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> Fosi Audio V3 Stereo Amplifier User Manual

Fosi Audio V3

Fosi Audio V3 Stereo Amplifier User Manual

Model: V3 | Brand: Fosi Audio

1. INTRODUCTION

The Fosi Audio V3 is a compact yet powerful Class D stereo amplifier designed for home audio systems. It features the TPA3255 digital amplifier chip, delivering high-fidelity sound with low distortion. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your Fosi Audio V3 amplifier.

What's in the Box?

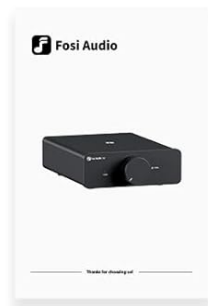
- Fosi Audio V3 Amplifier (x1)
- Power Supply (x1) - 32V/5A or 48V/5A depending on variant
- User Manual (x1)

What's in the Box?

Weight: 547g (1.2lbs)



V3 × 1



User Manual × 1



32V/5A Power Adapter × 1

Figure 1: Included components in the Fosi Audio V3 package. This includes the V3 amplifier unit, a power supply, and the user manual.

2. SETUP

2.1 Front and Rear Panel Overview

Familiarize yourself with the amplifier's front and rear panels before making connections.

Designed for HiFi Audiophiles

Straightforward I/O and Wide Support of Power Supplies



Figure 2: Detailed view of the Fosi Audio V3's front panel (top) with power indicator and volume control, and rear panel (bottom) showing RCA line-in, pre-out, speaker output terminals, and DC power input.

2.2 Connecting Your Amplifier

1. **Connect Speakers:** Connect your passive bookshelf or tower speakers to the speaker output terminals on the rear panel. Ensure correct polarity (red to red, black to black). The V3 supports 2-8 Ω speakers.
2. **Connect Audio Source:** Use RCA cables to connect your audio source (e.g., CD player, DAC, streamer) to the "LINE IN" RCA inputs on the rear panel.
3. **Optional Pre-out Connection:** If using an external subwoofer or another amplifier, connect it to the "PRE-OUT" RCA outputs. The pre-out level is controlled by the V3's volume knob.
4. **Connect Power:** Connect the provided power supply to the "DC24-48V" input on the rear panel. Then, plug the power supply into a wall outlet.

Innovative Heat Dissipation System

Vents on Top and Bottom, and Whole-Body Heatsink Design



Figure 3: The rear panel of the V3 amplifier, illustrating the various connection points for audio sources, speakers, and power. Ensure all connections are secure before powering on.

3. OPERATION

3.1 Powering On and Volume Control

To power on the amplifier, rotate the volume knob clockwise. The power indicator light on the front panel will illuminate. Continue rotating clockwise to increase volume, and counter-clockwise to decrease volume. To power off, rotate the knob fully counter-clockwise until it clicks.

3.2 Op-Amp Swapping (Advanced Users)

The Fosi Audio V3 allows for swapping of the stock NE5532 op-amps to customize the sound signature. It is compatible with various 8-pin dual op-amps such as Sparkos SS3602, MUSES02, OPA2604, OPA2134PA, OP249, AD827, RM4559, LM4562, LME49720HA, etc.

Important Note: When replacing the op-amp, ensure the chip is oriented correctly and the procedure is done accurately

to prevent damage to the amplifier. Refer to the disassembly/reassembly video for visual guidance.

Your browser does not support the video tag.

Video 1: Instructions on how to disassemble and reassemble the Fosi Audio V3 amplifier, useful for tasks like op-amp swapping.

4. MAINTENANCE

4.1 Cleaning

To maintain the appearance and performance of your amplifier, regularly wipe the exterior with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.

4.2 Heat Dissipation

The V3 features an innovative heat dissipation design with vents on the top and bottom, and a whole-body heatsink. Ensure these vents are not obstructed to allow for proper airflow and prevent overheating. Place the amplifier in a well-ventilated area.



Figure 4: The V3 amplifier's design incorporates vents and a heatsink to efficiently dissipate heat, ensuring stable performance.

5. TROUBLESHOOTING

If you encounter issues with your Fosi Audio V3 amplifier, please refer to the following common troubleshooting steps:

- **No Power:** Ensure the power supply is securely connected to both the amplifier and a working wall outlet. Check the power indicator light.
- **No Sound:** Verify all audio cables are correctly connected to the "LINE IN" inputs and your speakers. Ensure the volume knob is turned up and the audio source is playing. Check speaker wire connections for proper polarity and secure fit.
- **Distorted Sound:** Reduce the volume from both the amplifier and your audio source. Check for loose connections or damaged cables. Ensure speaker impedance matches the amplifier's capabilities.
- **Intermittent Sound:** Check all cable connections for looseness. Ensure the amplifier is not overheating (check ventilation).

If the issue persists after following these steps, please contact Fosi Audio customer support for further assistance.

6. SPECIFICATIONS

Feature	Specification
Product Dimensions	6.54 x 4.13 x 1.38 inches
Item Model Number	V3
Weight	2.56 Pounds
Manufacturer	Fosi Audio
Amplifier Chip	TPA3255 Class D
Power Output	Up to 600W (depending on power supply and speaker impedance)
Speaker Impedance	2-8Ω
SINAD Rating	Up to 88dB
SNR	Up to 110dB
Noise Floor	140uV



Figure 5: Output power specifications of the Fosi Audio V3 amplifier based on different power supply voltages and speaker impedances.

7. WARRANTY AND SUPPORT

Fosi Audio products come with a standard manufacturer's warranty. For specific warranty details and to register your product, please visit the official Fosi Audio website or refer to the warranty card included with your purchase.

For technical support, troubleshooting assistance, or any inquiries regarding your Fosi Audio V3 amplifier, please contact Fosi Audio customer support directly. You can often find contact information on the official Fosi Audio website or through the retailer where you purchased the product.

An electronic version of this user guide is available for download: [Fosi Audio V3 User Guide \(PDF\)](#)

