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Fasco 8660-6010

Fasco Plastic Fan Blade User Manual

Model: 8660-6010

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Fasco Plastic Fan Blade, Model 8660-6010. This fan blade is designed as a replacement component for specific Fasco C-frame motors, commonly found in kitchen, bath, and other ventilation systems. Please read this manual thoroughly before installation to ensure safe and efficient use.



Figure 1: Fasco Plastic Fan Blade (Model 8660-6010). This image shows the white plastic fan blade with four distinct blades radiating from a central hub. The hub has a circular bore for motor shaft attachment. One of the blades shows a slight reflection, indicating its plastic material.

2. Safety Information

Always observe the following safety precautions when handling or installing the fan blade:

- **Disconnect Power:** Before attempting any installation or maintenance, ensure the power supply to the motor is completely disconnected at the circuit breaker or fuse box.
- **Wear Protective Gear:** Use appropriate personal protective equipment (PPE), such as safety glasses and gloves, to prevent injury.
- **Handle with Care:** The fan blade edges can be sharp. Handle carefully to avoid cuts.
- **Proper Fit:** Ensure the replacement blade is the correct size and type for your motor. An improperly fitted blade can cause imbalance, noise, and motor damage.
- **Secure Installation:** Verify that the blade is securely fastened to the motor shaft before restoring power.
- **Keep Clear:** Never operate the fan without its protective housing or grille. Keep fingers, loose clothing, and other objects away from moving parts.

3. Specifications

Key technical specifications for the Fasco Plastic Fan Blade 8660-6010:

Feature	Specification
Model Number	8660-6010
Brand	Fasco
Material	Plastic
Diameter	4 inches (approx. 10.16 cm)
Bore Size	0.1811 inches (approx. 0.46 cm)
Bore Type	Round Bore Hub
Rotation	Clockwise (CW)
Item Weight	1 pound (approx. 0.45 kg)
UPC	663001092896

4. Compatibility

This Fasco Plastic Fan Blade (Model 8660-6010) is specifically designed for use with certain Fasco C-frame motors. It is known to fit the following Fasco motor models:

- Fasco Motor K100
- Fasco Motor K102
- Fasco Motor K114
- Fasco Motor K130

Always verify the bore size and rotation direction of your existing motor and fan blade to ensure proper compatibility before purchase and installation.

5. Installation (Setup)

Follow these steps to replace an existing fan blade or install a new one:

1. **Prepare for Installation:**
    - Ensure the power to the motor is OFF and locked out.
    - Gather necessary tools: screwdriver, pliers, and potentially a small wrench.
    - Wear safety glasses and gloves.
2. **Access the Motor:**

    Carefully remove any housing, grille, or cover that obstructs access to the fan motor and blade. Note how these components are assembled for reinstallation.
3. **Remove Old Blade (if applicable):**

    Locate the set screw or fastening mechanism that secures the old blade to the motor shaft. Loosen or remove it. Gently pull the old blade off the shaft. If it's stuck, a penetrating lubricant might help, but avoid damaging the motor shaft.

4. **Install New Blade:**

   Align the bore of the new Fasco 8660-6010 fan blade with the motor shaft. Ensure the blade's rotation direction (CW - Clockwise) matches the motor's intended rotation. Slide the blade onto the shaft until it is fully seated. Secure the blade using the motor's set screw or fastening mechanism. Ensure it is tight but do not overtighten, which could crack the plastic hub.

5. **Verify Alignment and Clearance:**

   Once secured, manually spin the blade to check for any wobbling or rubbing against the motor housing or fan enclosure. The blade should spin freely without obstruction.

6. **Reassemble and Test:**

   Reattach any removed housing, grille, or covers. Restore power to the motor. Briefly turn on the fan to confirm proper operation, checking for unusual noises, vibrations, or lack of airflow.

6. Operation

The Fasco Plastic Fan Blade 8660-6010 is a passive component; its operation is entirely dependent on the motor it is attached to. Once properly installed, the blade will rotate with the motor shaft, generating airflow for ventilation purposes. Ensure the motor is operating within its specified voltage and current limits to prevent damage to both the motor and the fan blade.

7. Maintenance

Regular maintenance helps ensure the longevity and efficiency of your fan blade and ventilation system:

- **Cleaning:** Periodically, with power disconnected, remove any accumulated dust, lint, or debris from the fan blades and motor housing. Use a soft brush or cloth. Avoid harsh chemicals that could damage the plastic.
- **Inspection:** Visually inspect the fan blade for any signs of cracks, chips, or damage. Check that the blade remains securely fastened to the motor shaft. Any damage to the blade can cause imbalance and lead to excessive vibration and noise.
- **Motor Maintenance:** Refer to your motor's specific manual for its maintenance requirements, as proper motor function directly impacts blade performance.

8. Troubleshooting

If you encounter issues after installing the fan blade, consider the following:

Problem	Possible Cause	Solution
Excessive Vibration/Noise	◦ Blade not securely fastened. ◦ Blade is damaged or unbalanced. ◦ Debris on blades. ◦ Incorrect blade for motor/housing.	◦ Ensure set screw is tight. ◦ Inspect blade for damage; replace if necessary. ◦ Clean blades thoroughly. ◦ Verify compatibility and clearance.
No Airflow / Weak Airflow	◦ Blade rotating in wrong direction. ◦ Motor not functioning. ◦ Obstruction in airflow path.	◦ Ensure CW rotation. Check motor wiring if reversible. ◦ Troubleshoot motor separately. ◦ Clear any blockages in ducts or vents.

Problem	Possible Cause	Solution
Blade Not Spinning	◦ Blade not secured to shaft. ◦ Motor failure. ◦ Obstruction preventing rotation.	◦ Tighten set screw. ◦ Consult motor manual or professional. ◦ Remove any obstructions.

9. Disposal

When the fan blade reaches the end of its useful life, please dispose of it responsibly according to local regulations for plastic waste. Do not discard with general household waste.

10. Warranty and Support

This Fasco fan blade is manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided with your original purchase or contact Fasco customer support directly. Keep your proof of purchase for any warranty claims.
For technical assistance or further inquiries, please visit the official Fasco website or contact their customer service department. Always provide the model number (8660-6010) when seeking support.

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