

Amazing Booster

Based on:
AMZ's Mini Booster
Effect type:
Booster
Build difficult:
Begginer

Amount of parts:
LOW, total 17 components
Technology:
JFET Booster
Power consumption:
23mA (9v)

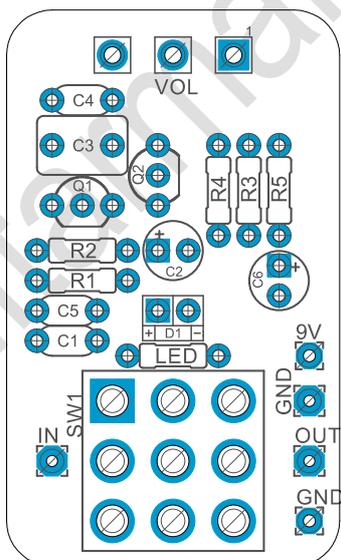
Enclosure type:
125B
Get your board at:
[Amazing Booster](#)
Get your kit at:
[Das Musikding \(Europe\)](#)

Project overview:

The Amazing Booster is JFET Mini Booster inspired on Jack Orman's Design.

This PCB has been conceived with the idea of having a powerfull, loud and versatile booster, able to fit in almost every possible enclosure asn well as to be boxed together with a main effect, such another overdrive, distortion, etc.

Featuring 3PDT switch on board.



Real measures are:

29mm width x 47mm height

1.43" width x 1.80" height

Bill of materials

Resistors		Capacitors		Semiconductors	
Part	Value	Part	Value	Part	Value
R1	1M	C1	47nf	Q1	2N5457
R2	1K	C2	10uf	Q2	2N5457
R3	1M	C3*	3.3uf NP	D1	3mm RED LED
R4	1M	C4	220nf		
R5	100R	C5	10pf		
LED	4k7	C6	100uf		

Potentiometers	
Part	Value
VOL	100k A

Switches	
Part	Value
SW1	3PDT

Shopping list

Resistors		
Qty	Value	Parts
1	1K	R2
3	1M	R1, R3, R4
1	4k7	LED
1	100R	R5

Semiconductors		
Qty	Value	Parts
2	2N5457	Q1, Q2
1	3mm red led	D1

Switches		
Qty	Value	Parts
1	3PDT	SW1

Capacitors		
Qty	Value	Parts
1	10uf	C2
1	100uf	C6
1	10pf	C5
1	220nf	C4
1	3.3uf NP	C3
1	47nf	C1

Potentiometers		
Qty	Value	Parts
1	100k A	VOL

Components Recommendations

C3* Is a NON-POLARIZED 3.3UF Capacitor.

For my build I've used the following one.

https://www.musikding.de/MKS2-33uF_1

<https://cz.mouser.com/ProductDetail/WIMA/MKS2B043301H00KI00?qs=sGAEpiMZZMsh%252b1woXyUXj7HdhSAGh9pMU6CGYtT1%2fj8%3d>

For the 100k A potentiometer, feel free to choose in between the pcb mounted or the regular pot regarding how are you planing to box it.

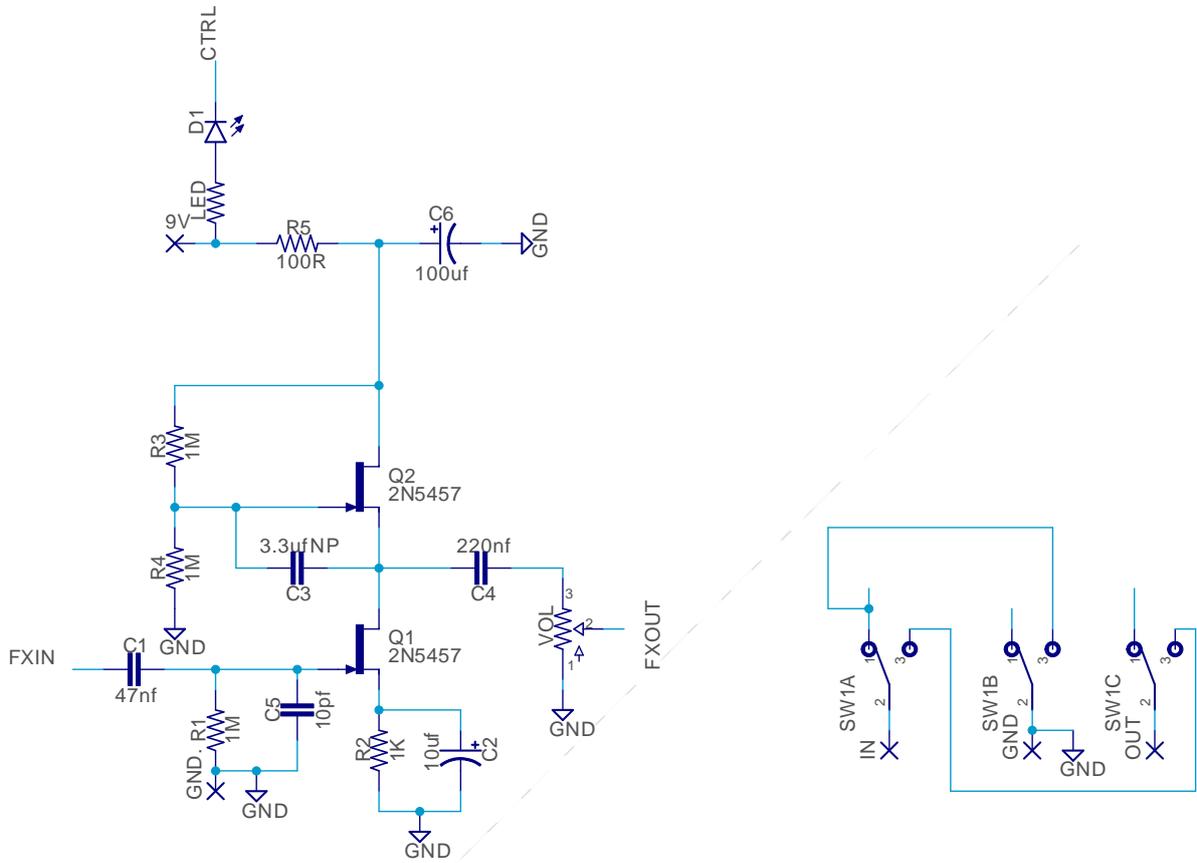
Build Notes

If this is one of your first projects I recommend you to take a look on our [Pedal Building Guide](#)

For a successful and tidy build it's recommended the following order:

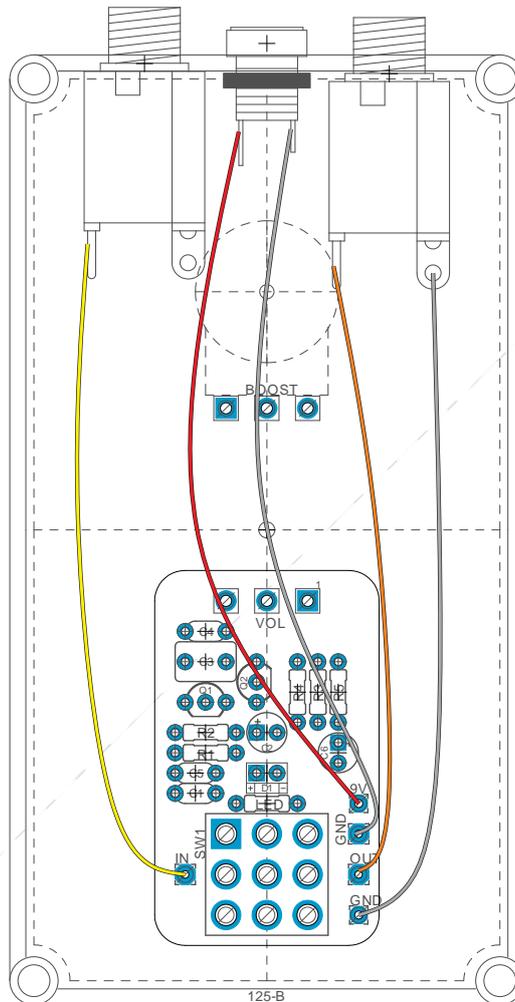
1. Resistors & diodes
2. Capacitors, starting with the smaller ones and the ceramic ones.
3. Electrolytic capacitors (always check the polarity)
4. Transistors
5. Wires
6. Potentiometers and switches
7. Off board wiring

Schematic



Wiring Diagram

You can take a look on the following diagram to understand the general connections. For further information check our [Pedal Wiring guide](#).



Drill Template

This Project fits on many different enclosures, that's why we have prepared multiple drilling templates for you to fit it according to your needs.

Check the Attached "Drilling templates" to drill the box properly. The files are on Scale 1:1, ready to print in a A4 page.

Licensing and Usage

We really appreciate your trust and support buying this PCB, as well as your will to dive into the DIY electronics world. That's why for us is really important that you can make this project work properly and to enjoy not only the building process, but also to experiment and play with it on your rig.

We try to reply to every question we receive on our email or in our social media, but we try to encourage all our customers to join our [PCB Guitar Mania - Builders Grup](#) on Facebook, in order to post all your doubts, issues, suggestions or request, as well to share your builds and have some feedback from us and other fellow builders!

All of our projects have been tested following this same guide on their standard configurations. Although, not all of the variations and mods have necessarily been tested. These are suggestions based on the schematic analysis, and on the experiences and opinions of others. Feel free to share with us your opinions and suggestions regarding the mods or your own personal experimentation.

These boards may be used for commercial endeavors in any quantity unless specifically noted. No attribution is necessary, though accreditation or a link back is always greatly appreciated.

If you are a builder planning to make your own run of pedals we also offer the service of custom made boards with your brand and logo, design according your specifications.

The only usage restrictions are that, first, you cannot resell the PCB as part of a kit without prior arrangement with us, and second, you cannot scratch off the silk screen, or other way of trying to hide our logos and the source of the PCBs. Like its written above, if you want to have your own designs, with your brand and logo we could certainly reach an agreement.

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