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› Fosi Audio BT20A MAX Stereo Power Amplifier Instruction Manual

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Fosi Audio BT20A MAX Stereo Power Amplifier Instruction Manual

Model: BT20A MAX

1. INTRODUCTION

The Fosi Audio BT20A MAX is a high-fidelity stereo power amplifier designed to deliver exceptional audio performance for your home audio system. Featuring advanced PFFB technology, dual independent power supplies, and LDAC Bluetooth 6.0, this amplifier provides powerful, clean, and detailed sound. It is equipped with versatile connectivity options and a remote control for convenient operation, making it ideal for 2.1 channel setups.

2. WHAT'S IN THE BOX

- 1x Fosi Audio BT20A MAX Stereo Power Amplifier
- 1x Power Adapter
- 1x Bluetooth Antenna
- 1x IR Remote Control
- 1x User Manual

3. PRODUCT OVERVIEW

3.1 Front Panel

Dual Independent Power Supply

Reduce Noise Interference for a Purer Sound Background

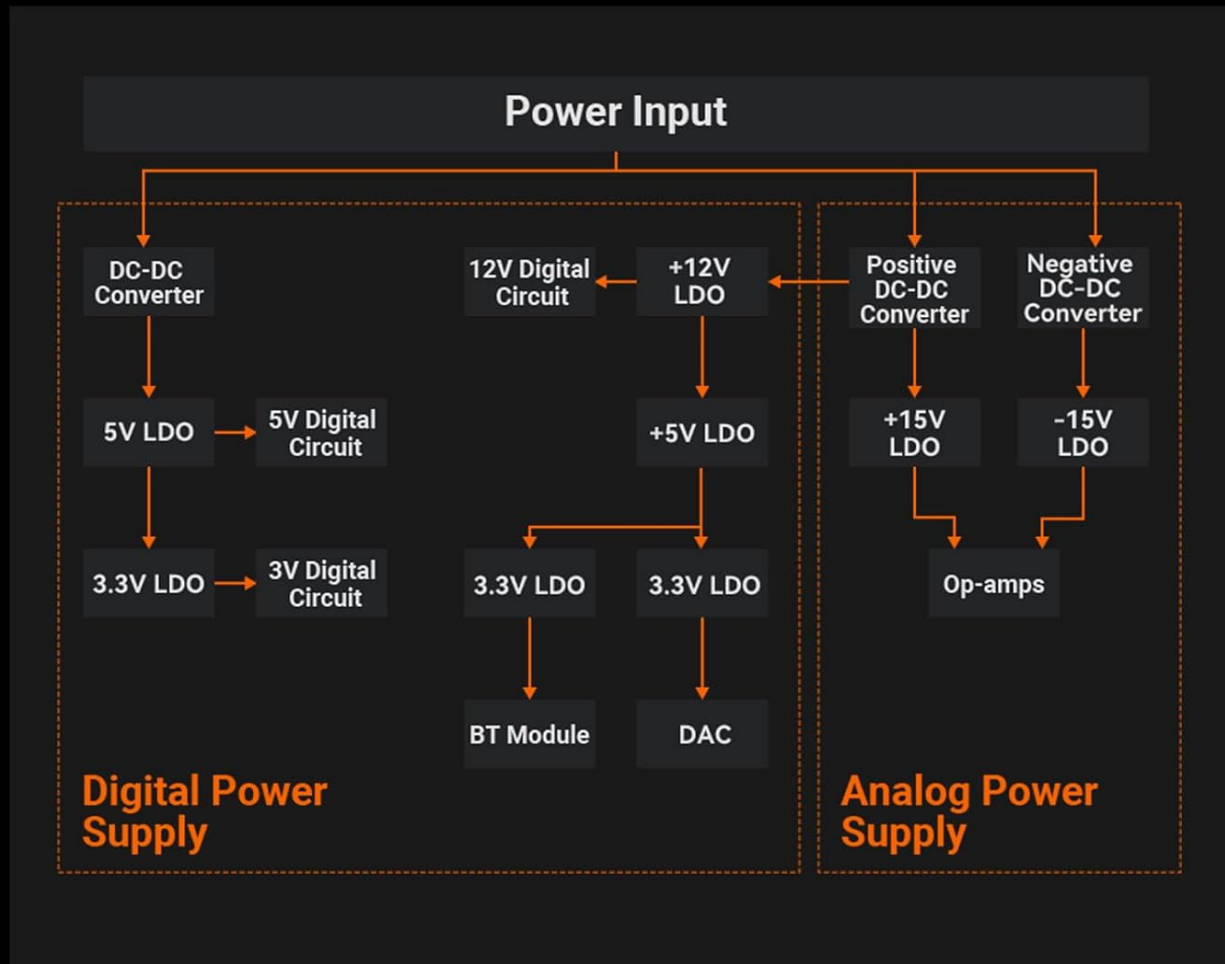


Image: Front view of the Fosi Audio BT20A MAX amplifier, showing the power/mode button, input indicators, bass and treble knobs, and a prominent orange volume knob.

1. **Power / Mode Button:** Short press to power on/off or switch input modes (Bluetooth, RCA1, RCA2).
2. **Input Indicators:** LEDs indicating the currently selected input (BT, RCA1, RCA2).
3. **IR Receiver:** For remote control signals.
4. **Bass Control:** Adjusts low-frequency output.
5. **Treble Control:** Adjusts high-frequency output.
6. **Volume Knob:** Controls the overall output volume. This is a motorized analog potentiometer.

3.2 Rear Panel

PFFB Technology

Reduce Distortion and Preserve Sound Purity

PFFB



Image: Rear view of the Fosi Audio BT20A MAX amplifier, displaying various input and output ports, including RCA inputs, speaker outputs, subwoofer output, and a Bluetooth antenna connector.

7. **RCA1 Input:** Analog audio input 1.
8. **RCA2 Input:** Analog audio input 2.
9. **Tone/Bypass Switch:** Toggles between tone control (bass/treble active) and bypass mode (tone controls inactive for pure sound).
10. **Sub Out:** Dedicated output for connecting an active subwoofer.
11. **Speaker Outputs:** Binding posts for connecting passive speakers (Left and Right channels).
12. **12V Trigger In:** For synchronized power on/off with other compatible devices.
13. **HPF Switch (80Hz):** High-Pass Filter switch to cut low frequencies from main speaker output.
14. **Bluetooth Antenna Connector:** For attaching the included Bluetooth antenna.
15. **DC Power Input:** Connect the power adapter here (DC 32-48V).

4. SETUP

4.1 Connecting Speakers

Connect your passive speakers to the speaker output binding posts on the rear panel. Ensure correct polarity (+ to + and - to -) for each speaker. For optimal performance, use high-quality speaker cables.

4.2 Connecting Audio Sources

- **RCA Inputs:** Connect your analog audio sources (e.g., CD player, DAC, phono preamp) to the RCA1 or RCA2 inputs using RCA cables.
- **Bluetooth:** For wireless connection, ensure the Bluetooth antenna is securely attached.

4.3 Connecting a Subwoofer

If you are using an active subwoofer, connect it to the "Sub Out" port on the rear panel using an RCA cable. This allows for a 2.1 channel audio system.

4.4 Power Connection

Connect the provided power adapter to the DC power input port (DC 32-48V) on the rear panel, then plug the adapter into a power outlet.

4.5 System Diagram

Motorized Analog Potentiometer

Remote-Controlled for Precise Volume Adjustment



Image: A diagram illustrating various connection possibilities for the Fosi Audio BT20A MAX, including RCA inputs from a laptop and turntable, speaker outputs, and subwoofer output.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off and Input Selection

Press the Power/Mode button on the front panel to turn the device on or off. Short press the button to cycle through input modes: Bluetooth (BT), RCA1, and RCA2. The corresponding LED indicator will light up.

5.2 Volume Control

Rotate the large orange Volume knob on the front panel to adjust the audio output level. The motorized potentiometer allows for precise adjustments, even via remote control.

5.3 Tone Controls (Bass & Treble)

Use the Bass and Treble knobs to fine-tune the low and high frequencies of your audio. For a pure, uncolored sound,

switch the Tone/Bypass switch on the rear panel to "Bypass".

5.4 Bluetooth Pairing

When the amplifier is in Bluetooth mode (BT LED lit), it is ready for pairing. On your source device (e.g., smartphone, tablet), search for "Fosi Audio BT20A MAX" in the Bluetooth settings and connect. The BT LED will remain solid once paired.

5.5 Remote Control Operation

The included IR remote control allows you to power on/off, adjust volume, switch inputs, and control playback functions from a distance. Point the remote towards the IR receiver on the front panel.

Your browser does not support the video tag.

Video: A demonstration of how to use the remote control with the Fosi Audio BT20A MAX amplifier, showing power on/off, volume adjustment, and input switching.

5.6 High-Pass Filter (HPF)

The HPF switch on the rear panel, when set to "ON", will cut frequencies below 80Hz from the main speaker output. This is useful when using a subwoofer, allowing your main speakers to focus on mid and high frequencies for improved clarity.

Ideal for 2.1 Audio Systems

Dual RCA Inputs & Dedicated Subwoofer Output

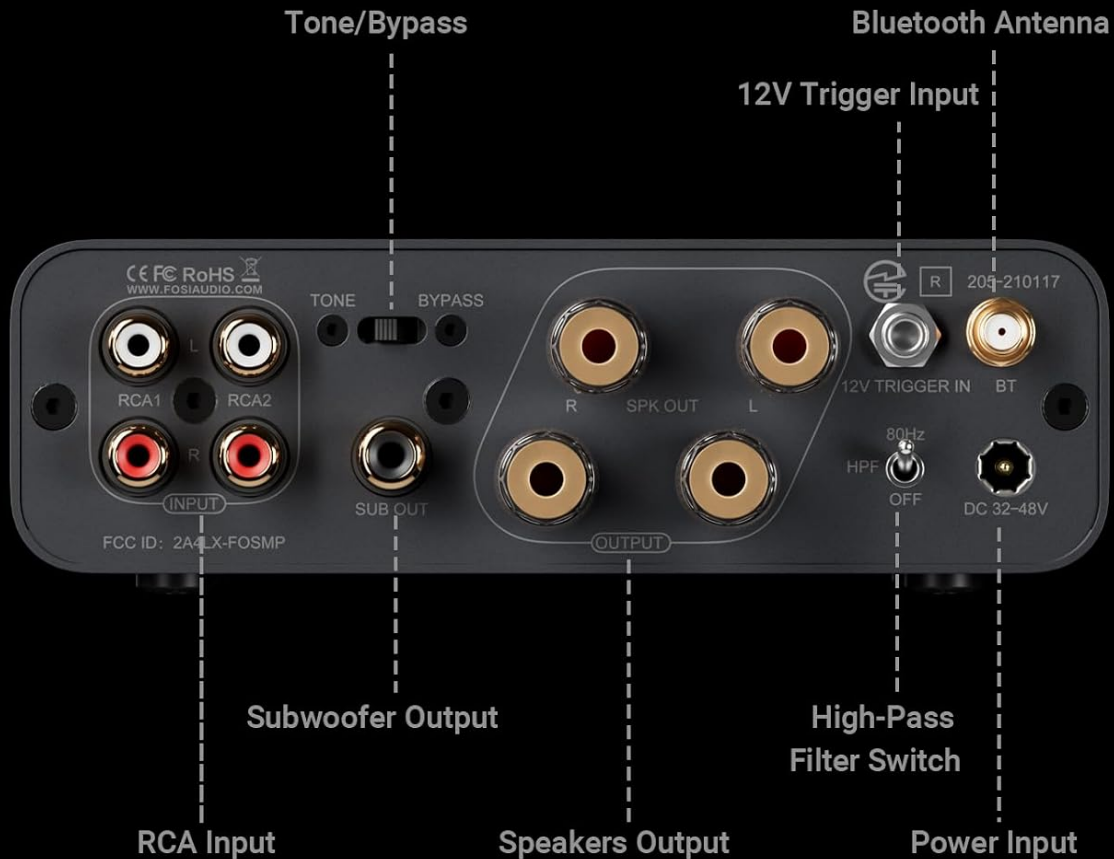


Image: Close-up of the rear panel showing the High-Pass Filter (HPF) switch, which can be set to 80Hz or OFF.

6. KEY FEATURES & TECHNOLOGY

- **PFFB Technology:** Post-Filter Feedback technology ensures ultra-low distortion ($\leq 0.003\%$) and high Signal-to-Noise Ratio ($\geq 112\text{dB}$) for pure, detailed audio.
- **Dual Independent Power Supply:** Separates digital and analog power supplies to minimize noise interference and deliver a cleaner sound background.
- **Enhanced Cooling System:** Features a built-in silent fan and ventilation slots for 30% improved cooling efficiency, ensuring stable high-power performance.
- **Hi-Res Bluetooth Connectivity:** Equipped with Qualcomm Chip QCC3095 and Bluetooth 6.0, supporting LDAC, aptX Lossless, aptX HD, aptX Adaptive, aptX, SBC, and AAC codecs for stable, low-latency, high-resolution wireless audio up to PCM 24bit/96kHz.
- **Motorized Analog Potentiometer:** Provides precise and smooth volume adjustment, controllable both manually and via the included remote.

- **Dedicated Decoding:** Utilizes a flagship CS4398 chip for high-spec 24-bit audio decoding, offering a dynamic range of up to 120 dB and minimal distortion.
- **12V Trigger Input:** Enables synchronized power on/off with other compatible audio components.

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Video: A detailed product introduction and demonstration of the Fosi Audio BT20A MAX, highlighting its design, features, and internal components.

7. SPECIFICATIONS

Feature	Detail
Channel	2.1
Max Output Power	300W x 2 @ 4Ω
RMS Output Power	180W x 2 @ 4Ω
Input	RCA1 / RCA2 / Bluetooth
Output	Speaker Out / Sub Out
SNR	≥112dB
THD+N	≤0.003%
Terminal Impedance	2-8Ω
Bluetooth SoC	Qualcomm QCC3095
Bluetooth Version	6.0
Bluetooth Connection Range	≤15m (50 ft)
Bluetooth Audio Codecs	SBC/AAC/aptX/aptX HD/aptX Adaptive/aptX Lossless/LDAC
Frequency Response	20Hz-20kHz (±0.5dB)
Voltage Range	DC 32V-48V
Item Weight	1200 Grams

8. TROUBLESHOOTING

- **No Sound:**
 - Ensure the power adapter is securely connected and the amplifier is powered on.
 - Verify that the correct input mode (BT, RCA1, or RCA2) is selected.
 - Check all audio cable connections between sources, amplifier, and speakers.
 - Confirm that the volume is not set to minimum or muted.
 - Ensure speakers are correctly wired to the binding posts with correct polarity.
- **Bluetooth Connection Issues:**
 - Ensure the amplifier is in Bluetooth mode.

- Disable and re-enable Bluetooth on your source device.
- Try forgetting the device ("Fosi Audio BT20A MAX") from your source device's Bluetooth list and re-pairing.
- Ensure the Bluetooth antenna is securely attached.
- Reduce the distance between the source device and the amplifier.

- **Remote Control Not Working:**

- Check if the remote control batteries need replacement.
- Ensure there are no obstructions between the remote and the amplifier's IR receiver.
- Confirm the remote is paired with the amplifier (if applicable, though typically IR remotes don't require pairing).

- **Distorted Sound:**

- Reduce the volume on both the amplifier and the source device.
- Check for loose cable connections.
- Ensure speaker impedance matches the amplifier's supported range (2-8Ω).
- If using tone controls, try switching to "Bypass" mode to see if the distortion persists.

9. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the amplifier's exterior. Avoid using liquid cleaners or solvents.
- **Ventilation:** Ensure the amplifier has adequate ventilation to prevent overheating. Do not block the ventilation slots.
- **Storage:** When not in use for extended periods, store the amplifier in a cool, dry place away from direct sunlight and moisture.

10. WARRANTY & SUPPORT

The Fosi Audio BT20A MAX comes with a **24 Months Manufacturer Warranty**. For technical support, warranty claims, or any inquiries, please contact Fosi Audio customer service through their official website or the platform where you purchased the product.

Official Website: www.fosiaudio.com

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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

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for

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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