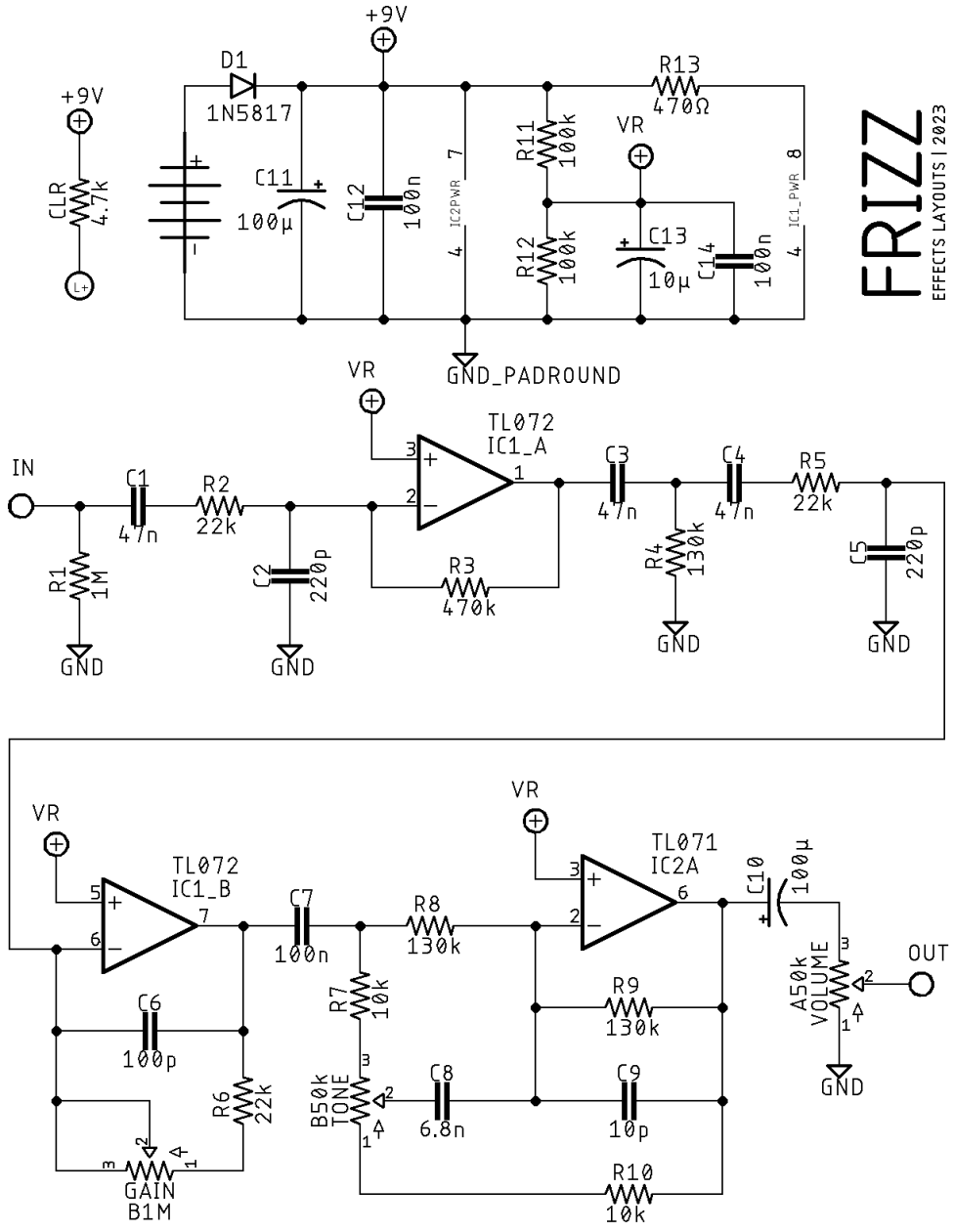
FRIZZ

DESCRIPTION

The FRIZZ is an op amp-based fuzz based on the EWS Fuzzy Drive. The cascaded gain stages allow you to dial in a variety of tones from warm overdrive to buzzy fuzz tones. See notes below following the BOM for suggested mods.

SCHEMATIC



BOM

Resistors

R1	1M
R2	22k
R3	470k
R4	130k
R5	22k
R6	22k
R7	10k
R8	130k
R9	130k
R10	10k
R11	100k
R12	100k
R13	470Ω
CLR	4.7k

Capacitors

C1	47n
C2	220p
C3	47n
C4	47n
C5	220p
C6	100p
C7	100n
C8	6.8n
C9	10p
C10	100µ
C11	100µ
C12	100n*
C13	10µ
C14	100n*

*ceramic

Semiconductors

D1	1N5817
IC1	TL072
IC2	TL071

Electromechanical

Gain	B1M
Tone	B50k
Volume	A50k

Notes

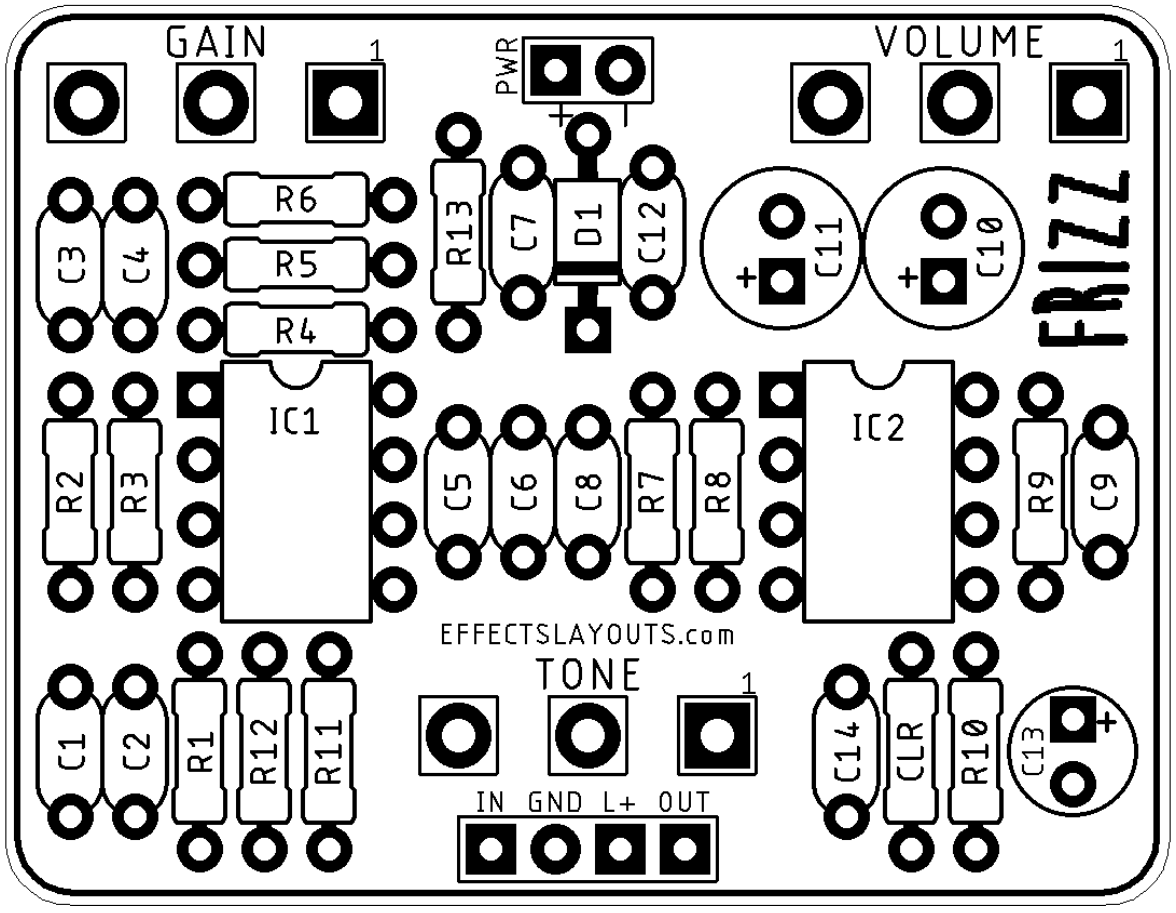
This circuit is ripe for modification, so use sockets on caps like C1, 3-4, 7-8, as well as the op amps. I'm wondering what an LM308N might sound like for IC2 (though you'd need to add a 30p cap from pins 1-8. And if you want less gain, try using a lower value gain pot and/or lower the value of R3.

SHOPPING LIST

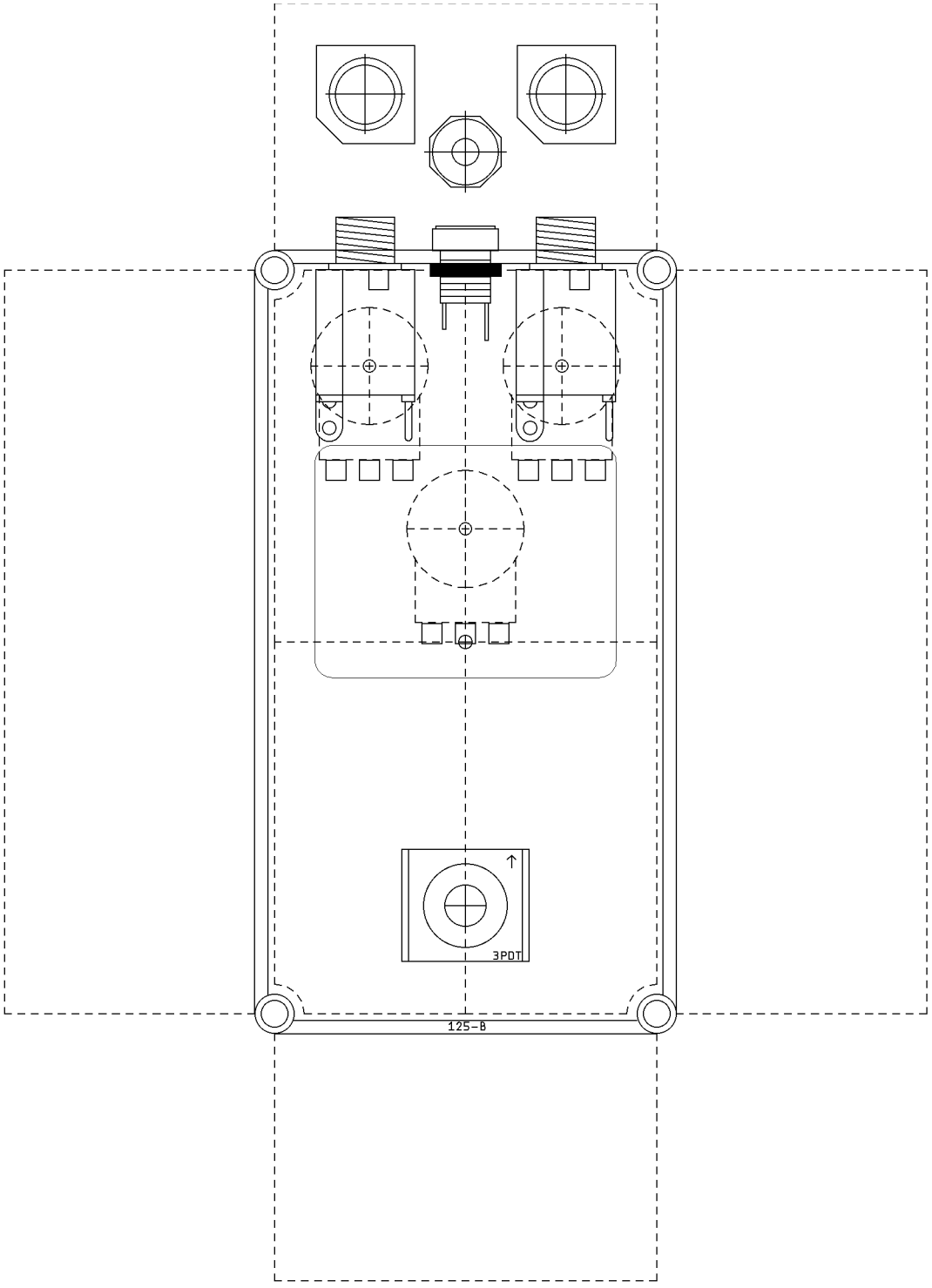
Value	**Type** (suggested)	**Quantity**
470Ω	¼ watt metal or carbon film	1
4.7k	¼ watt metal or carbon film	1
10k	¼ watt metal or carbon film	2
22k	¼ watt metal or carbon film	3
100k	¼ watt metal or carbon film	2
130k	¼ watt metal or carbon film	3
470k	¼ watt metal or carbon film	1
1M	¼ watt metal or carbon film	1
10p	Ceramic	1
100p	Ceramic	1
220p	Ceramic	2
6.8n	Film	1
47n	Film	3
100n	Film	1

100n	Ceramic	2
10µ	Electrolytic (25v+)	1
100µ	Electrolytic (25v+)	2
1N5817	Schottky rectifier diode	1
TL071	Single op-amp	1
TL072	Dual op-amp	1
A50k	16mm right angle PC mount	1
B50k	16mm right angle PC mount	1
B1M	16mm right angle PC mount	1

LAYOUT



DRILL TEMPLATE (1590B)



DRILL TEMPLATE (1590B)