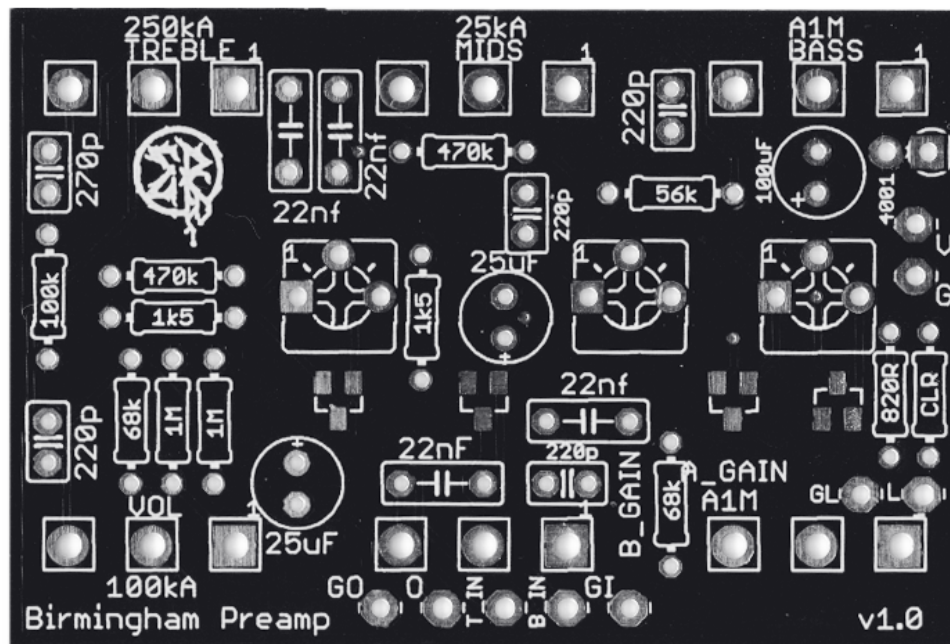




BIRMINGHAM PREAMP

It's 1969 and something's about to change the game forever: The ground-shaking dark sound of Heavy Metal is about to take off from Birmingham. Inspired by The Man of the Riff and the famous Laney Supergroup our Birmingham Preamp is taking back modern Doom Metal by storm!



59x40mm



Knobs

VOL	Controls the output volume
GAIN A	Controls the amount of gain for channel A
GAIN B	Controls the amount of gain for channel B
BASS	Controls the low frequencies
MIDS	Controls midrange frequencies
TREBLE	Controls the high frequencies

BOM

Resistors	
R1	1K5
R2	100k
R3	56k
R4	68k
R5	820R
R6	1k5
R7	1M
R8	1M
R9	68k
R10	470k
R11	470k

Capacitors	
C1	22nF
C2	22nF
C3	22nF
C4	22nF
C5	220p
C6	270p
C7	220p
C8	220p
C9	220p
C10	22uF _(elec)
C11	22uF _(elec)
C12	100uF _(elec)

Transistors	
Q1	SST5457
Q2	SST5457
Q3	SST5457
Q4	SST5457

Diodes	
D1	1N4001

Potentiometers	
VOL	A100k
GAIN A	A1M
GAIN B	A1M
BASS	A1M
MIDS	A25k
TREBLE	A250k
TRIM1	100k
TRIM2	100k
TRIM3	100k

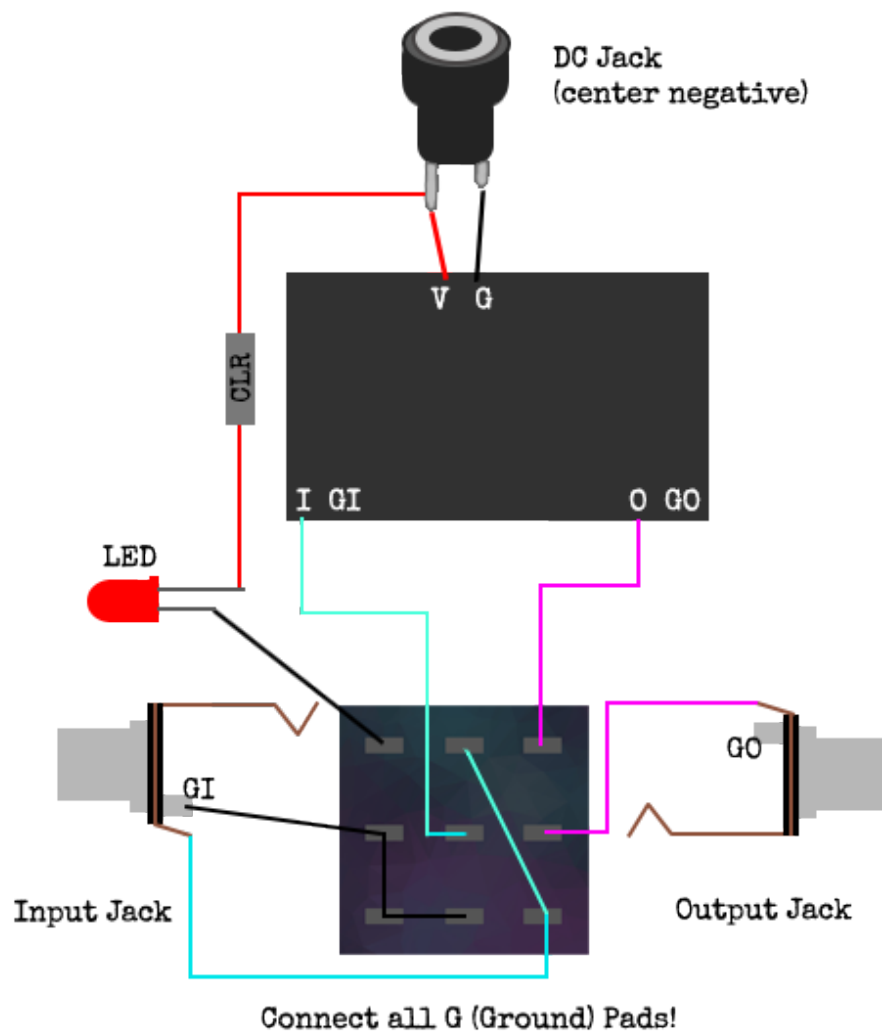
Other	
DPDT	on/on/on

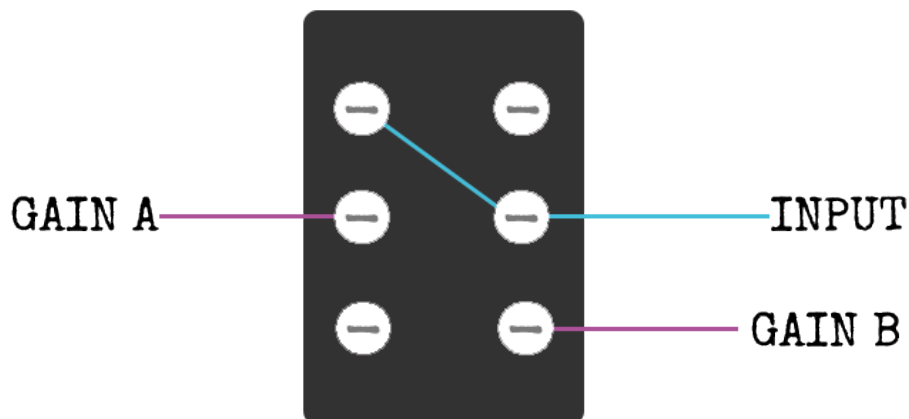
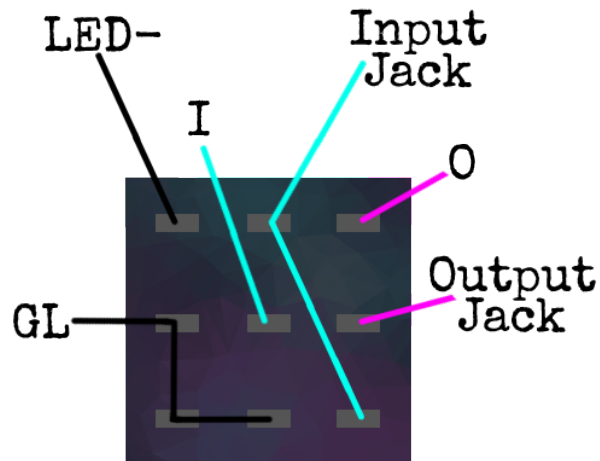


Suggestions

Beware of Counterfeit components, if you want quality products, order a kit ,
don't use ceramic capacitors over 1nF they tend to have microphonic
characteristics in some setups.

Wiring





Notes

This PCB requires proper JFET biasing. They need to be biased to around 4,5V but you can also do it by ear. If you want to bias them correctly, you need to hook up the PCB to a 9V power supply. Take your multimeter and connect the black (negative) tip to ground and the positive tip to „Drain“ (Have a look at the schematic, it's marked with a „D“).

You can now read the voltage and carefully trim those pots one after another.

CLR is usually 4k7 – 10k. The value depends on how bright you like your status LED.

Birmingham Preamp @ Electric Roots

Version 1.0

10/19/2020



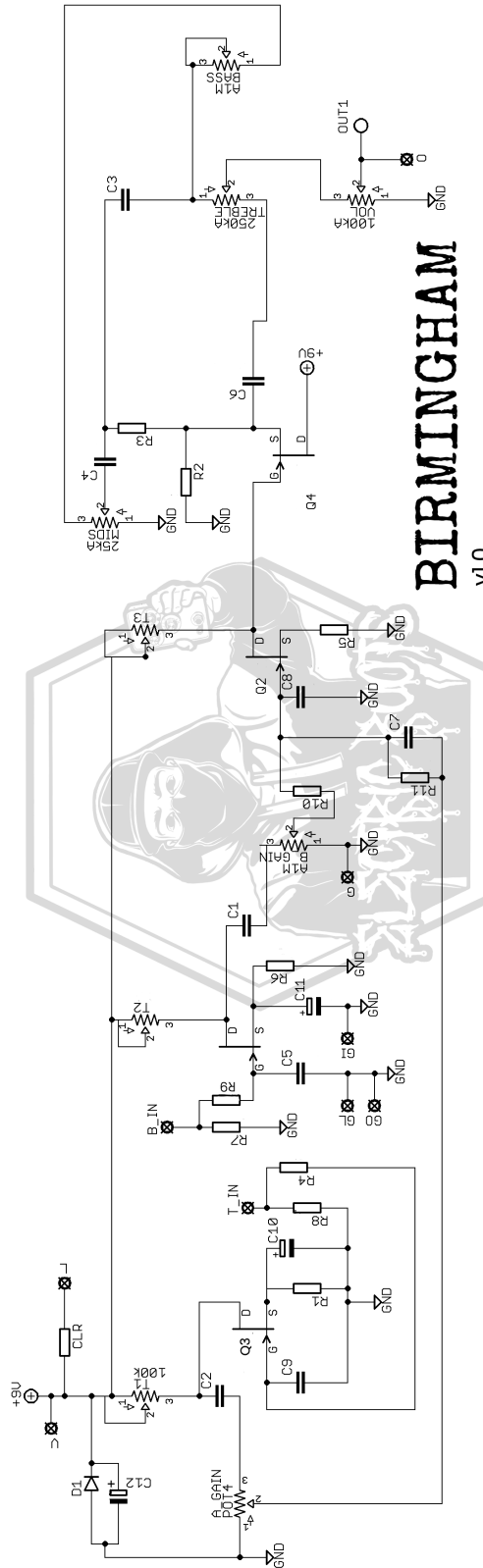
Mods

Try different transistors (SSTJ201)

You can also tweak the tone stack to your liking



Schematic



BIRMINGHAM
v1.0

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