

## GRABOTE W10515057 LED Light Board

# GRABOTE W10515057 LED Light Board Assembly Instruction Manual

Model: W10515057 LED Light Board | Brand: GRABOTE

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and troubleshooting of the GRABOTE W10515057 LED Refrigerator Light Board. This component is designed as a replacement part for various Whirlpool, Kenmore, Maytag, Ikea, and Kitchenaid refrigerators. Please read this manual thoroughly before proceeding with installation to ensure proper function and safety.

## 2. SAFETY INFORMATION

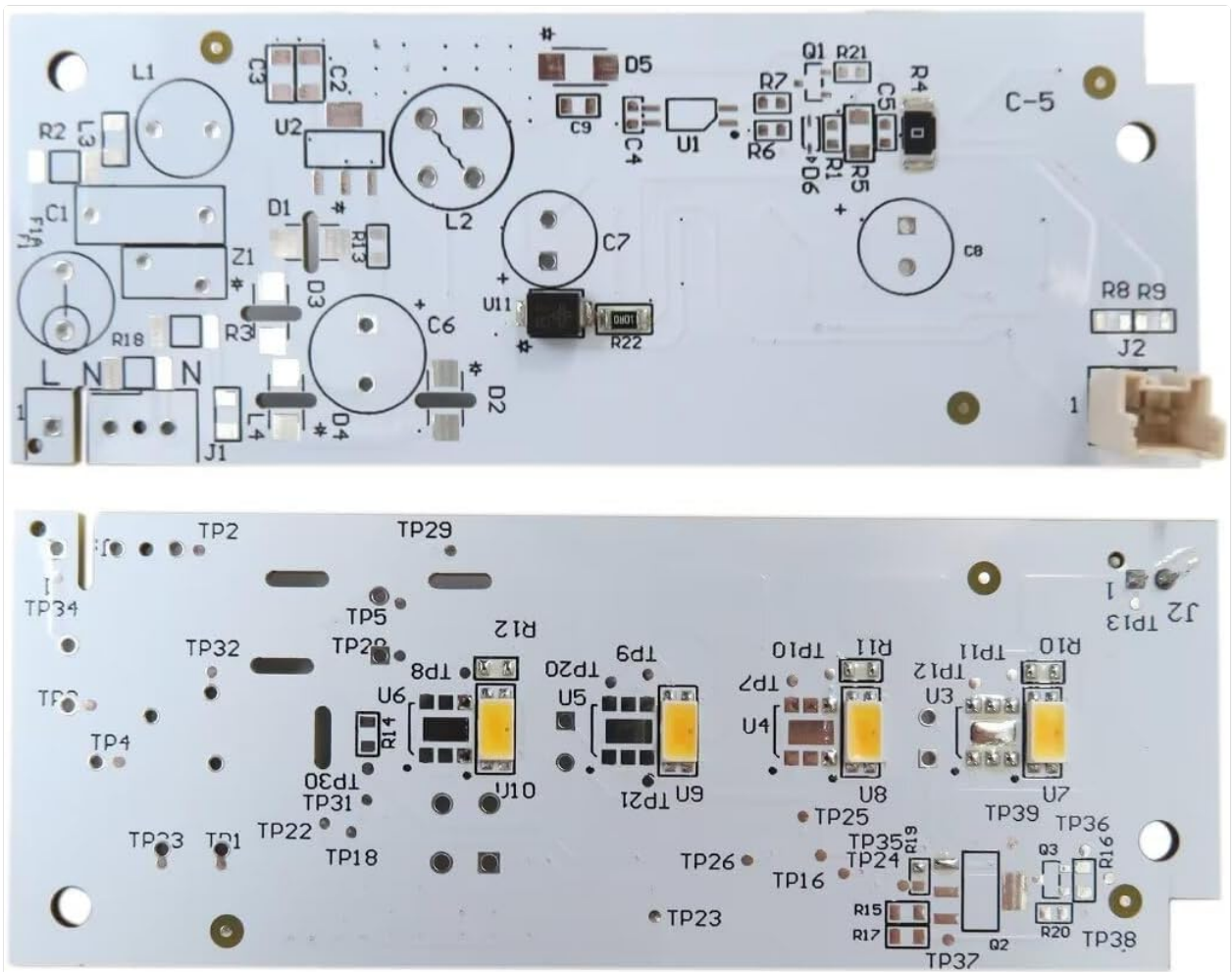
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- Always disconnect power to the refrigerator before attempting any installation or repair. Failure to do so may result in electric shock or injury.
- Wear appropriate personal protective equipment, such as gloves, to prevent injury.
- Handle the LED board carefully to avoid damage to electronic components.
- If you are unsure about any step, consult a qualified appliance repair technician.
- This product is an electrical component. Keep it dry and away from moisture.

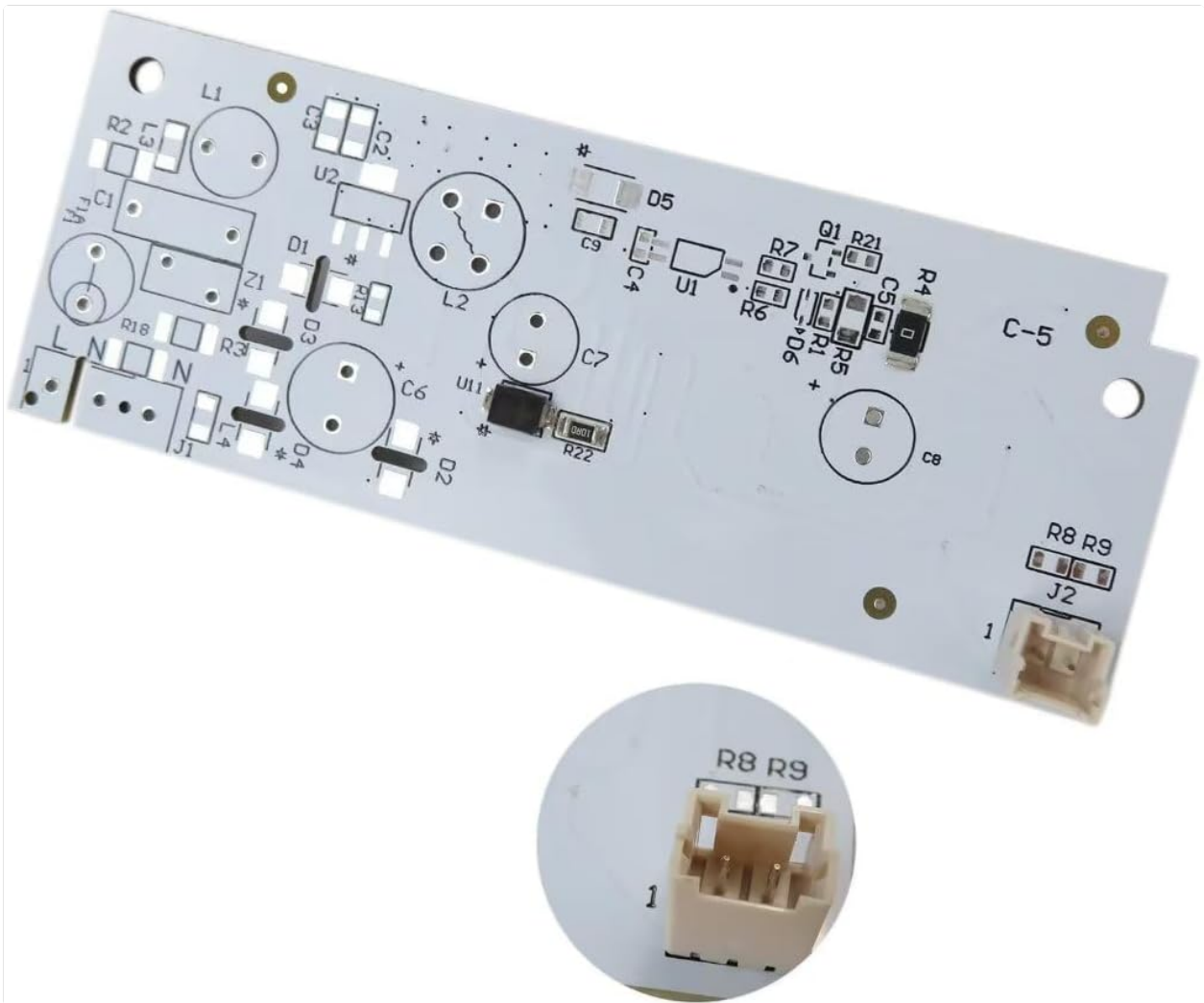
## 3. PRODUCT OVERVIEW

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The W10515057 LED Light Board is a replacement printed circuit board (PCB) designed to restore illumination within your refrigerator. It is a direct replacement for part numbers WPW10515057, W10398007, and W10515057. This product includes only the PCB board and does not come with a plastic housing or cover. You will need to reuse your existing housing.



**Figure 3.1:** Front and back view of the W10515057 LED Light Board. This image displays the electronic components on one side and the test points on the reverse side of the circuit board.



**Figure 3.2:** Close-up view of the electrical connector on the W10515057 LED Light Board, showing the pin configuration for power input.

## 4. COMPATIBILITY

The W10515057 LED Light Board is compatible with a wide range of refrigerator models from Whirlpool, Maytag, Kenmore, Ikea, and Kitchenaid. Below is a partial list of compatible models:

### Compatible with Whirlpool Models:

- 7WRS22F: 7WRS22FDBF00, 7WRS22FDBF02, 7WRS22FDBW00, 7WRS22FDBW02, 7WRS22FEBF00
- 7WRS25F: 7WRS25FDBF00, 7WRS25FDBF02, 7WRS25FEBF00
- 8WRS25KNB: 8WRS25KNBF00, 8WRS25KNBF02
- WRS322FDA: WRS322FDAB00, WRS322FDAB01, WRS322FDAB03, WRS322FDAB04, WRS322FDAB05, WRS322FDAD00, WRS322FDAD01, WRS322FDAD04, WRS322FDAM01, WRS322FDAM02, WRS322FDAM03, WRS322FDAT00, WRS322FDAT01
- WRS322FNA: WRS322FNAB00, WRS322FNAE00, WRS322FNAE01, WRS322FNAE02, WRS322FNAE03, WRS322FNAH00, WRS322FNAH01, WRS322FNAM00, WRS322FNAM01, WRS322FNAW00
- WRS325FDA: WRS325FDAB01, WRS325FDAB02, WRS325FDAB04, WRS325FDAB05, WRS325FDAB06, WRS325FDAD02, WRS325FDAM01, WRS325FDAT02, WRS325FDAT04, WRS325FDAW02, WRS325FDAW04
- WRS325FNA: WRS325FNAB00, WRS325FNAE00, WRS325FNAE01, WRS325FNAE02,

WRS325FNAE03, WRS325FNAH00, WRS325FNAH01, WRS325FNAM00, WRS325FNAM01,  
WRS325FNAW00

- WRS331FDD: WRS331FDDB00, WRS331FDDB02, WRS331FDDM00, WRS331FDDM01,  
WRS331FDDW00, WRS331FDDW01
- WRS335FDD: WRS335FDDB01, WRS335FDDB02, WRS335FDDM00, WRS335FDDM01,  
WRS335FDDW00, WRS335FDDW01
- WRS342FIA: WRS342FIAB00, WRS342FIAB02, WRS342FIAB03, WRS342FIAB04, WRS342FIAM00,  
WRS342FIAM02, WRS342FIAM03, WRS342FIAT00, WRS342FIAW00, WRS342FIAW02,  
WRS342FIAW03

#### **Compatible with Maytag Models:**

- MSF25D4: MSF25D4XAM00, MSF25D4MDE00, MSF25D4MDE01, MSF25D4MDE02,  
MSF25D4MDE03, MSF25D4MDH00, MSF25D4MDH01, MSF25D4MDH02, MSF25D4MDM00,  
MSF25D4MDM01, MSF25D4MDM02, MSF25D4XAB00, MSF25D4XAW00
- MSB27C2: MSB27C2XAB00, MSB27C2XAM00, MSB27C2XAW00
- MSF21D4: MSF21D4MDE00, MSF21D4MDE01, MSF21D4MDE02, MSF21D4MDH00,  
MSF21D4MDH01, MSF21D4MDM00, MSF21D4MDM01
- MSF22D4: MSF22D4XAB00, MSF22D4XAB01, MSF22D4XAM00, MSF22D4XAM01, MSF22D4XAW00,  
MSF22D4XAW01

## **5. SETUP AND INSTALLATION**

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Follow these steps carefully to install the W10515057 LED Light Board:

1. **Disconnect Power:** Before beginning, unplug your refrigerator from the power outlet or turn off the circuit breaker supplying power to the appliance.
2. **Locate Existing Light Board:** Identify the faulty LED light board(s) within your refrigerator. Many refrigerators have multiple LED boards. The W10515057 boards are typically located in the fresh food and freezer compartments. There is also a main LED board (part number W10515058) usually located in the ceiling of the refrigerator.



**Figure 5.1:** Illustration of typical LED light board locations within a refrigerator. Note the W10515057 boards in the main compartments and the W10515058 main board at the top.



Figure 5.2: A visual representation of where the LED light boards are typically positioned inside a refrigerator, indicated by blue arrows.

3. **Remove Old Board:** Carefully remove the existing LED light board from its plastic housing. Disconnect any wiring harnesses attached to it.
4. **Prepare New Board:** The W10515057 replacement board does not include the plastic housing. You must reuse the original housing from your refrigerator.

**The package does not include the plastic housing and plastic cover.**



You must snap the new led light board into your existing housing.



**Figure 5.3:** This image clarifies that the product is the bare circuit board and does not include the plastic housing or cover, which must be reused from the original part.

- 5. Install New Board into Housing:** Carefully snap the new W10515057 LED Light Board into your existing plastic housing. Ensure it is seated securely.

## SIMPLE INSTALLATION

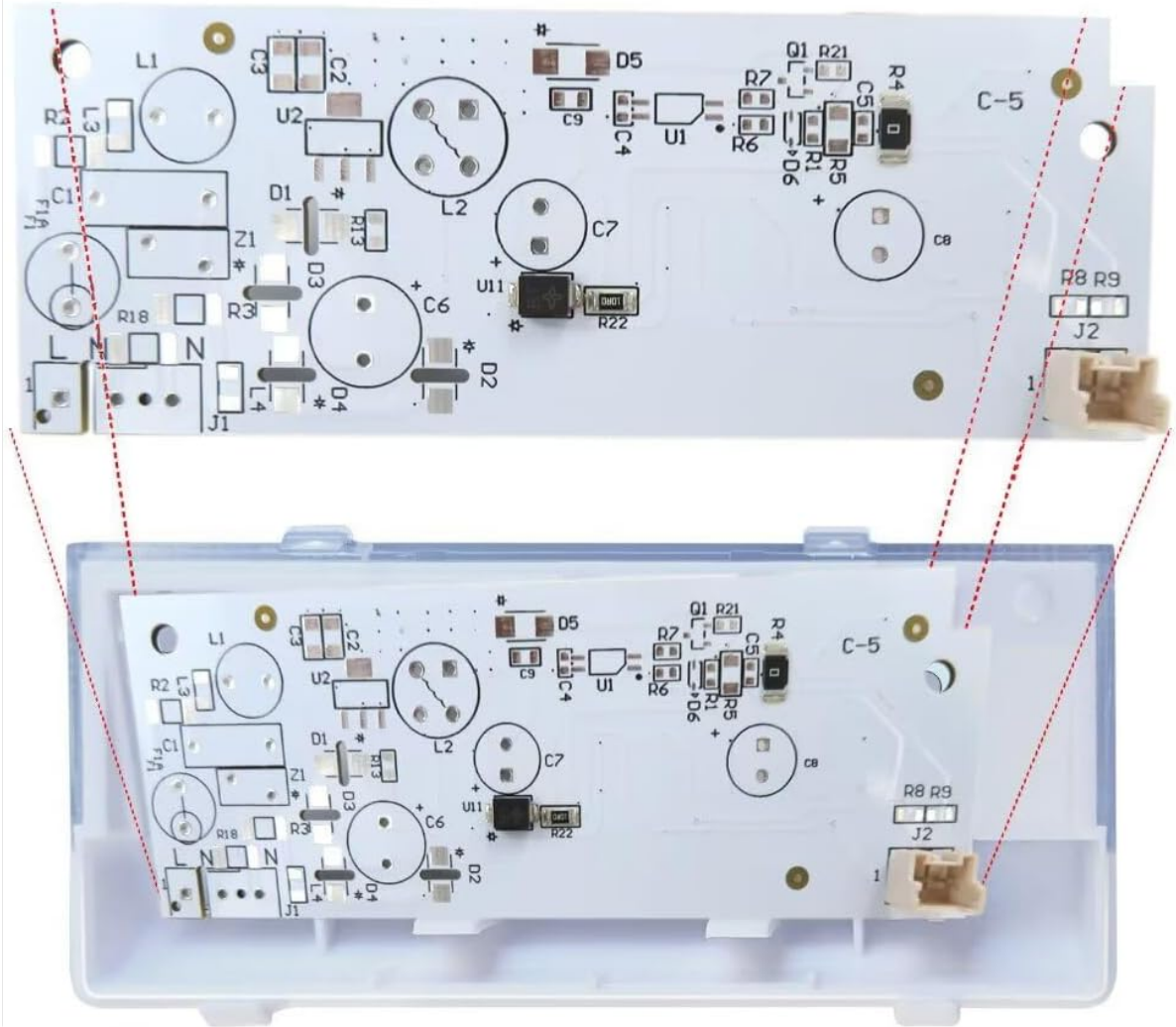


Figure 5.4: A step-by-step visual guide demonstrating how to correctly insert the new LED light board into its corresponding plastic housing.

- 6. Reconnect and Reinstall:** Reconnect the wiring harness to the new LED board. Reinstall the assembled light board back into its position in the refrigerator.
- 7. Restore Power:** Once installation is complete and all components are securely in place, plug the refrigerator back into the power outlet or turn on the circuit breaker. Test the new light board for proper operation.

## 6. OPERATING CHARACTERISTICS

The W10515057 LED Light Board operates within specific voltage parameters to ensure optimal performance and light output:

- **Normal Working Voltage:** 12.5V (White light will appear on the light board)
- **Minimum Support Voltage:** 10.2V (Dim white light will appear on the light board. If voltage is below 10.2V, the light board will not illuminate due to low voltage.)
- **Maximum Support Voltage:** 16V (Blue light may appear on the light board at this voltage.)

## 7. MAINTENANCE

The W10515057 LED Light Board is designed for long-term, maintenance-free operation. However, to ensure its longevity:

- Keep the area around the light board clean and free of debris.
- Avoid exposing the board to excessive moisture or extreme temperatures.
- Do not attempt to modify the board or its components.

## 8. TROUBLESHOOTING

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If your new W10515057 LED Light Board is not functioning correctly, consider the following:

- **Light is Dim, Flickering, or Not Working:** Before replacing the W10515057 board(s), it is crucial to check the main LED board (part number W10515058) located in the ceiling of your refrigerator. If the W10515058 main board has failed, it can cause one or both W10515057 boards to be dim, flicker, or not work at all. The W10515058 main board must be replaced first if it is faulty, as it supplies power to the W10515057 boards.
- **No Light:** Ensure the refrigerator is properly plugged in and receiving power. Verify that the wiring harness is securely connected to the LED board.
- **Incorrect Light Color:** Refer to the Operating Characteristics section (Section 6) to check if the voltage supplied to the board is within the normal range. Blue light may indicate a higher voltage, while dim white light indicates lower voltage.
- **Physical Damage:** Inspect the board for any visible signs of damage, such as burnt components or broken connections. If damage is present, the board may need to be replaced.

## 9. SPECIFICATIONS

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Attribute	Detail
Manufacturer	GRABOTE
Part Number	W10515057 LED Light Board
Compatible Part Numbers	WPW10515057, W10398007, W10515057
Normal Working Voltage	12.5V
Minimum Support Voltage	10.2V
Maximum Support Voltage	16V

## 10. WARRANTY AND SUPPORT

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For information regarding warranty coverage or technical support for your GRABOTE W10515057 LED Light Board, please contact the seller or manufacturer directly. Keep your purchase receipt as proof of purchase.

