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Fosi Audio BT20A Pro

Fosi Audio BT20A Pro Bluetooth 5.0 Power Amplifier User Manual

Model: BT20A Pro

1. Introduction

Thank you for choosing the Fosi Audio BT20A Pro Power Amplifier. This high-performance stereo amplifier is designed to deliver exceptional audio quality for your home audio system. Featuring the TPA3255 chip, Bluetooth 5.0 connectivity, and powerful 300W x 2 output, the BT20A Pro offers a versatile and immersive listening experience. This manual will guide you through the setup, operation, and maintenance of your new amplifier.

2. Package Contents

Please check that all items are present in your package:

- Fosi Audio BT20A Pro Power Amplifier x 1
- Bluetooth Antenna x 1
- 32V/5A Power Adapter x 1
- AC Power Cord x 1
- User Manual x 1

電源	スピーカーインピーダンス	定格出力電力	最大出力電力
24V 4.5A	4 Ω	60 W	70 W
	6 Ω	40 W	50 W
	8 Ω	30 W	35 W
32V 5A	4 Ω	100 W	125 W
	6 Ω	70 W	85 W
	8 Ω	50 W	65 W
48V 5A	4 Ω	230 W	260 W
	6 Ω	155 W	170 W
	8 Ω	115 W	130 W
48V 10A	4 Ω	280 W	300 W
	6 Ω	190 W	200 W
	8 Ω	140 W	150 W

Figure 2.1: Contents of the BT20A Pro package, including the amplifier, antenna, power supply, and manual.

3. Product Overview

3.1 Front Panel



Figure 3.1: Front panel of the BT20A Pro amplifier, showing controls and indicators.

1. **Power Indicator:** Lights up when the amplifier is powered on.
2. **Power Switch:** Toggles the amplifier on or off.
3. **Treble Control:** Adjusts the high-frequency response.
4. **Bass Control:** Adjusts the low-frequency response.
5. **Volume Control:** Adjusts the overall output volume. Long press for 5 seconds to clear Bluetooth pairing.

3.2 Rear Panel



Figure 3.2: Rear panel of the BT20A Pro amplifier, showing input and output connections.

1. **RCA Input (LINE IN):** Connect audio sources via RCA cables.
2. **Pre-Out (PRE OUT):** 3.5mm output for connecting to an active subwoofer or another amplifier.
3. **Speaker Outputs (OUTPUT):** Connect passive speakers using banana plugs or bare wire.
4. **DC Power Input (DC24-48V):** Connect the provided power adapter.
5. **Bluetooth Antenna Port:** Screw in the Bluetooth antenna here.

4. Setup

Follow these steps to set up your Fosi Audio BT20A Pro amplifier:

4.1 Connecting Speakers

1. Ensure the amplifier is turned off.
2. Connect your passive speakers to the **Speaker Outputs (OUTPUT)** on the rear panel. Ensure correct polarity (red to red, black to black) for each speaker. You can use banana plugs or strip about 1/2 inch of insulation from speaker wires and insert them into the terminals.

4.2 Connecting Audio Sources

You can connect audio sources via RCA cables or Bluetooth.

4.2.1 RCA Input

- Connect your audio source (e.g., CD player, DAC, TV) to the **RCA Input (LINE IN)** on the rear panel using RCA cables.

4.2.2 Bluetooth Input

- Screw the provided Bluetooth antenna firmly into the **Bluetooth Antenna Port** on the rear panel.

4.3 Connecting Power

1. Connect the DC plug of the 32V/5A power adapter to the **DC Power Input** on the rear panel of the amplifier.
2. Plug the AC power cord into the power adapter, then plug the other end into a wall outlet.



Figure 4.1: A typical setup diagram for the Fosi Audio BT20A Pro, showing connections to various audio sources and speakers.

5. Operating Instructions

5.1 Power On/Off

- Press the **Power Switch** on the front panel to turn the amplifier on. The power indicator will light up. Press it again to turn off.

5.2 Volume, Treble, and Bass Control

- Rotate the **Volume Control** knob to adjust the overall sound level.
- Rotate the **Treble Control** knob to increase or decrease high frequencies.
- Rotate the **Bass Control** knob to increase or decrease low frequencies.
- To listen to the original sound without any tone effects, set both Treble and Bass controls to their midpoint (neutral) position.

5.3 Bluetooth Pairing

1. Ensure the Bluetooth antenna is connected.
2. Turn on the amplifier.
3. On your audio device (e.g., smartphone, tablet), enable Bluetooth and search for available devices.
4. Select **"Fosi Audio BT20A PRO"** from the list to pair. A confirmation tone will sound upon successful pairing.
5. The BT20A Pro has a Bluetooth memory function and will attempt to reconnect to the last paired device automatically.

5.4 Clearing Bluetooth Pairing

- To clear the current Bluetooth pairing, **long-press the Volume Control knob for approximately 5 seconds** The amplifier will then be discoverable for new pairings.

5.5 Input Priority

- The BT20A Pro prioritizes Bluetooth input over RCA input. If a Bluetooth device is connected, audio will play from Bluetooth. To switch to RCA input, you must disconnect the active Bluetooth connection (either from your device or by clearing the pairing on the amplifier).

5.6 Op-Amp Replacement (DIY)

The BT20A Pro allows for Op-Amp replacement to customize the sound signature. The default NE5532 Op-Amps can be replaced with compatible models such as LME49720HA, MUSES02, OPA26041P, OPA2134PA, LM4562, or NJM4556AD. This procedure should only be performed by users comfortable with electronics and static discharge precautions.

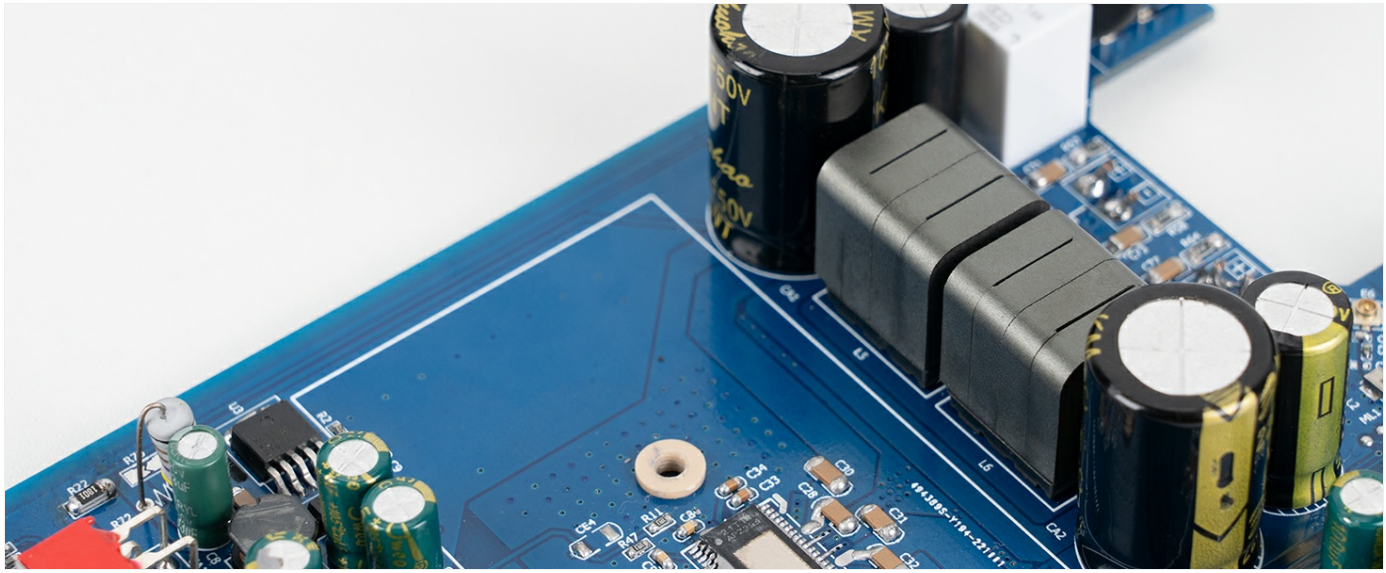


Figure 5.1: Illustration of Op-Amp replacement on the BT20A Pro circuit board. (Note: The chip shown in the image is for photographic purposes only and is not included with the product.)

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the amplifier's exterior. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure the amplifier has adequate ventilation. Do not block any vents.
- **Heat Dissipation:** For optimal performance and longevity, especially during extended high-power use, consider using a Fosi Audio cooling fan (sold separately).
- **Storage:** When not in use for extended periods, disconnect the power adapter and store the amplifier in a cool, dry place.

7. Troubleshooting

If you encounter any issues, please refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No sound output	• Power not connected or turned on. • Speakers not connected correctly. • Input source not selected or connected. • Volume too low. • Bluetooth connected but RCA source playing.	• Check power connection and switch. • Verify speaker connections and polarity. • Ensure audio source is connected and playing. • Increase volume. • Disconnect Bluetooth device to use RCA input.

Problem	Possible Cause	Solution
Bluetooth pairing failure	• Antenna not connected. • Device too far. • Already paired to another device.	• Ensure Bluetooth antenna is securely attached. • Move device closer to the amplifier. • Clear existing Bluetooth pairing on amplifier (long-press volume knob) and try again.
Distorted sound	• Input signal too strong. • Volume too high. • Speaker impedance mismatch.	• Reduce input source volume. • Lower amplifier volume. • Ensure speakers are within 2-8 Ohm impedance range.
No optical input	Product limitation.	The BT20A Pro does not support optical fiber input. Please use RCA or Bluetooth.

8. Specifications

Feature	Specification
Model	BT20A Pro
Type	Bluetooth 2.0 CH Amplifier
Amplifier Chip	TPA3255
Max Output Power	300W x 2
Inputs	Bluetooth 5.0, RCA
Outputs	Passive Speaker, 3.5mm Pre-out
THD (Total Harmonic Distortion)	≤ 0.005%
SNR (Signal-to-Noise Ratio)	≥ 108dB
Terminating Impedance	2-8 Ohm
Treble & Bass Control	Yes
Power Adapter	32V/5A
Product Dimensions	11.99 x 8.99 x 3 cm (approx.)
Product Weight	1.15 kg (approx.)

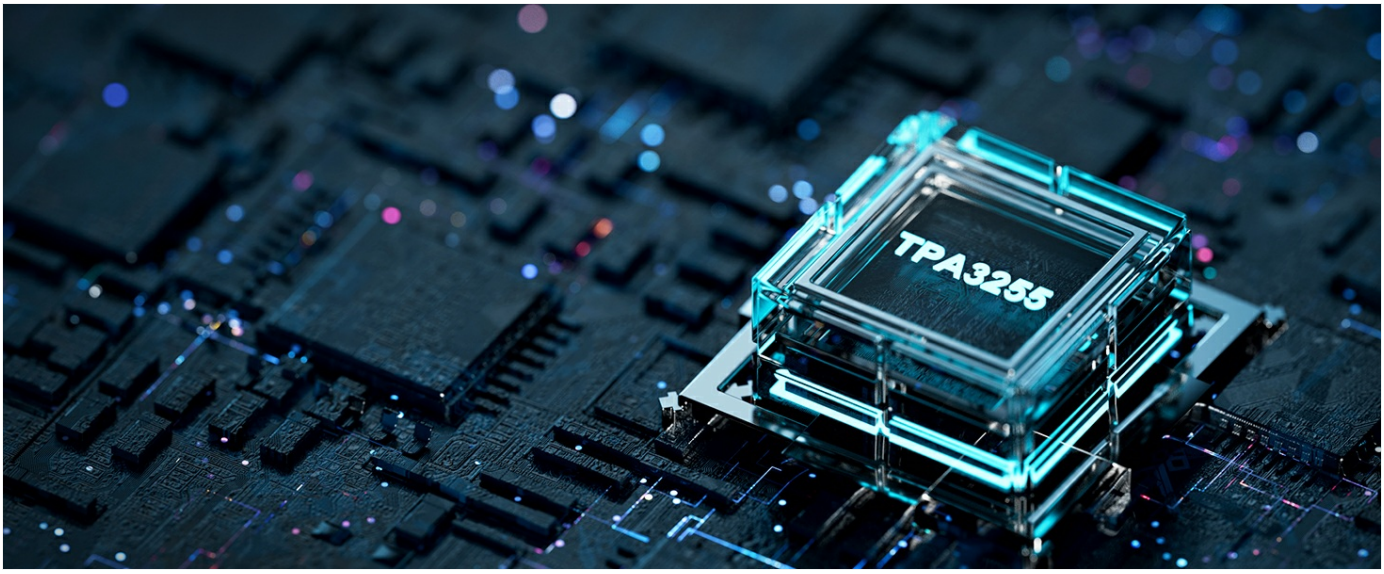


Figure 8.1: Comparison of specifications between Fosi Audio BT20A Pro and BT20A models.

9. Warranty and Support

Fosi Audio provides a **24-month warranty** for the BT20A Pro amplifier from the date of purchase. This warranty covers manufacturing defects and ensures reliable operation of your device.

If you have any questions, require technical assistance, or need to claim warranty service, please contact the seller or Fosi Audio customer support through the platform where you purchased the product. Please have your order number and product details ready for faster service.

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