

DSVFBB DB9203526A, DB41-01301A

DSVFBB Compatible Samsung DVM-S Compressor Inverter PCB Instruction Manual

Models: DB9203526A, DB41-01301A

1. PRODUCT OVERVIEW

This manual provides essential information for the DSVFBB compatible Compressor Inverter PCB, designed for Samsung DVM-S VRF Outdoor Units. Specifically, it covers models DB9203526A and DB41-01301A. This component is crucial for the efficient operation of the air conditioning system, managing the compressor's speed and power.

The PCB (Printed Circuit Board) acts as the control center for the inverter compressor, ensuring optimal performance and energy efficiency in compatible air conditioning units.

2. SAFETY INFORMATION

WARNING: Installation, maintenance, and repair of this product must be performed by qualified and certified technicians only. Improper handling of electrical components can result in serious injury, electric shock, or damage to the equipment.

- Always disconnect power to the outdoor unit before attempting any installation, inspection, or maintenance.
- Ensure proper grounding of the unit.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.
- Do not touch live electrical components.
- Verify all connections are secure and correct before restoring power.

3. PRODUCT FEATURES

This Compressor Inverter PCB offers several key operational advantages:

- Fast Startup Speed:** Designed for quick initiation of the air conditioning system.
- Reliable Operation:** Engineered to prevent leakage, ensuring consistent and safe performance.
- Enhanced Durability:** Constructed with robust materials for extended lifespan and resistance to damage.
- Automatic Fault Detection:** Incorporates features for rapid identification of system malfunctions, facilitating quicker maintenance.

- **Vibration Resistance:** Designed to remain securely in place even under significant air conditioner vibration.



Figure 3.1: Top-down view of the Compressor Inverter PCB, showing various components and connections.

4. SPECIFICATIONS

Attribute	Detail
Model Numbers	DB9203526A, DB41-01301A
Type	Compressor Inverter PCB, Air Conditioner Part
Compatibility	Samsung DVM-S VRF Outdoor Units
Manufacturer	yuanjiye (as listed by seller)

Attribute	Detail
Package Dimensions	0.39 x 0.39 x 0.39 inches
Item Weight	1.76 ounces
ASIN	B0F7RSSZVT



Figure 4.1: Detailed view of the PCB, highlighting various electronic components.

5. INSTALLATION AND SETUP

Installation of the Compressor Inverter PCB requires specialized knowledge and tools. It is strongly recommended that this procedure be carried out by a certified HVAC technician.

1. **Power Disconnection:** Ensure the main power supply to the outdoor unit is completely disconnected and locked

out before beginning any work.

2. **Access Panel Removal:** Carefully remove the access panels of the outdoor unit to expose the existing PCB.
3. **Component Identification:** Identify the old PCB and all connected wiring harnesses. It is advisable to photograph the existing setup for reference.
4. **Disconnection:** Disconnect all wiring harnesses and mounting screws from the old PCB.
5. **New PCB Placement:** Install the new DSVFBB compatible PCB in the same location, securing it with appropriate fasteners.
6. **Wiring Connection:** Reconnect all wiring harnesses to the new PCB, ensuring each connection is firm and correctly seated according to the unit's wiring diagram.
7. **Verification:** Double-check all connections for accuracy and security.
8. **Panel Reinstallation:** Replace the access panels.
9. **Power Restoration:** Restore power to the unit and perform functional tests as per the air conditioner manufacturer's guidelines.



Figure 5.1: Angled view of the PCB, illustrating its form factor and component layout.

6. OPERATION

Once correctly installed, the Compressor Inverter PCB operates automatically as an integral part of the Samsung DVM-S VRF Outdoor Unit. Its primary function is to regulate the speed of the compressor motor, optimizing refrigerant flow and energy consumption based on the system's cooling or heating demands. No direct user interaction with the PCB is required for its operation.



Figure 6.1: Close-up view of the power capacitors on the PCB, critical for stable power delivery.

7. MAINTENANCE

The Compressor Inverter PCB itself typically requires minimal direct maintenance. However, regular inspection of the outdoor unit by a qualified technician is recommended to ensure its longevity and proper function.

- **Visual Inspection:** During routine HVAC system maintenance, technicians should visually inspect the PCB for any signs of overheating, corrosion, loose connections, or physical damage.
- **Dust and Debris Removal:** Ensure the area around the PCB is free from excessive dust and debris, which can impede cooling and lead to component failure. Use compressed air for gentle cleaning if necessary, with power disconnected.
- **Connection Checks:** Periodically verify that all electrical connections to the PCB are secure and free from oxidation.

Any detected issues should be addressed promptly by a professional.

8. TROUBLESHOOTING

If the air conditioning unit experiences operational issues after PCB installation, or if the unit displays fault codes related to the inverter or compressor, professional diagnosis is essential.

- **Fault Code Analysis:** Refer to the Samsung DVM-S VRF Outdoor Unit's service manual for specific fault code interpretations. The automatic fault detection feature of this PCB can assist in pinpointing issues.
- **Power Supply Check:** Verify that the unit is receiving stable power.
- **Wiring Integrity:** Ensure all wiring connections to the PCB are intact and correctly seated.
- **Component Testing:** A qualified technician can use specialized equipment to test the functionality of the PCB and associated components.

Do not attempt to repair the PCB yourself. Contact a certified HVAC service provider for assistance.

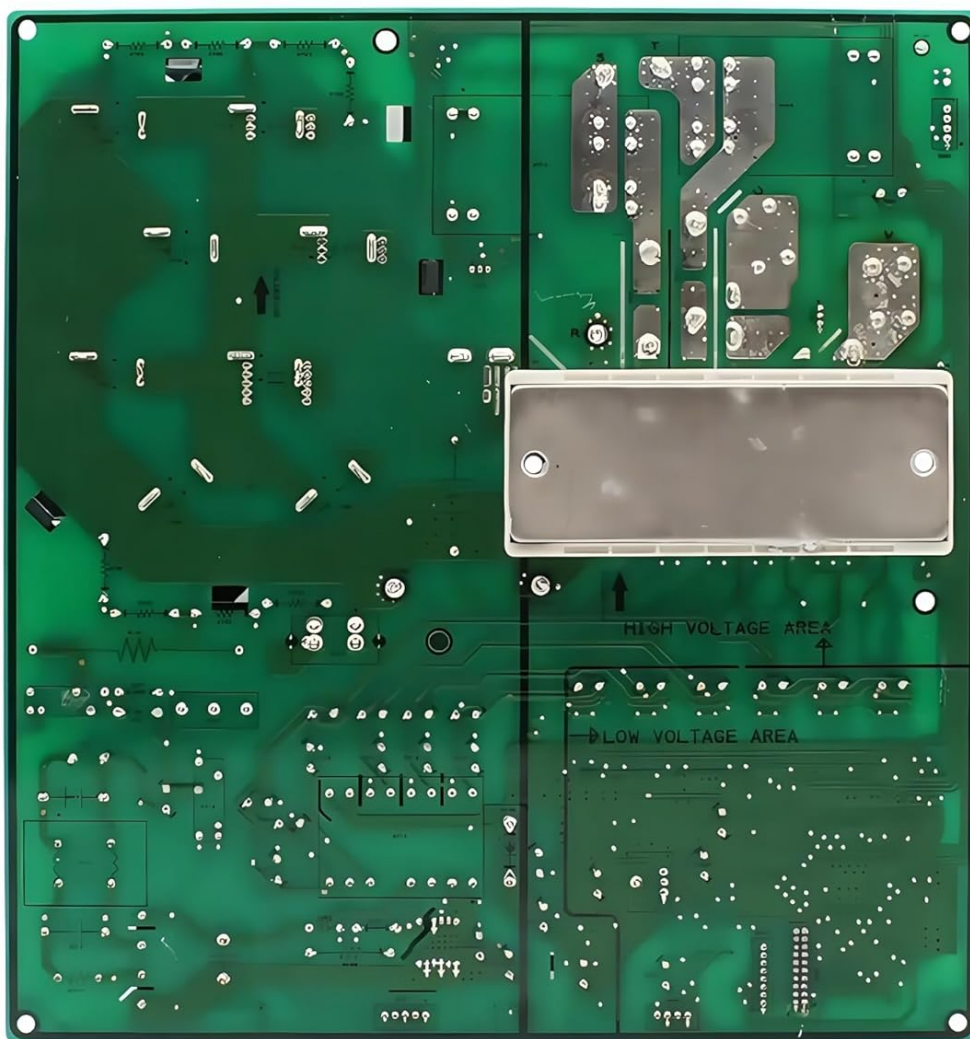

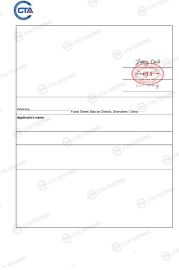



Figure 8.1: Bottom view of the PCB, revealing the intricate circuit traces and solder connections.

9. WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for this DSVFBB compatible Compressor Inverter PCB, please refer to the documentation provided by your seller or contact the manufacturer directly. Ensure you have your purchase details and the product model numbers (DB9203526A, DB41-01301A) available when seeking support.

 A side-by-side comparison of two Samsung Smart-TV remote controls. On the left is the original TM1850A remote, and on the right is the replacement BN59-01259B. Below the remotes is a detailed table mapping buttons to their functions for various Samsung TV models.	<p>Samsung Smart-TV Remote Control Function Guide: TM1850A BN59-01259B & Replacement Models</p> <p>Detailed comparison of original and replacement remote control buttons for Samsung Smart TVs, including models TM1850A BN59-01259B, BN59-01301A, and BN59-01350B. Find button function mapping from Mandis shop.</p>
 A document titled 'FCC Part 15 Subpart C Test Report for BN59-01266A Remote Control'. It features the CTA logo at the top left and a large, faint watermark of the report's title across the center. The document contains technical details about the remote control's compliance testing.	<p>FCC Part 15 Subpart C Test Report for BN59-01266A Remote Control</p> <p>This document presents the FCC Part 15 Subpart C test report for the BN59-01266A remote control manufactured by Anhui Xingye Science, Industry and Trade (Group) Co., Ltd. The report, conducted by Shenzhen CTA Testing Technology Co., Ltd., details compliance testing for radiated emissions, power output, spectral density, bandwidth, and antenna requirements.</p>
 A document titled 'Samsung Remote Control User Guide and Compatibility'. It features a large, faint watermark of the title across the center. The document provides comprehensive information about Samsung remote control functions, installation steps, and compatibility with various Samsung TV models.	<p>Samsung Remote Control User Guide and Compatibility</p> <p>Comprehensive guide to Samsung remote control functions, installation steps, and compatibility with various Samsung TV models. Includes model numbers for easy reference.</p>