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Frigidaire 297259505

Frigidaire 297259505 Refrigerator Compressor Start Relay

Genuine Original Equipment Manufacturer (OEM) Part

1. Product Overview

The Frigidaire 297259505 Refrigerator Compressor Start Relay is a crucial component designed to facilitate the starting process of your refrigerator's compressor motor. This OEM (Original Equipment Manufacturer) part ensures proper function and compatibility with specified Frigidaire refrigerator models. It attaches directly to the compressor, providing the necessary electrical impulse to initiate the motor's operation.

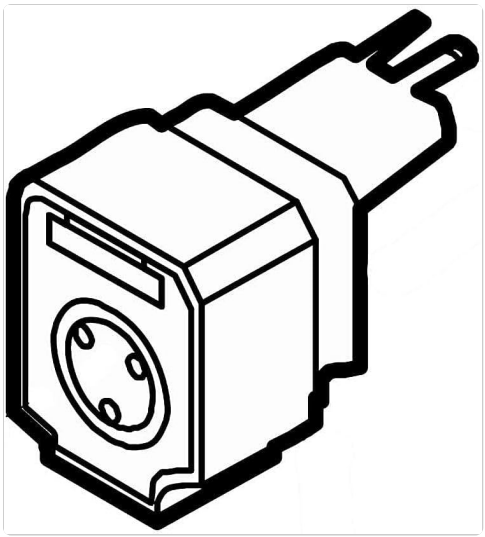


Image 1.1: The Frigidaire 297259505 Refrigerator Compressor Start Relay. This image shows the compact, rectangular design of the relay with electrical terminals.

2. Safety Information

WARNING: Before attempting any repair or installation, always prioritize safety.

- **Disconnect Power:** Always unplug the refrigerator from its power source before installing this part to prevent electrical shock.

- **Food Storage:** Safely store any food that could deteriorate while the power is off and the refrigerator is not operating.
- **Professional Assistance:** If you are unsure about any step, consult a qualified appliance repair technician.

3. Compatibility

This compressor start relay (part number 297259505) is specifically designed for various Frigidaire refrigerator models. It is crucial to verify compatibility with your appliance's model number before purchase and installation.



Image 3.1: Important reminder to check your refrigerator's model number for compatibility. Many parts may look similar but are not interchangeable.

Compatible models include, but are not limited to:

- FFHT1513LQC, FFTR2032TP0, FFTR2032TP1, 25312912410, WWFC18M4RCA, 25360382412, 25360382411, FFHT1621QW2, FFHT1621QW1, FFHT1614QZ1, FFHT1514TW0, FFHT1614QZ2, FFTR2021TW4, LFTR2032TF0, FFTR2021TW3, LFTR2032TF1, 25312812510, CFC162QWA, FFHT1521QW4, FFHT1521QW1, FFHT1521QW2, CFC183QWA, LFTR2021TF6, CRT151HLWB, LFTR2032TP0, FFHT1614QB1, FFHT1513LZC, FFHT1614QB2, 25360312414, 25360312413, 25360312412, KCCF160QWA, 25360312411, FFHT1513LBC, FFHT1514QZ1, FFHT1514QZ3, FFHT1514QZ2, FFHT1514QB1

4. Installation

This section provides general guidance for installing the compressor start relay. Always refer to your specific refrigerator model's service manual for detailed instructions and diagrams.

1. **Prepare:** Ensure the refrigerator is unplugged and safely store any perishable food.
2. **Access Compressor:** Locate the compressor compartment, typically at the bottom rear of the refrigerator.

You may need to remove a rear access panel.

3. **Identify Old Relay:** The start relay is usually a small, rectangular or cylindrical component attached to the side of the compressor. Note its orientation and how it connects.
4. **Disconnect:** Carefully disconnect any wires attached to the old relay. Take a photo if necessary to remember the wiring configuration.
5. **Remove Old Relay:** Gently pull or unclip the old relay from the compressor terminals.
6. **Install New Relay:** Align the new 297259505 start relay with the compressor terminals and push it firmly into place. Ensure a secure connection.
7. **Reconnect Wires:** Reattach the wires to the new relay in the correct configuration.
8. **Test:** Replace the access panel, plug the refrigerator back in, and listen for the compressor to start. Monitor the refrigerator's cooling performance.



Image 4.1: A line drawing illustrating the general appearance of a compressor start relay, showing its connection points. This helps in identifying the part during installation.

5. Operating Principle

The compressor start relay is an electromechanical switch that provides a temporary boost of power to the compressor's start winding during the initial phase of operation. Once the compressor motor reaches a certain speed, the relay disengages the start winding, allowing the compressor to run efficiently on its main winding. This mechanism is essential for the compressor to overcome initial inertia and begin the refrigeration cycle.

6. Maintenance

The Frigidaire 297259505 Compressor Start Relay is a sealed component and does not require routine maintenance. Its lifespan is typically determined by operational cycles and electrical conditions. If the relay fails, it must be replaced; it is not designed to be repaired.

7. Troubleshooting

A faulty compressor start relay can manifest in several ways. If you experience any of the following symptoms, the relay may need replacement:

- **Compressor Not Starting:** The refrigerator runs but does not cool, and the compressor does not hum or vibrate.
- **Clicking Sound:** You hear a distinct clicking sound from the compressor area every few minutes, but the compressor never starts. This indicates the relay is attempting to engage but failing.
- **Refrigerator Not Cooling:** The refrigerator interior is warm, and the compressor is not running.

Always ensure the refrigerator is unplugged before inspecting any components.

8. Specifications

Specification	Detail
Part Number	297259505
Brand	Frigidaire
Item Weight	Approximately 1 pound
Product Dimensions	Approximately 6 x 4 x 4 inches
Batteries Included	No
Batteries Required	No
Type	Compressor Start Relay

9. Warranty and Support

As an Original Equipment Manufacturer (OEM) part, this Frigidaire component is typically covered by the standard warranty terms provided by Frigidaire for genuine replacement parts. For specific warranty details, claims, or technical support, please refer to your refrigerator's original documentation or contact Frigidaire customer service directly. Keep your purchase receipt as proof of purchase.

Frigidaire Customer Support: For assistance, visit the official Frigidaire website or consult your product manual for contact information.

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