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› Samsung /

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Model: DA81-06013A

1. PRODUCT OVERVIEW

The Samsung DA81-06013A A/S-Assy Motor Fan is an authorized original equipment manufacturer (OEM) replacement part designed for various Samsung brand refrigerator models. This component is crucial for the proper air circulation within the refrigerator's evaporator section, ensuring efficient cooling and temperature regulation.

Key Features:

- Genuine Samsung OEM part.
- Ensures proper air movement over the evaporator coils.
- Compatible with a range of Samsung refrigerator models.



Image 1.1: The Samsung DA81-06013A A/S-Assy Motor Fan. This image displays the square-framed fan motor with black blades and a white foam seal around its perimeter, indicating its design for secure installation and air sealing within an appliance.

2. SAFETY INFORMATION

Before attempting any installation or maintenance, please read and understand all safety instructions. Failure to follow these instructions may result in electric shock, fire, property damage, or personal injury.

- **Disconnect Power:** Always unplug the refrigerator from the power outlet before beginning any repair or maintenance.
- **Qualified Personnel:** Appliance repair should ideally be performed by a qualified technician. If performing DIY, ensure you have the necessary tools and knowledge.
- **Wear Protective Gear:** Use gloves and eye protection to prevent injury.
- **Handle with Care:** Components may have sharp edges or delicate parts.
- **Electrical Connections:** Ensure all electrical connections are secure and correctly reconnected to prevent electrical hazards.

3. INSTALLATION INSTRUCTIONS

This section provides general guidance for replacing the evaporator fan motor. Specific steps may vary depending on your refrigerator model. Refer to your appliance's service manual for detailed, model-specific instructions.

1. Preparation:

- Unplug the refrigerator from the electrical outlet.
- Empty the freezer and refrigerator compartments, especially the area around the evaporator cover.
- Gather necessary tools, which typically include screwdrivers (Phillips and flathead), nut drivers, and possibly a putty knife.

2. Access the Evaporator Fan:

- Locate the evaporator cover, usually at the back of the freezer compartment.
- Remove any shelves, ice maker components, or other obstructions.
- Unscrew and carefully remove the evaporator cover. This may require gentle prying with a putty knife.

3. Remove the Old Fan Motor:

- Disconnect the electrical connector from the old fan motor.
- Unscrew or unclip the old fan motor assembly from its mounting bracket.
- Carefully remove the old fan motor and blade. Note the orientation of the fan blade for correct reinstallation.

4. Install the New Fan Motor:

- Attach the fan blade to the shaft of the new DA81-06013A motor, ensuring it is oriented correctly.
- Mount the new fan motor assembly into the bracket, securing it with screws or clips.
- Connect the electrical connector to the new fan motor. Ensure a secure connection.

5. Reassembly and Testing:

- Replace the evaporator cover, ensuring all screws are tightened.
- Reinstall any removed shelves or components.
- Plug the refrigerator back into the electrical outlet.
- Listen for the fan motor operation and monitor the refrigerator's cooling performance over the next few hours.

If you encounter any difficulties or are unsure about any step, it is recommended to consult a professional appliance technician.

4. OPERATING PRINCIPLES

The evaporator fan motor is an integral part of your refrigerator's cooling system. Its primary function is to circulate air over the evaporator coils, which are responsible for absorbing heat from the refrigerator and freezer compartments. This circulated cold air is then distributed throughout the appliance to maintain consistent temperatures.

When the fan motor operates correctly, it ensures:

- Even temperature distribution in both fresh food and freezer sections.
- Efficient removal of heat and moisture.
- Prevention of excessive ice buildup on the evaporator coils.

5. MAINTENANCE

The Samsung DA81-06013A fan motor is designed for durability and typically requires minimal maintenance. However, periodic inspection can help ensure its longevity and optimal performance.

- **Annual Inspection:** During routine appliance cleaning or maintenance, visually inspect the fan blades for any accumulation of dust or debris.

- **Cleaning:** If accessible and safe to do so (with power disconnected), gently clean any dust from the fan blades using a soft brush or cloth. Avoid using water or cleaning solutions directly on the motor.
- **Listen for Unusual Noises:** Pay attention to any new or unusual noises coming from the refrigerator, such as grinding, squealing, or excessive rattling, which could indicate a fan motor issue.

6. TROUBLESHOOTING

If your refrigerator is experiencing cooling issues or unusual noises, the evaporator fan motor could be a contributing factor. Here are some common symptoms and potential solutions:

Symptom	Possible Cause	Action
Refrigerator not cooling adequately (freezer is fine)	Evaporator fan motor not circulating air to the refrigerator compartment.	Inspect fan for obstructions. If fan is not spinning or spinning slowly/wobbling, replacement may be necessary.
Loud or unusual noises (grinding, buzzing) from freezer area	Fan motor bearings worn out or fan blade hitting an obstruction.	Disconnect power and inspect fan blade for obstructions. If no obstruction, the motor likely needs replacement.
Excessive ice buildup on evaporator coils	Fan motor not running, leading to poor air circulation and defrost issues.	Check fan motor operation. If faulty, replace the motor. Also check defrost system components.

If troubleshooting steps do not resolve the issue, professional diagnosis and repair are recommended.

7. SPECIFICATIONS

Attribute	Detail
Brand	Samsung
Model Number	DA81-06013A
Part Number	DA81-06013A
Product Dimensions	4"L x 4"W x 1"H
Item Weight	4.3 ounces
Material	Metal
Power Connector Type	3-Pin
Cooling Method	Air
Compatible Devices	Refrigerator
Noise Level	0.03 Decibels
UPC	700985107250
Included Components	Evaporator Fan Motor Assembly

8. WARRANTY AND SUPPORT

This Samsung DA81-06013A A/S-Assy Motor Fan is an authorized OEM part. For specific warranty information regarding this replacement part, please refer to the documentation provided with your original Samsung appliance or contact Samsung customer support directly. Warranty terms typically cover manufacturing defects.

For technical assistance or further inquiries, please visit the official Samsung support website or contact their customer service department.