. It is recommended that installation and servicing be performed by a qualified HVAC technician.



**Figure 1:** Lennox 43W85 Inducer Motor Assembly. This image displays the complete inducer motor assembly, including the motor housing, fan, and electrical connections, ready for installation into an HVAC unit.

## 2. Safety Information

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**WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Consult a qualified installer, service agency, or the gas supplier for information or assistance.

- Always disconnect electrical power to the HVAC unit before installing or servicing the inducer motor assembly.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure all wiring connections comply with local and national electrical codes.
- Do not operate the HVAC system if the inducer motor assembly is damaged or not functioning correctly.
- Keep children and pets away from the work area during installation and maintenance.

## 3. Installation

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Installation of the Lennox 43W85 Inducer Motor Assembly should only be performed by a certified HVAC technician. The following steps are a general guide and may vary based on the specific HVAC unit model.

1. **Power Disconnection:** Turn off all electrical power to the furnace or HVAC unit at the main service panel. Verify power is off using a voltage meter.
2. **Access Panel Removal:** Remove the furnace access panels to expose the inducer motor assembly.
3. **Disconnect Wiring:** Carefully disconnect the electrical wiring from the existing inducer motor. Note the position and color of each wire for correct re-connection.
4. **Remove Old Assembly:** Disconnect the exhaust vent pipe and any mounting hardware securing the old inducer motor assembly. Remove the old unit.
5. **Install New Assembly:** Position the new Lennox 43W85 Inducer Motor Assembly in place. Secure it with the appropriate mounting hardware.
6. **Connect Wiring:** Reconnect the electrical wiring to the new inducer motor assembly, ensuring all connections are secure and match the original configuration.
7. **Reconnect Vent Pipe:** Reattach the exhaust vent pipe to the new inducer motor assembly, ensuring a tight, leak-free seal.
8. **Replace Panels:** Reinstall the furnace access panels.
9. **Restore Power:** Restore electrical power to the HVAC unit.
10. **Test Operation:** Initiate a heating cycle to verify the proper operation of the new inducer motor assembly and check for any unusual noises or issues.

## 4. Operation

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The Lennox 43W85 Inducer Motor Assembly operates as an integral part of your HVAC system's combustion process. When a call for heat is initiated, the inducer motor activates to draw combustion air into the burner and push exhaust gases out through the vent system. This creates a negative pressure within the combustion chamber, which is necessary for safe and efficient ignition and burning. The motor will continue to operate throughout the heating cycle and typically run for a short period after the main burner shuts off to purge any remaining combustion gases.

## 5. Maintenance

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Regular maintenance helps ensure the longevity and efficient operation of your inducer motor assembly. It is recommended that these checks be performed annually by a qualified technician.

- **Visual Inspection:** Periodically inspect the inducer motor assembly for any signs of wear, corrosion, or damage. Check for loose wires or connections.
- **Cleanliness:** Ensure the fan blades and housing are free from debris, dust, or lint buildup, which can impede airflow and cause imbalance. Use a soft brush or vacuum cleaner for cleaning.
- **Noise Check:** Listen for any unusual noises (e.g., grinding, squealing, rattling) during operation, which could indicate a failing bearing or other mechanical issue.
- **Vent Pipe Inspection:** Verify that the exhaust vent pipe connected to the inducer motor is clear of obstructions and properly sealed.
- **Professional Service:** For any suspected issues or complex maintenance, contact a qualified HVAC technician. Do not attempt to disassemble the motor assembly yourself.

## 6. Troubleshooting

If you experience issues with your Lennox 43W85 Inducer Motor Assembly, consult the following troubleshooting guide. For safety and proper diagnosis, always contact a qualified HVAC technician for repairs.

Symptom	Possible Cause	Recommended Action
Inducer motor does not start	No power, faulty wiring, control board issue, seized motor.	Check circuit breaker. Verify electrical connections. Contact a qualified technician.
Unusual noise (grinding, squealing)	Worn bearings, debris in blower wheel, loose mounting.	Turn off power immediately. Contact a qualified technician for inspection and repair.
Motor runs but no exhaust flow	Blocked vent pipe, damaged blower wheel.	Inspect vent pipe for obstructions. Contact a qualified technician.
Motor cycles on and off rapidly	Pressure switch issue, blocked vent, control board fault.	Contact a qualified technician for diagnosis.

## 7. Specifications

Key technical specifications for the Lennox 43W85 Inducer Motor Assembly:

- **Brand:** Lennox
- **Model:** 43W85
- **Voltage:** 115 Volts
- **Speed:** 3000 RPM
- **Item Weight:** 8 Pounds
- **Product Dimensions:** 12 x 12 x 12 inches (approximate)
- **Manufacturer:** Lennox

## 8. Warranty Information

Warranty coverage for the Lennox 43W85 Inducer Motor Assembly is provided by the manufacturer, Lennox. Specific warranty terms, conditions, and duration may vary. Please refer to the warranty documentation included with your purchase or contact your authorized Lennox dealer or the seller for detailed information regarding warranty claims and service.

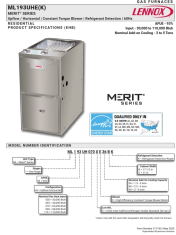

## 9. Customer Support




For technical assistance, service, or inquiries regarding the Lennox 43W85 Inducer Motor Assembly, please contact:

- Your authorized Lennox dealer or installer.
- Lennox Customer Service (refer to the official Lennox website for contact details).
- A qualified and certified HVAC technician.

When contacting support, please have your product model number (43W85) and any relevant purchase information readily available.

### Related Documents - 43W85

	<p><a href="#">Lennox ML193UHE(K) Gas Furnace Product Specifications</a></p> <p>Detailed product specifications, features, installation guidelines, and optional accessories for the Lennox ML193UHE(K) residential gas furnace. This document covers technical details, performance data, and model identification.</p>
	<p><a href="#">Lennox 59M03 Flue Transition Replacement Kit Installation Instructions</a></p> <p>Detailed installation guide for the Lennox 59M03 Flue Transition Replacement Kit, designed for G26, 90UGF, and G32 series HVAC units. Includes safety warnings, parts list, and step-by-step instructions for replacing the flue transition and adding a drain for the combustion air inducer.</p>
	<p><a href="#">Lennox Constant Torque Motor Replacement Kit Installation Guide (23C01-23C04)</a></p> <p>Step-by-step installation guide for Lennox Constant Torque Motor Replacement Kits (models 23C01, 23C02, 23C03, 23C04) for E model furnaces. Includes shipping list, application, safety warnings, and installation procedures.</p>

 <p>LENNOX INSTALLATION INSTRUCTIONS SLP99DFVK DAVE LENNOX SIGNATURE COLLECTION GAS FURNACE</p> <p><b>WARNING</b> READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS FURNACE. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DEATH, SERIOUS INJURY, OR PROPERTY DAMAGE.</p> <p><b>CAUTION</b> TO PREVENT INJURY, ALWAYS FOLLOW THE SAFETY RULES AND WARNINGS.</p> <p><b>NOTICE</b> FOR THE BEST PERFORMANCE OF THIS FURNACE, ALWAYS FOLLOW THE INSTALLATION INSTRUCTIONS.</p> <p>Table of Contents:      1. Safety Rules      2. Clearances      3. Ductwork      4. Venting      5. Gas Piping      6. Electrical Connections      7. Unit Setup      8. Operation      9. Maintenance      10. Troubleshooting      11. Index</p>	<p><a href="#">Lennox SLP99DFVK Gas Furnace Installation Instructions</a></p> <p>Comprehensive installation guide for the Lennox SLP99DFVK Dave Lennox Signature Collection Gas Furnace. Covers safety, setup, electrical, gas piping, venting, and troubleshooting for professional HVAC installers.</p>
 <p>LENNOX INTEGRATED CONTROL REPLACEMENT KIT 23C48 INSTALLATION INSTRUCTIONS</p> <p><b>WARNING</b> READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS KIT. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DEATH, SERIOUS INJURY, OR PROPERTY DAMAGE.</p> <p><b>CAUTION</b> TO PREVENT INJURY, ALWAYS FOLLOW THE SAFETY RULES AND WARNINGS.</p> <p><b>NOTICE</b> FOR THE BEST PERFORMANCE OF THIS KIT, ALWAYS FOLLOW THE INSTALLATION INSTRUCTIONS.</p> <p>Table of Contents:      1. Safety Rules      2. Clearances      3. Ductwork      4. Venting      5. Gas Piping      6. Electrical Connections      7. Unit Setup      8. Operation      9. Maintenance      10. Troubleshooting      11. Index</p>	<p><a href="#">Lennox Integrated Control Replacement Kit 23C48 Installation Instructions</a></p> <p>Installation guide for the Lennox Integrated Control Replacement Kit 23C48, providing step-by-step instructions and wiring diagrams for single-stage furnaces with constant torque indoor blower motors.</p>
 <p>LENNOX INSTALLATION INSTRUCTIONS EL280DFE ELITE SERIES GAS FURNACE</p> <p><b>WARNING</b> READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS FURNACE. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DEATH, SERIOUS INJURY, OR PROPERTY DAMAGE.</p> <p><b>CAUTION</b> TO PREVENT INJURY, ALWAYS FOLLOW THE SAFETY RULES AND WARNINGS.</p> <p><b>NOTICE</b> FOR THE BEST PERFORMANCE OF THIS FURNACE, ALWAYS FOLLOW THE INSTALLATION INSTRUCTIONS.</p> <p>Table of Contents:      1. Safety Rules      2. Clearances      3. Ductwork      4. Venting      5. Gas Piping      6. Electrical Connections      7. Unit Setup      8. Operation      9. Maintenance      10. Troubleshooting      11. Index</p>	<p><a href="#">Lennox EL280DFE Gas Furnace Installation Instructions</a></p> <p>Comprehensive installation guide for the Lennox EL280DFE Elite Series Gas Furnace, covering safety, clearances, ducting, venting, gas piping, electrical connections, unit setup, operation, and maintenance.</p>