

- › [GODIYMODULES](#) /
- › [GODIYMODULES High Voltage DC Converter Module Board User Manual](#)

GODIYMODULES 9a15f5fc-1910-4546-a3dc-71cb82c03580

GODIYMODULES High Voltage DC Converter Module Board User Manual

Model: 9a15f5fc-1910-4546-a3dc-71cb82c03580

1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of the GODIYMODULES High Voltage DC Converter Module Board. This module is designed to provide stable high voltage DC and filament voltage, suitable for applications such as powering Nixie tubes and Magic Eye tubes.



Image 1.1: Top-down view of the GODIYMODULES High Voltage DC Converter Module Board. This image shows the overall layout of the components, including capacitors, inductors, the DC input jack, and the terminal blocks for input and output connections.

2. SAFETY INFORMATION

WARNING: This module generates high voltage. Improper handling can result in electric shock, injury, or damage to equipment. Always exercise extreme caution when working with high voltage circuits.

- Ensure the power supply is disconnected before making any connections or adjustments.
- Do not touch any components on the board when power is applied.
- Use appropriate insulation and safety equipment.
- Verify all connections are correct before applying power.
- This module is intended for experienced electronics hobbyists and professionals.

3. FEATURES

- Designed for Nixie and Magic Eye Tube anode and filament power supply.
- Adjustable high voltage DC output.
- Dedicated 6.3V filament voltage output.

- Compact board design.

4. SPECIFICATIONS

Parameter	Value
Input Voltage	DC 9V-12V
DC Socket Specification	5.5*2.1 mm (Inner Positive, Outer Negative)
High Voltage Output	DC 150V-280V / 15mA (Adjustable)
Filament Voltage Output	DC 6.3V / 1500mA
Dimensions	Approximately 5.24 x 3.82 x 1.34 inches (Package)
Weight	Approximately 0.634 ounces
Material	Metal, Plastic

5. SETUP AND CONNECTIONS

Follow these steps to correctly connect the High Voltage DC Converter Module Board to your system. Ensure all power is disconnected before proceeding.

5.1 Input Power Connection

The module accepts a DC input voltage between 9V and 12V. There are two methods for providing input power:

1. **DC Power Jack:** Use a DC power adapter with a 5.5*2.1 mm plug. The plug must be **inner positive and outer negative**.
2. **Terminal Block:** Connect your DC 9V-12V power supply to the designated input terminals on the green screw terminal block. Observe correct polarity.

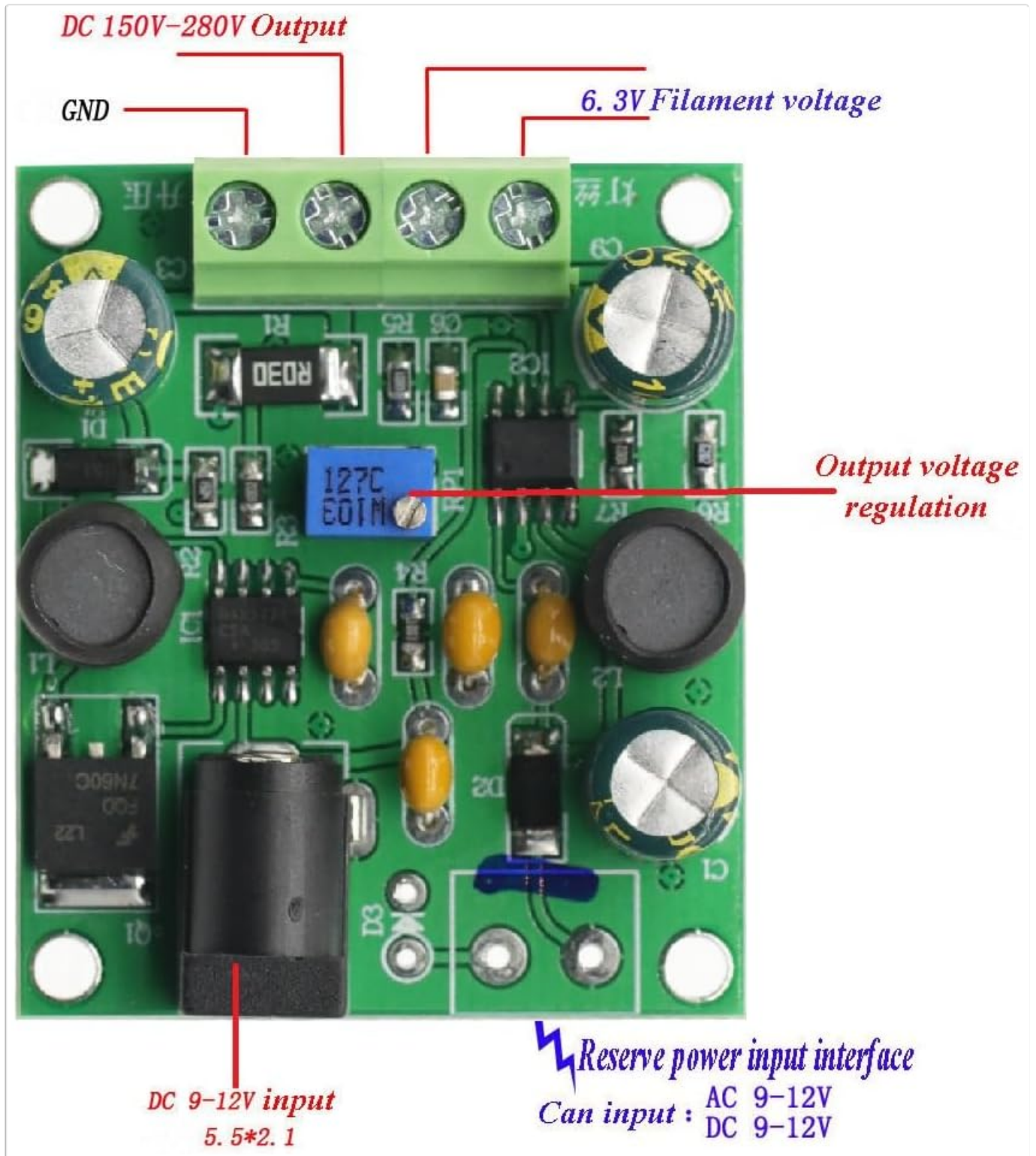


Image 5.1: Connection diagram showing input and output terminals. The DC 9-12V input can be connected via the barrel jack (5.5*2.1mm, inner positive, outer negative) or the screw terminal block. The image also indicates the output voltage regulation potentiometer.

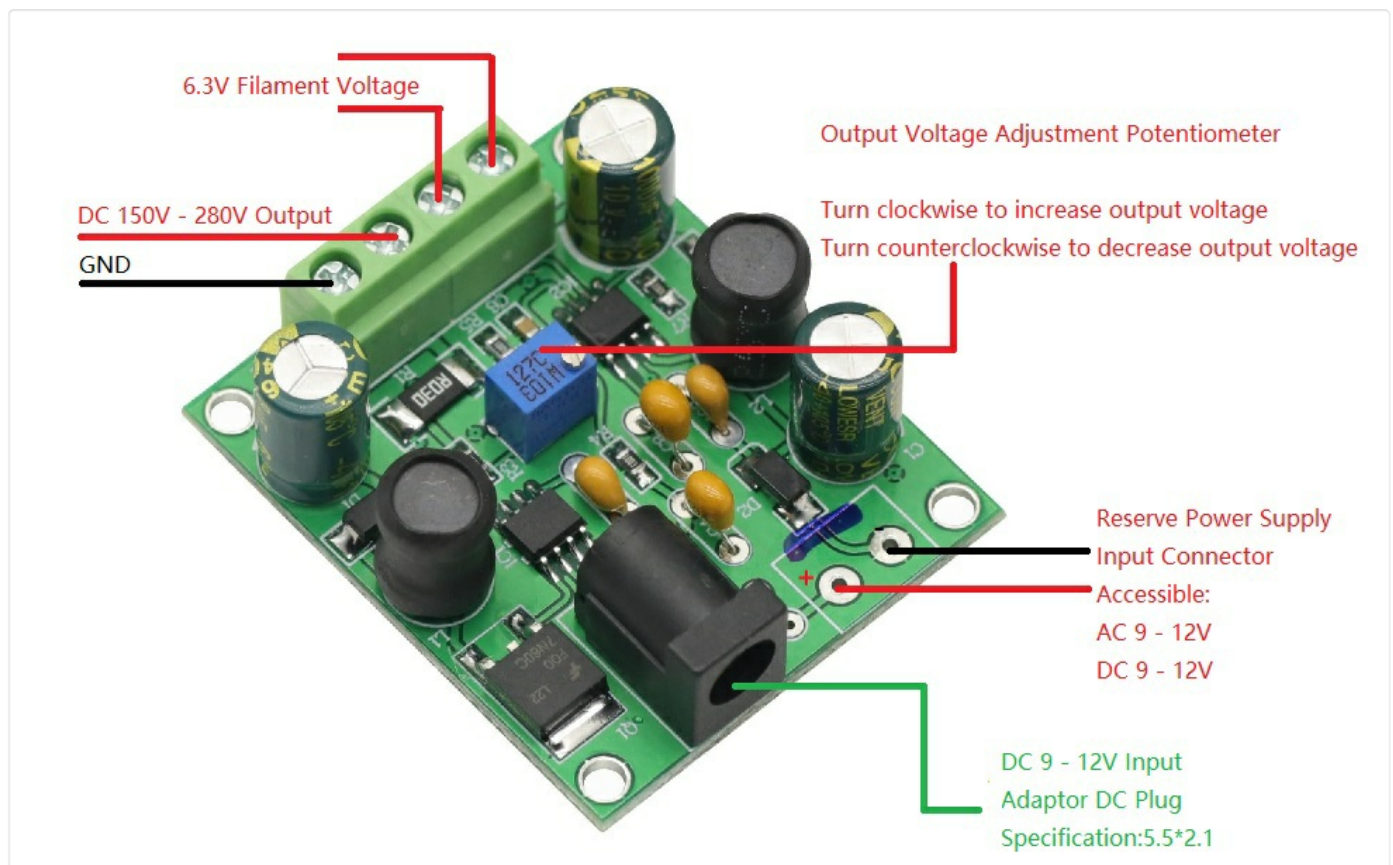


Image 5.2: Detailed connection diagram illustrating the input power options (DC 9-12V via barrel jack or screw terminals) and the output connections for 6.3V filament voltage, GND, and adjustable DC 150-280V. The output voltage adjustment potentiometer is also clearly marked.

5.2 Output Connections

The module provides two main outputs via the green screw terminal block:

- **DC 150V-280V Output:** This is the high voltage output, adjustable via the onboard potentiometer. Connect the anode of your Nixie or Magic Eye tube to this output.
- **DC 6.3V Output:** This output provides 6.3V for tube filaments. Connect the filament of your tube to this output.
- **GND:** Common ground connection for both outputs.

Ensure all connections are secure and correctly polarized before applying power.

6. OPERATING INSTRUCTIONS

6.1 Powering On

Once all connections are verified and secure, connect the DC 9V-12V power supply to the module. The module will immediately begin generating the output voltages.

6.2 Adjusting High Voltage Output

The high voltage output (DC 150V-280V) is adjustable using the blue potentiometer located on the board. Use a small screwdriver to carefully turn the potentiometer:

- Turning **clockwise** will **increase** the output voltage.
- Turning **counter-clockwise** will **decrease** the output voltage.

Always use a multimeter to measure the output voltage while adjusting to prevent over-voltage damage to your connected components.

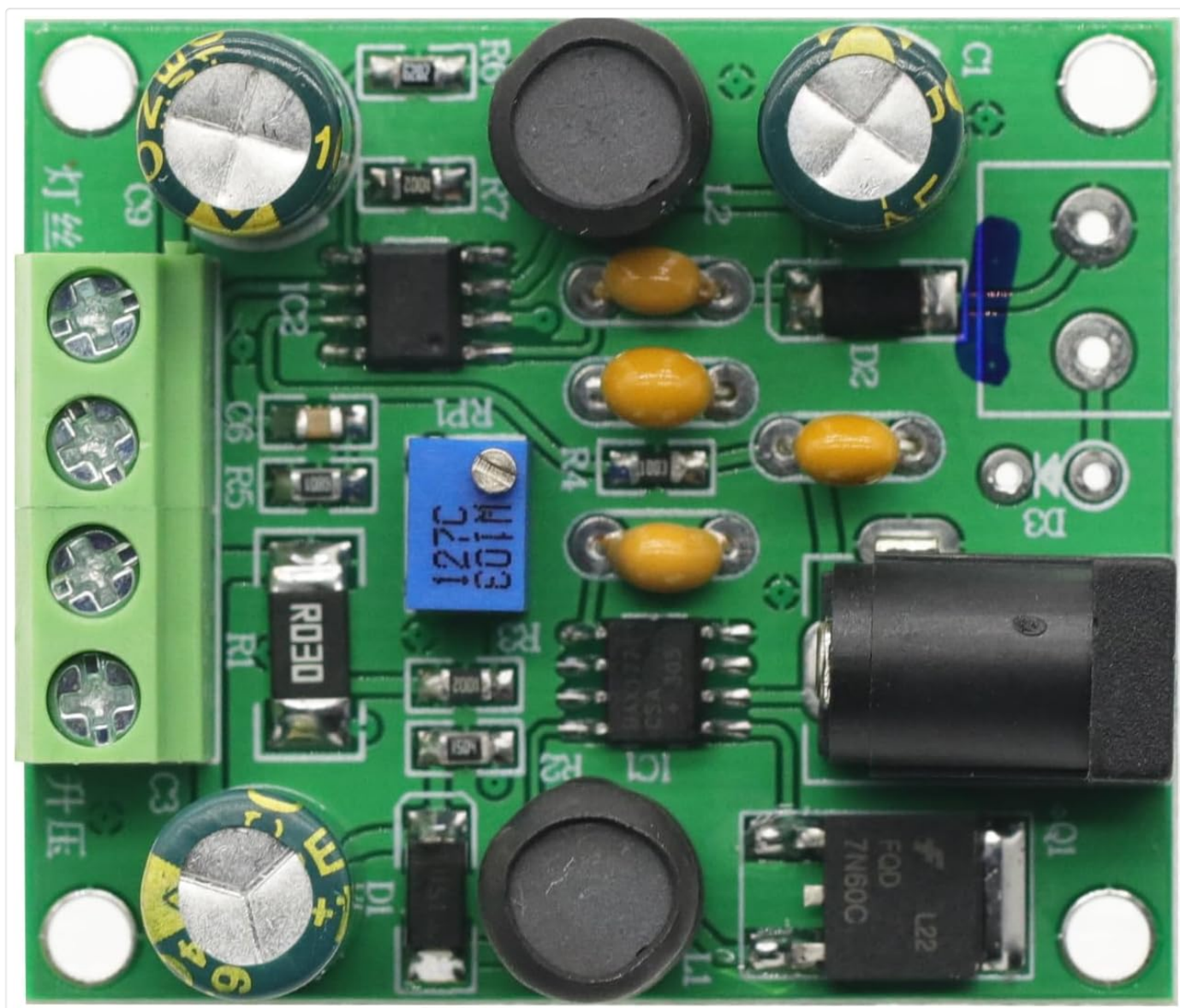


Image 6.1: Top view of the module, clearly showing the blue potentiometer used for adjusting the high voltage output.

7. MAINTENANCE

The GODIYMODULES High Voltage DC Converter Module Board is designed for reliable operation and requires minimal maintenance.

- Keep the module clean and free from dust and debris.
- Ensure adequate ventilation around the module to prevent overheating.
- Avoid exposing the module to moisture or extreme temperatures.
- Regularly inspect connections for looseness or corrosion.

8. TROUBLESHOOTING




- **No Output Voltage:**
 - Verify the input power supply is connected and providing 9V-12V DC.
 - Check the polarity of the input DC power plug (inner positive, outer negative).
 - Ensure all output connections are secure.
- **Incorrect Output Voltage:**
 - For high voltage output, adjust the potentiometer as described in Section 6.2.




- Use a multimeter to accurately measure the output voltages.
- Ensure the input voltage is stable and within the specified range.
- **Module Overheating:**
 - Ensure adequate airflow around the module.
 - Verify that the load connected to the outputs does not exceed the specified current limits (15mA for HV, 1500mA for 6.3V).

9. SUPPORT

For further assistance or technical inquiries, please refer to the seller's contact information on the product purchase page or visit the GODIYMODULES official support channels.

Related Documents - 9a15f5fc-1910-4546-a3dc-71cb82c03580

	<p>WAHL 1910 Lithium Pro Clipper - Cordless Hair Trimmer Instructions</p> <p>Official instructions and guide for the WAHL 1910 Lithium Pro Clipper. Learn how to charge, operate, and maintain your cordless hair trimmer for optimal performance. Includes comb attachment guide and global support information.</p>
	<p>ClosetMaid 3-Cube Organizer Installation Guide</p> <p>Step-by-step installation instructions for the ClosetMaid 3-Cube Organizer (models 4542, 4543, 4546, 4548). Includes safety precautions, parts list, and assembly steps with detailed descriptions.</p>
	<p>Safewaze 2-Person Temporary Cable Horizontal Lifeline User Manual</p> <p>User manual for the Safewaze 2-Person Temporary Cable Horizontal Lifeline system, covering installation, safety, usage, and maintenance for fall protection.</p>

	<p>Safewaze Latitude Edge Cable SRL-P Manual: User Guide and Safety Instructions</p> <p>Comprehensive manual for Safewaze Latitude Edge Cable SRL-P Self-Retracting Lifeline (SRL). Covers intended use, safety standards, product specifications, installation, operation, inspection, maintenance, and fall clearance calculations for personal fall arrest systems.</p>
	<p>Safewaze Latitude / Latitude Pro Tie-Back SRL-P Instruction Manual</p> <p>Comprehensive instruction manual for Safewaze Latitude and Latitude Pro Tie-Back Self-Retracting Lifelines (SRLs), covering safety standards, applications, specifications, maintenance, inspection, and proper usage within a Personal Fall Arrest System (PFAS).</p>
	<p>G 1910-02 Compact CO2 Monitor with Alarm Operating Manual</p> <p>Operating manual for the G 1910-02 Compact CO2 Monitor with Alarm, detailing its features, safety instructions, operation, maintenance, and technical specifications.</p>