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UpStart Components AP-215846602-DL493

Instruction Manual for UpStart Components 215846602 Defrost Timer

Model: AP-215846602-DL493

Brand: UpStart Components

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your UpStart Components 215846602 Defrost Timer. This component is designed as a compatible replacement part for Frigidaire FRT16CRHW3 refrigerators and other models requiring the 215846602 defrost timer.

The defrost timer is a critical component in a refrigerator's defrost system, responsible for cycling the defrost heater on and off to prevent excessive ice buildup on the evaporator coils. Proper functioning of this part ensures efficient cooling and extends the lifespan of your appliance.

SAFETY INFORMATION

WARNING: Before attempting any installation or repair, always disconnect power to the appliance at the circuit breaker or by unplugging it. Failure to do so can result in serious injury or death from electrical shock.

Always wear appropriate personal protective equipment, such as gloves and eye protection, when handling appliance components.

If you are unsure about any step, consult a qualified technician.

SETUP AND INSTALLATION

The UpStart Components 215846602 Defrost Timer is designed for easy at-home installation. While specific steps may vary slightly depending on your refrigerator model, the general procedure involves locating and replacing the existing defrost timer.

Installation Steps:

- Disconnect Power:** Ensure the refrigerator is completely unplugged from the wall outlet or that the circuit breaker supplying power to the refrigerator is turned off.
- Locate the Defrost Timer:** The defrost timer is typically located in one of several places: behind the kick plate at the bottom front of the refrigerator, inside the control panel near the thermostat, or behind the rear access panel. Refer to your refrigerator's specific service manual for the exact location.

3. **Access the Timer:** You may need to remove screws, panels, or clips to gain access to the timer.
4. **Disconnect Wiring:** Carefully note the position of each wire connected to the old defrost timer. It is recommended to take a photograph before disconnecting. Disconnect all wires from the old timer.
5. **Remove Old Timer:** Unmount the old defrost timer from its housing.
6. **Install New Timer:** Mount the new UpStart Components 215846602 Defrost Timer in the same position as the old one.
7. **Connect Wiring:** Reconnect the wires to the new timer, ensuring they are securely attached to the correct terminals.
8. **Reassemble:** Reattach any panels, screws, or clips that were removed.
9. **Restore Power:** Plug the refrigerator back into the wall outlet or turn the circuit breaker back on.
10. **Test Operation:** Monitor the refrigerator for proper cooling and defrost cycles.

For visual reference, here are images of the defrost timer:



Figure 1: Front view of the defrost timer, showing the product in its packaging with the UpStart Components logo. The timer itself is white with four copper terminals at the bottom and specifications printed on its surface.



Figure 2: Side view of the defrost timer, highlighting its compact shape and the rear casing. A date code "12MAR19B" is visible on the back surface.



Figure 3: An angled perspective of the defrost timer, showing the four copper terminals clearly at the bottom and the overall robust construction of the white plastic housing.



Figure 4: A detailed view of the defrost timer's front, clearly displaying the specifications: "SPEC. NO. 10A NON-IND 1/3hp", "8HR 30MIN 120V 60Hz", and a notice regarding capacitor testing.

OPERATING PRINCIPLES

The 215846602 Defrost Timer is an electromechanical device that controls the defrost cycle in your refrigerator. It operates on a timed basis, typically running the compressor for a set period (e.g., 8 hours) and then switching to a defrost cycle for a shorter period (e.g., 30 minutes).

During the defrost cycle, power is diverted from the compressor to the defrost heater, which melts any ice accumulated on the evaporator coils. Once the defrost cycle is complete, the timer switches power back to the compressor, resuming normal cooling operation.

This automatic cycling ensures that the evaporator coils remain free of ice, allowing for efficient heat exchange and consistent cooling performance within the refrigerator.

MAINTENANCE

The defrost timer itself is a sealed unit and does not require routine maintenance. Its lifespan is generally determined by the electrical load and operating conditions.

To ensure the longevity of your defrost timer and the overall efficiency of your refrigerator, it is recommended to:

- Keep the refrigerator coils clean to prevent the compressor from overworking.
- Ensure proper ventilation around the refrigerator.
- Avoid overloading the refrigerator, which can strain the cooling system.

TROUBLESHOOTING

If your refrigerator is experiencing issues related to defrosting, the defrost timer could be a contributing factor. Common symptoms of a faulty defrost timer include:

- **Excessive Ice Buildup:** If the evaporator coils (usually located behind the freezer back panel) are heavily frosted or covered in ice, the defrost timer may not be initiating the defrost cycle.
- **Refrigerator Not Cooling:** If the defrost heater remains on too long due to a stuck timer, it can heat the freezer compartment, preventing proper cooling. Conversely, if the timer fails to advance, the compressor may not run.
- **Compressor Not Running:** A faulty timer can prevent power from reaching the compressor, leading to no cooling.

Before troubleshooting, always disconnect power to the appliance.

Testing the Defrost Timer:

1. **Locate and Access:** Follow the steps in the "Setup and Installation" section to locate and access the defrost timer.
2. **Manual Advance:** Many defrost timers have a small shaft or knob that can be turned manually. Using a flat-head screwdriver, slowly turn the shaft clockwise. You should hear a click as it advances through its cycle. If you hear a click and the compressor starts or stops, the timer may be working mechanically but could be failing electrically.
3. **Continuity Test (Advanced):** For a more thorough test, you would need a multimeter to check continuity across the terminals in different positions of the timer's cycle. This requires knowledge of the timer's wiring diagram and is best performed by a qualified technician.

If testing indicates the timer is faulty, replacement with the UpStart Components 215846602 Defrost Timer is recommended.

SPECIFICATIONS

Attribute	Value
Brand	UpStart Components
Model Number	AP-215846602-DL493
Part Number	215846602
Compatibility	Frigidaire FRT16CRHW3 Refrigerator and other models using 215846602, AP2111929, 00624728, 00626234, 00628510, 00628518, 0628510, 08000559, 08006054, 08950148, 12762, 187484D, 187484F, 240371001, 241621501, 3203657, 5300628518, 5301090474, 5303203657, 5303211155, 5303211680, 5303270622, 5303275811, 5303321133, 5303321915, 5304457327, 5308006054, 5308006992, 604-73086, 628518, 8000559
Electrical Rating	10A NON-IND 1/3hp, 120V 60Hz

Defrost Cycle Time	Approximately 30 minutes
Run Cycle Time	Approximately 8 hours
Date First Available	May 24, 2019

WARRANTY INFORMATION

This product is an UpStart Components Brand replacement part. Any warranties for this product are offered solely by UpStart Components. This product is not affiliated with any original equipment manufacturer (OEM) brands and is not covered under any warranties offered by the original manufacturers.

For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact UpStart Components directly.

SUPPORT

For technical assistance, troubleshooting guidance, or warranty inquiries regarding your UpStart Components 215846602 Defrost Timer, please contact UpStart Components customer support.

Please have your product model number (AP-215846602-DL493) and purchase information ready when contacting support.

Note: As this is a replacement part, specific contact details for UpStart Components are not provided in this general manual. Please refer to your purchase receipt or the UpStart Components website for current contact information.

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