Broan-NuTone BP27

Broan-NuTone BP27 Bathroom Fan Replacement Motor and Wheel Set Instruction Manual

This manual provides detailed instructions for the installation, operation, and maintenance of your Broan-NuTone BP27 Bathroom Fan Replacement Motor and Wheel Set.

1. Product Overview

The Broan-NuTone BP27 is a genuine replacement motor and blower wheel assembly designed to restore the functionality of compatible Broan ventilation fans. This set ensures efficient air circulation and quiet performance in your bathroom.

The motor has an original part number of S99080216 and is replaced by S97012038.



Image: The Broan-NuTone BP27 replacement motor and wheel set, showing the motor with blue wires and a white fan wheel.

2. Compatibility

This replacement motor and wheel set is compatible with the following Broan ventilation fan models:

- 659
- 662
- 663A, 663B, 663C, 663D, 663E
- 668
- 688, 688A, 688B, 688C, 688D, 688E
- 678, 678B

It is also an exact replacement for the following motor numbers:

- 15617, 162502, 02S0055, 0340775B, 101-1770, 14266A, 15194A, 301-3001, 5KSB33BG1858, C202A, CC0053,

CC0154, P-10294, P-14266A, P14266A, P-15194, P-15617, P-608-31-1, P-9983, S10625002, S10625236, S10625237, S20625002

3. Safety Information

WARNING: Risk of Electric Shock. Disconnect power at the circuit breaker before servicing.

- Always turn off the power supply to the fan at the circuit breaker before attempting any installation, maintenance, or repair.
- Ensure all electrical connections are secure and comply with local electrical codes.
- Do not operate the fan if any parts are damaged or missing.
- This product is intended for use with specified Broan-NuTone ventilation fan models only.

4. What's in the Box

Your Broan-NuTone BP27 Replacement Motor and Wheel Set includes:

- 1 x Replacement Motor (S97012038)
- 1 x Blower Wheel

5. Installation Instructions

Follow these steps to replace the motor and wheel in your Broan-NuTone bathroom fan. It is recommended to wear appropriate safety gear, such as gloves and eye protection.

1. **Disconnect Power:** Locate the circuit breaker that supplies power to the bathroom fan and turn it OFF. Verify that the power is off by attempting to turn on the fan.
2. **Remove Fan Grille:** Carefully pull down the fan grille. In most cases, there will be spring clips that hold it in place. Squeeze these clips together to release the grille and set it aside.
3. **Access Motor Assembly:** Once the grille is removed, you will see the existing motor and blower wheel assembly. This assembly is typically held in place by a few screws or nuts.
4. **Disconnect Old Motor:** Unplug the old motor from its electrical receptacle within the fan housing. Remove any screws or nuts securing the motor assembly and carefully detach it.
5. **Remove Old Blower Wheel:** The blower wheel is usually attached to the motor shaft. Gently pull or unscrew the old blower wheel from the motor shaft. Note its orientation for proper installation of the new wheel.
6. **Install New Blower Wheel:** Attach the new blower wheel to the shaft of the new replacement motor. Ensure it is securely fastened and oriented correctly. Some wheels may require a slight modification (e.g., boring out the center hole slightly) for a snug fit, as noted by some users.
7. **Mount New Motor Assembly:** Position the new motor and wheel assembly into the fan housing. Secure it with the screws or nuts previously removed. Ensure the motor is firmly in place.
8. **Connect New Motor:** Plug the new motor's electrical connector into the receptacle inside the fan housing. Ensure the connection is secure.
9. **Reinstall Fan Grille:** Align the spring clips of the fan grille with the slots in the fan housing and push the grille firmly upwards until it snaps into place.
10. **Restore Power:** Return to the circuit breaker and turn the power supply back ON.
11. **Test Fan:** Turn on the bathroom fan to ensure it operates correctly and quietly.

6. Operation

The Broan-NuTone BP27 replacement motor and wheel set operates automatically when power is supplied to the fan unit via your bathroom light switch or a dedicated fan switch. It is designed for continuous or intermittent ventilation to reduce humidity and odors.

7. Maintenance

Regular maintenance helps ensure optimal performance and longevity of your fan motor.

- **Power Disconnection:** Always disconnect power at the circuit breaker before performing any maintenance.
- **Clean Fan Grille:** Periodically remove the fan grille and wash it with mild soap and water. Allow it to dry completely before reinstalling.
- **Clean Blower Wheel:** Gently clean the blower wheel blades with a soft brush or cloth to remove dust and debris. Avoid bending the blades.
- **Inspect Motor:** Check the motor for any signs of wear or damage. Ensure all connections are secure.
- **Lubrication:** The motor is typically sealed and does not require lubrication. Do not attempt to lubricate the motor unless specifically instructed by the manufacturer.

8. Troubleshooting

Problem	Possible Cause	Solution
Fan does not turn on.	No power supply; loose electrical connection; faulty switch; motor failure.	Check circuit breaker. Ensure motor is properly plugged in. Test the switch. If motor is new and still not working, contact support.
Fan is excessively noisy.	Blower wheel dirty or unbalanced; motor not securely mounted; foreign object in housing.	Clean blower wheel. Ensure motor is tightly secured. Inspect housing for obstructions.
Fan runs slowly or with reduced airflow.	Dirty blower wheel; obstructed ductwork.	Clean blower wheel. Check ductwork for blockages.

9. Specifications

- **Model Number:** BP27
- **Brand:** Broan-NuTone
- **Motor Model Name:** S97012038
- **Airflow:** 50 CFM (Cubic Feet per Minute)
- **Speed:** 1800 RPM
- **Voltage:** 120 Volts
- **Material:** ABS (Acrylonitrile Butadiene Styrene)
- **Product Dimensions:** 5.7 x 5.4 x 3.75 inches
- **Weight:** 1 Pound

10. Warranty and Support

For warranty information or technical support, please contact Broan-NuTone customer service. Keep your purchase

receipt as proof of purchase.
You can visit the official Broan-NuTone website for contact details and additional resources:www.broan-nutone.com

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Example: How do I reset this device or fix this error?

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