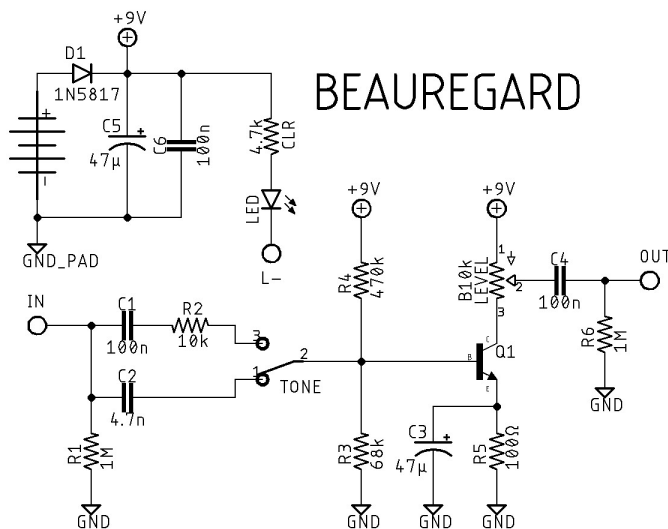


BEAUREGARD

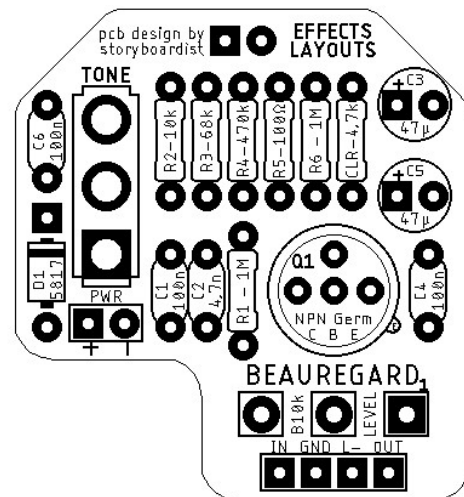
DESCRIPTION

The BEAUREGARD is based on the now discontinued EQD Bows, which is based on the classic Rangemaster treble booster. It takes the classic circuit and adds a toggle to switch between 2 input capacitors for treble or full range boost, and uses a NPN germanium transistor so it's easily daisy chained with other effects. Originals used an OC139 transistor with very low hFE, however other transistors can be used, though some adjustment to the emitter resistor may be necessary for it to bias correctly. In my personal build of this circuit, I used a Russian МП38А transistor with an hFE of about 40 and adjust R5 to 2.2k. YMMV

SCHEMATIC



LAYOUT



BOM

Resistors

R1	1M
R2	10k
R3	68k
R4	470k
R5	100Ω*
R6	1M
CLR	4.7k

Capacitors

C1	100n
C2	4.7n
C3	47μ
C4	100n
C5	47μ
C6	100n

Semiconductors

D1	1N5817
LED	3 or 5mm LED
Q1	OC139**

Electromechanical

Tone	SPDT on/on
Level	B10k

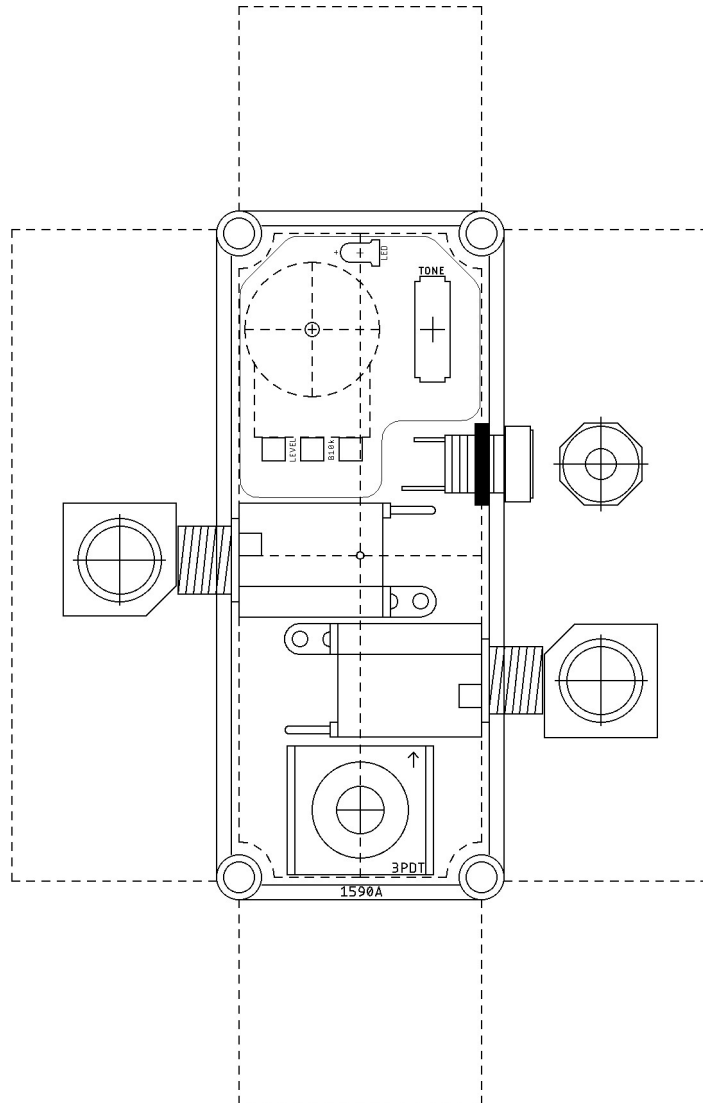
*may need to be adjusted to bias transistor correctly

**other NPN germanium transistors with low hFE can be used

SHOPPING LIST

Value	Type (suggested)	Quantity
100Ω	¼ watt metal or carbon film	1
4.7k	¼ watt metal or carbon film	1
10k	¼ watt metal or carbon film	1
68k	¼ watt metal or carbon film	1
470k	¼ watt metal or carbon film	1
1M	¼ watt metal or carbon film	2
4.7n	Film	1
100n	Film	3
47μ	Electrolytic (35v or higher)	2
1N5817	Schottky rectifier diode	1
LED	3 or 5mm	1
OC139	Germanium BJT	1
SPDT	Toggle switch	1
B10k	16mm right angle PC mount	1

DRILL TEMPLATE (1590A)



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Not for non-peer to peer resale.