

BlastBeats Mix Output Noise Fix Instructions

Overview

The Mix Output amplifier on BlastBeats can be configured in two states, and the latest firmware version 4.3 introduces the ability to switch between these states by holding the **MIX** button at startup. This allows users to address two specific noise-related issues.

Issue 1: MIX Output Noise at Runtime

Firmware version 4.3 addresses a runtime noise issue on the MIX output. The fix is implemented by setting the output amplifier to a **bridged configuration**, which is the same configuration used for the individual outputs. This adjustment should eliminate noise during normal operation.

✅ **Solution:** Simply update to firmware 4.3 or later. The MIX output will automatically be configured to the bridged state, eliminating noise during runtime.

Issue 2: Noise When Powered Off

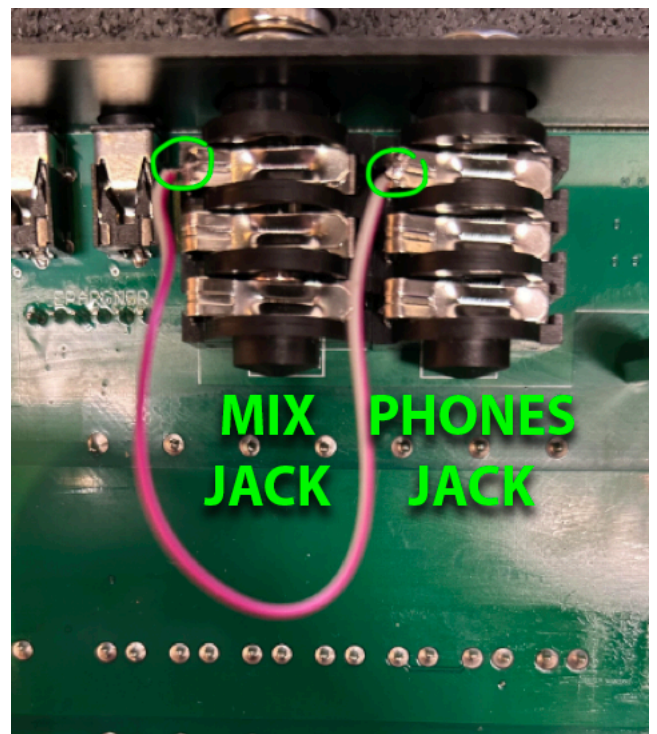
Some users have reported noise from the MIX output **when the unit is powered off**. This issue requires a simple hardware modification to resolve.

Cause: When the unit is off, the sleeve of the MIX output jack is left floating, which can cause a buzz.

Solution:

- **Hardware Mod:** Remove the bottom of the case by unscrewing the 6 screws under the unit and solder a single piece of wire between two highlighted sleeve pins of the jacks, as illustrated in the photo below.
- This mod grounds the sleeve of the MIX output jack, preventing buzz when the unit is off.

📌 **Important:** After performing this hardware mod, it is necessary to configure the amplifier as **mono**. Failing to do so will result in noise at runtime.



Configuration After Mod

After performing the mod:

1. **Hold the MIX button at startup.**
2. The unit will reconfigure the amplifier to operate in mono mode.
3. The setting will be remembered internally for R1 units and stored on the SD card for R2 units.

Future Units (units shipped after since April 3rd 2025)

Future units will be modified at the factory and referred to as **R2B units**. The mod is not necessary for these units. You can identify R2B units by checking for **"R2B"** in the serial number.

Summary

- Firmware 4.3 or later fixes runtime noise by setting the amplifier to bridged mode.
- Noise when powered off requires a simple hardware mod.
- After performing the mod, configure the amplifier as **mono** by holding **MIX** at startup.
- Future R2B units do not require this modification.

Please reach out if you encounter any issues or require assistance!