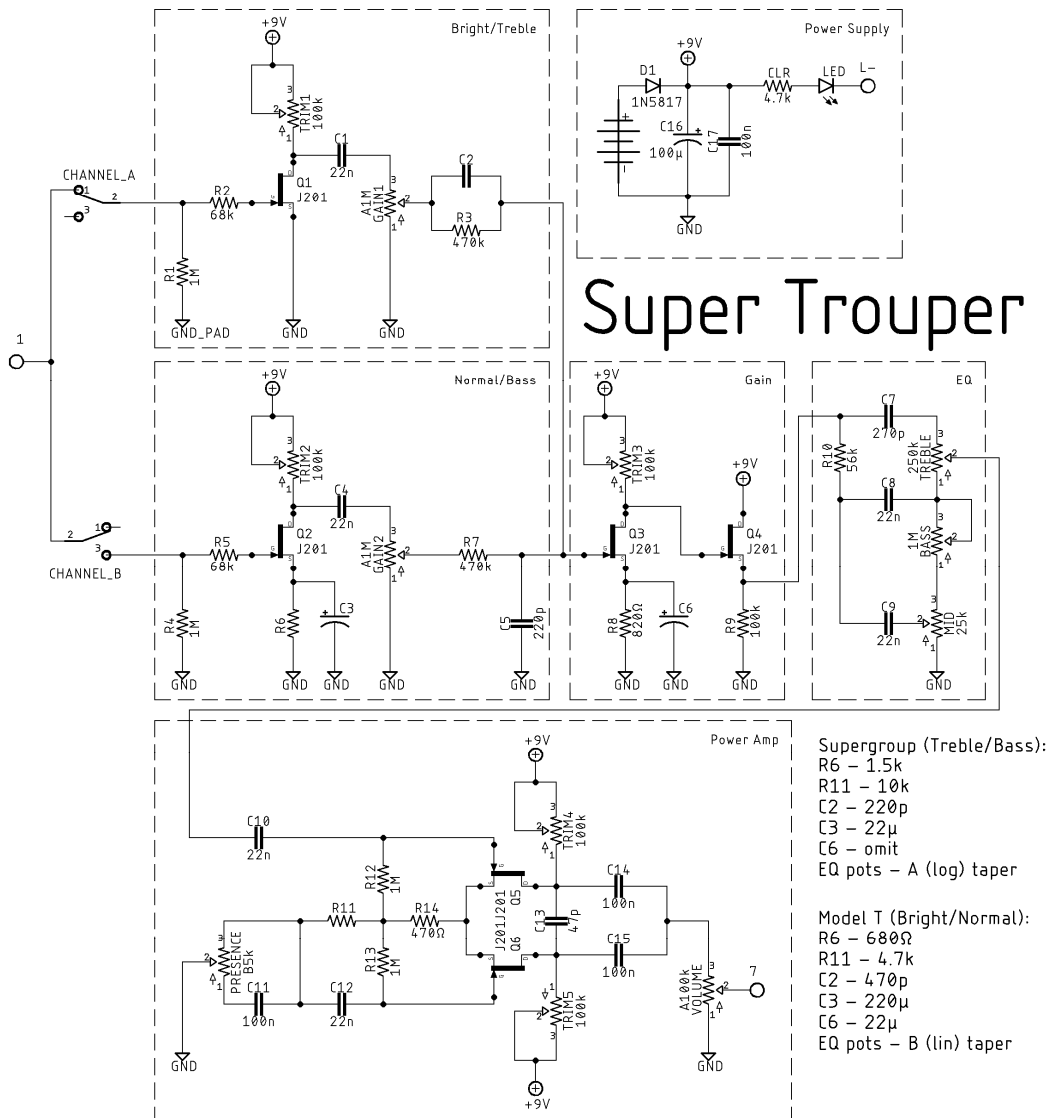


SUPER TROUPER

DESCRIPTION

The SUPER TROUPER is a JFET adaption of the Laney Super Group/Sunn Model T tube amplifiers. The design originated with the Heuller Pinson Super Group adaption on the Handmades forum, and then adapted for the Sunn Model T and a second preamp channel added. Either the Super Group or Model T emulators can be built using this board. The toggle switch selects between the two channels (or you can run both at the same time with an on/on/on switch), but the builder could also wire this as a secondary footswitch. Since through-hole J201 transistors can be pretty hit or miss these days, I've included the option to use SMD JFETs.

SCHEMATIC



BILL OF MATERIALS

Resistors

R1	1M
R2	68k
R3	470k
R4	1M
R5	68k
R6	see notes
R7	470k
R8	820Ω
R9	100k
R10	56k
R11	see notes
R12	1M
R13	1M
CLR	4.7k

Capacitors

C1	22n
C2	see notes
C3	see notes
C4	22n
C5	220p
C6	see notes
C7	270p
C8	22n
C9	22n
C10	22n
C11	100n
C12	22n
C13	47p
C14	100n
C15	100n
C16	100μ
C17	100n

Semiconductors

D1	1N5817
LED	3/5mm LED
Q1-6	J201 (MBFFJ201)

Electromechanical

Bass	1M
Channel	DPDT on/on or on/on/on

Gain 1	A1M
Gain 2	A1M
Mid	25k
Treble	250k
Trim 1-5	100k
Volume	A100k

Notes

To build the Model T:

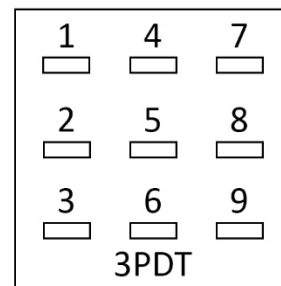
R6	680Ω
R11	4.7k
C2	470p
C3	220μ
C6	22μ
EQ pots	B (lin) taper

To build the Super Group

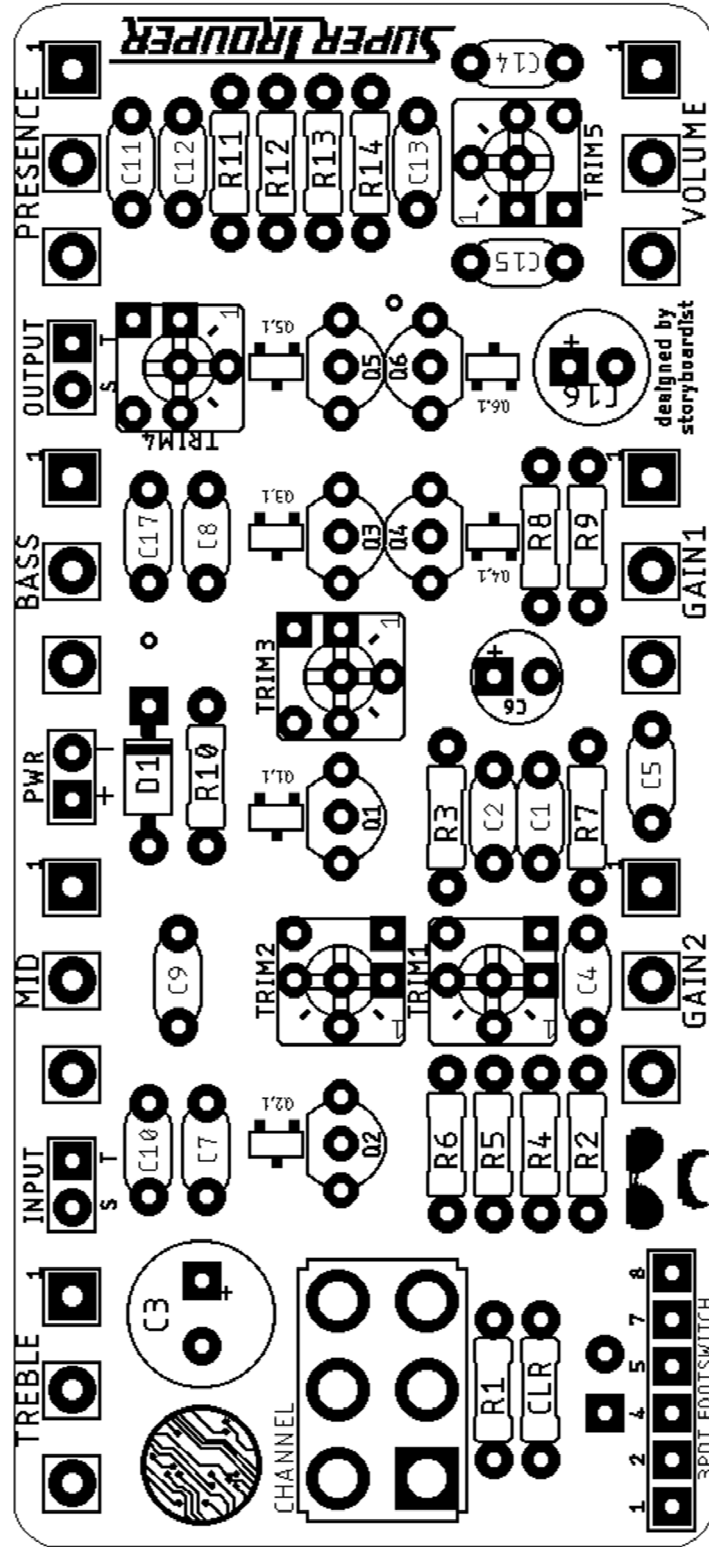
R6	1.5k
R11	10k
C2	220p
C3	22μ
C6	Omit
EQ pots	A (log/audio) taper

As with most JFET adaptations of tube circuits, the trimmers will need to be dialed in to bias the circuit. Adjust the trimmers to get around +4.5v at the drain of each JFET (except Q4), then make fine adjustments as needed.

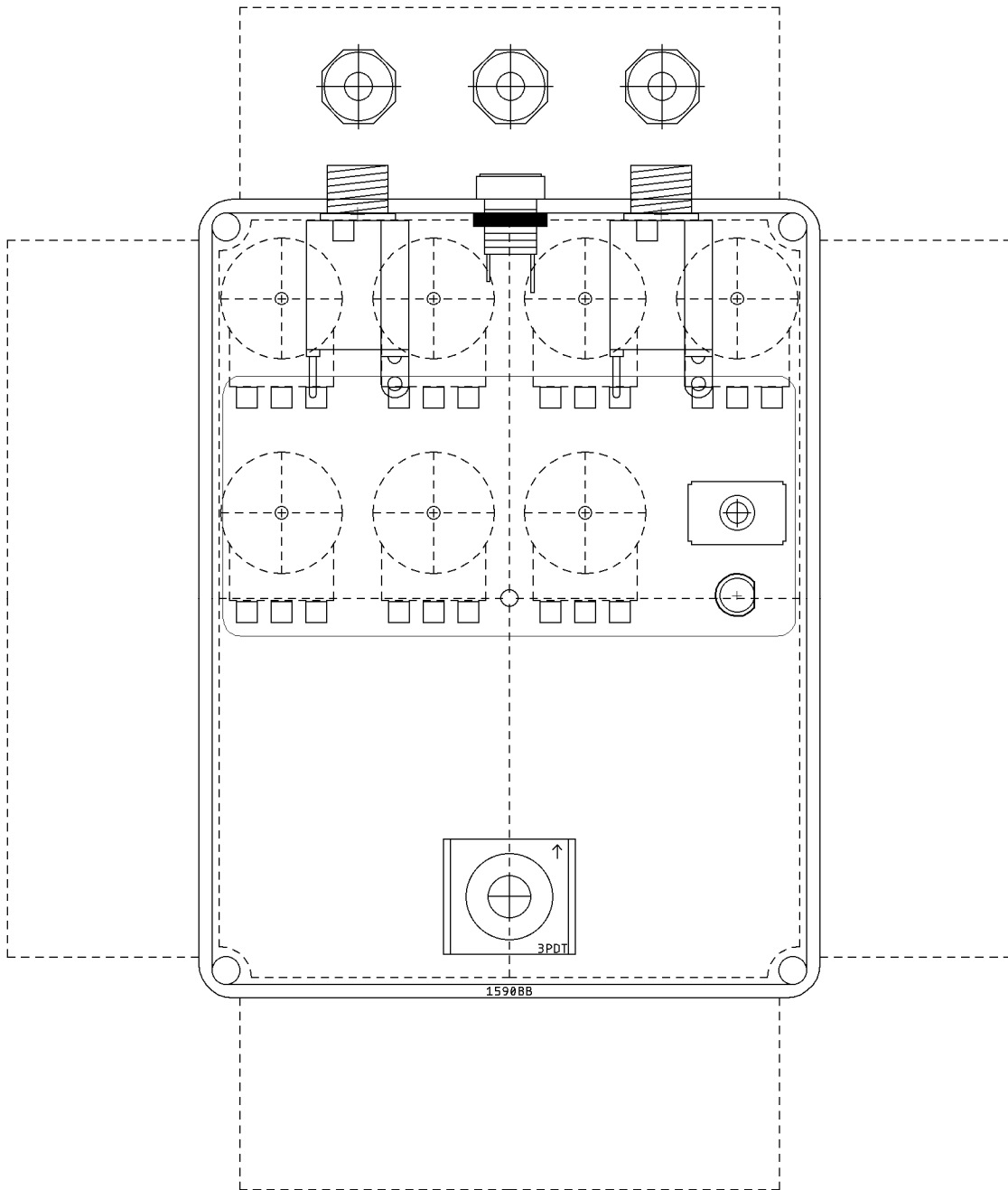
The numbered footswitch pads correlate to a 3PDT as follows:



LAYOUT



DRILL TEMPLATE (1590BB)



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For DIY and small commercial applications.
Not for non-peer to peer resale.