Fosi Audio

BT20A PRO User Manual

Product Overview

The Bass/Treble knobs with midpoint position

Fosi Audio BT20A PRO

– TREBLE +   – BASS +   – VOL +

| Power Indicator | Power Switch | Treble Control | Bass Control | Volume Control |
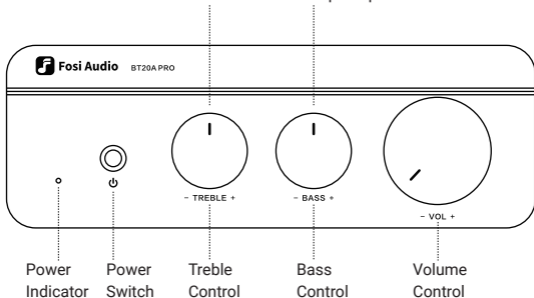
Long press 5s to clear all bluetooth pairing records

Bluetooth Antenna

CE FC RoHS
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R L
LINE IN

PRE OUT

R   L
OUTPUT

BT

DC24-48V

| RCA Input | 3.5mm PRE OUT | Speakers Output | DC Input |
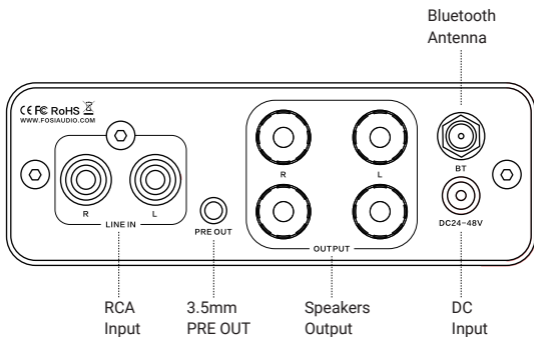
Product Specifications

Fosi Audio BT20A PRO is an upgraded Bluetooth 5.0 HiFi stereo amplifier with PRE-OUT port, which can be used as a preamplifier. The BT20A PRO supports RCA/Bluetooth input, suitable for most passive speakers as well as active ones.

It adopts TI TPA3255 high-performance Class-D power amplifier chip enabling true premium sound quality and allows ultra low distortion across the audio band.

The BT20A PRO is mounted with high-power inductors.

Audio Input	RCA/Bluetooth
Audio Output	Speaker Output/3.5mm Pre out
Power Output	300Wx2 @4Ω
SNR	≥108dB
Terminating Impedances	2-8Ω
THD	0.005%
Power Amplifier Chip	TPA3255
Power Adapter	32V 5A
DC Input Range	DC24V-48V
Frequency Response Range	20Hz-20kHz(±1.2dB)
Bluetooth Transmission Distance	Up to 50Ft

Package Contents

BT20A PRO Bluetooth Amplifier x1
Bluetooth Antenna x1
Power Adapter x1
AC Cord x1
User Manual x1

Quick Steup

Basic operation

Step 1: Install the Bluetooth antenna to the BT20A PRO.

Step 2: Connect your passive speakers to the BT20A PRO via speaker wires.

NOTE: The PRE OUT can be connected to an active subwoofer and speakers. Or you can connect it to the PRE OUT as a preamplifier.

You don't need to connect all the outputs. You can connect 2 passive speakers only.

And you can connect all the outputs simultaneously.

Step 3: Connect the power supply to BT20A PRO and the socket. Flip the switch's toggle to power on the BT20A PRO.
Then the input mode indicator light of BT20A PRO stays red after powered on.

NOTE 1: Please make sure the LED light on the power adapter stays on.
NOTE 2: Before connecting the power supply, please set the bass and treble control to the center position and set the volume to zero to avoid sudden loud noise.

Step 4: Connect the audio source (RCA input/Bluetooth input) to the BT20A PRO.

Step 5: Adjust the Volume control, Bass/Treble control, then enjoy it!

NOTE: Make sure that all the cables are completely pushed into the device.

Connectivity

RCA Input:
Use an RCA cable to connect the BT20A PRO and your device. The input indicator light will stay on Red.

Bluetooth Input:
Turn on the Bluetooth on your device, and select "Fosi Audio BT20A PRO" for pairing, the input mode indicator light will stay blue after a successful connection.

Input priority: The Bluetooth input mode first.

NOTE: Please keep the Fosi Audio BT20A PRO away from other electrical devices. The Fosi Audio BT20A PRO can't use with a radio at the same time.

TIP: How to change/replace op-amp?

It is built in with two plug-in NE5532 Op-Amps, different op amps make different sound quality, it can be replaced by LME49720HA/MUSES02/O-PA26041P/OPA2134PA/LM4562/NJM4556AD Op-Amps etc.
Use a hex screwdriver to remove the back panel screws, pull the board out and unplug the op-amp, align the holes and reassemble the other op-amps.

Video Tutorial:
https://www.fosiaudio.com/how-to/change-bt20a-pro-op-amp-chip
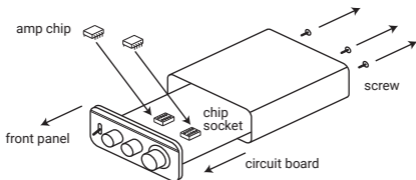
TIP: How to clear the Bluetooth connection?
Press and hold the volume knob for 5 seconds and it will be disconnected.

Troubleshooting/QA

01. Get noise when playing music?

• Bluetooth input mode: Try to use other Bluetooth devices. Weak or unstable Bluetooth signal will cause this problem, try to place your device nearer to the BT20A PRO.
• RCA input mode: Please change the audio cable to try.
•Try another RCA cable and make sure the audio cable is connected correctly.
• Please unplug the RCA cable from the amplifier, and then turn it on to try.
• Please change the audio source or other brand devices to try.
• Did you set the "treble" gain to the max? please turn the "Treble" gain down.
• Make sure all cables are all securely in place and correctly connected.
• Please keep this device away from other electronic devices.

02. All cables are connected, but there is no audio output?

• Check to make sure the indicator lights on the front panel of the BT20A PRO and the power supply are both on.
• If the indicator light is on, please check if the volume knob is at the minimum level. If yes, please turn up the volume.
• Make sure that the BT20A PRO is set to the input mode you want.
Note: Bluetooth input mode (The input mode indicator light will stay on blue)
RCA input mode (The input mode indicator light will stay on red)
Input priority: The Bluetooth input mode first.
• Please check if the audio source is paused.
• Please try to change the sound source, cables, and speakers.
• Try restarting both your device and BT20A PRO, then connect again.
NOTE: Make sure that all the cables are completely pushed into the device.

03. My Bluetooth device can't be paired with the BT20A Pro?

• Check to make sure the BT20A PRO is powered on and the LED light on the power adapter stays on.
• Ensure that the BT20A PRO is not paired with another device.

• Make sure that the distance between your device and the BT20A PRO is not too far, place your device nearer to the BT20A PRO.
• Make sure there are no obstacles between your device and the BT20A PRO. Obstacles will affect the Bluetooth operation distance.
• Please try to change to another Bluetooth audio source to test.
• Please replug the power supply, move the amplifier to another room and test it again.
• Restart the BT20A PRO and then try to connect again, try to use another brand of mobile phone or device.

04. Why the sound is intermittent in Bluetooth mode?
• Use another Bluetooth device to have a try.
• Ensure that there is no other electronic equipment between the BT20A PRO and the audio source which may cause interference.
• Put your device closer to the BT20A PRO.
• Replug the power supply.

05. One channel does not work?
• Please test whether the Bluetooth and AUX inputs have the same problem first.
• If these two modes have the same problem, swap the speaker cables of the left and right channels, or change to use another speaker, and then test whether this channel still does not work;
• If only AUX mode does not work, change the audio source, change the audio cable, and test again, and make sure that the audio source and cables both deliver stereo sound, not MONO.

06. Can't be powered on?
• Make sure that the LED light on the power adapter stays on.
• If it does not light up: Unplug the power adapter from the BT20A PRO, plug the power adapter directly into the AC power source, and see if the LED will light up. If it still does not light up, there may be a problem with the power adapter. Please contact us to replace the power adapter.
• You can use a DC 24V-48V power adapter of a camera or router to connect the BT20A PRO to test whether it can be turned on.

07. The BT20A Pro can be used as a pre-amp?
• Yes. There is a PRE-OUT port on the rear panel, which allows it to be

used as a preamplifier.

08. Sound quality is not good?
• Make sure all the cables are fully connected.
• Adjust the treble and bass control of the BT20A PRO to find the right tone.
• Please try to change the sound source and cables to test.

09. Why does the sound cut in and cut out?
• Try to reduce the sound of the sound source.
• Try to change the audio source to test.
• Reduce the gain of the treble and bass knob on the BT20A PRO.
• Ensure that the positive and negative poles of the speaker output do not touch together. Some relatively large banana plugs are easy to touch together and cause a short circuit.

10. Does the BT20A PRO support Bluetooth aptX and Low Latency?
• No. The BT20A PRO does not support Dolby, aptX, aptX HD or aptX Low Latency.

11. Can this amp be left on all the time?
• It can be connected all the time and it is safe without power consumption.

12. Can I listen to two audio inputs at the same time?
• No, only one mode can be used at a time.

Warranty Information

All Fosi Audio products have an 18-month limited warranty on parts and labor from the date of purchase. Please contact us if you have any problems.

About Fosi Audio

Fosi Audio designs and builds innovative audio products with all your music in mind. Great sound, simple but elegant designs, high-quality materials, and truly useful features are what Fosi Audio is about. We sincerely hope you get as much enjoyment from our products as we've had to create them!

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www.fosiaudio.com

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