



APPLICATION NOTE

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D1 Plus Bias Patch Panel

Wiring the Bias D1+/Q1+/Q1.5+/Q2+ Patch Panel

Void Acoustics' Bias D1+/Q1+/Q1.5+/Q2+ uses a phoenix style connection for analog audio inputs and outputs. When in a touring environment where re-wiring an amplifier regularly may be needed, standard connections such as XLR and speakON are more desirable.

VOID D1 Plus Bias Patch Panel - overview

The Bias Patch Panel shown in Figure 1 allows for the desired connectivity of XLR and speakON while using a Bias D1+/Q1+/Q1.5+/Q2+ amplifier.

The wires are pre-terminated with bootlace ferrules for easy set up.

The ground/shield wires for the Input signal connections have a green heat- shrink

applied. This is a thicker wire than the green signal wire used for Ch3.

The following guide outlines how to wire the patch panel to the Bias+ amplifiers including the non-plus Bias versions.

Wiring for Bias D1+

The Bias Patch Panel can be used to work with two Bias D1+ amplifiers.

The following method puts one amplifier on Inputs/Outputs 1+2 and another on Inputs/Outputs 3+4. If wiring for one amplifier, skip the steps referring to a second amplifier.

Input Signal

The Bias D1+ has two inputs, therefore the third and fourth inputs on the patch panel can be used for a second D1+ amplifier.

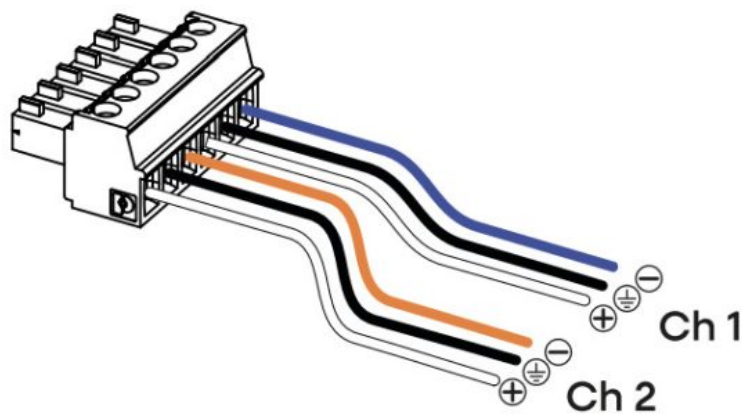


Figure 2: Bias 2-Channel Input Phoenix

When wiring up a second Bias D1+ to the Bias Patch panel, the input phoenix is wired as in Figure 3.

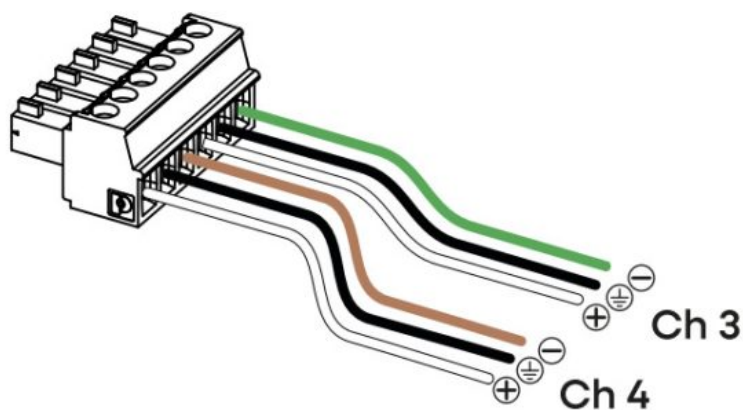


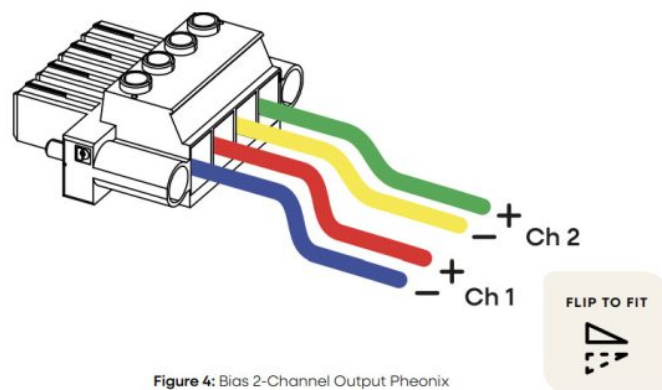
Figure 3: Bias 2-Channel Input Phoenix (For second amp)

Output Signal

There are two glands on the rear of the patch panel which have a 4×2.5mm cable. This

cable is wired to the output phoenix connector. The labels on the cables will show 1+2/2 and 3+4/4.

If wiring two Bias D1+ amplifiers to the patch panel, wire both connectors as in Figure 4 with Ch3 in place of Ch1 and Ch4 in place of Ch2.

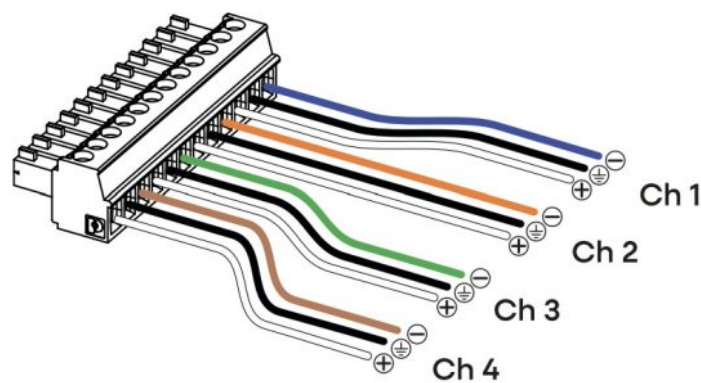


When plugging the output phoenix block into the Bias D1+, it will be inverted screw side down and plugged into the Output Phoenix.

Wiring for Bias Q1+/Q1.5+/Q2+

Input Signal

The Gland on the right-hand side of the patch panel when looking at the rear, has 4 balanced cables within a multicore. The cables are individually labeled 1/A, 2/B, 3/C, 4/D. They are respectively Ch1, Ch2, Ch3, Ch4. They are wired as in Figure 5.



When plugging into the amplifier ensure that you are using the bottom Input Phoenix connection as highlighted in Figure 6.

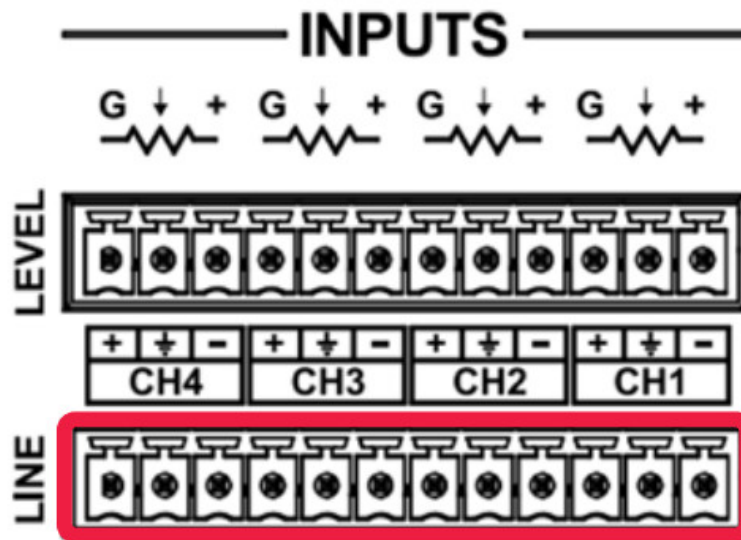


Figure 6: Bias 4-Channel Input Connection

Output Signal

There are two glands on the rear of the patch panel which each have a 4×2.5mm cable. This cable is wired to the output phoenix connector.

The labels on the cables will show 1+2/2 and 3+4/4. They are wired as in Figure 7. It is important to note the orientation of the phoenix block.

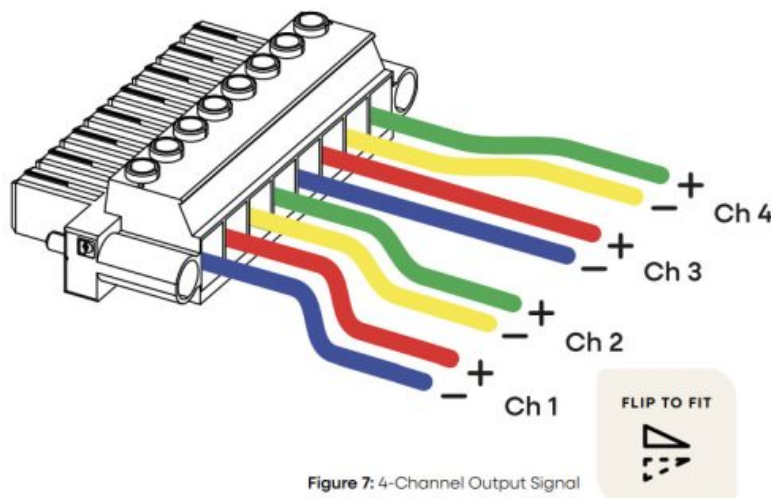


Figure 7: 4-Channel Output Signal

When plugging the output phoenix block into the Bias Q1+/Q1.5+/ Q2+, it will be inverted screw side down and plugged into the Output Phoenix shown in Figure 8.

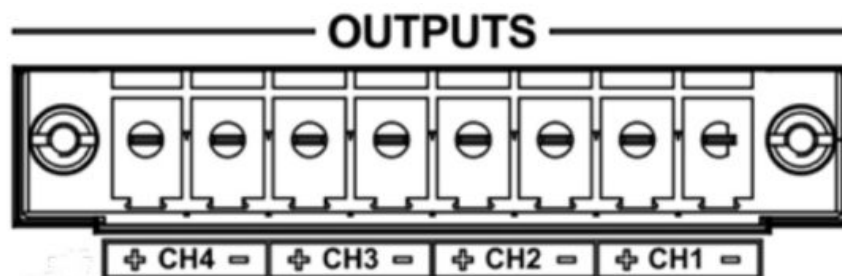


Figure 8: Bias 4-Channel Output Phoenix

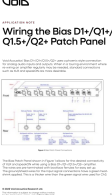


This information is subject to change without notice.

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Documents / Resources

	VOID D1 Plus Bias Patch Panel [pdf] Instructions D1 Plus, D1 Plus Bias Patch Panel, Bias Patch Panel, Patch Panel
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References

- [User Manual](#)

📁 Bias Patch Panel, D1 Plus, D1 Plus Bias Patch Panel, Patch Panel,

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