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› ATMA SUPPLY SM550 Universal Bathroom Vent Fan Motor Replacement Kit Instruction Manual

ATMA SUPPLY SM550

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Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ATMA SUPPLY SM550 Universal Bathroom Vent Fan Motor Replacement Kit. This kit is designed to replace worn-out or noisy motors in various bathroom exhaust fan units, including models compatible with Nutone Broan, Uppco, Venterola E498-1, Bay Motors, Sears 569, Dayton, and others. Please read this manual thoroughly before beginning installation to ensure safe and correct usage.

2. PRODUCT FEATURES

- **Voltage:** 120 Volts
- **Frequency:** 60Hz
- **Airflow Capacity:** 50 Cubic Feet Per Minute (CFM)
- **Amperage:** 0.29A
- **Rotational Speed:** 3000 RPM
- **Shaft Dimensions:** Approximately 3/16" x 1 3/4"
- **Wire Length:** 8.5" with 2-prong plug
- **Mounting Studs:** 1 7/8" on center
- **Coil Stack:** 5/8"
- **Rotation:** Reversible (CCW & CW)
- **Material:** Copper
- **Noise Level:** 14 Decibels

3. WHAT'S INCLUDED

- 1 x SM550 Replacement Motor
- 1 x 4.5" Flat/Paddle Style Fan Blower Wheel

The kit includes the essential components for replacing your existing bathroom vent fan motor and blower wheel.

4. SAFETY INFORMATION

Always prioritize safety when working with electrical components. Failure to follow these safety guidelines may result in electric shock, injury, or damage to property.

- **Disconnect Power:** Before attempting any installation, maintenance, or repair, ensure the power supply to the fan unit is completely disconnected at the circuit breaker.
- **Wear Protective Gear:** Use appropriate personal protective equipment, such as safety glasses and work gloves.
- **Qualified Personnel:** If you are unsure about any part of the installation process, consult a qualified electrician or HVAC technician.
- **Inspect Components:** Before installation, inspect all components for any signs of damage. Do not install damaged parts.
- **Proper Tools:** Use the correct tools for the job to prevent damage to the product or injury.

5. INSTALLATION INSTRUCTIONS

This section outlines the steps to replace your existing bathroom vent fan motor and blower wheel. The process generally involves removing the old components and installing the new ones in their place.

5.1. Preparation

1. **Turn Off Power:** Locate the circuit breaker that controls your bathroom fan and switch it to the OFF position. Verify that the power is off by attempting to turn on the fan.
2. **Remove Fan Grille:** Carefully pull down the fan grille. Most grilles are held in place by spring clips. Squeeze the clips together to release the grille.
3. **Disconnect Old Motor:** Unplug the old motor's 2-prong connector from the receptacle inside the fan housing.
4. **Remove Old Motor Assembly:** The motor assembly is typically held by two long bolts or screws. Unscrew these to detach the old motor and blower wheel from the housing.

5.2. Installing the New Motor and Fan

1. **Detach Old Blower Wheel:** If the old blower wheel is still attached to the old motor, carefully remove it.
2. **Attach New Blower Wheel:** Align the new 4.5" paddle-style blower wheel with the shaft of the new SM550 motor. Firmly push the blower wheel onto the motor shaft until it is securely seated.



Figure 1: The ATMA SUPPLY SM550 motor and included 4.5-inch fan blower wheel.



Figure 2: Detailed dimensions of the SM550 motor and fan for compatibility verification.

3. **Mount New Motor Assembly:** Position the new motor assembly into the fan housing's mounting bracket. Insert the two long bolts or screws through the holes in the original mounting bracket, then through the holes on the motor bracket, and tighten them securely.
4. **Connect Power:** Plug the 2-prong connector of the new motor into the electrical receptacle inside the fan housing.

5.3. Testing and Reassembly

1. **Initial Test:** Before reattaching the grille, restore power at the circuit breaker. Turn on the fan switch to ensure the new motor and fan operate correctly and quietly. If any issues arise, refer to the Troubleshooting section.
2. **Reattach Grille:** Once satisfied with the operation, turn off the power again at the circuit breaker. Reattach the fan grille by squeezing the spring clips and pushing it back into place until it sits flush with the ceiling.
3. **Restore Power:** Turn the power back on at the circuit breaker.

5.4. Video Guide

For a visual demonstration of the installation process, please refer to the following video:

Your browser does not support the video tag.

Video 1: A detailed guide on replacing a universal bathroom vent fan motor, demonstrating the steps involved in removing the old unit and installing the new one.

6. OPERATING INSTRUCTIONS

The ATMA SUPPLY SM550 replacement motor operates identically to your original fan motor. Simply use the existing wall switch to turn your bathroom exhaust fan ON or OFF as needed.

7. MAINTENANCE

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

- **Clean Fan Grille:** Periodically remove the fan grille and wash it with warm, soapy water. Allow it to dry completely before reattaching.
- **Clean Blower Wheel:** With the power disconnected, carefully wipe down the fan blower wheel and motor housing to remove dust and debris. A small brush or vacuum cleaner attachment can be used for hard-to-reach areas.
- **No Lubrication Needed:** The SM550 motor is designed for maintenance-free operation and does not require lubrication.

Always ensure power is disconnected before performing any cleaning or maintenance.

8. TROUBLESHOOTING

If you encounter issues with your ATMA SUPPLY SM550 replacement motor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not turn on	No power to the unit Loose electrical connection Motor malfunction	Check circuit breaker and wall switch Ensure 2-prong plug is securely connected (with power off) Contact support if power and connections are verified
Fan is excessively noisy	Blower wheel not seated correctly Loose mounting screws Debris in fan housing Motor issue	Ensure blower wheel is fully pushed onto the motor shaft Tighten mounting screws Clean fan and housing (with power off) Contact support if noise persists after checking above
Reduced airflow	Dirty fan grille or blower wheel	Clean fan grille and blower wheel as per maintenance instructions

9. SPECIFICATIONS

Specification	Detail
Model Number	SM550

Specification	Detail
Brand	ATMA SUPPLY
Voltage	120 Volts
Wattage	34 watts
Air Flow Capacity	50 Cubic Feet Per Minute
Maximum Rotational Speed	3000 RPM
Noise Level	14 Decibels
Power Connector Type	2-Pin
Material	Copper
Compatible Devices	Bathroom Exhaust Fans
Package Dimensions	5.16 x 4.88 x 3.82 inches
Item Weight	1.2 Pounds

10. WARRANTY AND SUPPORT

For warranty information or technical support, please contact ATMA SUPPLY directly through their official channels. Keep your purchase receipt as proof of purchase for any warranty claims.