

OBUZUNOOD

# Generic Midea Refrigerator Compressor Control Unit Drive Board Instruction Manual

Models: VNX, VNT, VTB1113Y, VTH1113Y

## 1. INTRODUCTION

This document provides essential instructions for the installation, operation, and maintenance of the Generic Compressor Control Unit Drive Board. This board is designed as a replacement part for Midea refrigerator compressors, specifically compatible with models VNX, VNT, VTB1113Y, and VTH1113Y. Adherence to these instructions is crucial for safe and effective use.

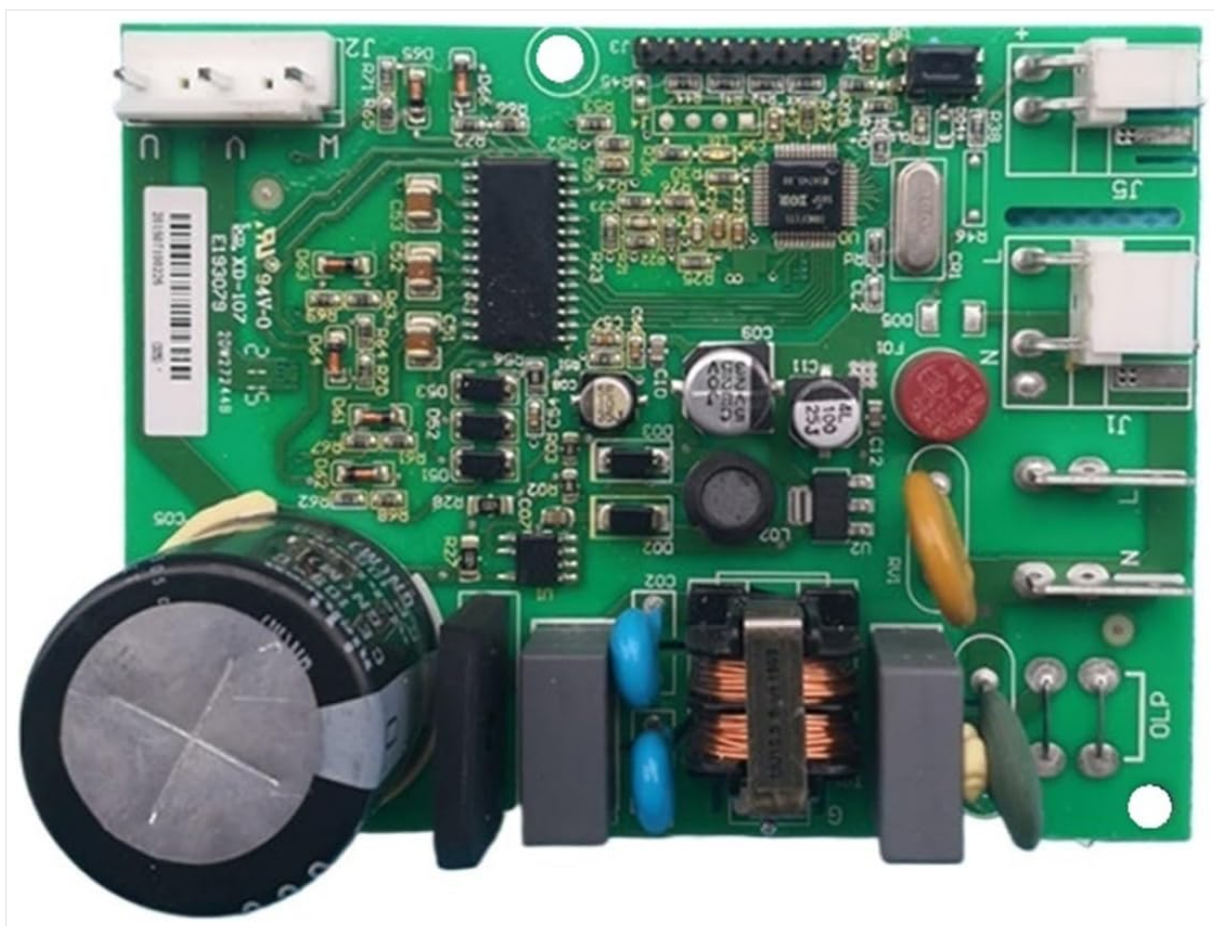
## 2. SAFETY INFORMATION

**WARNING: Risk of electric shock.** Before performing any installation, maintenance, or troubleshooting, always disconnect the refrigerator from its power source. Wait at least 30 seconds after unplugging to allow residual electrical charge to dissipate before touching any terminals or components. Installation and replacement of this inverter board should only be performed by qualified and experienced professionals to prevent personal injury, electric shock, or damage to the appliance.

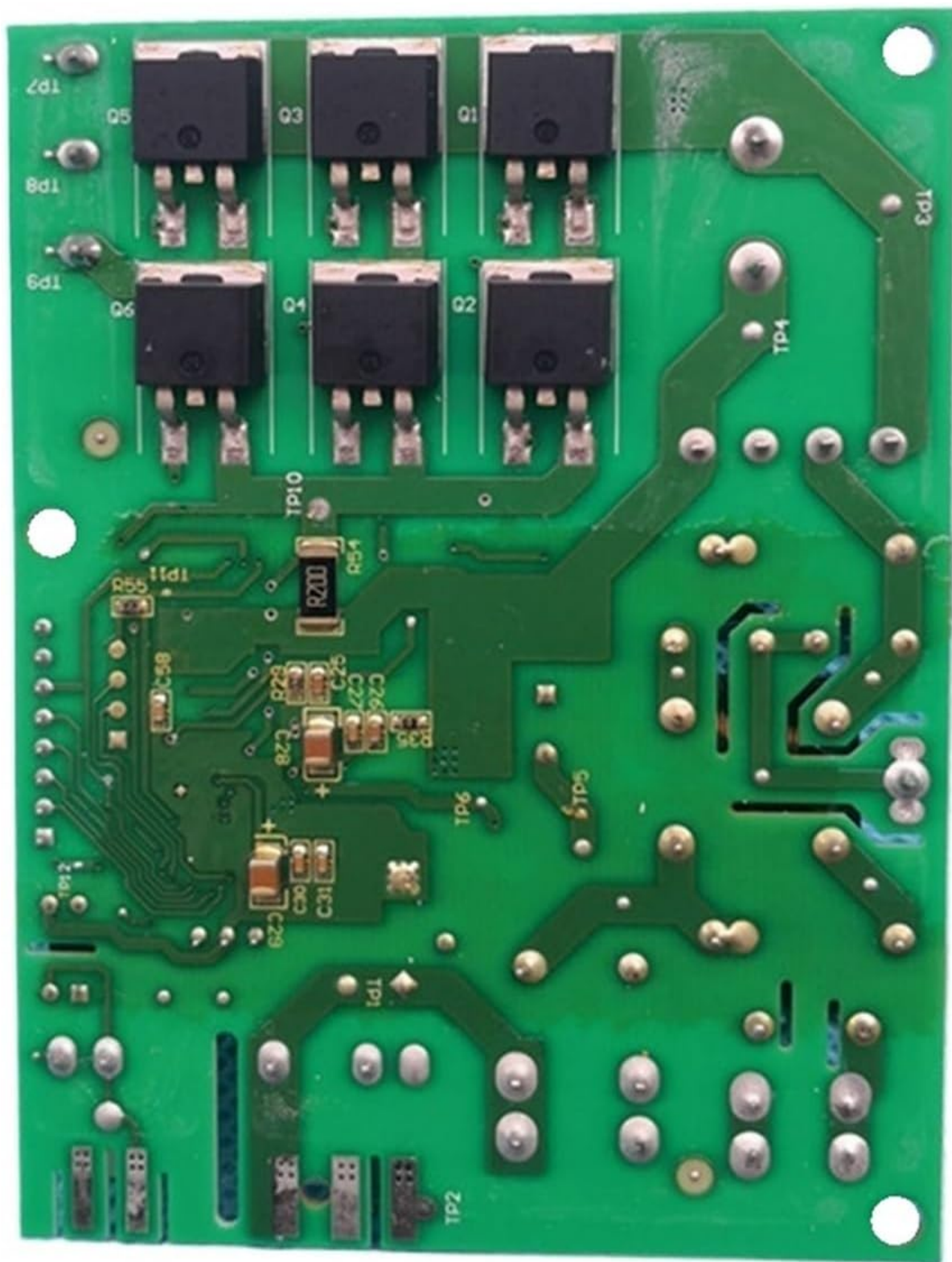
- Always wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.
- Ensure the work area is dry and well-lit.
- Do not attempt to repair or modify the board yourself if you are not a qualified technician.

## 3. PRODUCT OVERVIEW

The Compressor Control Unit Drive Board is an essential inverter board responsible for regulating the compressor's operation in compatible Midea refrigerators. It ensures stable operation and optimal performance of the appliance by controlling the compressor's speed and power. This replacement board is manufactured with high-quality, wear-resistant, and corrosion-resistant materials to ensure durability and a long service life.



**Figure 3.1:** Front view of the Compressor Control Unit Drive Board. This image displays the main electronic components, including integrated circuits, capacitors, and connection points, which are crucial for controlling the refrigerator's compressor.



**Figure 3.2:** Rear view of the Compressor Control Unit Drive Board. This perspective highlights the solder connections and the power transistors, which are vital for managing the electrical current to the compressor.

## 4. SETUP AND INSTALLATION

Installation of this drive board requires technical expertise. It is strongly recommended that a qualified appliance repair technician performs the installation to ensure proper function and safety.

### Installation Steps (for Qualified Professionals):

1. **Disconnect Power:** Ensure the refrigerator is completely unplugged from the electrical outlet.
2. **Access the Control Board:** Locate and carefully open the compartment housing the existing compressor

control unit drive board. This may involve removing screws or panels.

3. **Document Connections:** Before disconnecting, take clear photos or make diagrams of all wiring connections to the old board. This will aid in correct reassembly.
4. **Remove Old Board:** Carefully disconnect all wires and mounting hardware from the old drive board and remove it.
5. **Install New Board:** Position the new Generic Compressor Control Unit Drive Board in the same location. Secure it with the appropriate mounting hardware.
6. **Reconnect Wiring:** Using your documentation, carefully reconnect all wires to the new board, ensuring each connection is secure and correctly seated.
7. **Secure Compartment:** Close and secure the control board compartment.
8. **Restore Power:** Plug the refrigerator back into the electrical outlet.
9. **Test Operation:** Monitor the refrigerator's operation to ensure the compressor starts and functions correctly.

## 5. OPERATING INSTRUCTIONS

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Once correctly installed by a qualified technician, the drive board operates automatically as an integral part of the refrigerator's compressor system. It requires no direct user interaction or manual operation. The board manages the compressor's functions based on the refrigerator's internal temperature sensors and control settings.

## 6. MAINTENANCE

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This drive board is designed for long-term reliability and typically requires no routine user maintenance. To ensure optimal performance and longevity of the refrigerator and its components, consider the following general maintenance tips:

- Ensure the refrigerator's condenser coils are clean and free of dust and debris. Blocked coils can lead to increased heat and strain on the compressor and control board.
- Verify that the refrigerator's ventilation is not obstructed, allowing for proper airflow around the appliance.
- Avoid placing the refrigerator in direct sunlight or near heat sources, which can cause it to work harder.

## 7. TROUBLESHOOTING

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The drive board is a component within a larger system. Troubleshooting issues related to its function typically requires diagnostic skills beyond basic user knowledge. If the refrigerator exhibits issues after board replacement, such as the compressor not starting, unusual noises, or inconsistent cooling, consider the following:

- **Verify Connections:** Ensure all electrical connections to the new board are secure and correctly made. Loose connections can cause intermittent operation or complete failure.
- **Power Supply:** Confirm the refrigerator is receiving adequate power and that the circuit breaker has not tripped.
- **Professional Diagnosis:** If problems persist, it is highly recommended to consult a qualified appliance repair technician. They can perform advanced diagnostics to identify whether the issue lies with the control board, compressor, or other refrigerator components.

## 8. SPECIFICATIONS

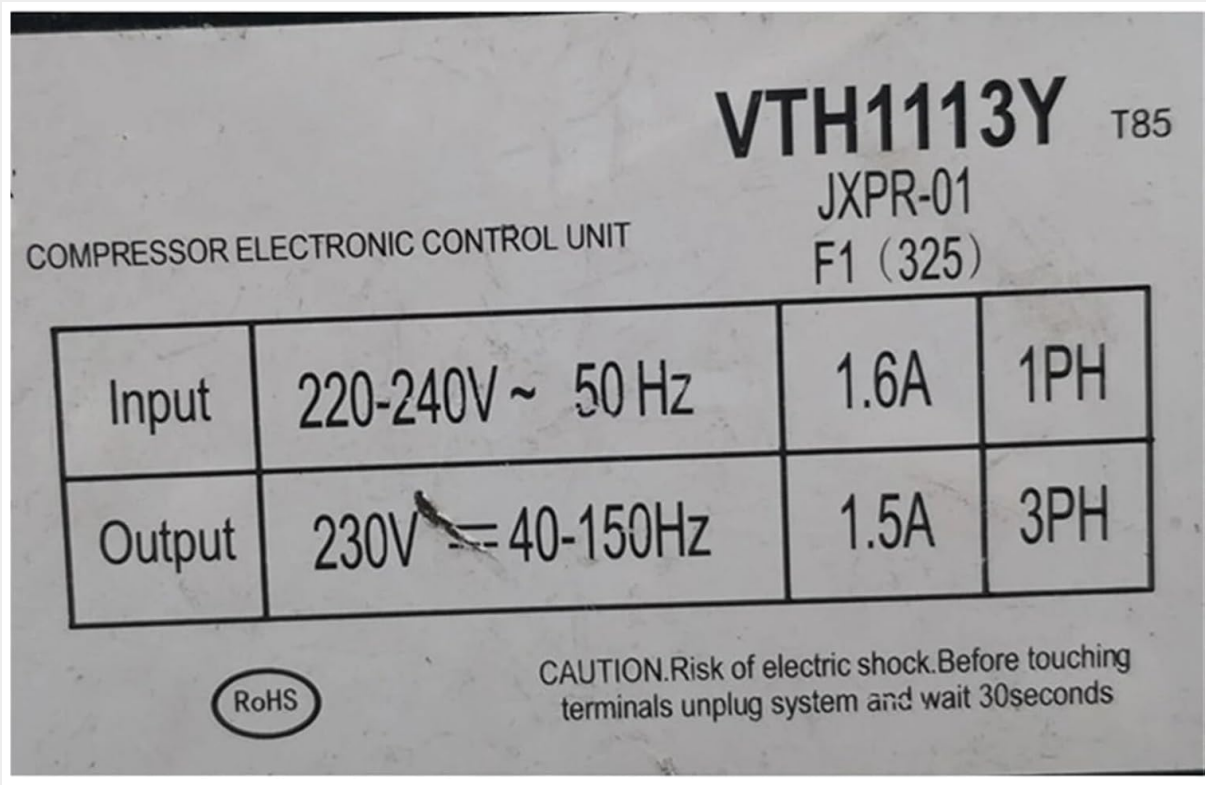
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Detailed specifications for the Generic Compressor Control Unit Drive Board:

Attribute	Detail
Model Number	OBUZUNOOD



Attribute	Detail
Manufacturer	Generic
Item Weight	1.76 pounds (0.8 kg)
Package Dimensions	9.84 x 5.91 x 3.94 inches (25 x 15 x 10 cm)
Compatible Midea Compressor Models	VNX, VNT, VTB1113Y, VTH1113Y



**Figure 8.1:** Electrical specifications label for the VTH1113Y Compressor Electronic Control Unit. This label details the input and output voltage, frequency, and current ratings for the control board.

**Electrical Specifications (from label):**

Parameter	Input	Output
Voltage	220-240V ~	230V =
Frequency	50 Hz	40-150Hz
Current	1.6A	1.5A
Phase	1PH	3PH

**9. WARRANTY AND SUPPORT**

Information regarding specific warranty terms for this Generic product is not provided in this manual. For any warranty claims, technical support, or inquiries about the product, please contact the original seller or the manufacturer directly. Retain your proof of purchase for any warranty-related communications.

