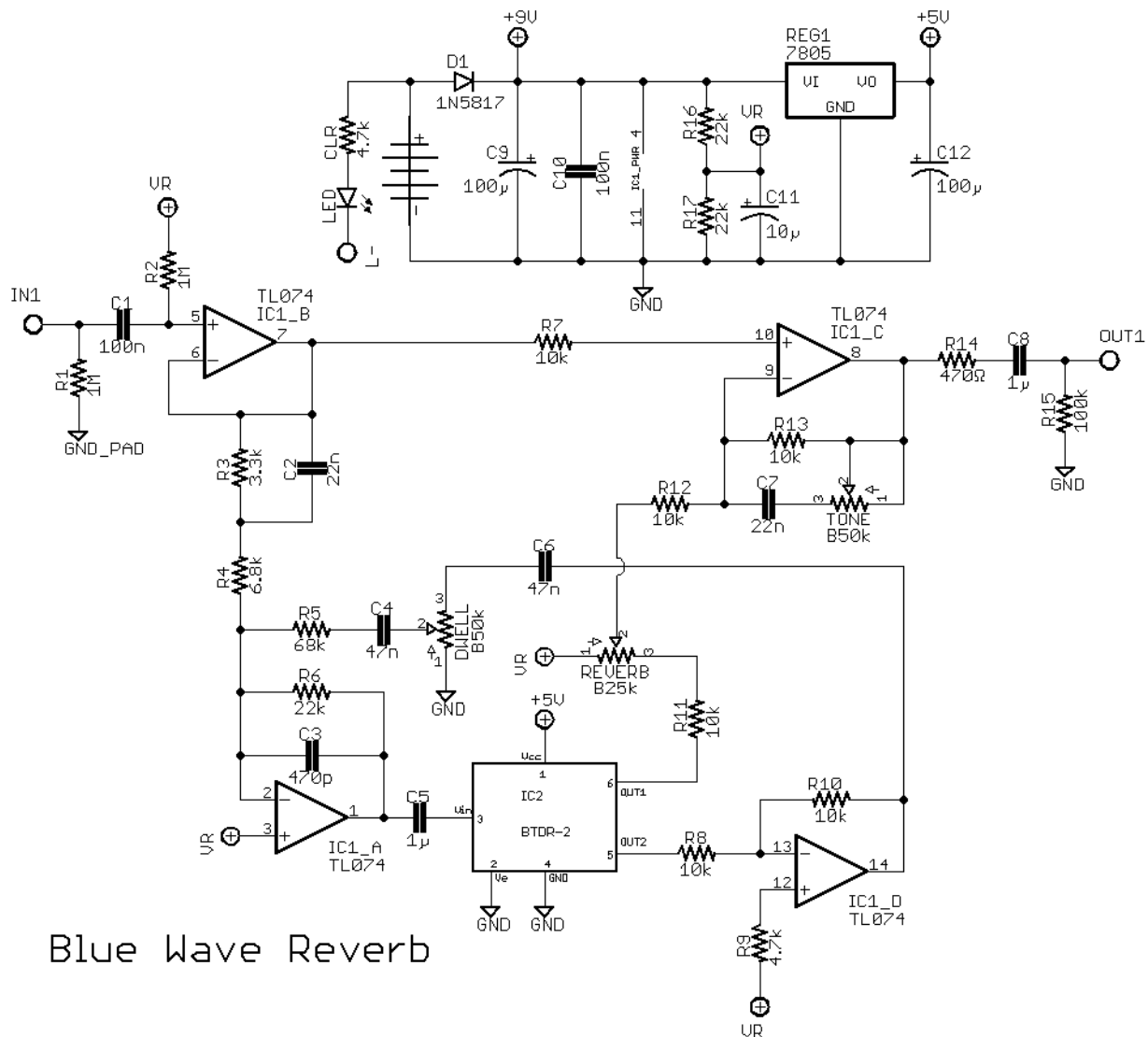


# BLUE WAVE REVERB

## DESCRIPTION

The BLUE WAVE REVERB is a compact reverb design, utilizing a BTDR-2H digital reverb module. It borrows from previous reverb designs utilizing this module, but isn't a clone of anything and to my ears sounds unique. The Tone control is rather subtle but helps tame some of the highs. It's designed to fit in either a 125B or the smaller 1590B with the BTDR-2H mounted on the underside of the PCB.

## SCHEMATIC



Blue Wave Reverb

## BILL OF MATERIALS

### Resistors

R1	1M
R2	1M
R3	3.3k
R4	6.8k
R5	68k
R6	22k
R7	10k
R8	10k
R9	4.7k
R10	10k
R11	10k
R12	10k
R13	10k
R14	470Ω
R15	100k
R16	22k
R17	22k
CLR	4.7k

### Capacitors

C1	100n
C2	22n

C3	470p
C4	47n
C5	1μ
C6	47n
C7	22n
C8	1μ
C9	100μ
C10	100n
C11	10μ
C12	100μ

### Semiconductors

D1	1N5817
IC1	TL074 or similar
IC2	BTDR-2H
LED	3/5mm LED
REG1	78L05

### Electromechanical

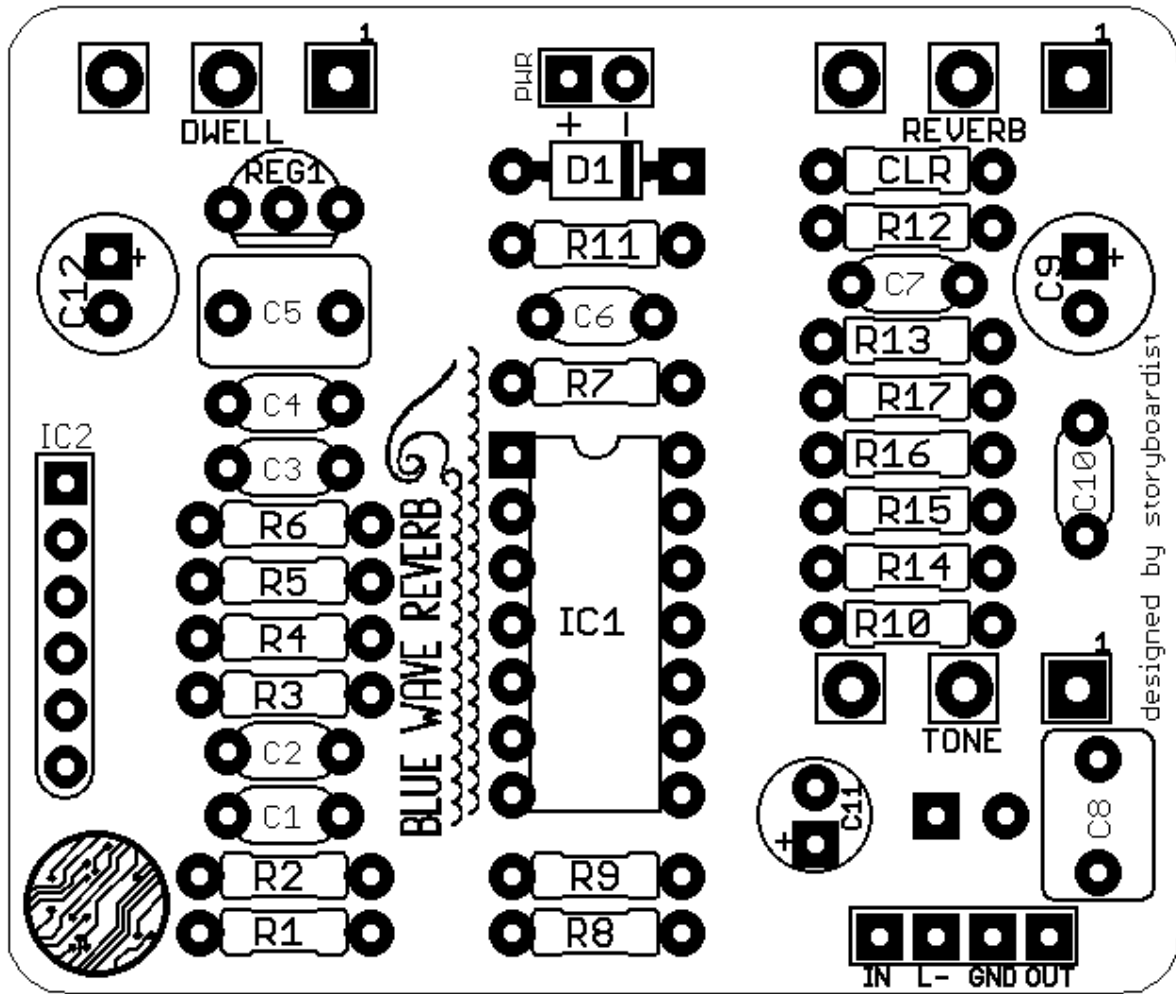
Dwell	B50k
Reverb	B25k
Tone	B50k

## SHOPPING LIST

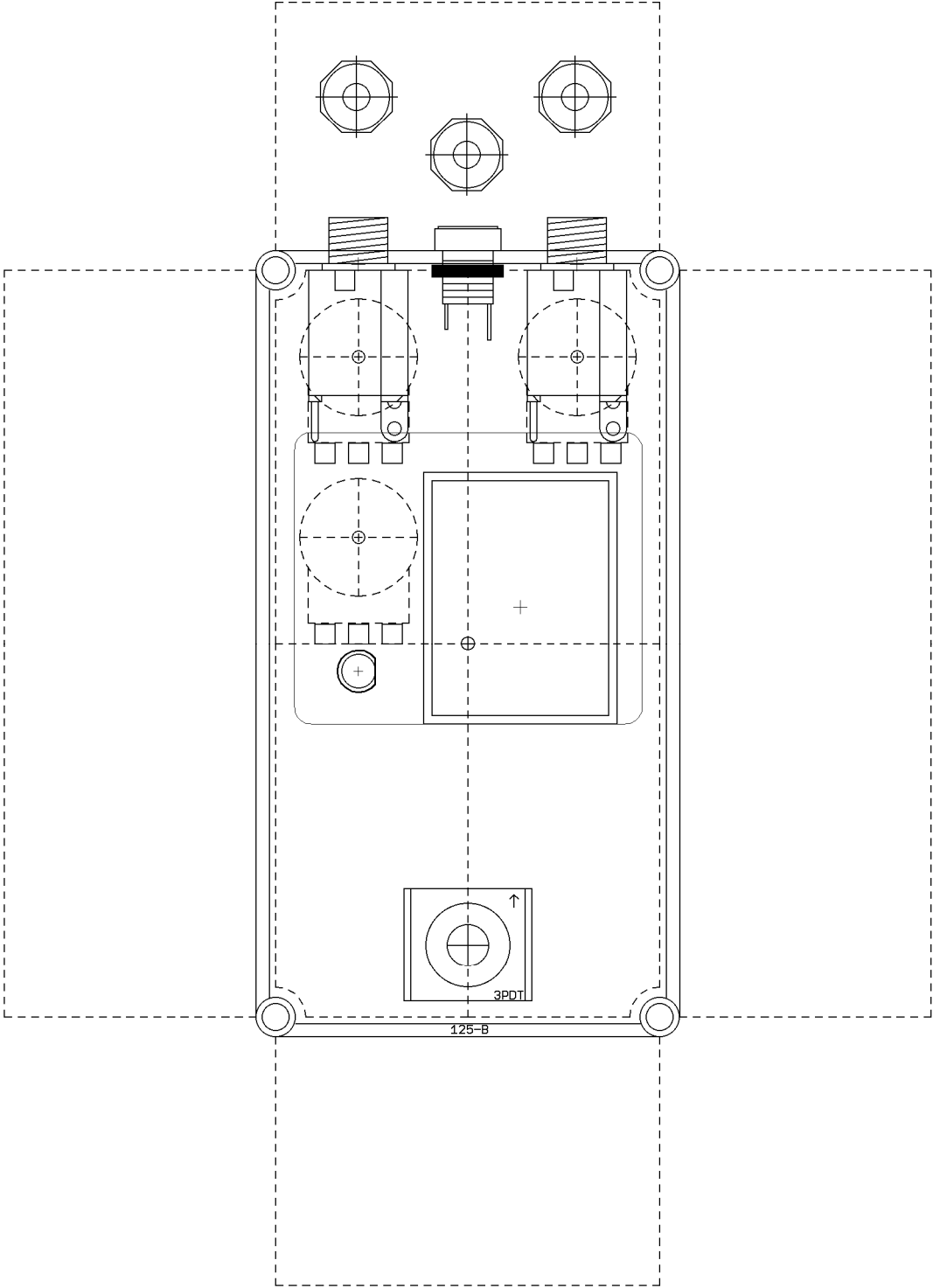
Value	Type (suggested)	Quantity
470Ω	¼ watt metal or carbon film	1
3.3k	¼ watt metal or carbon film	1
4.7k	¼ watt metal or carbon film	2
6.8k	¼ watt metal or carbon film	1
10k	¼ watt metal or carbon film	6
22k	¼ watt metal or carbon film	3
68k	¼ watt metal or carbon film	1
100k	¼ watt metal or carbon film	1
1M	¼ watt metal or carbon film	2
470p	Ceramic (63v or higher)	1
22n	Film (63v or higher)	2
47n	Film (63v or higher)	2
100n	Film (63v or higher)	2
1μ	Film (63v or higher)	2
10μ	Electrolytic (35v or higher)	1
100μ	Electrolytic (35v or higher)	2

1N5817		1
78L05	5v regulator	1
TL074	Quad opamp	1
BTDR-2H	Digital reverb module	1
B25k	16mm right angle PC mount	1
B50k	16mm right angle PC mount	2
3PDT	Footswitch	1

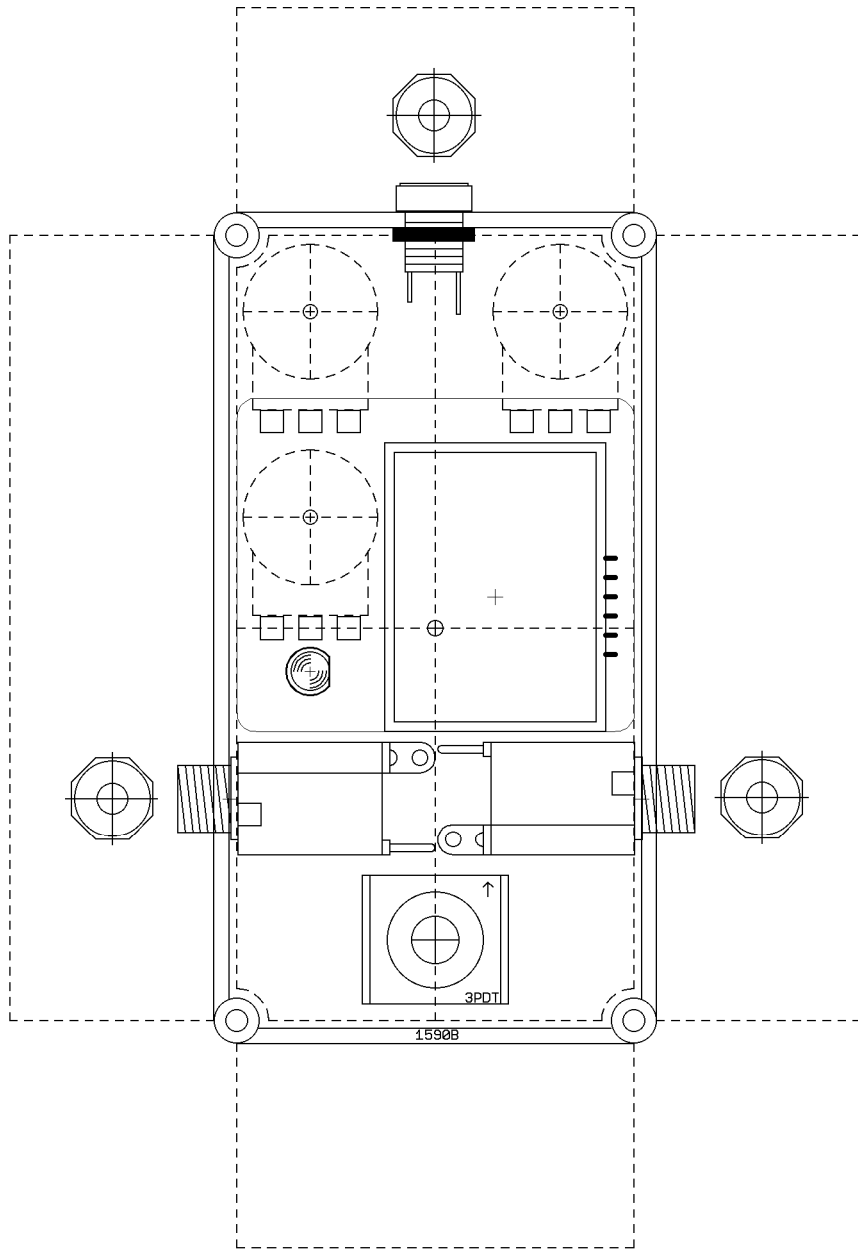
## LAYOUT



**DRILL TEMPLATE (125B)**



**DRILL TEMPLATE (1590B)**



EFFECTS LAYOUTS © 2018  
For DIY and small commercial applications.  
Not for non-peer to peer resale.