Samsung DA31-00146H

Samsung DA31-00146H Refrigerator Evaporator Fan Motor Instruction Manual

Model: DA31-00146H

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Samsung DA31-00146H Refrigerator Evaporator Fan Motor. Please read these instructions thoroughly before proceeding with any procedures to ensure proper function and to prevent potential damage or injury.

2. Safety Information

WARNING: Always disconnect power to the refrigerator before attempting any installation, maintenance, or repair procedures. Failure to do so can result in electric shock, serious injury, or death.

- Wear appropriate personal protective equipment, such as gloves and safety glasses, during installation.
- If you are unsure about any step, consult a qualified appliance technician.
- Ensure all connections are secure and correct before restoring power.
- Keep children and pets away from the work area.

3. Product Overview

The Samsung DA31-00146H is an evaporator fan motor designed for use in Samsung refrigerators. This motor is crucial for circulating cold air throughout the freezer and refrigerator compartments, ensuring efficient cooling and proper food preservation. It is a direct replacement part for maintaining optimal appliance performance.

Features:

- Exact replacement for original Samsung parts.
- Constructed from durable metal for longevity.
- Designed for stable and efficient refrigeration.
- Corrosion-resistant for extended service life.

Product Images:



Front view of the Samsung DA31-00146H Evaporator Fan Motor, showing the shaft and main body.



Angled view of the motor, highlighting its compact design.



Top view of the motor, showing the shaft and mounting points.



Side view of the motor, displaying the electrical connector.



Bottom view of the motor, showing the base and part number label.

4. Installation and Setup

Replacing an evaporator fan motor requires careful attention to detail. It is crucial to verify that the replacement part number matches the original motor in your refrigerator to ensure compatibility and proper function. Different models of Samsung refrigerators may use motors with varying specifications.

General Installation Steps:

1. **Disconnect Power:** Unplug the refrigerator from the power outlet or turn off the circuit breaker supplying power to the appliance.
2. **Access the Evaporator Fan:** Locate and remove the necessary panels (usually in the freezer compartment) to access the evaporator fan motor. This may involve removing shelves, ice makers, and rear panels.
3. **Disconnect Wiring:** Carefully disconnect the electrical wiring from the old motor. Note the orientation and connection points if necessary.
4. **Remove Old Motor:** Unmount the old evaporator fan motor. This typically involves unscrewing it from its housing.
5. **Install New Motor:** Mount the new DA31-00146H motor in the same position as the old one, ensuring it is securely fastened.
6. **Connect Wiring:** Reconnect the electrical wiring to the new motor, ensuring all connections are firm and correct.
7. **Reassemble:** Replace all panels, shelves, and other components that were removed.

8. **Restore Power:** Plug the refrigerator back into the power outlet or turn on the circuit breaker.
9. **Test Operation:** Listen for the fan motor to operate and observe if the refrigerator begins to cool properly.

Installation Reference Videos:

DA31-00146H Evaporator Fan Motor by GOODS-PRO

Your browser does not support the video tag.

This video from GOODS-PRO demonstrates the DA31-00146H Evaporator Fan Motor, highlighting its quality and exact compatibility with Samsung refrigerators. It shows the motor from various angles and emphasizes the importance of matching part numbers.

BOVZOR Evaporator Fan Motor

Your browser does not support the video tag.

This video from BOVZOR showcases the evaporator fan motor, its features, and ease of installation. It includes close-ups of the motor's components and its application in a kitchen setting.

Evaporator Fan Motor by TIKSCIENCE

Your browser does not support the video tag.

This video from TIKSCIENCE highlights the high-quality material and corrosion-resistant properties of the evaporator fan motor, demonstrating its fit and easy installation.

DA31-00146H DREP5020LC Refrigerator Evaporator Fan Motor by Taillyg

Your browser does not support the video tag.

This video from Taillyg provides a visual guide to the DA31-00146H DREP5020LC Refrigerator Evaporator Fan Motor, showing its appearance and how it relates to a refrigerator unit.

5. Operating Instructions

Once correctly installed, the evaporator fan motor operates automatically as part of your refrigerator's cooling system. It works to draw air over the evaporator coils, where heat is absorbed, and then circulates the cooled air throughout the refrigerator and freezer compartments. No direct user interaction is required for the motor's operation.
Ensure that the refrigerator doors are properly sealed and not left open for extended periods to maintain optimal cooling efficiency and reduce strain on the fan motor.

6. Maintenance

The DA31-00146H evaporator fan motor is designed for long-term, maintenance-free operation. However, regular cleaning of the surrounding areas can help ensure its longevity and efficiency:

- **Clean Evaporator Coils:** Periodically clean any dust or debris from the evaporator coils, as excessive buildup can impede airflow and cause the fan motor to work harder. Always disconnect power before cleaning.
- **Inspect for Obstructions:** Ensure that no items in the freezer or refrigerator are blocking the fan blades or air vents, which could restrict airflow and lead to motor strain or failure.
- **Listen for Unusual Noises:** Pay attention to any new or unusual noises coming from the freezer compartment. A failing fan motor may produce grinding, squealing, or buzzing sounds.

7. Troubleshooting

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

Symptom	Possible Cause	Solution
Refrigerator not cooling sufficiently	Faulty evaporator fan motor, blocked airflow, or defrost system issue.	Check if the fan blades are spinning. Inspect for ice buildup on evaporator coils. If the motor is not running or making unusual noises, it may need replacement.
Unusual noises (grinding, squealing, buzzing) from freezer	Worn motor bearings, fan blade obstruction, or motor failure.	Disconnect power and inspect the fan blades for obstructions. If no obstruction, the motor likely needs replacement.
Freezer is cold, but refrigerator section is warm	Evaporator fan motor not circulating air to the fresh food compartment.	Verify the evaporator fan motor is running. If not, it may require replacement.

For complex issues or if troubleshooting does not resolve the problem, it is recommended to contact a professional appliance repair service.

8. Specifications

Specification	Value
Brand	Samsung
Model	DA31-00146H
Speed	3300 RPM
Material	Metal
UPC	717449114730
ASIN	B01AJFBXP6

9. Warranty and Support

For specific warranty information regarding your Samsung DA31-00146H Evaporator Fan Motor, please refer to the documentation provided by the seller or manufacturer at the time of purchase. Warranty terms can vary depending on the retailer and the specific product.
If you require technical support or have questions about your product, please contact the seller directly through your purchase platform or refer to the official Samsung support channels for general appliance inquiries.

© 2023 Samsung. All rights reserved. This manual is for informational purposes only.