

Unbrella CF18, CF25, CF35, CF40, CF50, CF60, CDF35, CDF45

Unbrella Thermistor Repair Kit User Manual

Models: Waeco CF18, CF25, CF35, CF40, CF50, CF60, VERA VERB CDF35, CDF45

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Unbrella Thermistor Repair Kit. This kit is designed to replace faulty thermistors in compatible Waeco CF series and VERA VERB CDF series portable refrigerators, restoring proper temperature sensing and control. Please read these instructions carefully before proceeding with any repair.

2. SAFETY INFORMATION

- Always disconnect the refrigerator from its power source before attempting any repair or maintenance.
- Wear appropriate personal protective equipment, such as gloves and eye protection, if necessary.
- If you are unsure about any step, consult a qualified technician.
- Ensure all connections are secure after installation to prevent electrical hazards.

3. PRODUCT OVERVIEW

The Unbrella Thermistor Repair Kit includes a temperature-sensitive resistance probe, a durable UL-certified cable, and a quick-response plug for easy connection. This component is crucial for your refrigerator's temperature regulation system.



Figure 3.1: The complete Umbrella Thermistor Repair Kit, featuring the thermistor probe, cable, and connector.

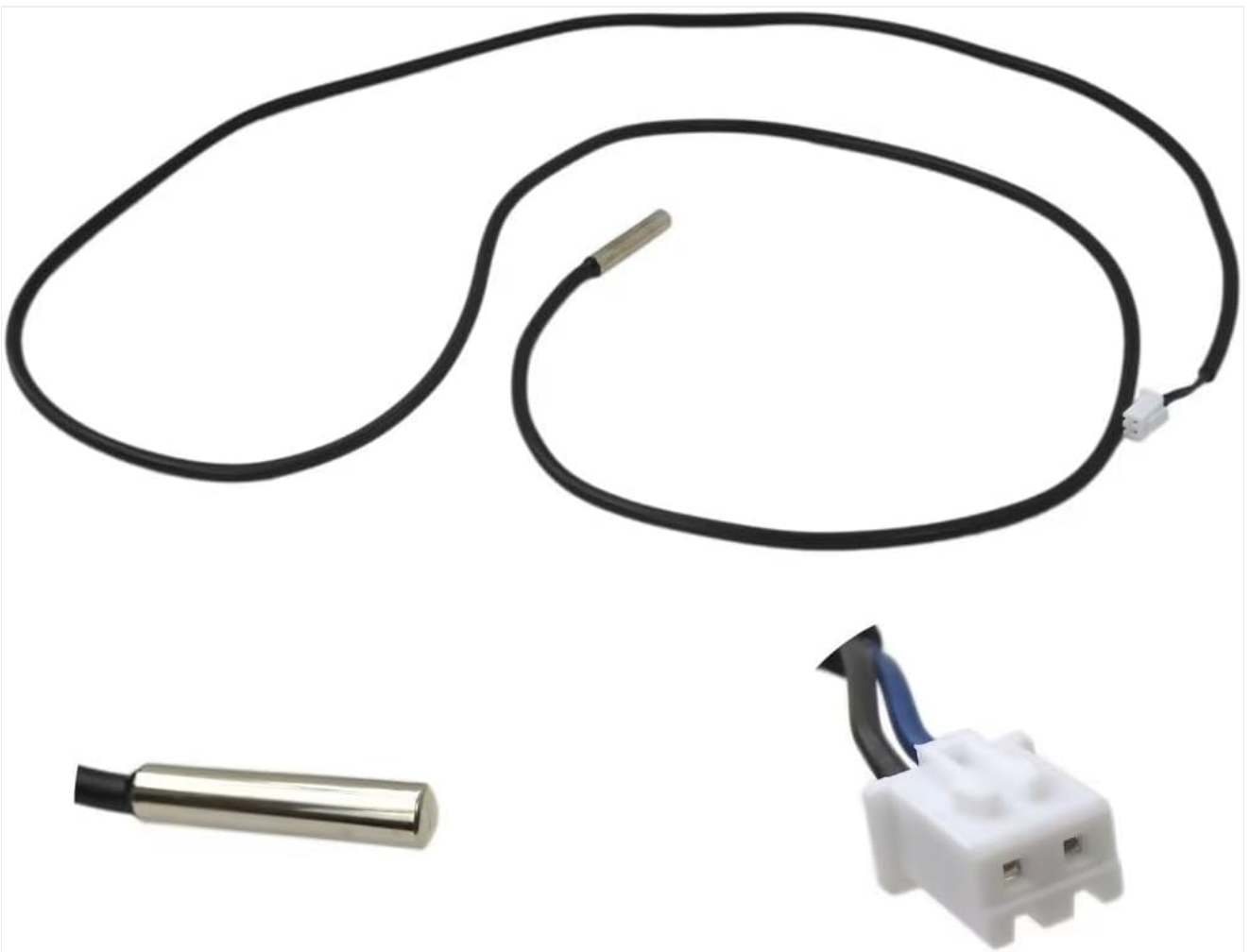


Figure 3.2: Close-up view of the thermistor probe and its quick-response plug connector.



Figure 3.3: Detailed view highlighting the quick response plug, temperature sensitive resistance probe, and UL cable construction.



Figure 3.4: Key features of the thermistor, emphasizing its temperature sensitivity, quick response, and durable design.

4. COMPATIBILITY

This thermistor repair kit is compatible with the following portable refrigerator models:

- Waeco CF Series: CF18, CF25, CF35, CF40, CF50, CF60
- VERA VERB CDF Series: CDF35, CDF45

These units typically require a single thermistor cable replacement as provided by this kit.



Thermistor Repair Kit

For Waeco CF18, CF25, CF35, CF40, CF50, CF60, all VERA, all VERB, CDF35 and CDF45.

These fridge units require only a single thermistor cable replacement as provided (OEM)



Figure 4.1: Visual confirmation of the thermistor repair kit's compatibility with various Waeco and VERA VERB models.

5. INSTALLATION AND SETUP

Replacing a thermistor requires careful attention to detail. If you are not comfortable performing electrical repairs, it is recommended to seek professional assistance.

General Installation Steps:

1. **Disconnect Power:** Ensure the refrigerator is completely unplugged from all power sources (AC and DC).
2. **Locate Old Thermistor:** Identify the location of the existing thermistor within your refrigerator. This often involves removing access panels or internal components. Refer to your refrigerator's specific service manual for exact location.
3. **Remove Old Thermistor:** Carefully disconnect the old thermistor's plug and remove the probe from its mounting. Note its routing and position.
4. **Install New Thermistor:** Route the new Umbrella thermistor cable in the same manner as the old one. Secure the new probe in the correct position.
5. **Connect New Thermistor:** Plug the new thermistor's connector securely into the corresponding port.
6. **Reassemble:** Reattach any removed panels or components.

7. **Test:** Reconnect power to the refrigerator and monitor its operation to ensure proper temperature regulation.

Installation Videos:

Video 5.1: General guide on replacing a refrigerator thermistor. This video demonstrates the process of replacing a thermistor in a refrigerator unit.

Video 5.2: Specific instructions for RV refrigerator thermistor repair, applicable to Waeco CF18 and CF25 models. This video provides a detailed walkthrough for replacing the thermistor in compatible RV refrigerators.

6. OPERATING PRINCIPLES

The thermistor functions as a temperature sensor, providing critical feedback to the refrigerator's control board. It measures the internal temperature and allows the system to adjust cooling cycles to maintain the desired temperature range. A properly functioning thermistor ensures efficient and consistent cooling performance.

7. MAINTENANCE

The Umbrella Thermistor Repair Kit is designed for durability and requires minimal maintenance once installed. However, periodic checks can help ensure its longevity and optimal performance:

- **Visual Inspection:** Occasionally inspect the visible parts of the thermistor cable and connector for any signs of wear, damage, or corrosion.
- **Cleanliness:** Ensure the area around the thermistor probe is free from debris or ice buildup, which could interfere with accurate temperature sensing.
- **Secure Connections:** Verify that the connector remains firmly seated.

8. TROUBLESHOOTING

A faulty thermistor is a common cause of temperature control issues in portable refrigerators. If you experience any of the following problems after installation, consider re-checking the thermistor connection or consulting a professional:

- **Refrigerator Too Hot:** The unit is not cooling sufficiently, or the temperature is consistently higher than the set point.
- **Refrigerator Too Cold / Icing:** The unit over-cools, leading to freezing or excessive ice buildup, indicating the thermistor might be incorrectly reporting the temperature.
- **Temperature Abnormality:** Inconsistent temperature readings or erratic cooling cycles.
- **Error Codes:** Some refrigerators may display specific error codes related to temperature sensor failure. Consult your refrigerator's manual for code interpretation.



Refrigerator too hot
 Refrigerator is too cold
 resulting in icing
 Refrigerator temperature
 abnormality
 Aging of the original
 thermistor

Figure 8.1: Visual representation of common issues that a faulty thermistor can cause, such as incorrect temperature and icing.

9. SPECIFICATIONS

Feature	Detail
Brand	Unbrella
ASIN	B0CB7NHQZZ
Date First Available	July 6, 2023
Compatibility	Waeco CF18, CF25, CF35, CF40, CF50, CF60; VERA VERB CDF35, CDF45

10. WARRANTY AND SUPPORT

Information regarding product warranty and customer support for the Unbrella Thermistor Repair Kit was not provided in the available product details. Please refer to the seller's information on the purchase platform for any warranty claims or support

inquiries.