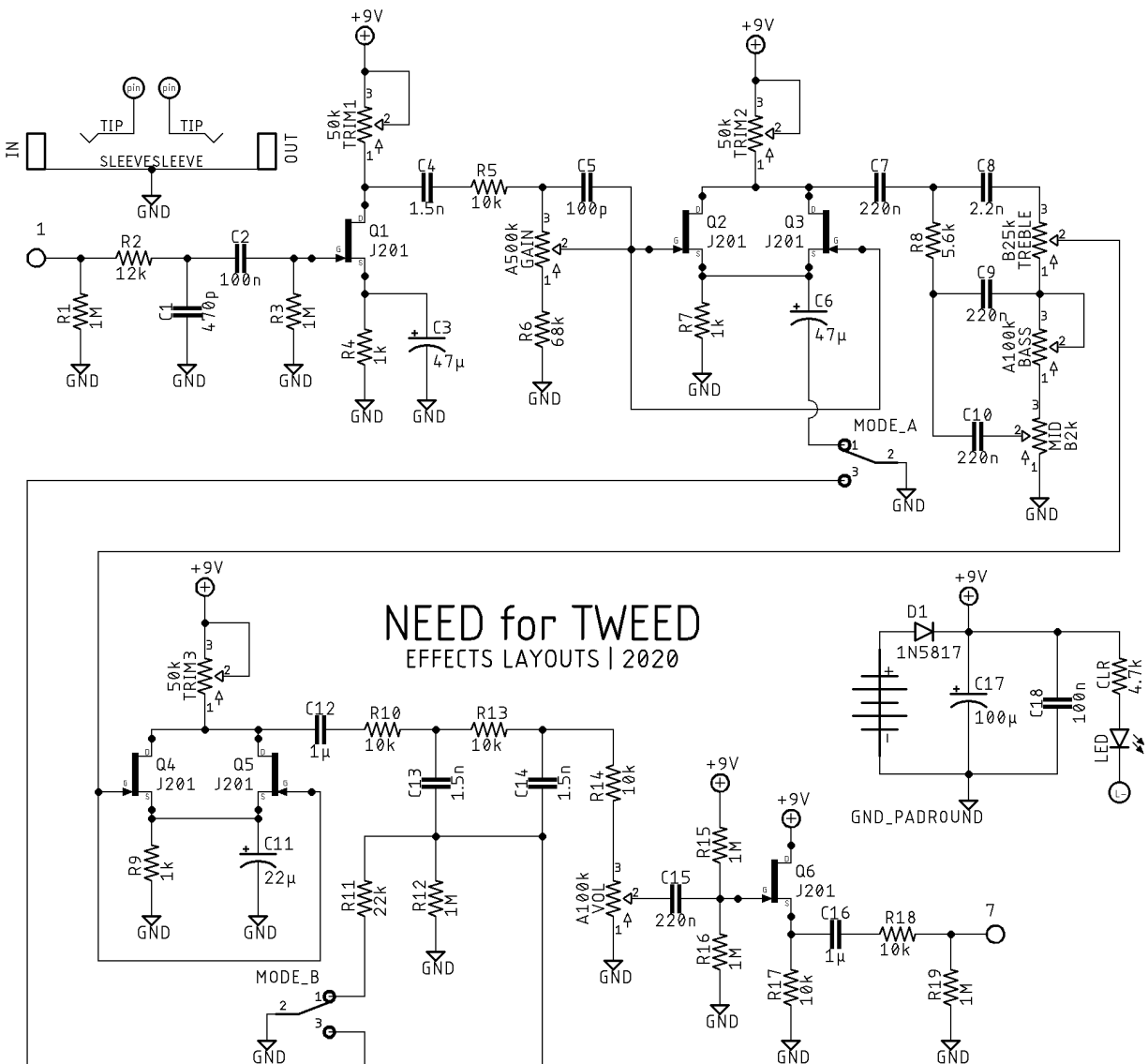


NEED FOR TWEED

DESCRIPTION

The NEED FOR TWEED is a JFET-based amp-in-a-box pedal, emulating the classic Fender amp sound of the late 50s. With a 3-position input mode switch (normal, bright, and linked), classic 3-knob Fender tone stack, and the stacked JFET tube emulation stages, the NEED FOR TWEED gives you a versatile tube amp sound that plays nice with single coils and humbuckers, and solid state or tube amps. Based on the now discontinued Wampler Tweed '57.

SCHEMATIC



BOM

Resistors

R1	1M
R2	12k
R3	1M
R4	1k
R5	10k
R6	68k
R7	1k
R8	5.6k
R9	1k
R10	10k
R11	22k
R12	1M
R13	10k
R14	10k
R15	1M
R16	1M
R17	10k
R18	10k
R19	1M
CLR	4.7k

Capacitors

C1	470p
C2	100n
C3	47 μ
C4	1.5n
C5	100p
C6	47 μ
C7	220n
C8	2.2n
C9	220n
C10	220n
C11	22 μ

C12	1 μ
C13	1.5n
C14	1.5n
C15	220n
C16	1 μ
C17	100 μ
C18	100n

Semiconductors

D1	1N5817
LED	3 or 5mm
Q1	J201 or MMBFJ201
Q2	J201 or MMBFJ201
Q3	J201 or MMBFJ201
Q4	J201 or MMBFJ201
Q5	J201 or MMBFJ201
Q6	J201 or MMBFJ201

Electromechanical

Bass	A100k
Gain	A500k
Mid	B2k
Mode	DPDT on/off/on
Treble	B25k
Trim1	50k
Trim2	50k
Trim3	50k
Vol	A100k

Notes

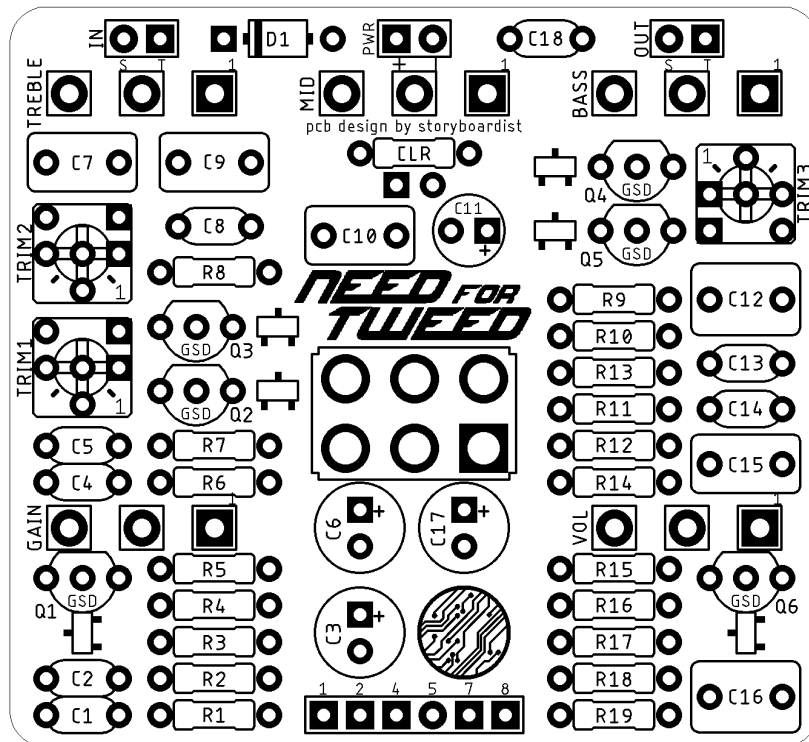
If using through-hole J201s, there is no need to populate SMD MMBFJ201s. Just use one or the other.

SHOPPING LIST

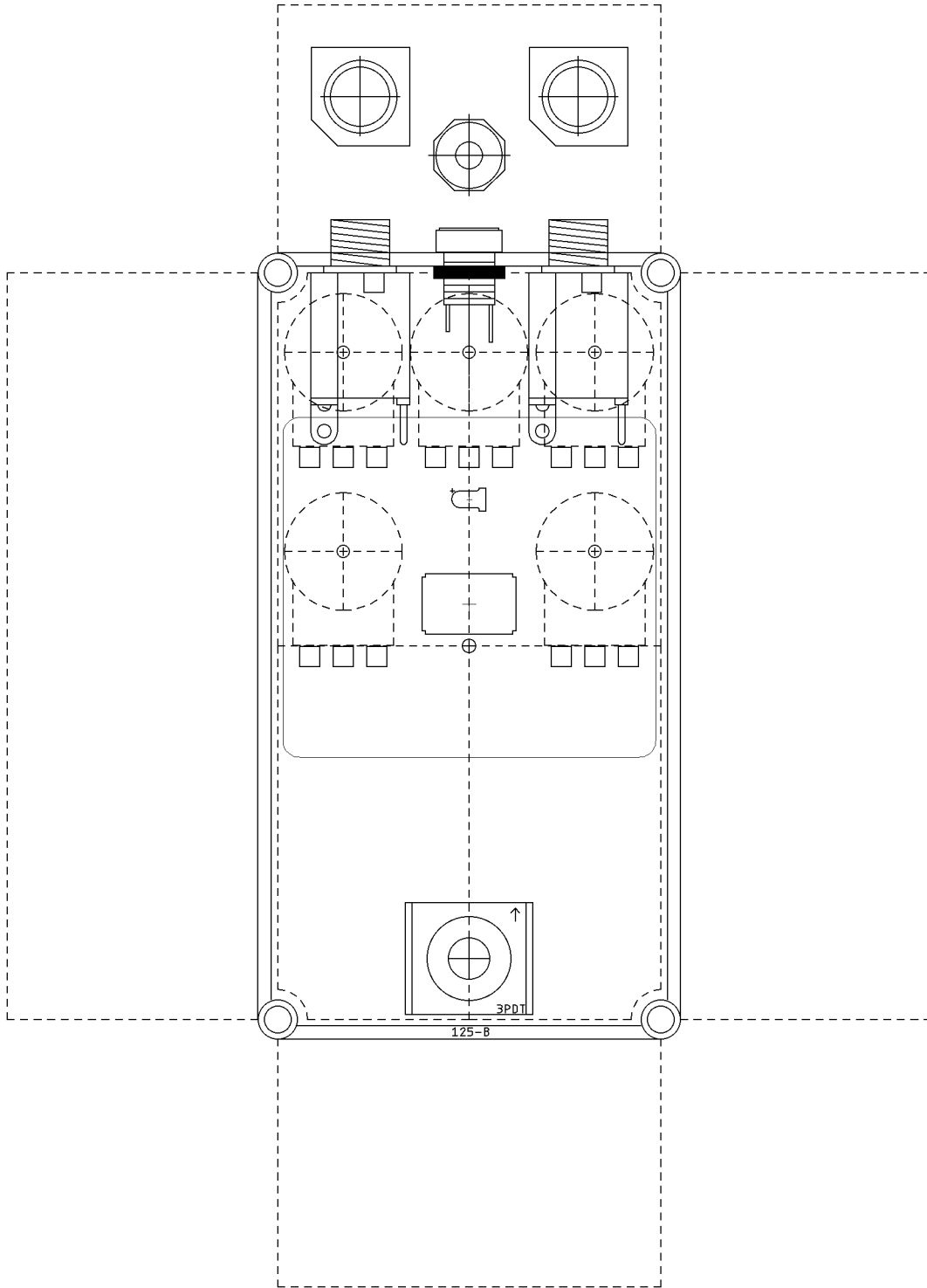
Value	Type (suggested)	Quantity
1k	¼ watt metal or carbon film	3
4.7k	¼ watt metal or carbon film	1
5.6k	¼ watt metal or carbon film	1
10k	¼ watt metal or carbon film	6
12k	¼ watt metal or carbon film	1

22k	¼ watt metal or carbon film	1
68k	¼ watt metal or carbon film	1
1M	¼ watt metal or carbon film	6
100p	Ceramic	1
470p	Ceramic	1
1.5n	Film	3
2.2n	Film	1
100n	Film	2
220n	Film	4
1µ	Film	2
22µ	Electrolytic (35v+)	1
47µ	Electrolytic (35v+)	2
100µ	Electrolytic (35v+)	1
1N5817	Schotky rectifier diode	1
LED	3 or 5mm	1
J201 or MMBFJ201	JFET (through-hole or SMD)	6
50k	Trim pot	3
A100k	16mm right angle PC mount	2
A500k	16mm right angle PC mount	1
B2k	16mm right angle PC mount	1
B25k	16mm right angle PC mount	1
DPDT on/off/on	Toggle switch	1

LAYOUT



DRILL TEMPLATE (125B)



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Not for non-peer to peer resale.