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Emerson K55HXHGB-8639

Emerson OEM Replacement Furnace Blower Motor

Model: K55HXHGB-8639

Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Emerson OEM Replacement Furnace Blower Motor, Model K55HXHGB-8639. This motor is designed as a direct replacement for specific furnace applications, ensuring optimal performance and compatibility.

Safety Information

Always observe the following safety precautions to prevent injury or damage to the product and property.

- **Disconnect Power:** Before any installation, maintenance, or troubleshooting, ensure the main power supply to the furnace is completely disconnected at the circuit breaker or fuse box.
- **Qualified Personnel:** Installation and servicing should only be performed by qualified HVAC technicians or electricians.
- **Electrical Hazards:** This motor operates on 115 Volts. Improper wiring can lead to electric shock or fire.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses and gloves, during installation and handling.
- **Proper Grounding:** Ensure the motor is properly grounded according to local electrical codes.
- **Component Compatibility:** Verify that all replacement components, including capacitors, are compatible with the motor's specifications.

Product Specifications

Specification	Value
Model Number	K55HXHGB-8639
Brand	Emerson
Horsepower (HP)	1/2 HP (0.5 hp)
Voltage	115 Volts

Product Dimensions	6 x 6 x 6 inches
Item Weight	14 Pounds (224 Ounces)
Type	OEM Replacement Furnace Blower Motor

This motor is a top-quality OEM replacement part designed for reliable performance in compatible furnace systems.

Setup and Installation

Installation of this OEM replacement motor should be performed by a qualified technician. The following steps are general guidelines:

1. **Power Disconnection:** Ensure all power to the furnace unit is completely shut off at the main electrical panel. Verify with a voltage tester.
2. **Access Blower Compartment:** Open the furnace access panels to expose the blower motor assembly.
3. **Document Wiring:** Before disconnecting any wires, take clear photos or draw a diagram of the existing wiring connections. Note the color codes and their corresponding terminals.
4. **Disconnect Old Motor:** Carefully disconnect all electrical wires and remove any mounting bolts or clamps securing the old blower motor. Note the orientation of the motor and blower wheel.
5. **Remove Blower Wheel:** If the blower wheel is attached to the old motor shaft, carefully remove it. This may require a wheel puller.
6. **Install New Motor:** Attach the blower wheel to the shaft of the new Emerson K55HXHGB-8639 motor. Secure the motor in the blower housing using the original mounting hardware. Ensure the motor is seated correctly and the blower wheel spins freely without rubbing.
7. **Wire Connections:** Connect the new motor's wires according to the diagram or photos taken earlier. Ensure all connections are secure and insulated. Pay close attention to common, high, medium-high, medium-low, and low speed connections, as well as capacitor wiring. The motor typically has color-coded leads: Common (WHT), High (BLK), Med High (BRN), Med Low (BLU), Low (RED), and two purple leads for the capacitor.
8. **Capacitor Installation:** If a new capacitor is required or supplied, ensure it is correctly wired and mounted. Verify the capacitor rating matches the motor's requirements (e.g., 7.5 MFD 370 VAC).
9. **Secure Panels:** Close and secure all furnace access panels.
10. **Restore Power:** Restore power to the furnace unit at the main electrical panel.
11. **Test Operation:** Initiate a call for heat or cool to test the blower motor's operation. Listen for unusual noises and observe airflow.



Image: Emerson K55HXHGB-8639 OEM Replacement Furnace Blower Motor. This image shows the complete motor unit, including the shaft, cooling vents, mounting brackets, and the multi-colored wiring harness with terminal connectors. A label with specifications is visible on the side of the motor casing.

Operating Instructions

Once properly installed, the Emerson K55HXHGB-8639 blower motor operates automatically as part of your furnace system. Its operation is controlled by the furnace's thermostat and control board.

- **Automatic Operation:** The motor will engage to circulate air when the thermostat calls for heating or cooling, or when the fan is set to "ON" mode.
- **Speed Settings:** The motor is designed with multiple speed taps (High, Med High, Med Low, Low) to allow for optimal airflow configuration based on the furnace and ductwork requirements. The specific speed used is determined during installation and furnace setup.
- **Continuous Fan:** If your thermostat has a "Fan ON" setting, the blower motor will run continuously to circulate air, even when not heating or cooling.

Maintenance

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

- **Filter Replacement:** Regularly replace or clean your furnace air filter according to the furnace manufacturer's recommendations (typically every 1-3 months). A clogged filter can restrict airflow, causing the motor to work harder and potentially overheat.
- **Blower Wheel Cleaning:** Periodically inspect the blower wheel for dirt and debris buildup. A dirty blower wheel can become unbalanced, leading to vibrations and reduced airflow. Clean the wheel carefully with a soft brush or vacuum, ensuring not to bend the blades.
- **Motor Inspection:** Annually, have a qualified technician inspect the motor for signs of wear, such as unusual noises, excessive heat, or visible damage to wiring.
- **Lubrication:** This motor is typically designed with sealed bearings that do not require lubrication. Refer to the motor's label or original furnace manual to confirm if lubrication points exist. Do not lubricate if not specified.

Troubleshooting

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

Problem	Possible Cause	Solution
Motor does not start	No power to furnace; Blown fuse/tripped breaker; Faulty thermostat; Incorrect wiring; Bad capacitor; Motor overload protector tripped.	Check furnace power supply; Reset breaker/replace fuse; Check thermostat settings; Verify wiring connections; Test/replace capacitor; Allow motor to cool and reset.
Motor runs but no/low airflow	Clogged air filter; Dirty blower wheel; Obstruction in ductwork; Incorrect motor speed setting.	Replace/clean air filter; Clean blower wheel; Inspect ductwork; Verify correct speed tap wiring.
Motor is noisy (squealing, grinding)	Worn bearings; Unbalanced blower wheel; Loose mounting hardware; Debris in blower housing.	Motor replacement may be necessary; Clean blower wheel; Tighten mounting bolts; Remove debris.
Motor overheats and shuts off	Restricted airflow (clogged filter/coil); Overloaded motor (wrong size/application); Faulty capacitor.	Check/clean filter and coils; Verify motor is correct for application; Test/replace capacitor.

Note: Many modern motors include an internal thermal overload protector that will temporarily shut off the motor if it overheats. The motor will restart once it cools down. Persistent overheating indicates an underlying issue that needs to be addressed.

Warranty and Support

This Emerson OEM Replacement Furnace Blower Motor is manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided with your purchase or contact the seller/manufacturer directly. For technical support or assistance with installation and troubleshooting beyond this manual, it is recommended to contact a certified HVAC professional or the Emerson customer support line.
Manufacturer: Emerson

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