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Dometic NF749306

Dometic 12V/170W Refrigerator Resistance Instruction Manual

Model: NF749306

INTRODUCTION

This instruction manual provides essential information for the Dometic 12V/170W Refrigerator Resistance, an original manufacturer replacement part. This component is crucial for the proper functioning of your Dometic absorption refrigerator, specifically designed to provide the necessary heat for the cooling process when operating on a 12V power supply.

Please read this manual carefully before attempting any installation or maintenance to ensure safe and correct handling of the product.

PRODUCT OVERVIEW



This image displays the Dometic 12V/170W Refrigerator Resistance. It consists of a grey electrical cable leading to a metallic heating rod, designed to provide heat for the refrigerator's absorption cooling system. A white electrical connector is visible at the end of the cable for installation.

The 12V/170W resistance is a heating element that facilitates the absorption cooling cycle in Dometic refrigerators, particularly when the unit is powered by a 12-volt DC source, such as a vehicle battery. It ensures efficient cooling performance during travel or when off-grid.

SETUP AND INSTALLATION

Important Safety Notice: Installation of this component involves electrical connections. It is highly recommended that installation be performed by a qualified technician to avoid electrical shock, damage to the appliance, or personal injury. Always disconnect

the refrigerator from all power sources (AC, DC, and gas) before beginning any installation or maintenance work.

1. **Preparation:** Ensure the refrigerator is completely turned off and disconnected from all power sources. Allow the unit to cool down if it has been recently operating.
2. **Access:** Locate the access panel for the refrigerator's heating element, typically at the rear of the appliance. Refer to your specific refrigerator model's service manual for exact location and access procedures.
3. **Removal of Old Resistance:** Carefully disconnect the electrical wiring from the old resistance. Note the orientation and connection points. Gently remove the old heating element from its housing.
4. **Installation of New Resistance:** Insert the new Dometic 12V/170W resistance into the designated housing. Ensure it is securely seated.
5. **Wiring:** Connect the electrical wiring to the new resistance, ensuring correct polarity and secure connections. The white connector should match the refrigerator's wiring harness.
6. **Testing:** Once installed, close the access panel. Reconnect the refrigerator to the 12V power supply. Turn on the refrigerator and select the 12V operation mode. Monitor the refrigerator's performance to ensure proper cooling.

Compatible Models: This resistance is compatible with various Dometic refrigerator models, including but not limited to: RMD8505, RMDT8505, RMD8555, RML8555, RMD8551, RMSL8501. For a comprehensive list, please refer to the product description or contact Dometic customer support.

OPERATING PRINCIPLES

The Dometic 12V/170W Refrigerator Resistance operates as a heat source within the absorption cooling system. When the refrigerator is set to 12V operation, electrical current flows through this resistance, generating heat. This heat is essential for the evaporation and condensation process of the refrigerant, enabling the refrigerator to cool its interior. The resistance is designed to operate continuously when the 12V power source is active and the refrigerator is in 12V mode, maintaining optimal cooling performance.

MAINTENANCE

The 12V/170W resistance is a sealed component and generally requires minimal maintenance. However, periodic inspection can help ensure its longevity and proper function:

- **Visual Inspection:** During routine refrigerator maintenance, visually inspect the resistance and its wiring for any signs of corrosion, fraying, or damage. Ensure connections are secure.
- **Cleanliness:** Keep the area around the resistance free from dust, debris, or obstructions that could impede heat dissipation.
- **Professional Check:** If you suspect any issues with the heating element's performance, it is advisable to have it checked by a qualified Dometic service technician.

TROUBLESHOOTING

If your Dometic refrigerator is not cooling properly when operating on 12V, the 12V/170W resistance might be a contributing factor. Here are some common troubleshooting steps:

- **No Cooling on 12V:**
 - Check the 12V power supply to the refrigerator. Ensure the vehicle engine is running if the refrigerator is connected to the vehicle's battery, as many systems require the engine to be on for 12V operation.
 - Verify that the 12V fuse for the refrigerator is intact and not blown.
 - Inspect the wiring connections to the resistance for looseness or corrosion.
 - If the resistance is faulty, it will not heat up. A qualified technician can test the resistance for continuity and proper wattage output.

- **Intermittent Cooling:**

- This could indicate a loose connection or an aging resistance. Professional inspection is recommended.

For complex issues or if you are unsure about performing diagnostics, always consult a certified Dometic service center or a qualified appliance technician.

SPECIFICATIONS

Brand	Dometic
Model Number	NF749306
Type	Refrigerator Resistance / Heating Element
Voltage	12V
Wattage	170W
Product Weight	Approximately 249.48 g (0.55 lbs)
Compatible Refrigerator Models	RMD8505, RMDT8505, RMD8555, RML8555, RMD8551, RMSL8501, and others as specified by Dometic.

WARRANTY AND SUPPORT

Warranty Information: Specific warranty terms for this replacement part are typically provided by the seller or Dometic at the time of purchase. Please retain your proof of purchase for any warranty claims. Dometic generally offers a limited warranty on its genuine parts against defects in material and workmanship.

Customer Support: For technical assistance, warranty inquiries, or to locate an authorized service center, please contact Dometic customer support directly or visit their official website. You can also visit the [Dometic Brand Store on Amazon](#) for more information.