

## Broan-NuTone S97017706

# Broan-NuTone S97017706 Ventilation Fan Motor Assembly Instruction Manual

## 1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Broan-NuTone S97017706 Ventilation Fan Motor Assembly. This genuine replacement part is designed to restore the functionality of compatible Broan-NuTone ventilation fans, ensuring efficient air movement and quiet operation in your bathroom or other designated areas.

## 2. SAFETY INFORMATION

**WARNING:** To reduce the risk of fire, electric shock, or injury to persons, observe the following:

- Always disconnect power at the service panel before installing or servicing this unit. Lock out the service panel to prevent power from being turned on accidentally.
- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
- Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- This motor assembly is UL listed for use in tub/shower with GFI branch circuit wiring. Ensure your existing setup complies with these requirements.
- Do not use this product with any solid-state speed control device.

## 3. PACKAGE CONTENTS

The Broan-NuTone S97017706 package includes:

- 1 x Broan-NuTone S97017706 Motor Assembly (includes motor and blower wheel)



Image: The Broan-NuTone S97017706 Ventilation Fan Motor Assembly, showing the motor and attached blower wheel.

4. SPECIFICATIONS

Model Number	S97017706
Product Dimensions	9"L x 6"W x 9"H
Voltage	120 Volts
Wattage	144 watts
Cooling Method	Fan-based
Noise Level	5 Sones
Maximum Rotational Speed	1550 RPM
Air Flow Capacity	100 Cubic Feet Per Minute (CFM)
Item Weight	3 pounds
Certification	UL Listed

## 5. COMPATIBILITY

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This S97017706 Motor Assembly is compatible with the following NuTone/Broan ventilation fan models:

- NuTone 8814R
- NuTone 8664RP
- NuTone 8673

Always verify your existing fan's model number before purchasing to ensure proper fit and function.

## 6. INSTALLATION INSTRUCTIONS

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This section outlines the general steps for replacing your ventilation fan motor assembly. Specific fan models may have slight variations.

1. **Disconnect Power:** Before beginning any work, turn off the power to the ventilation fan at your home's circuit breaker or fuse box. Verify power is off using a voltage tester.
2. **Remove Fan Cover and Light Fixture:** Carefully remove the decorative fan cover and any light fixture components (bulb, lens) to expose the fan housing and motor assembly.
3. **Locate and Remove Old Motor Assembly:** The existing motor assembly is typically secured by one or more screws and may have flanges that fit into slots. Identify the securing screw(s) and remove them. Gently disconnect the electrical plug from the receptacle within the fan housing.
4. **Install New Motor Assembly:**
  - Connect the electrical plug of the new S97017706 motor assembly into the receptacle in the fan housing. Ensure a secure connection.
  - Align the new motor assembly with the mounting slots and screw holes in the fan housing.
  - Secure the assembly with the screw(s) removed in step 3. Ensure the assembly is firmly seated.
5. **Reinstall Fan Cover and Light Fixture:** Reattach the light fixture components and the decorative fan cover.
6. **Restore Power:** Turn the power back on at the circuit breaker or fuse box. Test the fan for proper operation.

If you encounter difficulties or are unsure about any step, consult a qualified electrician.

## 7. OPERATING INSTRUCTIONS

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Once installed, the Broan-NuTone S97017706 Motor Assembly operates as part of your ventilation fan system. Activate the fan using its wall switch or integrated control. The fan, with this motor assembly, is designed to provide 100 Cubic Feet Per Minute (CFM) of airflow, effectively ventilating areas up to 95 square feet. For optimal performance, operate the fan during and after activities that generate moisture or odors, such as showering or cooking, to maintain good indoor air quality.

## 8. MAINTENANCE

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Regular maintenance helps ensure the longevity and efficient operation of your ventilation fan.

1. **Disconnect Power:** Always turn off power at the service panel before cleaning.
2. **Clean Fan Cover:** Remove the fan cover and wash it with mild soap and water. Rinse thoroughly and dry completely before reinstalling.
3. **Clean Blower Wheel:** Gently wipe the blower wheel and motor housing with a damp cloth to remove dust

and debris. Avoid getting moisture into the motor windings. A vacuum cleaner with a brush attachment can also be used.

- 4. **Inspect for Damage:** Periodically check the motor assembly and wiring for any signs of wear or damage.
- 5. **Reassemble and Restore Power:** Reinstall all components and restore power.

Perform cleaning at least once a year, or more frequently in dusty environments.

## 9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Fan does not turn on.	No power to the fan; faulty switch; loose wiring connection; motor failure.	Check circuit breaker/fuse. Ensure switch is functional. Verify all electrical connections are secure. If motor is new and still not working, contact support.
Fan is excessively noisy.	Loose mounting screw; debris in blower wheel; worn motor bearings (if old motor).	Ensure motor assembly is securely mounted. Clean blower wheel of any obstructions. If noise persists with a new motor, ensure it is correctly installed and not vibrating against the housing.
Reduced airflow.	Clogged fan cover or blower wheel; obstructed ductwork.	Clean fan cover and blower wheel. Inspect ductwork for blockages (requires access to attic/ceiling space).

## 10. WARRANTY AND SUPPORT

This is a genuine Broan-NuTone replacement part. For specific warranty information and technical support, please refer to the official Broan-NuTone website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

**Broan-NuTone Official Website:** [www.broan-nutone.com](http://www.broan-nutone.com)