



Beetle Verb

Build Document



Introduction

The first reverb I built was a newer variation of this, using the BTDR-3. I loved it, but also wanted to test out the more available BTDR-2.

Bill of Materials

Resistors

P/N	Value
R1	1M
R2	1M
R3	10k
R4	22k
R5	10k
R6	10k
R7	10k
R8	10k
R9	33k
R10	33k
R11	22k
R12	10k
R13	10k

Diodes

I obtained all of my diodes from Tayda. That's what the layout was setup for.

P/N	Value	Notes
D1	1N400x	Polarity protection.

Capacitors

I obtained all of my caps from Tayda. That's what the layout was setup for.

P/N	Value	Type	Notes
C1	100n	Film Box	
C2	22n	Film Box	
C3	470p	Ceramic	
C4	47n	Film Box	
C5	4n7	Film Box	
C6	1u	Film Box/MLCC	
C7	100n	Film Box	
C8	100n	Film Box	
C9	100u	Aluminum Electrolytic	
C10	100u	Aluminum Electrolytic	
C11	100u	Aluminum Electrolytic	



Integrated Circuits

P/N	Value	Notes
IC1	TL074	
IC2	BTDR-2H	I prefer the medium decay.

Transistors

I obtained all of my transistors from Tayda. That's what the layout was setup for.

P/N	Value	Notes
VREG	78L05	

Potentiometers

I obtained all of my potentiometers from Tayda. That's what the layout was setup for.

NOTE: The spacing of the brick vs. the 9mm pots is SUPER close, but not quite right. If you use board-mounted 9mm, check the spacing; you may need to raise it off the board just a bit.

P/N	Value	Notes
FEEDBACK	B250k	
TONE	B10k	
VERB	B25k	

Other Parts

Qty	Value	Notes
1	14-pin socket	

Build Notes

NOTE: The spacing of the brick vs. the 9mm pots is SUPER close, but not quite right. If you use board-mounted 9mm, check the spacing; you may need to raise it off the board just a bit.



Schematic

