

ClimaTek 5KCP39HGS599S

ClimaTek Upgraded Furnace Blower Motor 5KCP39HGS599S Instruction Manual

Model: 5KCP39HGS599S

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your ClimaTek Upgraded Furnace Blower Motor, model 5KCP39HGS599S. This motor is designed as a direct replacement for part # 5KCP39HGS599S and is compatible with many Trane and American Standard furnaces. Please read this manual thoroughly before proceeding with any installation or maintenance.

2. SAFETY INFORMATION

WARNING: Electrical Shock Hazard. Disconnect power before servicing.

- Always disconnect all electrical power to the furnace unit before attempting any installation, maintenance, or repair. Failure to do so can result in serious injury or death.
- Installation should only be performed by a qualified HVAC technician or a trained professional. If you are not comfortable with electrical wiring and furnace components, seek professional assistance.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation and maintenance.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Verify the motor's rotation direction before final assembly to prevent damage to the furnace or motor.

3. PRODUCT DESCRIPTION AND FEATURES

The ClimaTek Upgraded Furnace Blower Motor is a high-quality replacement component designed for optimal performance in compatible furnace systems.



Image: Three ClimaTek furnace blower motors, showcasing their design and included components like wiring and mounting brackets.

- **Upgraded Performance:** This is a brand new upgraded 1/3 HP Furnace Blower Motor.
- **Direct Replacement:** Directly replaces Part # 5KCP39HGS599S.
- **Broad Compatibility:** Designed to work with many Trane and American Standard Furnaces.
- **Durable Construction:** Top Quality ClimaTek Replacement Part, built for longevity.

4. SPECIFICATIONS

Attribute	Value
Model Number	ClimaTek Rplm for GE # 5KCP39HGS599S
Brand	ClimaTek
Horsepower	0.33 HP (1/3 HP)
Product Dimensions	7 x 7 x 14 inches
Item Weight	11.88 pounds (190 ounces)

5. SETUP AND INSTALLATION

This section outlines the general steps for replacing a furnace blower motor. Specific procedures may vary based on your furnace model. Always refer to your furnace's manufacturer manual for detailed instructions.

1. **Power Disconnection:** **Crucially, turn off all power to the furnace at the thermostat and the main electrical breaker.** Verify power is off using a voltage tester.
2. **Access Blower Compartment:** Open the furnace access panel to expose the blower motor assembly.
3. **Disconnect Wiring:** Carefully disconnect the electrical wiring from the old motor. Take photos or make notes of the wiring configuration for reassembly.
4. **Remove Old Motor:** Unmount the old blower motor from its housing or brackets. This may involve removing bolts or screws.
5. **Remove Blower Wheel:** Detach the blower wheel from the shaft of the old motor. This usually involves loosening a set screw.
6. **Install Blower Wheel on New Motor:** Slide the blower wheel onto the shaft of the new ClimaTek motor. Ensure it is positioned correctly and tighten the set screw securely.
7. **Mount New Motor:** Install the new motor into the furnace blower housing using the existing brackets or new ones if provided. Ensure it is securely fastened.
8. **Connect Wiring:** Reconnect the electrical wiring to the new motor, following your notes or photos. This motor is typically wired for counter-clockwise rotation from the shaft end. If clockwise rotation is required, consult the wiring diagram on the motor label for instructions on swapping the appropriate wires (usually two spade connectors).
9. **Capacitor Requirement:** This motor requires a **15 microfarad (uF) capacitor**. Many older GE Genteq motors (like the 5KCP39JG P752 S) used a 5uF capacitor. It is essential to replace the old capacitor with a new 15uF capacitor for proper motor operation and longevity. The capacitor is typically not included with the motor and must be purchased separately.
10. **Verify Rotation:** Before fully reassembling, temporarily restore power and briefly observe the motor's rotation to ensure it is correct. Immediately disconnect power after verification.
11. **Reassemble:** Close the furnace access panel.
12. **Restore Power:** Turn on the main electrical breaker and thermostat power.

Important Note on Capacitor: The correct capacitor is crucial for motor function. Using an incorrect capacitor can lead to motor failure or inefficient operation. Ensure you use a 15uF capacitor with this ClimaTek motor.

6. OPERATING INSTRUCTIONS

Once the ClimaTek blower motor is correctly installed, the furnace operation will resume as normal. The motor is designed to integrate seamlessly with your existing furnace controls.

- Ensure the furnace thermostat is set to your desired heating or cooling mode and temperature.
- The blower motor will activate automatically when the furnace calls for heat or cool air circulation.
- Listen for smooth operation. A properly installed motor should run quietly.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and efficiency of your furnace system, including the blower motor.

- **Filter Replacement:** Regularly check and replace your furnace air filter according to the furnace manufacturer's recommendations (typically every 1-3 months). A dirty filter restricts airflow, causing the blower motor to work harder and potentially overheat.
- **Blower Wheel Cleaning:** Periodically inspect the blower wheel for dust and debris buildup. A dirty blower wheel can reduce airflow and cause imbalance, leading to noise and premature motor wear. Clean gently with a soft brush or vacuum.
- **Motor Inspection:** Annually, have a qualified technician inspect the motor for signs of wear, loose connections, or unusual noises. This motor is typically sealed and does not require lubrication.
- **Capacitor Check:** The capacitor should be checked periodically by a qualified technician for signs of degradation, as a failing capacitor can lead to motor issues.

8. TROUBLESHOOTING

This section addresses common issues you might encounter. For complex problems, consult a qualified HVAC technician.

Problem	Possible Cause	Solution
Motor does not start	No power, faulty capacitor, incorrect wiring, motor overload.	Check circuit breaker. Verify wiring connections. Test or replace capacitor (ensure 15uF). Allow motor to cool if overloaded.
Motor runs but no airflow	Blower wheel loose on shaft, incorrect motor rotation.	Tighten blower wheel set screw. Check motor wiring for correct rotation (refer to installation section).
Unusual noise (squealing, grinding)	Loose blower wheel, debris in blower, worn bearings (unlikely for new motor), motor rubbing.	Inspect blower wheel for tightness and debris. Ensure motor is securely mounted and not contacting other components.
Motor overheats	Restricted airflow (dirty filter/coil), incorrect capacitor, motor overload.	Replace dirty air filter. Clean evaporator coil. Verify correct 15uF capacitor is installed. Ensure proper ventilation around furnace.

9. WARRANTY INFORMATION

For specific warranty terms and conditions regarding your ClimaTek Upgraded Furnace Blower Motor, please refer to the documentation included with your purchase or visit the official ClimaTek website. Warranty coverage typically applies to manufacturing defects and does not cover damage due to improper installation, misuse, or lack of maintenance.

10. SUPPORT AND CONTACT

If you require technical assistance, have questions about installation, or need to report an issue, please contact ClimaTek customer service. Contact information can typically be found on the product packaging or

the official ClimaTek website.

For general inquiries or to explore other ClimaTek products, you may visit the [ClimaTek Store on Amazon](#).