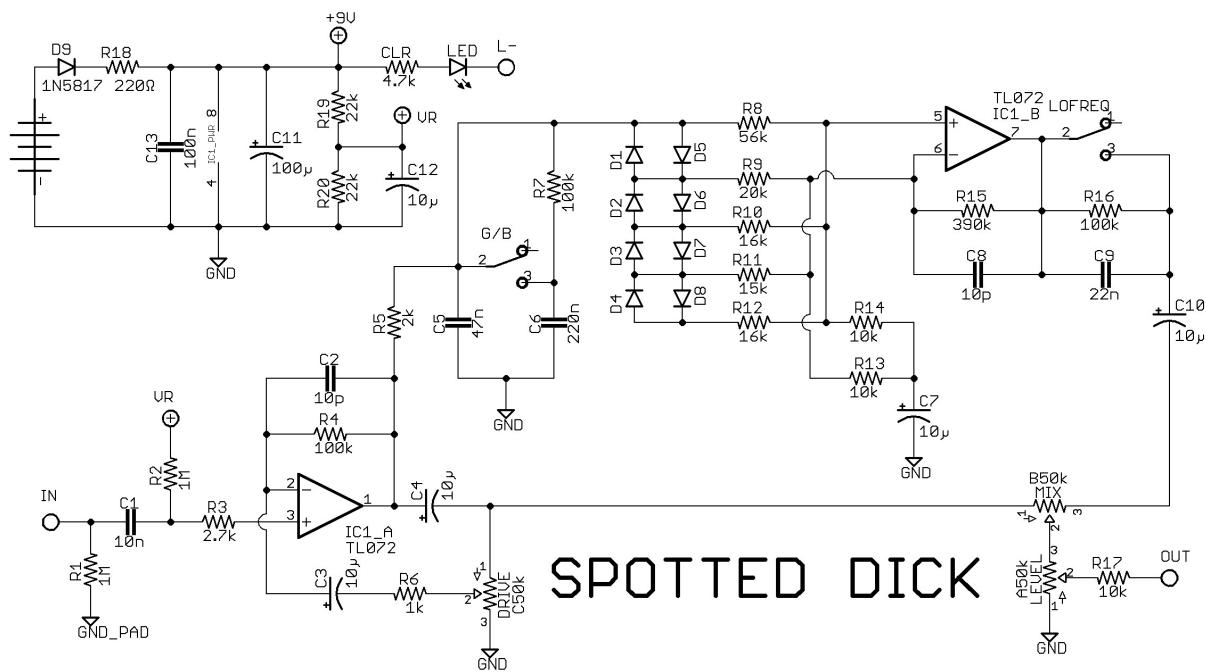


SPOTTED DICK

DESCRIPTION

Sticking with the (weird?) English dessert theme of its progenitor, the SPOTTED DICK is a harmonic generator/intermodulator distortion circuit for bass and guitar, based on the Crowther Prunes & Custard. This unique distortion circuit creates odd harmonics overtones, adding high harmonics as the gain is increased. As a result, bass notes can sound like a swept filter. It's like a meaner, more distorted and more musical ring modulator.

SCHEMATIC



BOM

Resistors

R1	1M
R2	1M
R3	2.7k
R4	100k
R5	2k
R6	1k
R7	100k
R8	56k
R9	20k
R10	16k

R11	15k
R12	16k
R13	10k
R14	10k
R15	390k
R16	100k
R17	10k
R18	220Ω
R19	22k
R20	22k
CLR	4.7k

Capacitors

C1	10n
C2	10p
C3	10μ
C4	10μ
C5	47n
C6	220n
C7	10μ
C8	10p
C9	22n
C10	10μ
C11	100μ
C12	10μ
C13	100n

Semiconductors

D1	1N4148
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D2	1N4148
D3	1N4148
D4	1N4148
D5	1N4148
D6	1N4148
D7	1N4148
D8	1N4148
D9	1N5817
IC1	TL072
LED	3-5mm LED

Electromechanical

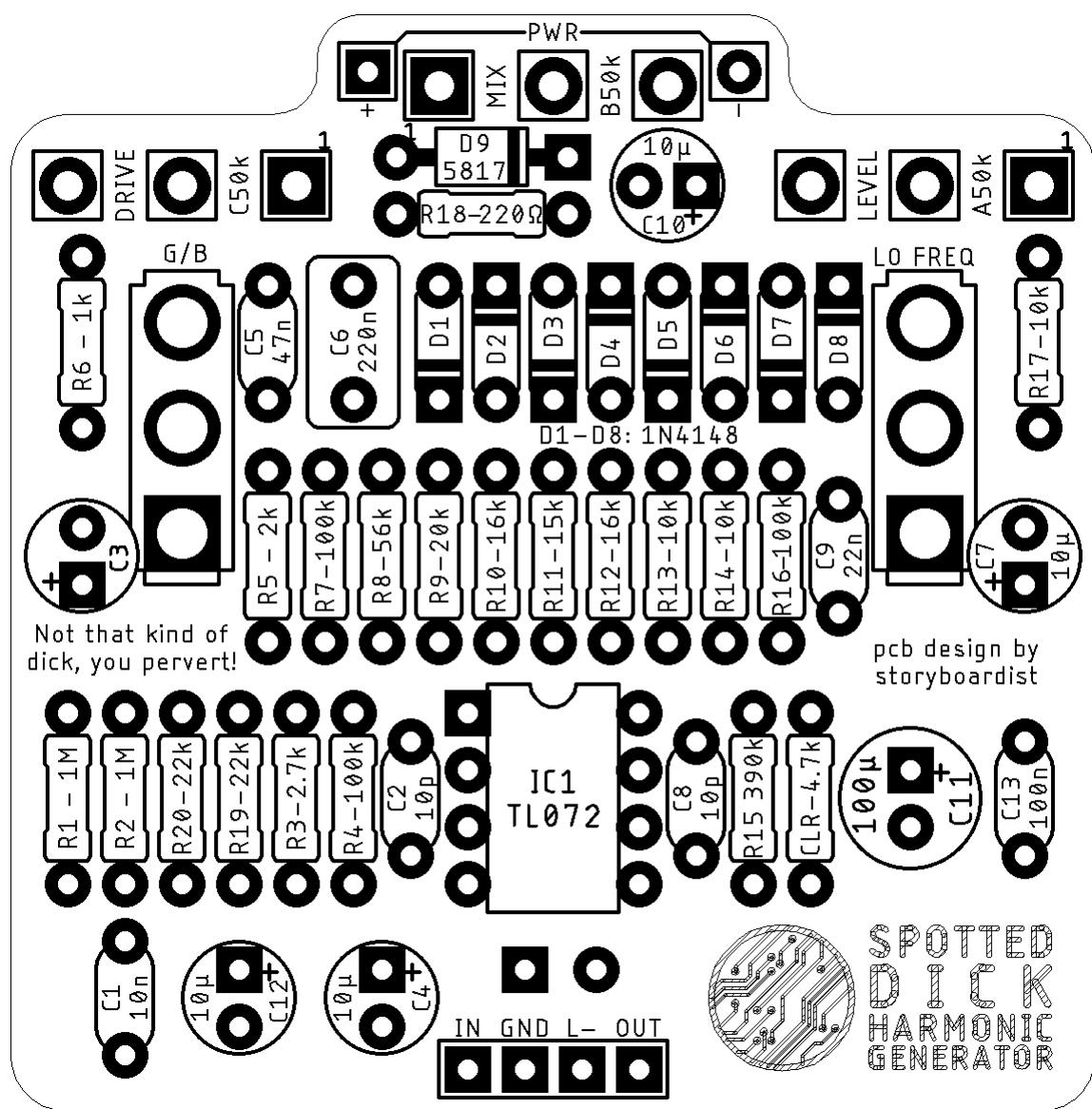
Drive	C50k
G/B	SPDT on/on
Level	A50k
LoFreq	SPDT on/on
Mix	B50k

SHOPPING LIST

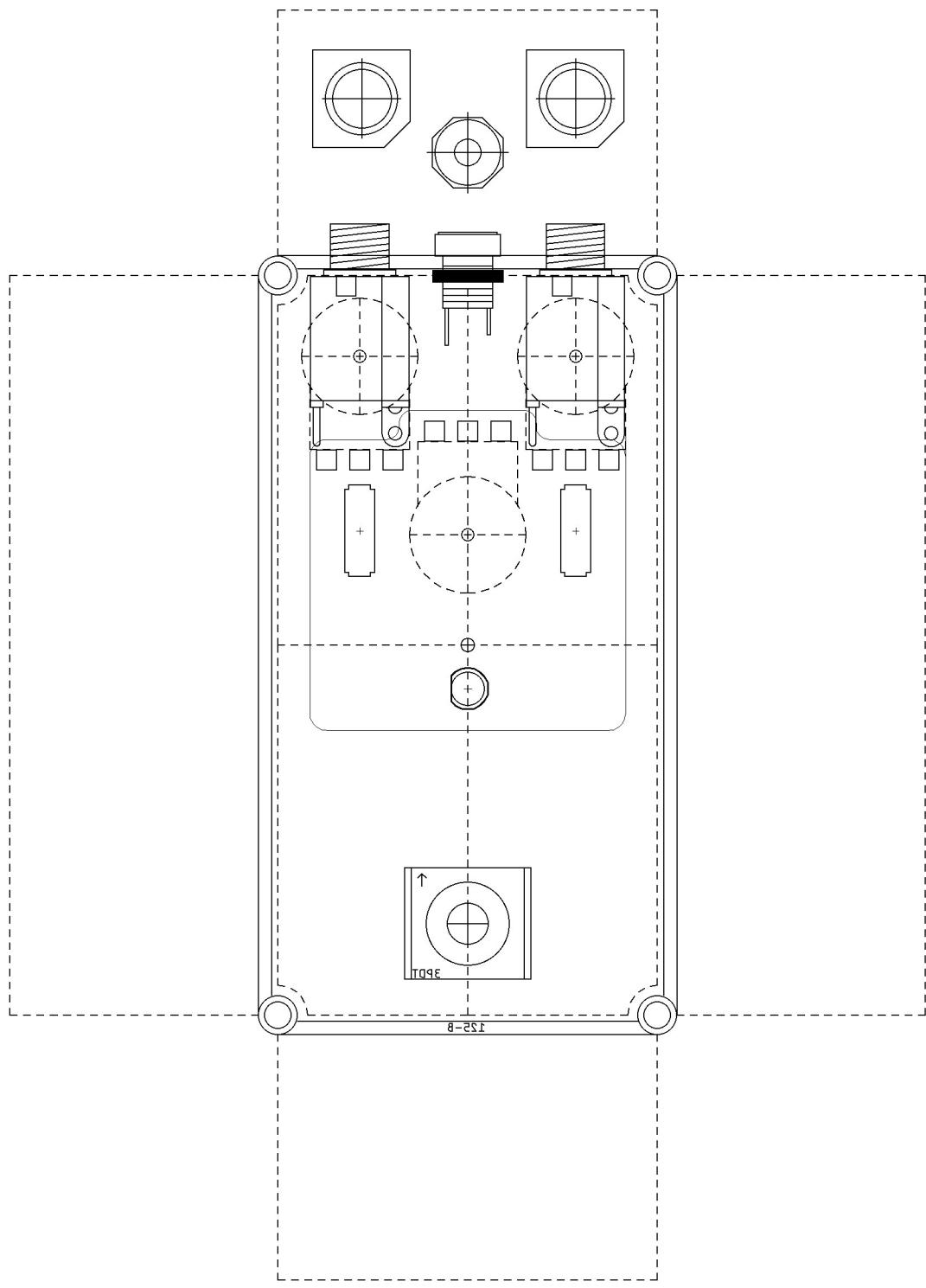
Value	Type (suggested)	Quantity
220Ω	¼ watt metal or carbon film	1
1k	¼ watt metal or carbon film	1
2k	¼ watt metal or carbon film	1
2.7k	¼ watt metal or carbon film	1
4.7k	¼ watt metal or carbon film	1
10k	¼ watt metal or carbon film	3
15k	¼ watt metal or carbon film	1
16k	¼ watt metal or carbon film	2
20k	¼ watt metal or carbon film	1
22k	¼ watt metal or carbon film	2
56k	¼ watt metal or carbon film	1
100k	¼ watt metal or carbon film	3
390k	¼ watt metal or carbon film	1
1M	¼ watt metal or carbon film	2
10p	Ceramic	2
10n	Film	1
22n	Film	1
47n	Film	1
100n	Ceramic or film	1
220n	Film	1
10μ	Electrolytic (35v+)	5
100μ	Electrolytic (35v+)	1
1N4148	Signal diode	8

1N5817	Schottky rectifier diode	1
LED	3-5mm	1
TL072	Dual opamp	1
A50k	16mm right angle PC mount	1
B50k	16mm right angle PC mount	1
C50k	16mm right angle PC mount	1
SPDT	On/on toggle	2

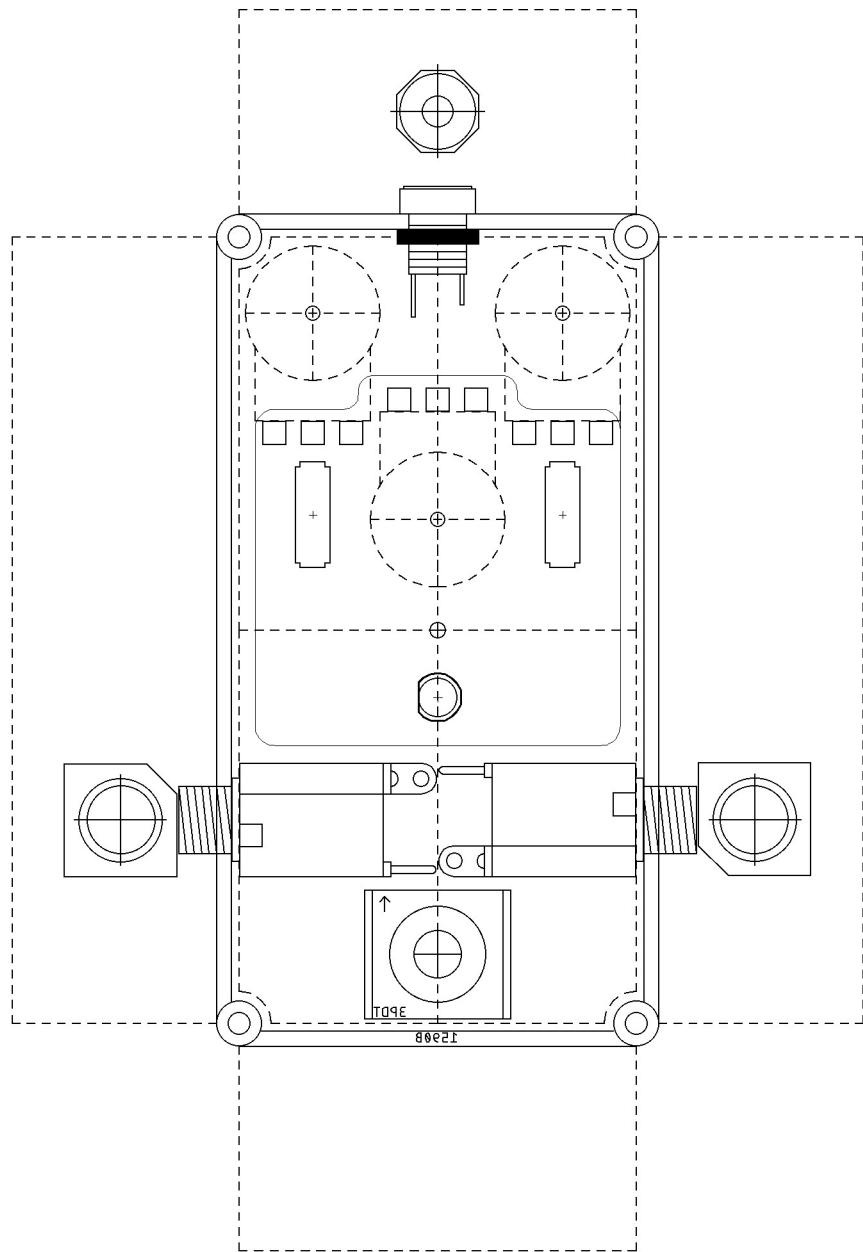
LAYOUT



DRILL TEMPLATE (125B)



DRILL TEMPLATE (1590B)



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