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Broan-NuTone S99080521

Broan-NuTone S99080521 Motor Instruction Manual

For Broan 678-G and 2678F-A Exhaust Fans

This manual provides essential information for the installation, operation, and maintenance of your Broan-NuTone S99080521 replacement motor.

1. PRODUCT OVERVIEW

The Broan-NuTone S99080521 is an Original Equipment Manufacturer (OEM) authorized replacement motor designed for various Broan exhaust fan models, including the 678-G and 2678F-A series. This motor is intended to restore the functionality of your existing exhaust fan unit.

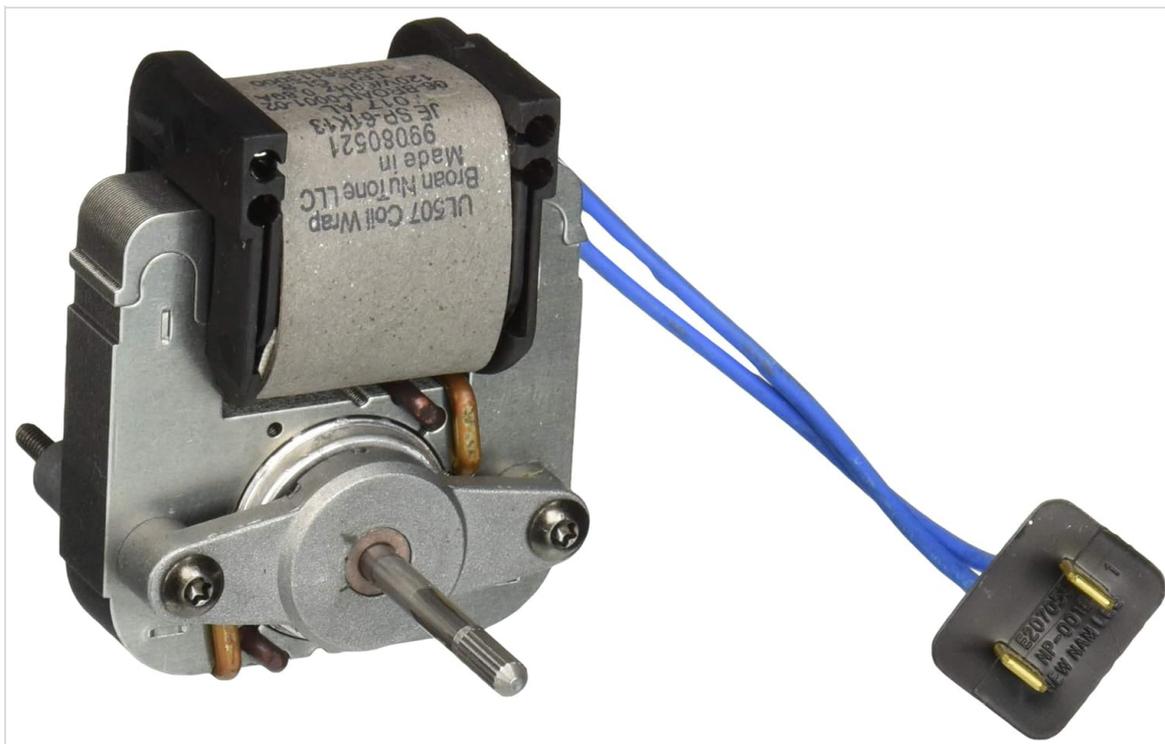


Image 1.1: The Broan-NuTone S99080521 replacement motor. This image displays the motor unit with its electrical wiring and the characteristic D-shaft for impeller attachment. The fan impeller assembly is included with the motor but may not be visible in all product images.

- **OEM Authorized Part:** Ensures compatibility and performance with specified Broan models.
- **Model Compatibility:** Specifically designed to fit Broan 678-G and 2678F-A exhaust fan units.
- **Included Components:** The motor unit typically includes the fan assembly that mounts to the motor. Note that the shaft type is a "D" shaft, not a spline shaft.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and maintenance:

- **Disconnect Power:** Before attempting any installation, maintenance, or repair, ensure that the power supply to the exhaust fan unit is completely disconnected at the circuit breaker or fuse box. Failure to do so can result in electric shock or serious injury.
- **Qualified Personnel:** If you are unsure about any part of the installation process, consult a qualified electrician or HVAC technician.
- **Wear Protective Gear:** Wear appropriate personal protective equipment, such as safety glasses and gloves, to prevent injury.
- **Inspect Components:** Before installation, inspect the new motor and existing fan housing for any damage. Do not install damaged parts.
- **Proper Tools:** Use only appropriate tools for the task to avoid damage to the motor or fan unit.

3. INSTALLATION INSTRUCTIONS

This section outlines the general steps for replacing the motor in compatible Broan exhaust fan models. Specific fan models may have slight variations.

1. Prepare for Installation:

- Ensure power to the fan unit is OFF at the circuit breaker.
- Remove the fan grille or cover to access the motor assembly.
- Carefully disconnect any electrical wiring from the old motor. Note the wiring configuration, taking photos if necessary.

2. Remove Old Motor:

- Locate the nuts or screws securing the old motor to the fan housing. These are typically two nuts.
- Carefully remove the fan impeller (plastic fan blade) from the motor shaft. You will need to reuse this component.
- Remove the old motor from the housing.

3. Clean Fan Housing:

While the motor is removed, it is an opportune time to clean any accumulated dust or debris from the fan housing. Use a vacuum cleaner or damp cloth. Ensure the housing is dry before proceeding.

4. Install New Motor:

- Position the new S99080521 motor into the fan housing. Ensure the motor mount aligns correctly with the mounting holes.
- Secure the motor using the original nuts or screws. Ensure it is firmly seated.
- *Important Note:* In some cases, the motor mount may need to be reoriented. If the wiring exits the motor in a way that would interfere with the fan impeller or housing, carefully

remove the motor mount, rotate the motor armature, and reattach the mount to ensure proper wire routing and clearance.

5. Attach Fan Impeller:

- Slide the original plastic fan impeller onto the new motor's D-shaft. Ensure it is fully seated and secured. The D-shaft design prevents the impeller from spinning freely on the shaft.

6. Connect Wiring:

- Reconnect the electrical wiring to the new motor, matching the configuration noted during disassembly. Ensure all connections are secure.

7. Final Steps:

- Replace the fan grille or cover.
- Restore power to the fan unit at the circuit breaker.
- Test the fan for proper operation.

4. OPERATING INSTRUCTIONS

The Broan-NuTone S99080521 motor operates as part of your existing Broan exhaust fan unit. Once installed, the fan's operation is controlled by its original wall switch or integrated controls.

- **Activation:** Turn on the wall switch connected to your exhaust fan to activate the motor and fan.
- **Deactivation:** Turn off the wall switch to deactivate the motor and fan.
- **Continuous Operation:** For optimal ventilation, operate the fan during and after activities that generate moisture or odors in the room.

5. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your exhaust fan motor.

- **Power Disconnection:** Always disconnect power to the fan unit before performing any maintenance.
- **Clean Fan Grille:** Periodically remove and clean the fan grille with a mild detergent and water. Ensure it is completely dry before reattaching.
- **Clean Fan Impeller:** If accessible, carefully remove the fan impeller and clean any dust or lint buildup. A soft brush or vacuum cleaner can be used. Ensure the impeller is balanced and securely reattached.
- **Motor Lubrication:** The S99080521 motor is typically sealed and does not require user lubrication. Do not attempt to lubricate the motor unless specifically instructed by Broan-NuTone.
- **Inspect Wiring:** Annually inspect the motor's wiring for any signs of wear, fraying, or loose connections.

6. TROUBLESHOOTING

If your exhaust fan is not operating correctly after motor replacement, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Fan does not turn on.	No power to the unit. Loose wiring connection. Faulty wall switch.	Check circuit breaker. Verify all wiring connections are secure (with power off). Test or replace wall switch.
Fan runs but is noisy (e.g., humming, rattling).	Impeller unbalanced or dirty. Motor not securely mounted. Foreign object in housing. Motor mount reorientation needed.	Clean and re-seat impeller. Tighten motor mounting nuts/screws. Inspect housing for debris. Review installation step 3.4 regarding motor mount orientation.
Fan runs slowly or weakly.	Excessive dust/debris on impeller. Restricted airflow in ductwork.	Clean impeller and housing. Inspect and clear ductwork if accessible.

If troubleshooting steps do not resolve the issue, contact Broan-NuTone customer support or a qualified technician.

7. SPECIFICATIONS

- **Model Number:** S99080521
- **Manufacturer:** Broan-NuTone
- **Product Dimensions:** Approximately 1 x 1 x 1 inches (Note: This may refer to packaging or a general placeholder; actual motor dimensions may vary slightly for fitment.)
- **Item Weight:** Approximately 1 pound
- **Part Type:** OEM Authorized Replacement Motor
- **Compatibility:** Broan 678-G, 2678F-A, and various other Broan models.

8. WARRANTY AND SUPPORT

Specific warranty details for the Broan-NuTone S99080521 motor are not provided within this document. For warranty information, please refer to the original product packaging, the official Broan-NuTone website, or contact Broan-NuTone customer service directly.

For technical assistance, parts inquiries, or further support, please contact Broan-NuTone customer service through their official channels.

Broan-NuTone Contact Information: Please visit the official Broan-NuTone website for the most current contact details, including phone numbers and support forms.

