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Fosi Audio P3

Fosi Audio P3 Tube Preamp Headphone Amplifier User Manual

Model: P3 | Brand: Fosi Audio

1. INTRODUCTION

The Fosi Audio P3 is a versatile tube preamplifier and headphone amplifier designed to enhance your audio experience. It features true tube amplification, Bluetooth 5.1 with aptX HD and aptX LL support, and comprehensive tone controls. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance.



Figure 1: Fosi Audio P3 Tube Preamp Headphone Amplifier

2. PACKAGE CONTENTS

Please check that all components are included in your package:

- Fosi Audio P3 Tube Preamplifier x1
- User Manual x1
- 5654W Vacuum Tube x2
- 12V/1.5A Power Supply x1

What's in the Box?

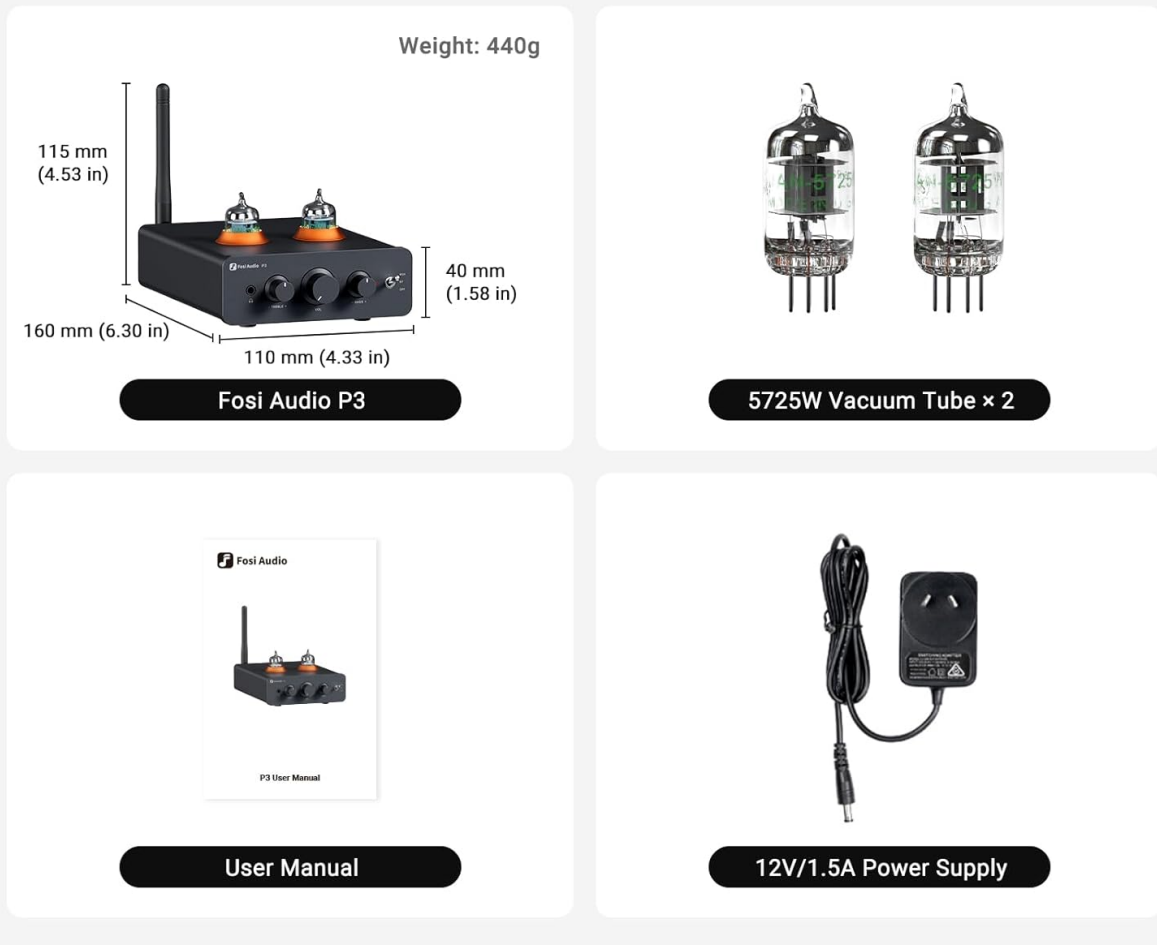


Figure 2: What's in the Box

3. PRODUCT OVERVIEW

The Fosi Audio P3 offers several key features:

- **True Tube Amplification:** The preamp circuit elevates voltage to 54V, ensuring optimal tube performance for a warm and rich audio experience.
- **Bluetooth 5.1:** Equipped with the Qualcomm QCC3031 chip, supporting aptX HD and aptX LL codecs for impressive wireless sound quality and low latency. Includes a manual reset button for connection reliability.
- **Versatile Connectivity:** Features Bluetooth/RCA inputs and RCA/AUX OUT/3.5mm headphone outputs. Can be integrated into 2.1-channel audio systems with active speakers/amplifiers and subwoofers. Supports headphones with impedance from 16Ω to 300Ω.
- **Premium Components:** Utilizes ELNA audiophile-grade capacitors and taper A potentiometers. Bass and treble controls feature central detents for tone-defeating.

4. CONTROLS AND CONNECTIONS

Front and Rear Panel Overview

Versatile Inputs and Outputs with Easy Controls

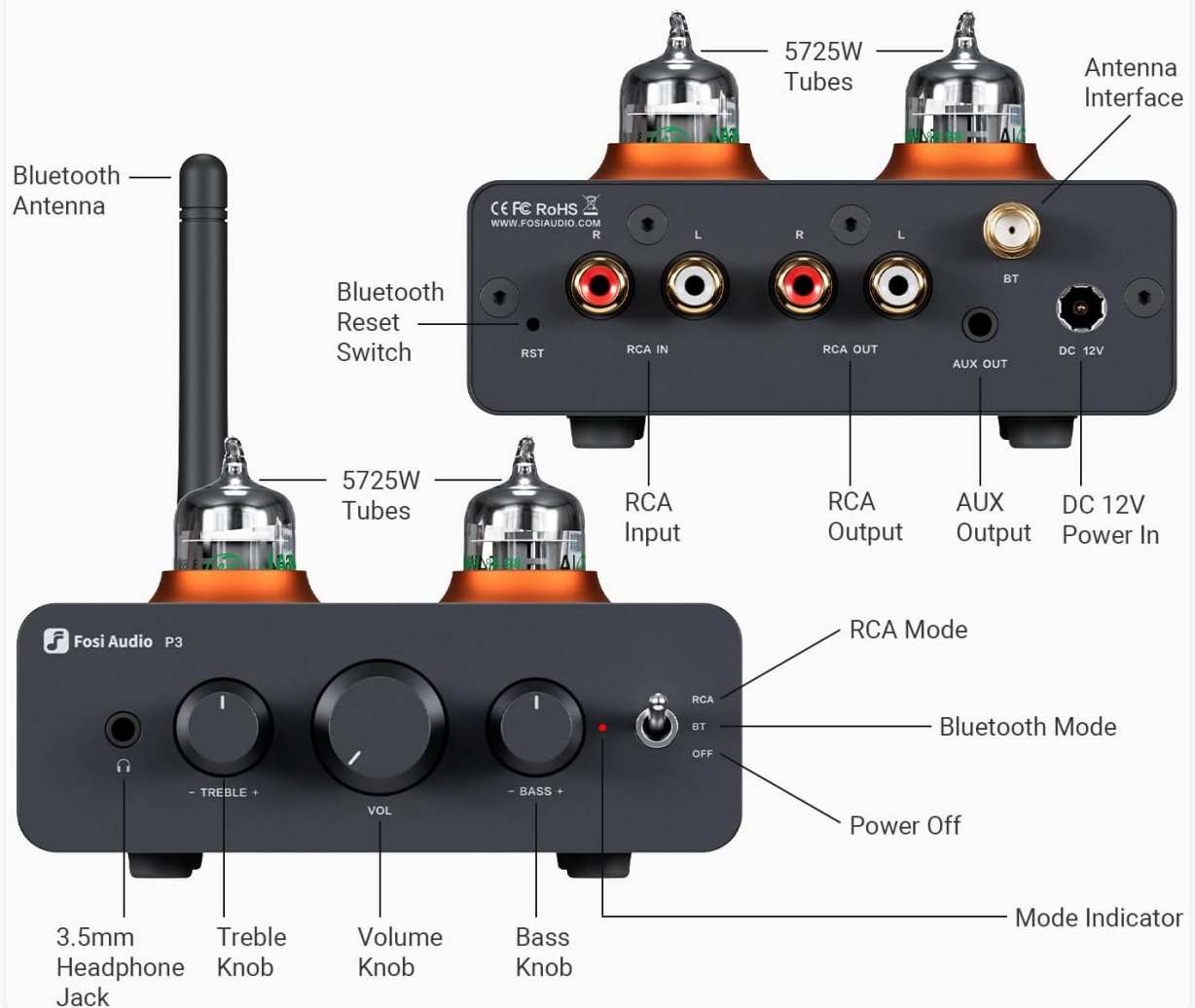


Figure 3: Front and Rear Panel Overview

Front Panel:

- **3.5mm Headphone Jack:** For connecting headphones.
- **Treble Knob:** Adjusts high-frequency response.
- **Volume Knob:** Controls overall output volume.
- **Bass Knob:** Adjusts low-frequency response.
- **Mode Indicator:** Shows current input mode (RCA, BT).
- **Power/Input Switch:** Toggles power and selects input source (RCA, Bluetooth, Off).

Rear Panel:

- **Bluetooth Antenna:** For wireless Bluetooth reception.
- **Bluetooth Reset Switch (RST):** Resets Bluetooth connection.
- **RCA IN:** Stereo RCA input for audio sources.
- **RCA OUT:** Stereo RCA output to active speakers or another amplifier.
- **AUX OUT:** 3.5mm auxiliary output, typically for a subwoofer.
- **DC 12V Power In:** Connects to the 12V/1.5A power supply.

5. TUBE INSTALLATION

The Fosi Audio P3 uses 5654W vacuum tubes. Proper installation is crucial for optimal performance and to prevent damage.

1. Carefully remove the metal rings around the tube sockets by unscrewing them counter-clockwise.
2. Gently remove the 5654W vacuum tubes from their packaging.
3. Inspect the pins on the bottom of each tube. If any pins are bent, carefully straighten them using small pliers or tweezers.
4. Align the pins of the tube with the corresponding holes in the tube socket. Ensure the keyway on the tube base aligns with the slot in the socket.
5. Gently push the tube straight down into the socket until it is fully seated. Do not force it.
6. Screw the metal rings back on clockwise to secure the tubes.



Figure 4: 5654W Vacuum Tubes

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Video 1: How to install the tubes on P3 Tube Preamp. This video demonstrates the correct procedure for installing the vacuum tubes into the Fosi Audio P3 preamp, including straightening pins and securing the metal rings.

6. SETUP AND OPERATION

6.1. Connecting Audio Sources and Output Devices

The Fosi Audio P3 can connect to various audio sources and output devices. Refer to the diagram below for common setups.

Product Connection and Usage Diagram

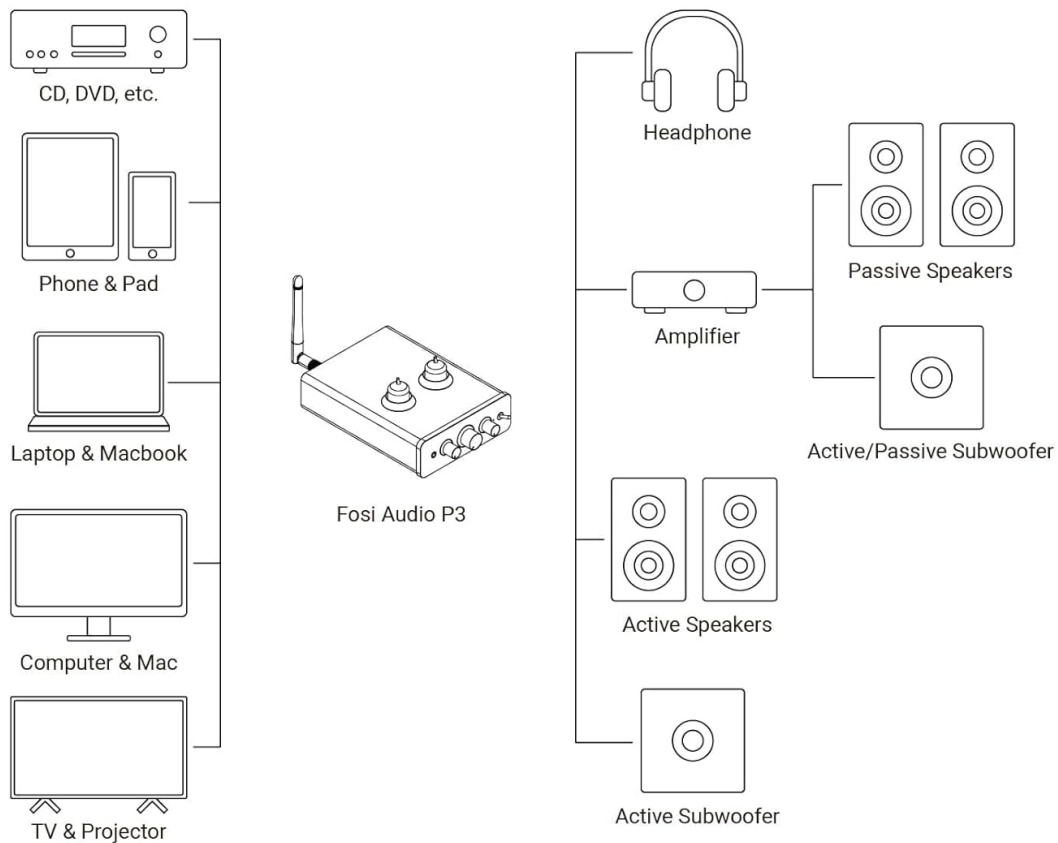


Figure 5: Product Connection and Usage Diagram

- **RCA Input:** Connect your audio source (e.g., CD player, DAC) to the RCA IN ports using RCA cables.
- **RCA Output:** Connect the RCA OUT ports to your active speakers or the input of a power amplifier.
- **AUX Output:** Use the 3.5mm AUX OUT to connect to a subwoofer or other auxiliary input device.
- **Headphone Output:** Plug your headphones into the 3.5mm headphone jack on the front panel.

6.2. Bluetooth Pairing

1. Ensure the Bluetooth antenna is securely attached to the rear panel.
2. Toggle the Power/Input switch to the 'BT' position. The Mode Indicator light will blink blue, indicating pairing mode.
3. On your mobile device (phone, tablet, etc.), enable Bluetooth and search for 'Fosi Audio P3'.
4. Select 'Fosi Audio P3' to pair. Once connected, the blue indicator light will remain solid.
5. If you experience connection issues, press the 'RST' (Bluetooth Reset) button on the rear panel to clear previous pairings and re-enter pairing mode.

6.3. Tone Controls

Use the Bass and Treble knobs on the front panel to adjust the audio's low and high frequencies. The knobs have a central detent position, which bypasses the tone control circuit for a pure audio signal.

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Video 2: Fosi Audio P3 Bluetooth Tube Preamp. An overview video showcasing the Fosi Audio P3 Bluetooth Tube Preamp in various usage scenarios, highlighting its design and features.

7. SPECIFICATIONS

Feature	Specification
Product Dimensions	4.33 x 6.3 x 1.57 inches
Item Weight	1.1 pounds
Item Model Number	P3
Bluetooth Version	5.1 (Qualcomm QCC3031)
Bluetooth Codecs	aptX HD, aptX LL
Inputs	Bluetooth, RCA
Outputs	RCA, AUX OUT (3.5mm), Headphone (3.5mm)
Headphone Impedance	16Ω to 300Ω
SNR	≥103dB
Crosstalk	95dB
Power Supply	12V/1.5A

8. TROUBLESHOOTING

• No Sound:

- Ensure the power supply is connected and the unit is turned on.
- Verify input source selection (RCA/BT) is correct.
- Check all cable connections (RCA, AUX, headphones) are secure.
- Adjust the volume knob.
- If using headphones, ensure they are properly plugged in and that the RCA/AUX outputs are not muted (some units mute line out when headphones are connected).

• Bluetooth Connection Issues:

- Ensure the P3 is in Bluetooth mode (blue indicator blinking for pairing).
- Press the 'RST' button on the rear panel to reset Bluetooth and try pairing again.
- Move your device closer to the P3 to ensure a strong signal.

• Distorted Sound:

- Reduce the volume from both the P3 and your audio source.
- Check if the tone controls (Bass/Treble) are set too high; try setting them to the central detent position.

- Ensure tubes are correctly installed and fully seated.

9. MAINTENANCE

- Keep the unit in a dry, well-ventilated area away from direct sunlight, heat sources, and moisture.
- Clean the unit with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- Avoid placing heavy objects on top of the unit.
- If replacing tubes, ensure the unit is powered off and unplugged before handling.

10. WARRANTY AND SUPPORT

Fosi Audio products typically come with a manufacturer's warranty. Please refer to the warranty card included in your package or visit the official Fosi Audio website for detailed warranty information and support options. For technical assistance or inquiries, contact Fosi Audio customer service.