

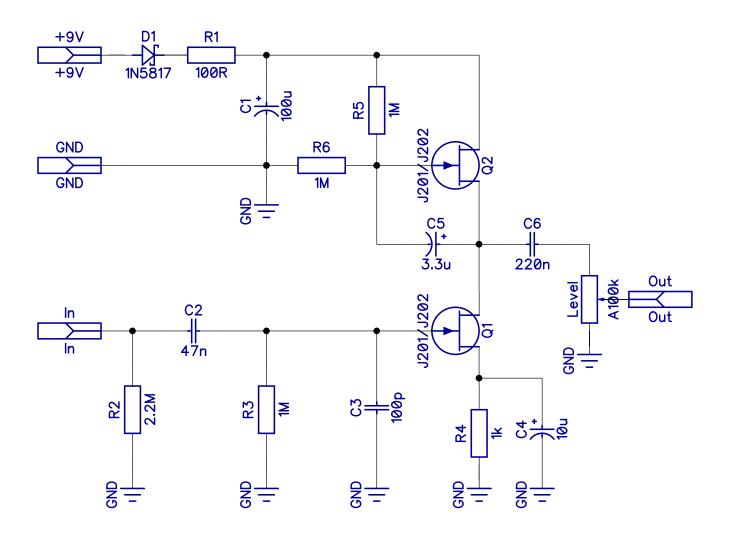
Rouster Bouster

Based on AMZ Mini Booster PCB artwork ©2019 drdFX Release date: 2019. 09. 01.

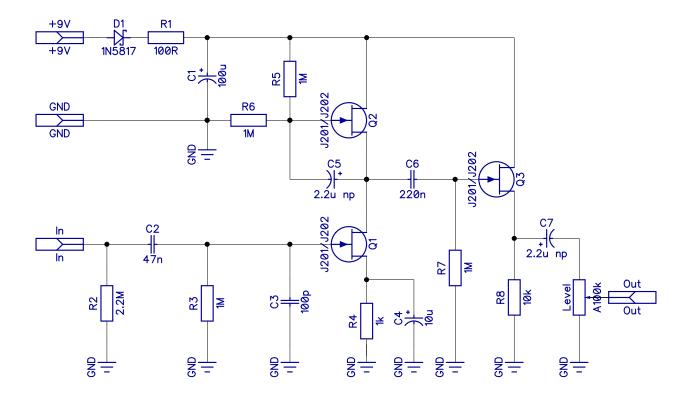
Rooster Booster is a clone of the AMZ Mini Booster. It is a quite high gain booster that is more or less transparent, however it breaks up by itself already, so I would consider it as a "dirty booster". I'd rather use it as a pre-boost in front of a distortion device or an amp already breaking up to increase the level of dirt.

SCHEMATIC

Without buffer:



With buffer:



BOM

Without buffer:

BOM											
Resistors		Capacitors		Semiconductors		Others					
R1	100R	C1	100u	D1	1N5817	Level	A100k				
R2	2.2M	C2	47n	Q1	J201/J202						
R3	1M	C3	100p	Q2	J201/J202						
R4	1k	C4	10u								
R5	1M	C5	3.3u								
R6	1M	C6	220n								

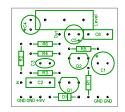
With buffer:

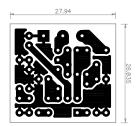
BOM											
Resistors		Capacitors		Semiconductors		Others					
R1	100R	C1	100u	D1	1N5817	Level	A100k				
R2	2.2M	C2	47n	Q1	J201/J202						
R3	1M	C3	100p	Q2	J201/J202						
R4	1k	C4	10u	Q3	J201/J202						
R5	1M	C5	2.2u np								
R6	1M	C6	220n								
R7	1M	C7	2.2u np								
R8	10k										

LAYOUT

Print out the PCB design without any resizing options and make sure you switch off the "fit to page" option. The design is free for personal/home use and you also may build one or two for your friends, but the PCB layout is my artwork, therefore protected by copyright and is not permitted to be used for commercial purposes.

Without buffer:





With buffer:





NOTES



The pot is board mounted to the bottom of the board. The square pad marks lug 1, for the numbering of the lugs see the picture. Since the part number is quite low it is possible to build the effect into a 1590A box too. In this one you can experiment with different types of JFETs, neither the Mu-Amp, nor the buffer are too susceptible. I have used J201 and J202 with great success, but you can try 2N5457 or whatever you have access to. Pay attention to the pinout though, different types can vary.

C5 is different on the two schematics, but the exact value is not really crucial until it is high enough. You can use anything in the 1u-4.7u range, but here you can experiment too. It is also not necessary to have a non-polarized cap here, you can use polarized electrolytic caps. In that case follow the directions shown on the schematic and the layouts.

DRILLING TEMPLATES

Here are two drilling templates for 1590A (the smallest) and 1590B (the most common size):

