

## DFHYTHU BCD-440WY/HC

# DFHYTHU BCD-440WY/HC Refrigerator Power Supply Board Instruction Manual

Model: BCD-440WY/HC

## 1. PRODUCT OVERVIEW

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This manual provides essential information for the installation, operation, and maintenance of the DFHYTHU BCD-440WY/HC power supply board. This component is designed as a replacement or repair part for Hisense Rongsheng refrigerators, specifically compatible with models using the BCD-440WY/HC main control board. The power supply board is crucial for the proper functioning of your refrigerator's main control system, ensuring stable power delivery and accurate temperature regulation.

### Key Features:

- **Compatibility:** Specifically designed for Hisense Rongsheng refrigerators using the BCD-440WY/HC main control.
- **Material Construction:** Utilizes industrial-grade materials and advanced circuit boards for stable operation in harsh refrigerator environments.
- **Refrigeration Management:** Facilitates accurate temperature adjustment to maintain food freshness and improve refrigerator efficiency.
- **Durability and Reliability:** Incorporates comprehensive protection mechanisms against overvoltage, overheating, and short circuits, reducing long-term failure risks.
- **Ease of Installation:** Features a simple plug-and-play design for quick and direct replacement without special tools.

## 2. SAFETY INFORMATION

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**WARNING:** Before attempting any installation, repair, or maintenance on your refrigerator, always ensure the appliance is completely disconnected from the main power supply. Failure to do so can result in electric shock, serious injury, or death.

- Always unplug the refrigerator from the wall outlet before beginning installation.
- If you are unsure about any step, consult a qualified technician.

- Handle the power supply board with care to avoid damage to electronic components.
- Do not attempt to modify the board or its connections.

### 3. INSTALLATION GUIDE

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The BCD-440WY/HC power supply board is designed for straightforward replacement. Follow these steps carefully:

1. **Disconnect Power:** Ensure the refrigerator is unplugged from the electrical outlet.
2. **Access the Control Panel:** Locate and carefully open the access panel where the existing power supply board is housed. This location varies by refrigerator model; refer to your refrigerator's service manual if needed.
3. **Identify and Disconnect:** Observe the connections to the old power supply board. Take a photograph if necessary to remember the wiring configuration. Carefully disconnect all cables and connectors from the old board.
4. **Remove Old Board:** Unscrew or unclip the old power supply board from its mounting points.
5. **Install New Board:** Position the new DFHYTHU BCD-440WY/HC power supply board in the same location. Secure it using the original screws or clips.
6. **Connect Cables:** Reconnect all cables and connectors to the new board, ensuring they are firmly seated in their correct positions. Refer to your photograph if you took one.
7. **Close Access Panel:** Securely close the refrigerator's access panel.
8. **Restore Power:** Plug the refrigerator back into the electrical outlet.
9. **Test Functionality:** Verify that the refrigerator powers on and functions correctly, including temperature regulation.



Image 1: The BCD-440WY/HC power supply board. This image shows the layout of the board with various connectors (CN7, CN6, CN12, J14) and components like capacitors and resistors. The model number "BCD-440WY/HC2" is visible on a label. This visual aid helps in identifying the correct replacement part and understanding its physical connections during installation.

#### 4. OPERATION

Once correctly installed, the DFHYTHU BCD-440WY/HC power supply board operates automatically as an integral part of your refrigerator's control system. Its primary function is to provide stable power to the main control unit and other components, enabling:

- **Accurate Temperature Control:** The board ensures the main control receives consistent power to monitor and adjust internal refrigerator temperatures, maintaining optimal conditions for food preservation.
- **Efficient Refrigeration Cycles:** By supplying reliable power, it supports the efficient operation of the compressor and fans, contributing to the overall energy efficiency of the appliance.
- **System Stability:** Its robust design and built-in protection mechanisms contribute to the long-term stability and reliability of your refrigerator's electrical system.

No direct user interaction is required with the power supply board itself after installation. Its operation is managed by the refrigerator's main control system.

## 5. MAINTENANCE

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The DFHYTHU BCD-440WY/HC power supply board is designed for durability and requires minimal direct maintenance. However, general refrigerator maintenance practices can help ensure its longevity and optimal performance:

- **Keep Refrigerator Clean:** Regularly clean the interior and exterior of your refrigerator to prevent dust and debris buildup, which can affect overall appliance performance.
- **Ensure Proper Ventilation:** Make sure the refrigerator's condenser coils and vents are clear of obstructions to allow for proper airflow and heat dissipation.
- **Avoid Power Surges:** Consider using a surge protector for your refrigerator to safeguard against electrical fluctuations that could potentially damage electronic components.
- **Professional Inspection:** If you suspect any issues with the power supply or overall refrigerator function, consult a qualified appliance technician for inspection and diagnosis.

The board's built-in overvoltage, overheating, and short-circuit protection mechanisms are designed to enhance its reliability and reduce the need for frequent maintenance.

## 6. TROUBLESHOOTING

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If your refrigerator experiences issues after installing the new power supply board, consider the following troubleshooting steps:

- **No Power:**
  - Check if the refrigerator is securely plugged into a working electrical outlet.
  - Verify the circuit breaker for the refrigerator has not tripped.
  - Ensure all connectors on the power supply board are firmly seated.
- **Incorrect Temperature:**
  - Confirm that the refrigerator's temperature settings are correct.
  - Check for any obstructions blocking air vents inside the refrigerator.
  - Ensure the refrigerator door seals are intact and closing properly.
- **Unusual Noises:**
  - Inspect for any loose components or wiring that might be vibrating.
  - If the noise is coming from the compressor or fan, it may indicate an issue beyond the power supply board.

If these steps do not resolve the issue, it is recommended to contact a qualified appliance repair technician for further diagnosis and assistance. Do not attempt complex repairs yourself unless you are qualified.

## 7. SPECIFICATIONS

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Attribute	Value
Model Number	BCD-440WY/HC
Compatibility	Hisense Rongsheng refrigerators (main control 1624374)
Item Weight	1.76 ounces
Package Dimensions	0.39 x 0.39 x 0.39 inches
Manufacturer	gvrgv444 (DFHYTHU)
Date First Available	July 2, 2025

## 8. WARRANTY AND SUPPORT

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For warranty information, returns, or technical support regarding your DFHYTHU BCD-440WY/HC power supply board, please refer to the retailer or platform where the product was purchased. Typically, product returns are accepted within 30 days of purchase for refund or replacement, subject to the seller's policy.

If you have questions about compatibility or installation that are not covered in this manual, please contact the seller directly for assistance.