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Broan-NuTone 688E

Broan-NuTone® 688E Bathroom Exhaust Fan User Manual

Model: 688E
Brand: Broan-NuTone

Product Overview

The Broan-NuTone® 688E Bathroom Exhaust Fan is part of the Economy Energy Star Series, offering a versatile, compact, and economical ventilation solution for your bathroom. Designed with a galvanized steel housing and double strength mounting flanges, this fan provides powerful ventilation performance while being Energy Star® certified, operating at a quiet 2.0 Sones. It effectively ventilates air, removing moisture, odor, and pollutants, contributing to improved indoor air quality. The fan also features a removable motor assembly and a plug-in permanently lubricated motor for ease of service and cleaning.

Key Features

- **50 CFM Ventilation:** Sufficient airflow to remove moisture, odor, and pollutants from smaller powder rooms or bathrooms up to 45 sq. ft.
- **Energy Star Certified:** Operates efficiently at 2.0 Sones for peaceful and effective ventilation, reducing energy consumption.
- **Easy Installation:** Features a compact housing with foldable mounting brackets, allowing for "NO CUT" installation without attic access.
- **Updated Modern Grille:** Brighter white grille blends seamlessly with most ceiling paints and includes springs for easy removal and cleaning.
- **Made in the USA:** Proudly manufactured in Hartford, WI, by Broan-NuTone, a leader in indoor air quality.



Figure 1: The Broan-NuTone 688E Bathroom Exhaust Fan with its modern white grille.

Setup and Installation

The Broan-NuTone 688E is designed for straightforward installation, particularly for replacing existing fans. Its compact housing and foldable mounting brackets facilitate a "NO CUT" installation, often eliminating the need for attic access. This makes upgrading your ventilation system simpler and less time-consuming.

1. **Preparation:** Ensure power to the existing fan circuit is turned off at the breaker before beginning any installation.
2. **Remove Old Fan:** Carefully remove the old exhaust fan, noting its wiring and mounting. The 688E is designed to fit many standard openings.
3. **Install Housing:** Position the new fan housing into the ceiling opening. Utilize the foldable mounting brackets to secure the unit firmly to the ceiling joists or existing framework.
4. **Wiring:** Connect the electrical wiring according to local codes and the provided wiring diagram. The fan operates on 120 Volts and 36 watts.
5. **Install Motor Assembly:** The motor assembly is removable and plugs into the main unit, simplifying installation and future maintenance.

6. **Attach Grille:** Secure the modern white grille to the fan housing using the integrated springs. Ensure it sits flush with the ceiling for a clean finish.
7. **Test:** Restore power and test the fan's operation.

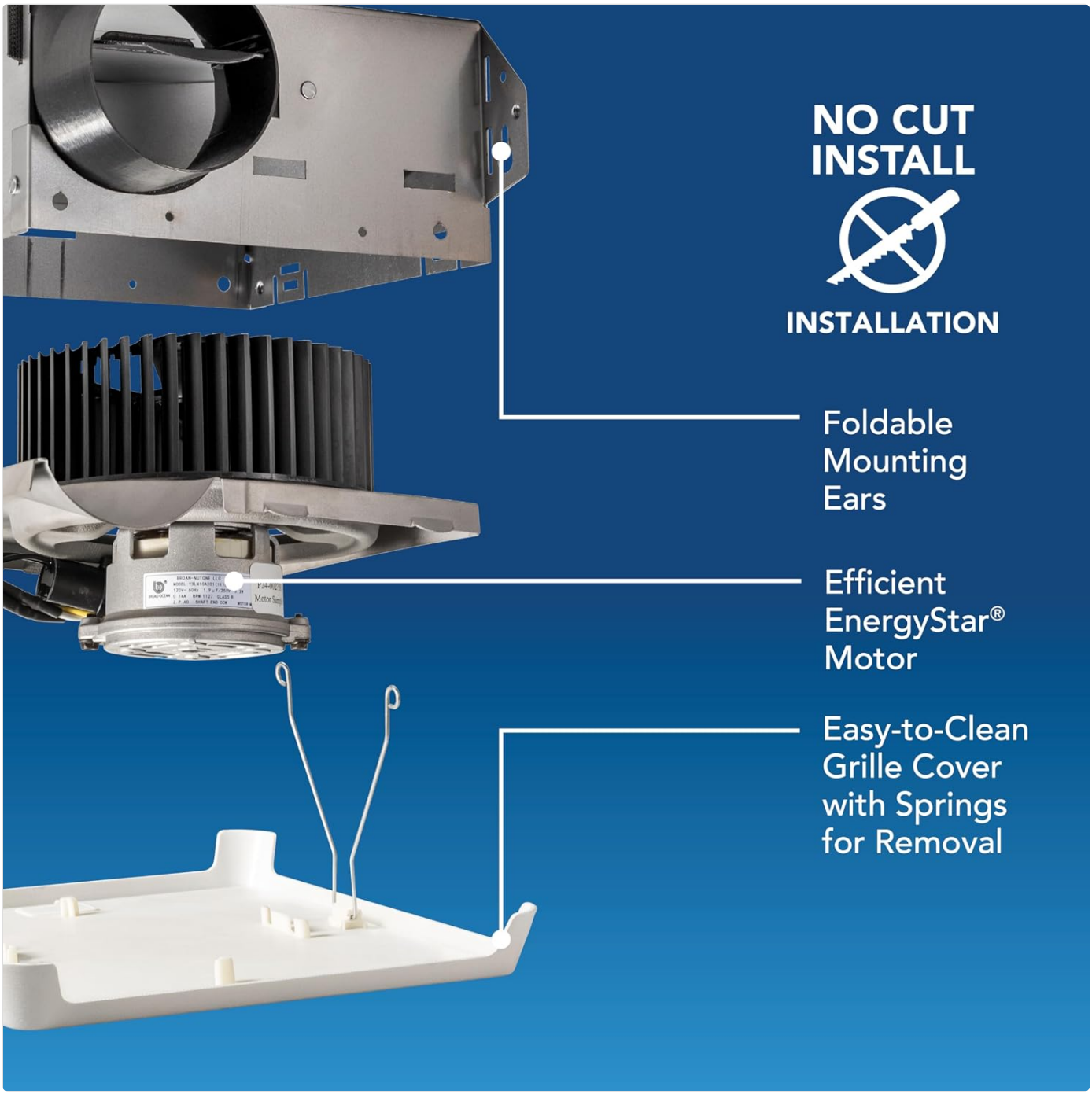


Figure 2: Exploded view illustrating the fan's components, including the motor, housing, and easy-to-attach grille.



Figure 3: The "NO CUT INSTALL" feature highlights the fan's adaptable mounting brackets for simplified installation.

Operating Instructions

The Broan-NuTone 688E exhaust fan is designed for simple operation, typically controlled by a standard wall switch. Once installed and wired, simply flip the switch to activate the fan. Its 50 CFM (Cubic Feet per Minute) airflow capacity is ideal for effectively ventilating bathrooms up to 45 square feet, quickly removing excess moisture, unpleasant odors, and airborne pollutants. Operating at a quiet 2.0 Sones, the fan provides effective ventilation without significant noise disruption, ensuring a more comfortable bathroom environment.



Figure 4: The fan efficiently removes moisture, odors, and pollutants, improving air quality.



Figure 5: Experience quiet operation with the 688E fan, designed to be unobtrusive.

Maintenance

Regular maintenance of your Broan-NuTone 688E exhaust fan ensures optimal performance and longevity. The fan is designed for easy cleaning and serviceability.

- **Grille Cleaning:** The modern grille features springs for easy removal. Simply pull down on the grille to detach it from the housing. Clean the grille with a damp cloth and mild detergent. Ensure it is completely dry before reattaching.
- **Motor Assembly Cleaning:** The motor assembly is removable and features a permanently lubricated motor, reducing the need for frequent lubrication. To clean, disconnect the power, then carefully unplug and remove the motor assembly. Use a soft brush or vacuum cleaner to remove dust and debris from the fan blades and motor housing. Do not use water directly on electrical components.
- **Reassembly:** Once cleaned, reinsert the motor assembly, ensuring it clicks securely into place. Reattach the grille.
- **Frequency:** It is recommended to clean the grille and motor assembly at least once every six months, or more frequently in high-use environments, to maintain efficient airflow and quiet operation.

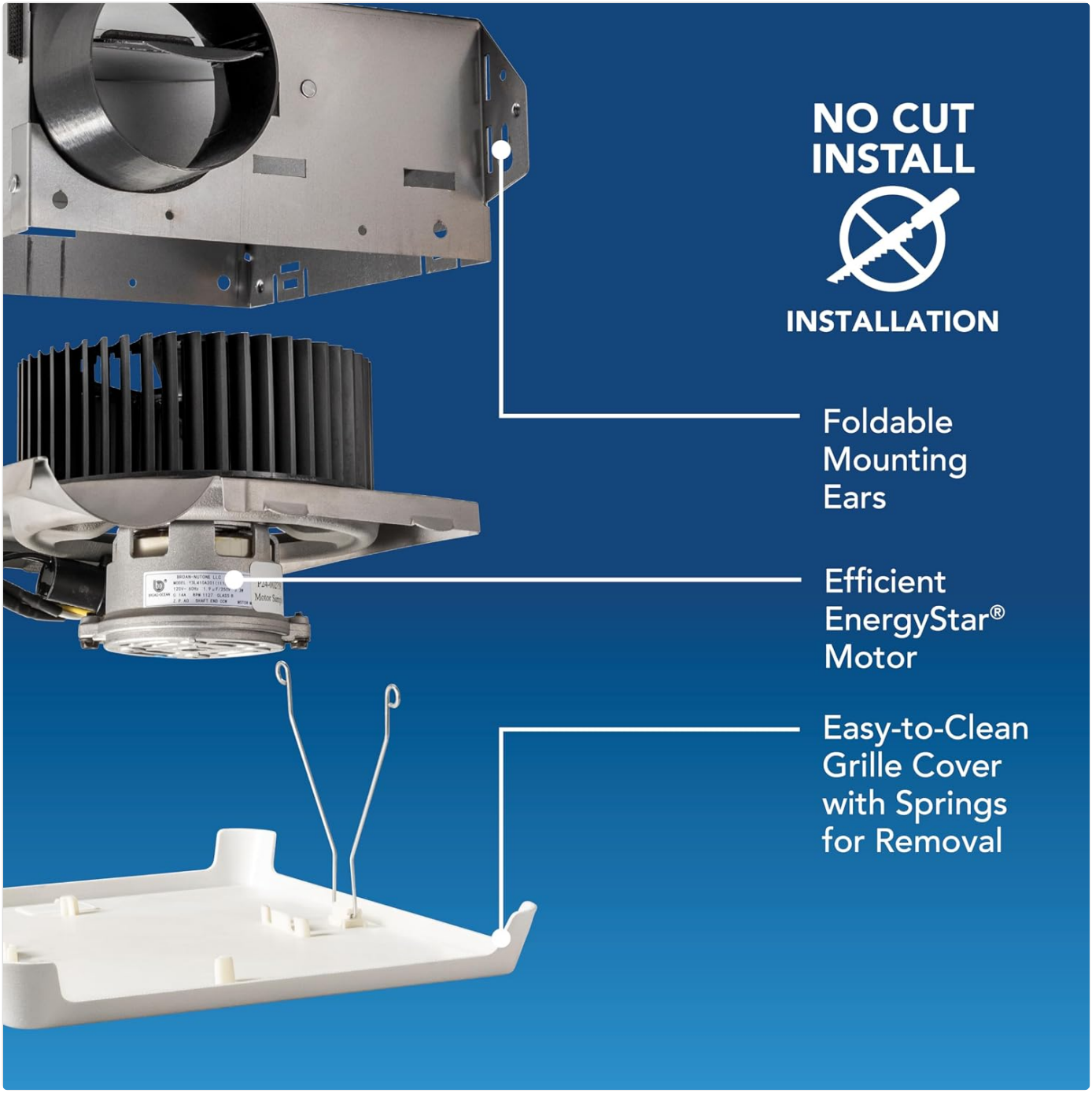


Figure 6: The design allows for easy removal of the motor assembly and grille for cleaning.

Troubleshooting

If you encounter issues with your Broan-NuTone 688E exhaust fan, please refer to the following common troubleshooting steps. For more complex problems, contact customer support.

- **Fan Not Operating:**
  - Check the circuit breaker to ensure power is supplied to the fan.
  - Verify that the wall switch is in the "ON" position.
  - Ensure all electrical connections are secure and properly wired.
- **Reduced Airflow or Loud Noise:**
  - The grille or fan blades may be clogged with dust and debris. Refer to the Maintenance section for cleaning

instructions.
    - Check for obstructions in the ductwork.
    - Ensure the motor assembly is securely seated in the housing.
- **Excessive Moisture in Bathroom:**
    - Confirm the fan is running during and after showers/baths for sufficient time (typically 15-20 minutes after use).
    - Ensure the bathroom size is within the recommended 45 sq. ft. for optimal performance.
    - Check for proper sealing around the fan housing and duct connections.

Specifications

Attribute	Value
Brand	Broan-NuTone
Model Name	Broan-Nutone® 688E Bathroom Exhaust Fan, 50 CFM Energy Star Exhaust Fan, 2.0 Sones
Part Number	688E
Electric Fan Design	Exhaust Fan
Power Source	Electric
Style	50 CFM Cleancover Grill
Product Dimensions	9"D x 8.75"W x 4.75"H
Room Type	Bathroom
Noise Level	2.0 Sones
Wattage	36 watts
Voltage	120 Volts
Specification Met	Energy Star
Item Weight	3.56 pounds
Country of Origin	USA
UPC	026715274161

Warranty and Support

For detailed warranty information and customer support, please refer to the official Broan-NuTone website or contact their customer service team. Broan-NuTone is committed to providing reliable products and excellent support.
You can also visit the official Broan-NuTone store for more product information and assistance: Broan-NuTone Store

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