



Orchard Audio

Starkrimson® 25 Mono Premium Instructions with Rolling Input Buffer

Notes:

- Do not power up or operate the amplifier without speakers or a load connected.
- Due to the bridged amplifier design, both speaker terminals are hot when the amplifier is on.
 - **Warning - High Voltage**
 - Do not connect either speaker terminal to GND or EARTH
 - When connecting to subwoofer's high-level input(s), double check this is supported. Contact us if not sure.
- The amplifier uses a universal AC input power supply and will function with all voltages between 85 and 264 VAC.
- No user-serviceable parts – tampering with the amplifier will void the warranty
 - Gain change is acceptable
- These amplifiers are not compatible with electrostatic speakers. For electrostatic speaker please use one of our [Ultra models](#).

For best performance place the amp(s) as close as possible to the speaker(s) and use very short speaker cables.

To Turn the Amplifier On:

1. Connect speaker
2. Connect XLR input
3. Make sure the power switch is in the off position (0).
4. Connect power cord
5. Turn the power switch to the on position (I).

To Turn the Amplifier Off:

1. Turn the power switch to the off position (0).
2. Wait at least 15 seconds
3. Remove other connection(s) if needed.

Improper powerup or power down of the amps may cause damage and this damage will not be covered under the warranty.

Gain Adjustment for Amplifier Module

1. Turn the amplifier off and wait at least 15 seconds
2. Remove all connections from it.
3. Remove the amplifier cover
 - a. 8 x M4 screws (larger size ones)
 - b. 8 x M2.5 screws (smaller sized one)

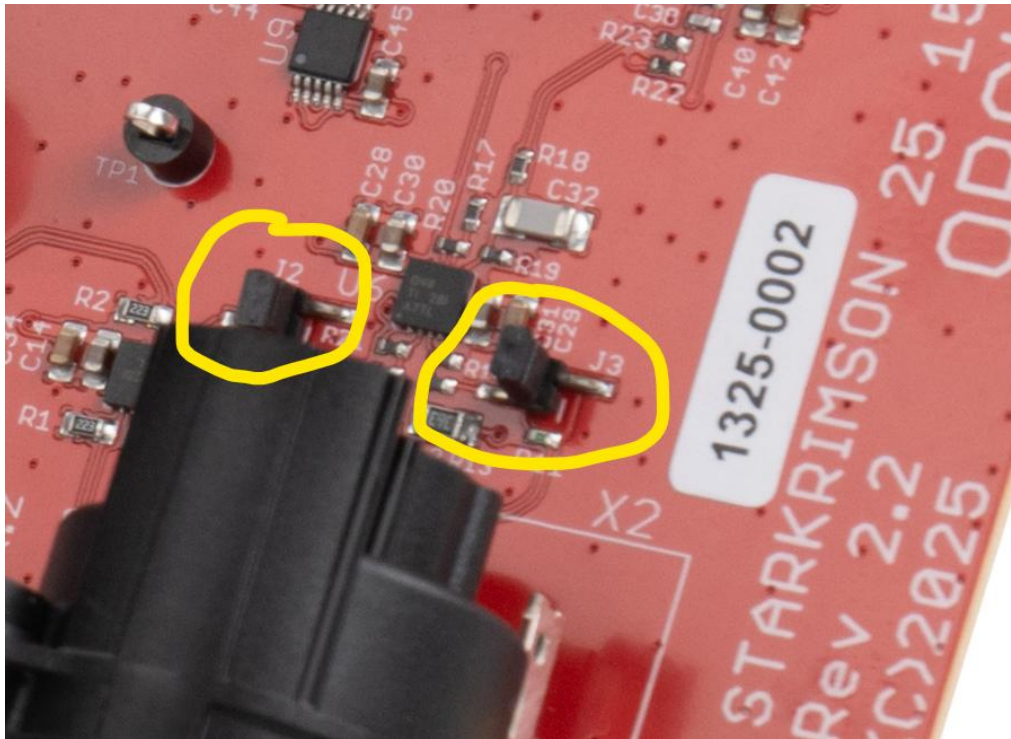
This image shows the screws that need to be removed, as well as the same ones on the other side of the amp.



4. The gain can be adjusted by jumpers J2 and J3 on the amplifier circuit board (see picture below). This table shows acceptable configurations.

Gain	J2 Setting	J3 Setting
21.5dB	Installed (default)	Installed (default)
16.8dB	Removed	Removed

NOTE: Both jumpers must be installed or removed. Do not operate the amplifier with only one jumper installed.



5. Re-install the cover with its 16 screws.

Rolling Input Buffer Gain Instructions

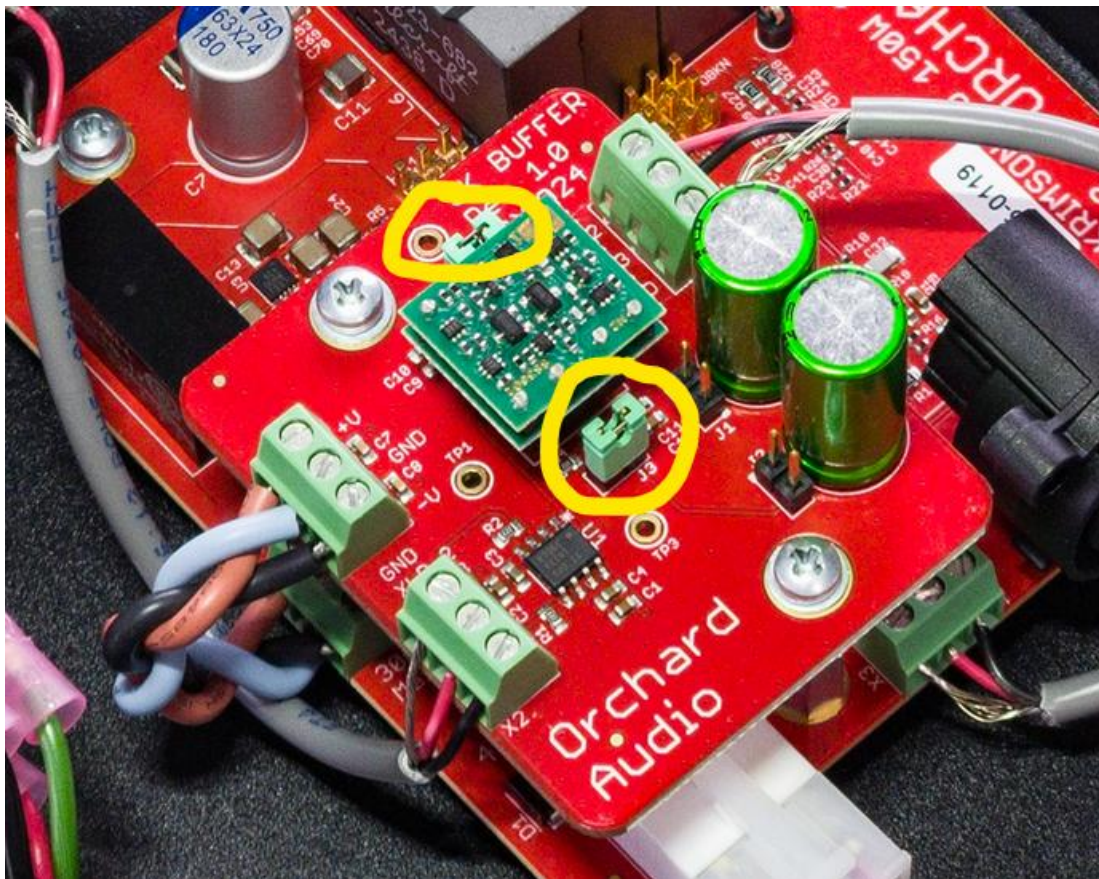
1. Remove the amplifier cover per the instructions above.
2. The gain of the buffer board be adjusted by jumpers J3 and J4 on the amplifier circuit board (see picture below). This table shows acceptable configurations.

Gain	J3 Setting	J4 Setting
0dB	Installed (default)	Installed (default)
6dB	Removed	Removed

Note: The total gain of the amplifier overall is the gain of the amplifier module + gain of rolling input buffer. There is a total of 4 configurations.

Total Amplifier Gain	Amplifier Module Gain	Buffer Gain
16.8dB	16.8dB	0dB
21.5dB	21.5dB	0dB
22.8dB	16.8dB	6dB
27.5dB	21.5dB	6dB

NOTE: Both jumpers must be installed or removed. Do not operate with only one jumper installed.

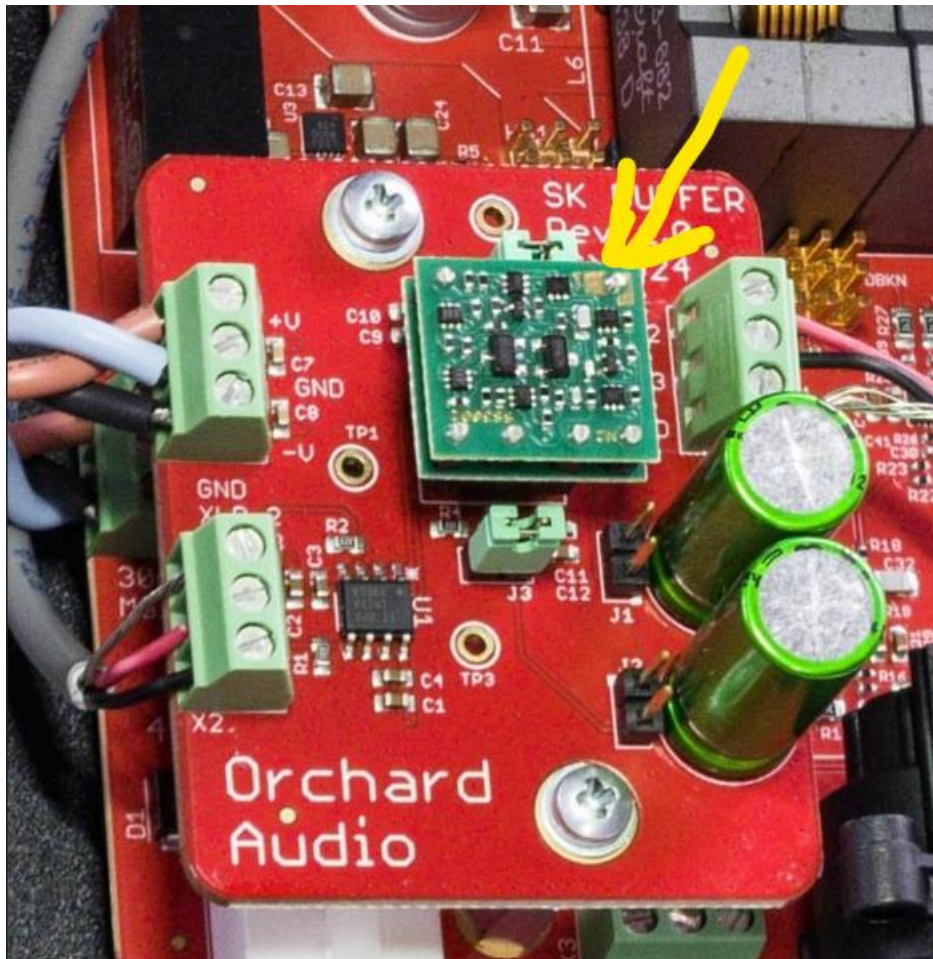


3. Reinstall the cover as covered in the instructions, above.

Op-Amp Swapping (Rolling) Instructions

1. Remove the amplifier cover per the instructions above.
2. Carefully remove the op-amp from DIP-8 socket.
3. Install the new op-amp into the DIP-8 socket. – Use only dual configuration DIP-8 op-amps. The maximum supported current draw is 30mA.

NOTE: Make sure to install with pin 1 of the op-amp in the correct orientation. The arrow below shows pin 1 location. Improperly installing the replacement op-amp will damage both the amplifier module and the buffer board



4. Reinstall the cover as covered in the instructions above. – Please note the front 2 top cover screws are at an angle to match up with the front panel.