

YWBL-WH YWBL-WH8pvuoxia1f-02

YWBL-WH NE5532 HiFi Pre-Amplifier Tone Board User Manual

Model: YWBL-WH8pvuoxia1f-02

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of the YWBL-WH NE5532 HiFi Pre-Amplifier Tone Board. This assembled board is designed to enhance audio signals with adjustable treble, mid-range, bass, and volume controls, utilizing the NE5532 operational amplifier for optimal performance.

Please read this manual thoroughly before installation and use to ensure correct operation and to prevent damage.

2. PRODUCT FEATURES

- **High-Quality PCB:** Double-sided FR-4 1.6MM PCB material for durability and reliable performance.
- **Optimized OP-AMP:** Utilizes the NE5532 operational amplifier for enhanced audio signal processing.
- **Comprehensive Tone Control:** Features adjustable treble, mid-range (alto), bass, and master volume controls.
- **Pre-Amplification:** Provides approximately 10 times signal pre-amplification.
- **Low Noise Design:** Engineered with a reasonable board layout to minimize noise interference.

3. SAFETY INFORMATION

Always disconnect power before making any connections or disconnections. Ensure proper ventilation to prevent overheating. This device operates with AC 12V; incorrect voltage can cause damage. Handle the board by its edges to avoid touching components, especially when powered.

4. PACKAGE CONTENTS

The package includes:

- 1 x YWBL-WH NE5532 HiFi Pre-Amplifier Tone Board (Assembled)

5. PRODUCT OVERVIEW

The YWBL-WH NE5532 HiFi Pre-Amplifier Tone Board features input/output terminals, power input, and four rotary potentiometers for audio control.

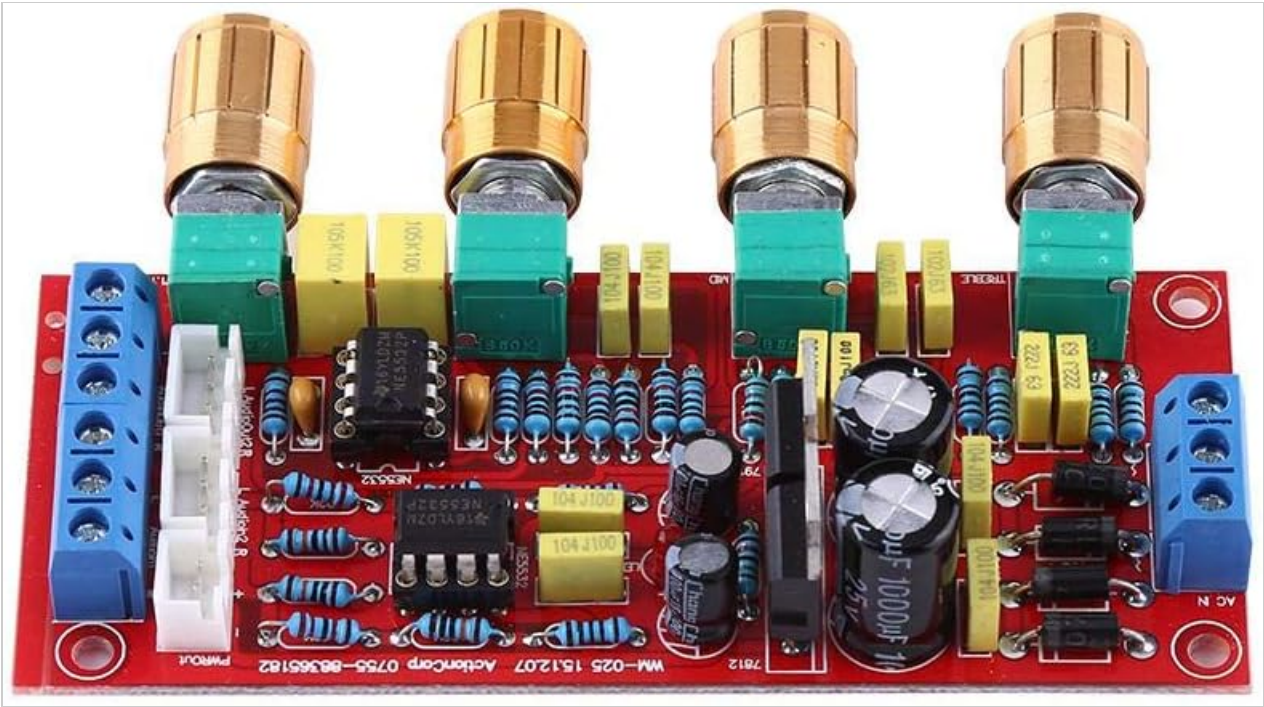


Figure 1: Top view of the assembled YWBL-WH NE5532 HiFi Pre-Amplifier Tone Board. This image displays the main components, including the NE5532 OP-AMP chips, capacitors, resistors, and the four gold-colored rotary potentiometers for volume, bass, mid, and treble control. Input and output terminal blocks are visible on the left and right sides.

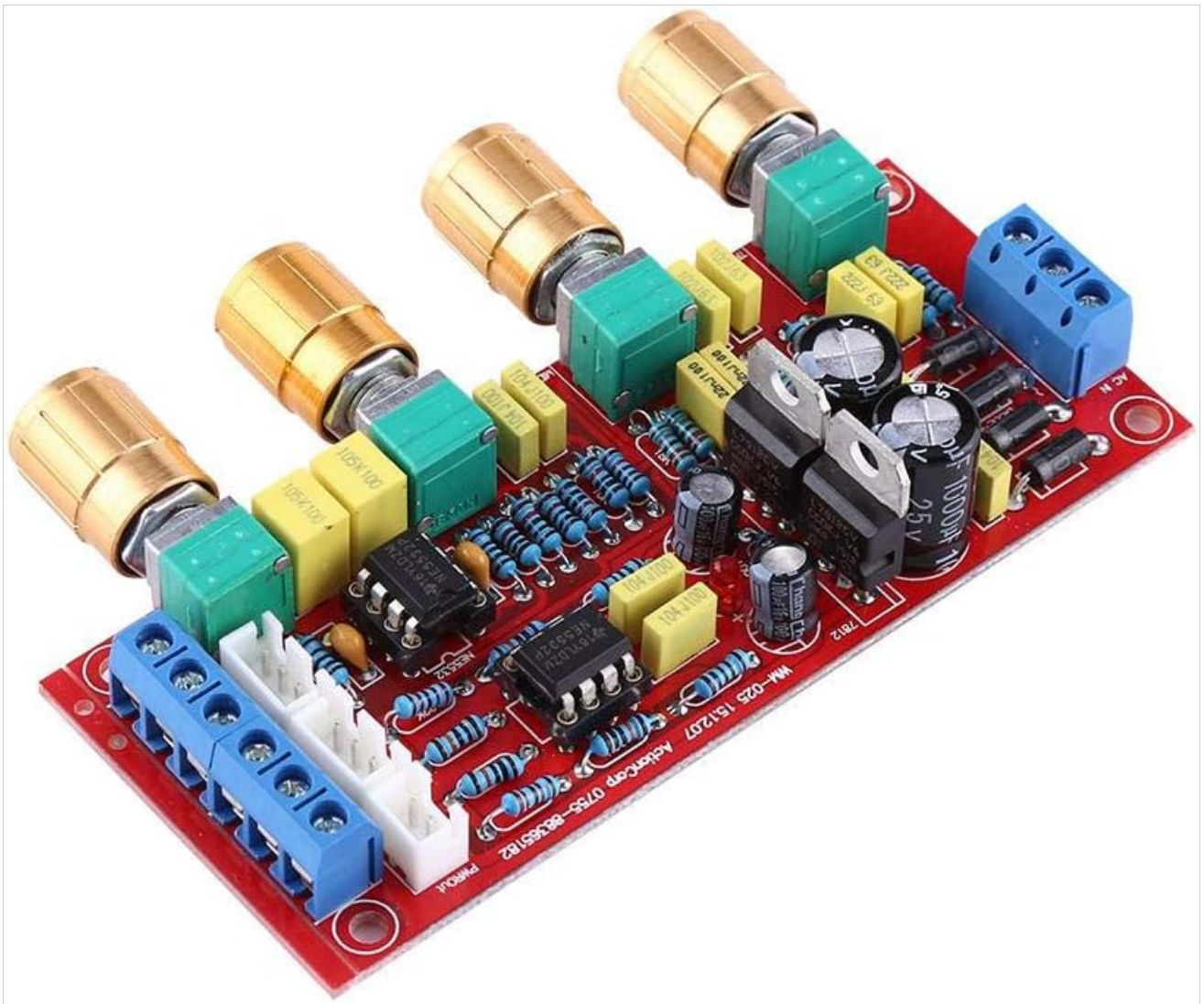


Figure 2: Angled view of the YWBL-WH NE5532 HiFi Pre-Amplifier Tone Board. This perspective shows the arrangement of the control knobs and the various electronic components on the red PCB. The input and output connectors are clearly visible, indicating connection points for audio signals and power.

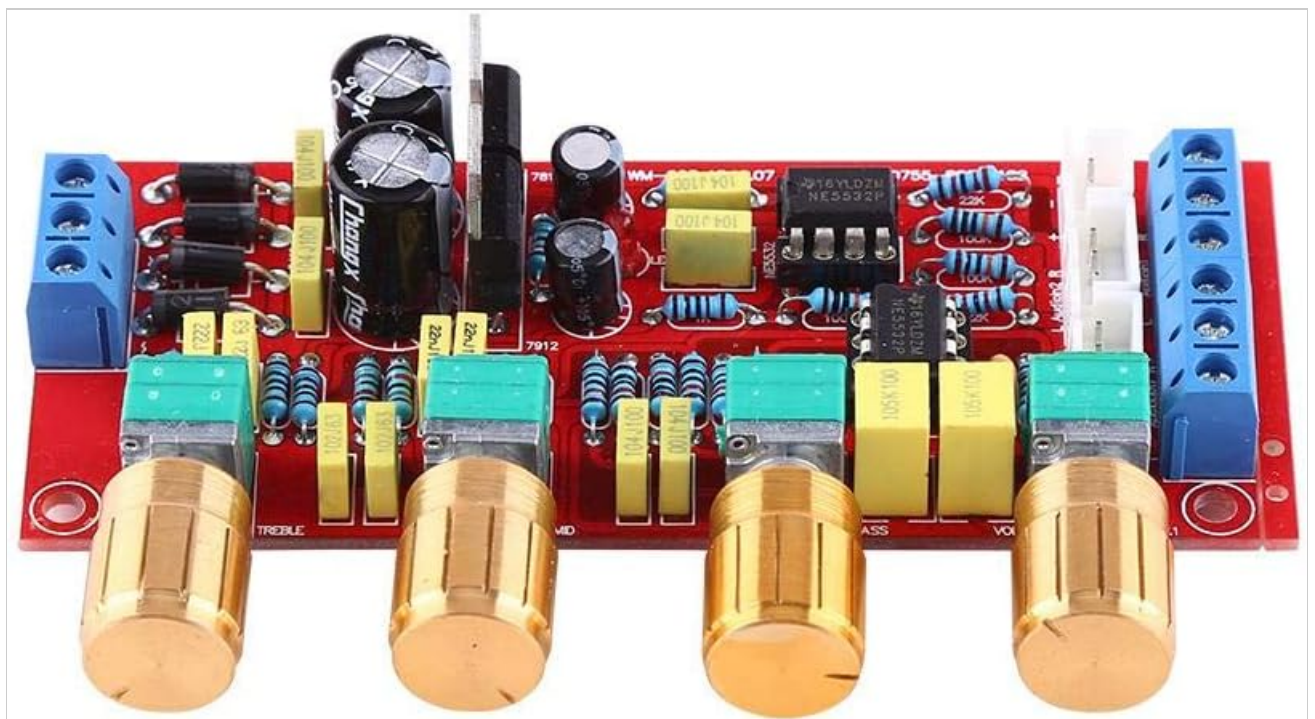


Figure 3: Front view of the YWBL-WH NE5532 HiFi Pre-Amplifier Tone Board. This image provides a clear view of the four gold-colored rotary potentiometers, labeled for Treble, Mid (Alto), Bass, and Volume, allowing users to adjust audio characteristics.

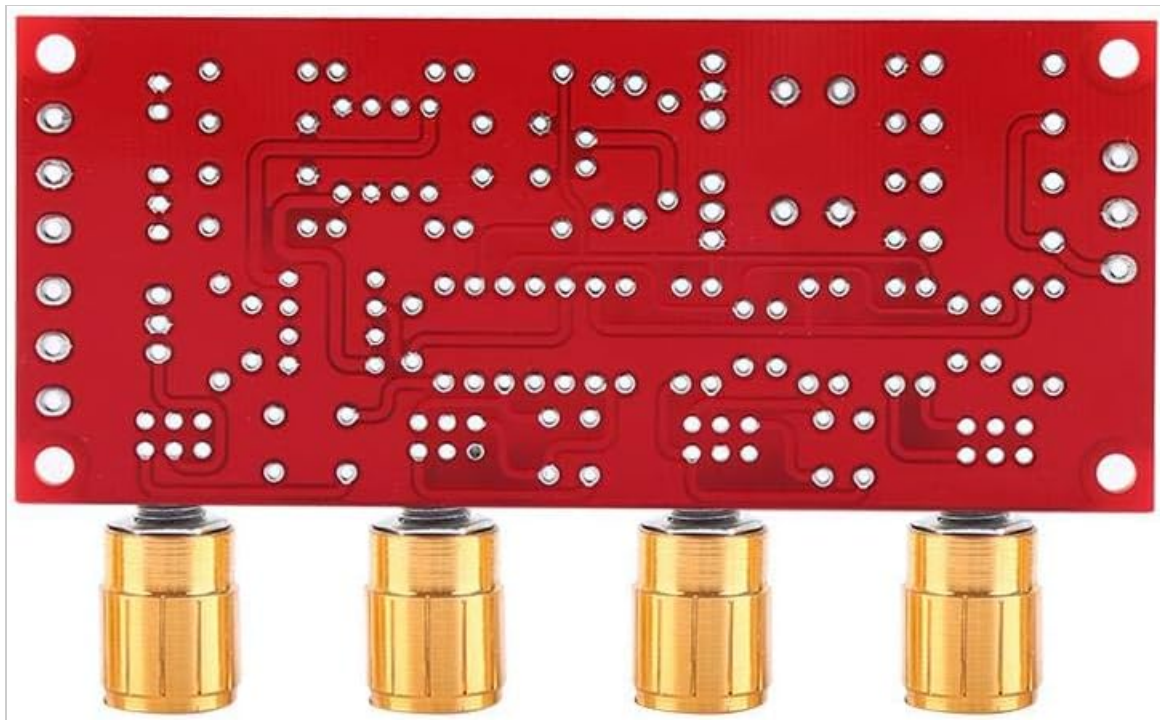


Figure 4: Bottom view of the YWBL-WH NE5532 HiFi Pre-Amplifier Tone Board. This image displays the solder side of the double-sided FR-4 PCB, revealing the intricate copper traces and solder points that connect the various components. The potentiometers are visible from this angle as well.

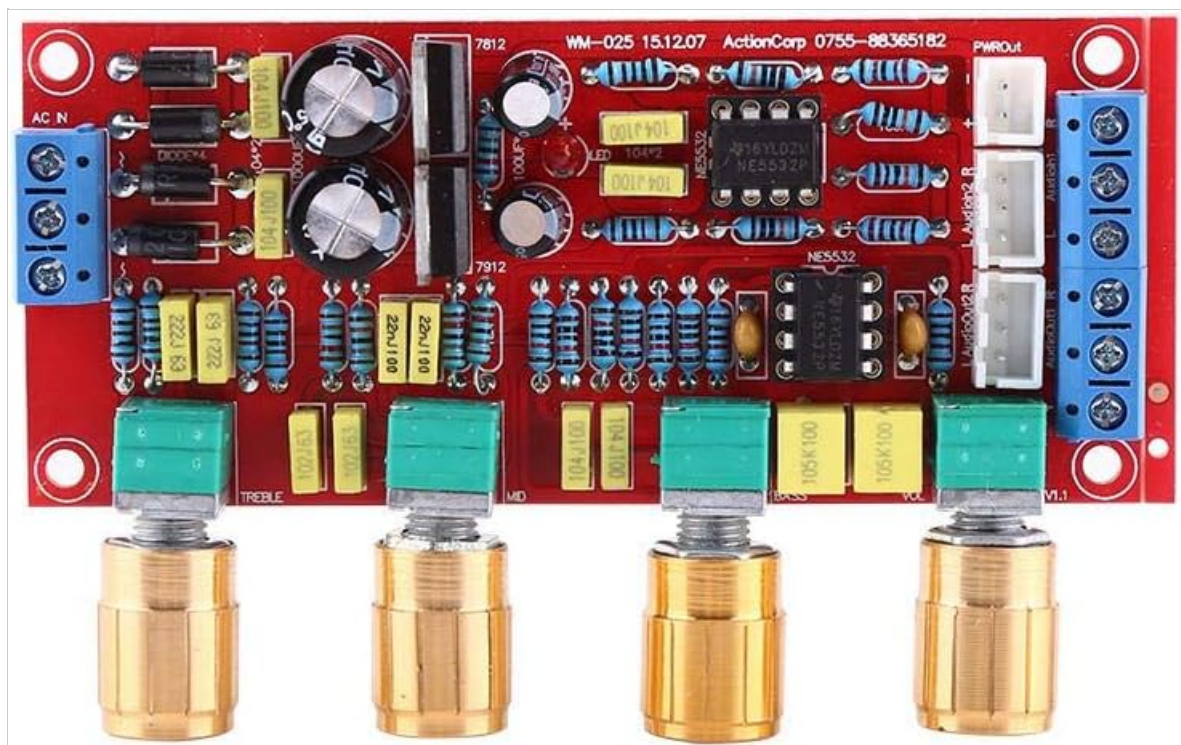


Figure 5: Top-down view of the YWBL-WH NE5532 HiFi Pre-Amplifier Tone Board. This comprehensive view shows all terminal blocks for AC power input, audio input (Audio In), and audio output (Audio Out), along with the four control potentiometers and the main NE5532 chips.

6. SETUP AND CONNECTIONS

Follow these steps to correctly connect the pre-amplifier tone board to your audio system.

1. Power Supply Connection:

Connect an AC 12V power supply to the "AC IN" terminal block on the board. Ensure the voltage is exactly AC 12V to prevent damage. Observe polarity if applicable, though AC typically does not have strict polarity for simple

connections.

2. **Audio Input Connection:**

Connect your audio source (e.g., CD player, DAC, phone) to the "Audio In" terminal block. This is typically a stereo input (Left, Right, Ground).

3. **Audio Output Connection:**

Connect the "Audio Out" terminal block to your main amplifier or active speakers. This is also a stereo output (Left, Right, Ground).

4. **Initial Control Settings:**

Before powering on, set the Volume potentiometer to its minimum position. Set Treble, Mid, and Bass controls to their center (neutral) positions.

Caution: Incorrect wiring or power supply voltage can permanently damage the board. Double-check all connections before applying power.

7. OPERATING INSTRUCTIONS

Once all connections are secure and verified:

1. **Power On:**

Apply AC 12V power to the board. An indicator LED (if present) may illuminate.

2. **Adjust Volume:**

Start playing audio from your source. Slowly rotate the **Volume** potentiometer clockwise to increase the output level to your desired listening volume.

3. **Adjust Tone Controls:**

- **Treble:** Rotate the **Treble** potentiometer to adjust high-frequency sounds. Turn clockwise for more brightness, counter-clockwise for a softer sound.
- **Mid (Alto):** Rotate the **Mid** potentiometer to adjust mid-range frequencies. This affects vocal clarity and instrument presence.
- **Bass:** Rotate the **Bass** potentiometer to adjust low-frequency sounds. Turn clockwise for more depth, counter-clockwise for less boominess.

4. **Power Off:**

To power off, first reduce the volume to minimum, then disconnect the AC 12V power supply.

8. MAINTENANCE

The YWBL-WH NE5532 HiFi Pre-Amplifier Tone Board requires minimal maintenance.

- Keep the board clean and free from dust. Use a soft, dry brush or compressed air to remove dust.
- Avoid exposing the board to moisture or extreme temperatures.
- Do not attempt to modify the circuit unless you have advanced electronics knowledge, as this may void any warranty and cause damage.
- Ensure all connections remain secure over time. Periodically check terminal blocks for tightness.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound output.	- No power to the board. - Incorrect audio input/output connections. - Volume control set to minimum. - Faulty audio cables.	- Verify AC 12V power supply is connected and functional. - Check "AC IN", "Audio In", and "Audio Out" connections. - Increase the Volume potentiometer. - Test with different audio cables.
Distorted or noisy sound.	- Input signal too strong. - Ground loop issues. - Faulty power supply. - Loose connections.	- Reduce the output volume of your audio source. - Ensure proper grounding of all audio components. - Try a different AC 12V power supply. - Check all terminal block connections for tightness.
Tone controls have no effect.	- Incorrect wiring. - Internal component failure.	- Re-check all audio input and output connections. - If the problem persists, contact customer support.

10. SPECIFICATIONS

Parameter	Value
Model	NE5532 Pre-Amplifier Tone Board
Part Number	YWBL-WH8pvuoxia1f-02
Supply Voltage	AC 12V
Dimensions (L x W)	100mm x 43.5mm (approx. 3.94 x 1.71 inches)
PCB Material	Double-sided FR-4 1.6MM
Operational Amplifier	NE5532
Pre-amplification Gain	Approximately 10 times
Controls	Volume, Bass, Mid (Alto), Treble

11. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the seller's policies or contact the manufacturer directly. Keep your purchase receipt for any warranty claims.
Manufacturer: YWBL-WH
For further assistance, you may visit the [YWBL-WH Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question