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› vynsnp 30W Bathroom Vent Fan Motor Instruction Manual (Compatible with Nutone Mercury 8200, 8210, M-686, 687, 8870, YJF6158)

vynsnp 756352321217

vynsnp 30W Bathroom Vent Fan Motor Instruction Manual

Compatible with Nutone Mercury 8200, 8210, M-686, 687, 8870, YJF6158

1. INTRODUCTION

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of your vynsnp 30W Bathroom Vent Fan Motor. This motor is designed as a replacement part for various bathroom ventilation systems, including those compatible with Nutone Mercury models 8200, 8210, M-686, 687, 8870, and YJF6158. Please read this manual thoroughly before proceeding with any installation or maintenance.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Always disconnect power at the circuit breaker or fuse box before installing, servicing, or cleaning the fan motor. Failure to do so can result in serious injury or death.

- Ensure all electrical connections comply with local codes and ordinances.
- This motor is intended for use in bathroom vent fan applications only.
- Do not operate the motor if it appears damaged.
- Keep hands and loose clothing away from moving parts during operation.
- If you are unsure about any part of the installation process, consult a qualified electrician.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged:

- 1 x vynsnp 30W Bathroom Vent Fan Motor
- 1 x Fan Blade (typically included and pre-attached or separate)
- 1 x Power Cord with Plug



Image 1: The vynsnp 30W Bathroom Vent Fan Motor assembly, including the motor unit, attached fan blade, and power cord with a standard two-prong plug.

4. SPECIFICATIONS

Feature	Specification
Rated Voltage / Frequency	AC 120V / 60Hz
Insulation Class	B
Temperature Rise	≤85K
Direction of Rotation	CW (Clockwise from shaft driving side)
Axial Gap	0.118" - 0.315"
No-load Low Voltage Start-up	≤72V
Load Low Voltage Start-up	≤90V
Compatibility	Nutone Mercury 8200, 8210, M-686, 687, 8870, YJF6158



Image 2: A detailed view of the motor's side, clearly showing the specification label with model number, voltage, frequency, and rotation direction.

5. SETUP AND INSTALLATION

This section outlines the general steps for replacing a bathroom vent fan motor. Specific procedures may vary depending on your existing fan housing. Always refer to your original fan's manual for detailed removal and installation instructions if available.

1. **Disconnect Power:** Locate the circuit breaker that controls your bathroom fan and switch it to the "OFF" position. Verify power is off by attempting to turn on the fan.
2. **Remove Fan Cover:** Carefully pull down or unclip the fan cover from the ceiling.
3. **Remove Old Motor Assembly:**
 - Disconnect the power plug of the old motor from the receptacle inside the fan housing.
 - Identify how the old motor is mounted (e.g., screws, clips, brackets). Remove any fasteners securing the motor to the housing.
 - Carefully detach the old motor and fan blade assembly.
4. **Install New Motor Assembly:**
 - If the fan blade is separate, attach it to the shaft of the new vynsnp motor. Ensure it is securely fastened and oriented correctly for proper airflow.
 - Position the new motor assembly into the fan housing, aligning it with the mounting points.
 - Secure the new motor with the appropriate fasteners (re-use existing ones if compatible, or use new ones if provided and suitable). Ensure the motor is stable and does not wobble.
 - Plug the new motor's power cord into the receptacle inside the fan housing.

5. **Reattach Fan Cover:** Carefully reattach the fan cover to the ceiling, ensuring it is securely clipped or screwed into place.
6. **Restore Power:** Return to the circuit breaker and switch the power back to the "ON" position.
7. **Test Operation:** Turn on the fan switch to verify proper operation. Listen for unusual noises and observe airflow.



Image 3: The vynsnp fan motor and blade assembly, illustrating its compact design suitable for replacement in various vent fan housings.

6. OPERATING INSTRUCTIONS

Once properly installed, the vynsnp 30W Bathroom Vent Fan Motor operates in conjunction with your existing bathroom fan switch. Simply activate the wall switch to turn the fan on and off. The motor is designed for

continuous operation within its specified voltage and frequency range.



Image 4: A close-up view of the motor and its integrated power plug, highlighting the electrical connection point.

7. MAINTENANCE

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

- **Monthly (or as needed):** Clean the exterior of the fan cover to prevent dust buildup, which can restrict airflow.
- **Annually:**
 - **Disconnect Power:** Always turn off power at the circuit breaker before performing any internal cleaning.
 - **Remove Fan Cover:** Carefully remove the fan cover.

- **Clean Fan Blade:** Gently wipe dust and debris from the fan blade and motor housing using a soft cloth or a vacuum cleaner with a brush attachment. Do not use excessive force or liquids directly on the motor.
- **Inspect Wiring:** Check for any signs of wear, fraying, or loose connections in the wiring.
- **Reassemble:** Reattach the fan cover and restore power.

The motor is designed to be maintenance-free regarding internal lubrication. Do not attempt to lubricate the motor bearings.

8. TROUBLESHOOTING

If you encounter issues with your vynsnp 30W Bathroom Vent Fan Motor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not turn on.	No power to the fan; loose electrical connection; faulty wall switch; motor failure.	Check circuit breaker. Ensure motor plug is securely connected. Test wall switch. If power is present and connections are secure, motor may need replacement.
Fan runs slowly or with reduced airflow.	Dust/debris buildup on fan blade or in housing; obstructed vent duct.	Clean fan blade and housing (see Maintenance section). Check vent duct for blockages.
Fan makes unusual noise (grinding, rattling).	Loose fan blade; debris in motor; motor bearing wear.	Disconnect power and check if fan blade is securely attached. Clean any debris. If noise persists, motor may be failing and require replacement.
Fan vibrates excessively.	Unbalanced fan blade; loose mounting screws.	Ensure fan blade is clean and free of debris. Check that the motor is securely mounted within the housing.

9. WARRANTY AND SUPPORT

Specific warranty details for the vynsnp 30W Bathroom Vent Fan Motor may vary. Please refer to the product packaging or contact the retailer from whom you purchased the product for warranty information. For technical support or further assistance, please contact vynsnp customer service through the contact information provided with your purchase or on the official vynsnp website.