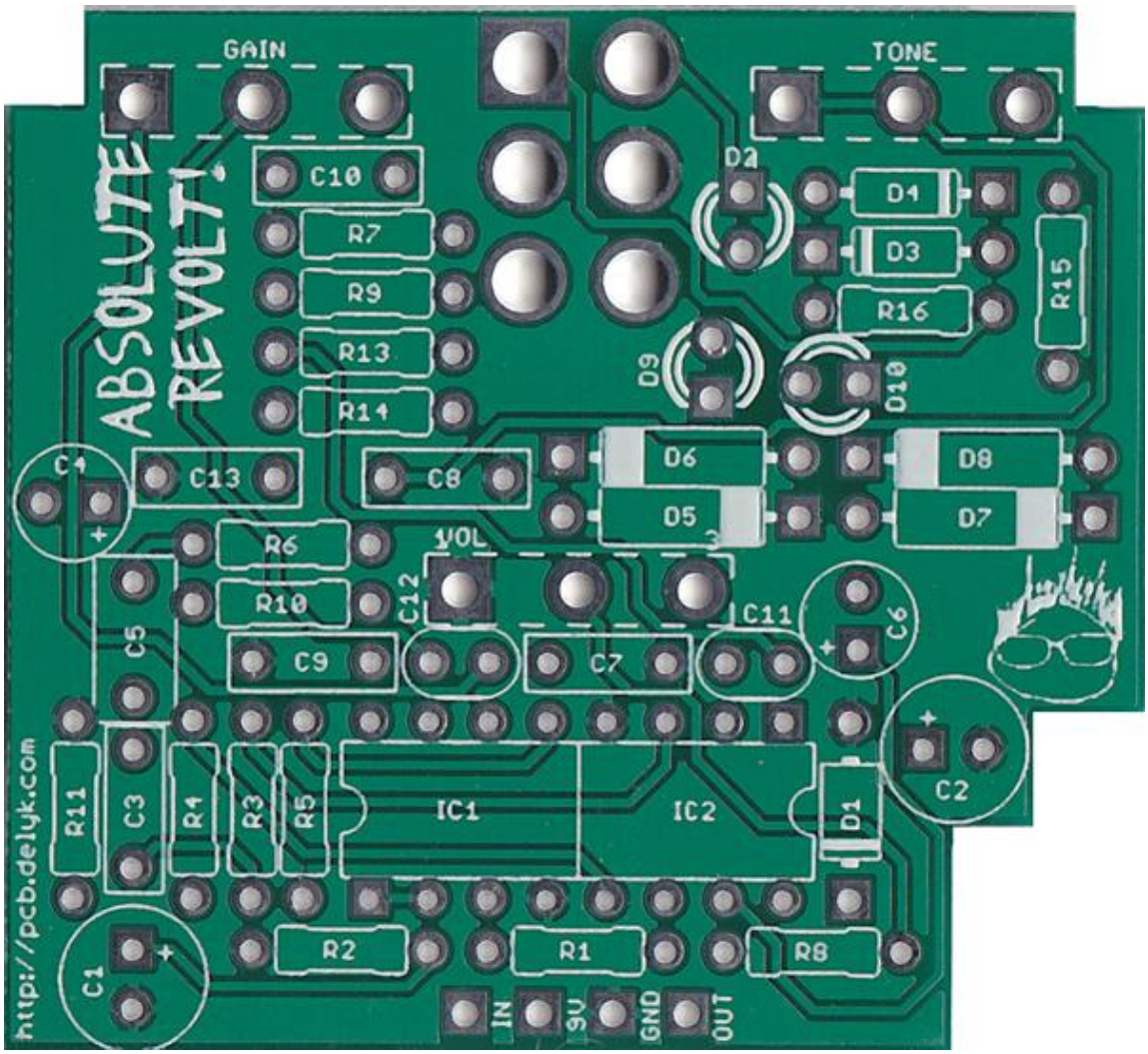


Absolute Revolt!

Build Document

Bill of Materials

Capacitors

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

P/N	Value	Type	Notes
C1	47uF	Aluminum Electrolytic	
C2	47uF	Aluminum Electrolytic	
C3	22nF	Film Box	
C4	2.2uF	Aluminum Electrolytic	
C5	1uF	Film Box	Silkscreen is a hair small, but a 1uF film box will fit.
C6	10uF	Aluminum Electrolytic	
C7	33pF	Ceramic	Bad silkscreen. It looks like it should be a film box, but it's really a ceramic (or MLCC).
C8	22nF	Film Box	
C9	22nF	Film Box	
C10	100nF	Film Box	
C11	100pF	Ceramic	
C12	100pF	Ceramic	
C13	220nF	Film Box	

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.
D2	3mm Blue LED	
D3	1N4148	Or 1N914. Original called for a 51Y, but I can't find those.
D4	1N4148	Or 1N914. Original called for a 51Y, but I can't find those.
D5	1N34A	
D6	1N34A	
D7	1N34A	
D8	1N34A	
D9	3mm Red LED	
D10	3mm Red LED	

Integrated Circuits

Personally, I had a few free RC4580s directly from Texas Instruments. I'm having a hard time sourcing the RC4580, but you can find it at Mouser.

P/N	Value	Notes
IC1	RC4580	Link at Mouser
IC2	RC4580	Link at Mouser

Resistors

P/N	Value	Notes
R1	20k	
R2	20k	
R3	470k	
R4	100k	
R5	1k	
R6	11k3	I used 11k.
R7	470R	
R8	100R	
R9	10k	
R10	8k25	I used 8k2.
R11	2M	
R13	1M	
R14	1k	
R15	470R	
R16	220R	

Potentiometers

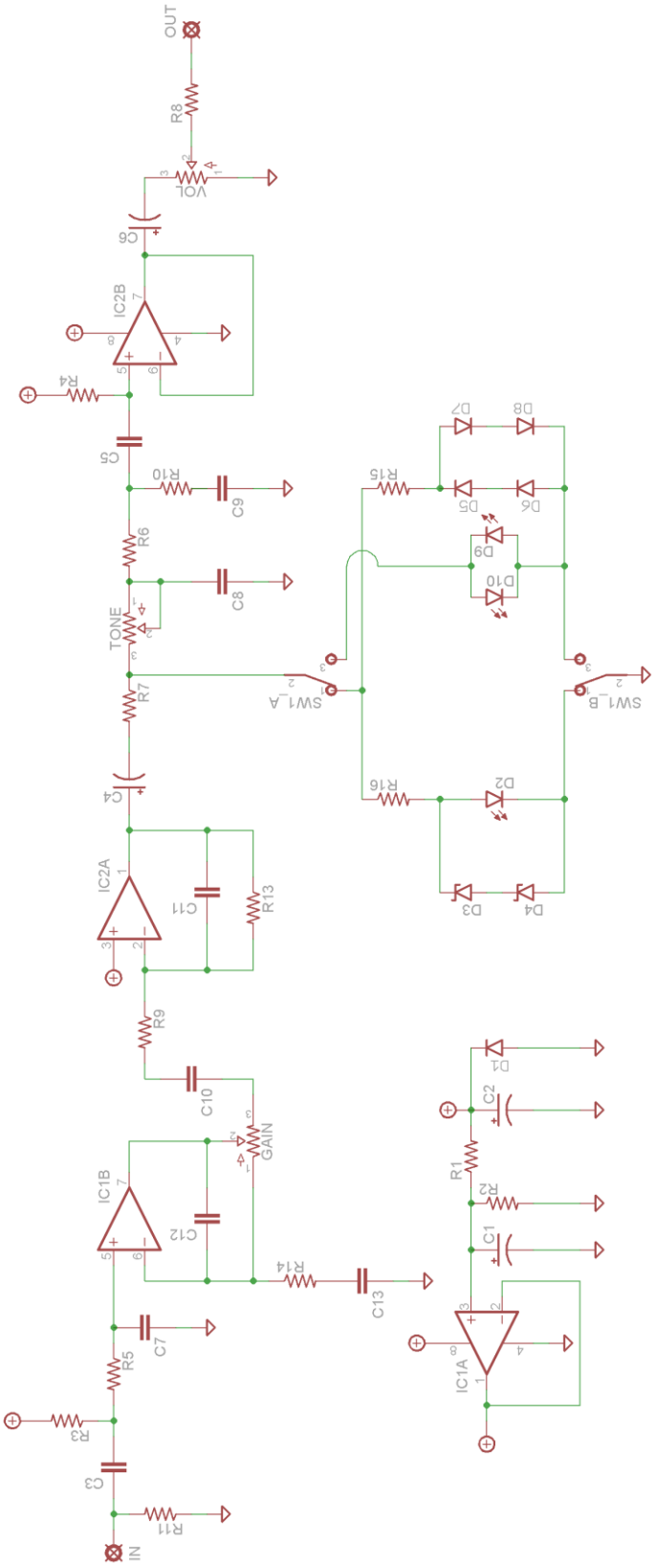
I designed the board for onboard pots. However, I can't find a C10k at Tayda with angled pins.

P/N	Value	Notes
GAIN	B100k	I used this one.
TONE	C10k	I used this one. Then, I just taped (affixed) the pot to the PCB, and made short jumpers from the pot pin thru the hole in the PCB.
VOL	A10k	I used this one.

Other Parts

Qty	Value	Notes
1	DPDT ON-ON-ON	This is the switch for your "voicing options." It's a bugger to find. However, BLMS has it here. UPDATE: It now appears that Tayda carries this.
2	8-pin socket	

Schematic


OUT
R8
VOL
C6
IC2B
R4
C5
R10
C9
R6
C8
TONE
R7
C4
IC2A
C11
R13
R9
C10
GAIN
IC1B
C12
R14
C13
C7
R5
R3
C3
R11
IN
R15
D7
D8
D5
D6
D9
D10
SW1_A
SW1_B
R16
D2
D3
D4
D1
C2
R1
R2
C1
IC1A