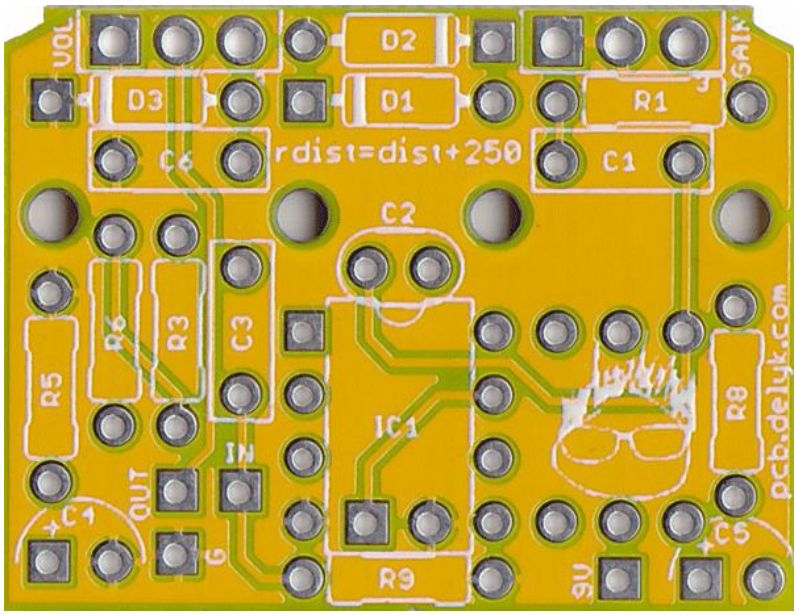


$$r_{dist} = dist + 250$$

Build Document

Bill of Materials

Capacitors

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

P/N	DOD250	Dist+	Type	Notes
C1	47nF	47nF	Film Box	
C2	120pF	25pF	Ceramic	Not in original, but is used to help prevent feedback.
C3	10nF	10nF	Film Box	
C4	10uF	10uF	Aluminum Electrolytic	I used a 25V and it fit perfectly. So, between 16V and 50V.
C5	4.7uF	4.7uF	Aluminum Electrolytic	I used a 50V and it fit perfectly. So, between 16V and 50V.
C6	1nF	1uF (MLCC)	Film Box	Since the DOD250 called for a 1nF here, the size on the board does not allow a 1uF (Dist+) film box to be used. However, a 1uF MLCC fits perfectly.
C7	100uF	100uF	Aluminum Electrolytic	I used a 16V and it fit perfectly.

Diodes

So, the diodes part is the fun part. If you look online at various schematics, you'll see differences in this section. Here are some key points:

- The original used 1N270.
- Try 1N34 for fuzzy sounds.
- Try 1N4148 for more buzz.
- Try LEDs for more crunch.
- Add a diode in D1 for something a little different.

All of that to say, if you want, socket the three diodes and try different stuff.

P/N	DOD250	Dist+
D1	1N914	Jumper
D2	1N914	1N270
D3	1N914	1N270

Potentiometers

Some schematics give different values for this. I've seen GAIN as C500k and VOL as A100k in many schematics. But the one that I think is closer to the original is listed below. Try each and see which you prefer.

Also, you may want to consider price. I had a hard time finding affordable C500k's, but B1M's were easy.

The board is designed for 9mm onboard pots. However, you can use 16mm and offboard wire.

P/N	**DOD250**	**Dist+**
GAIN	C500k	B1M
VOL	A100k	A10k

Integrated Circuits

IC1	LM741

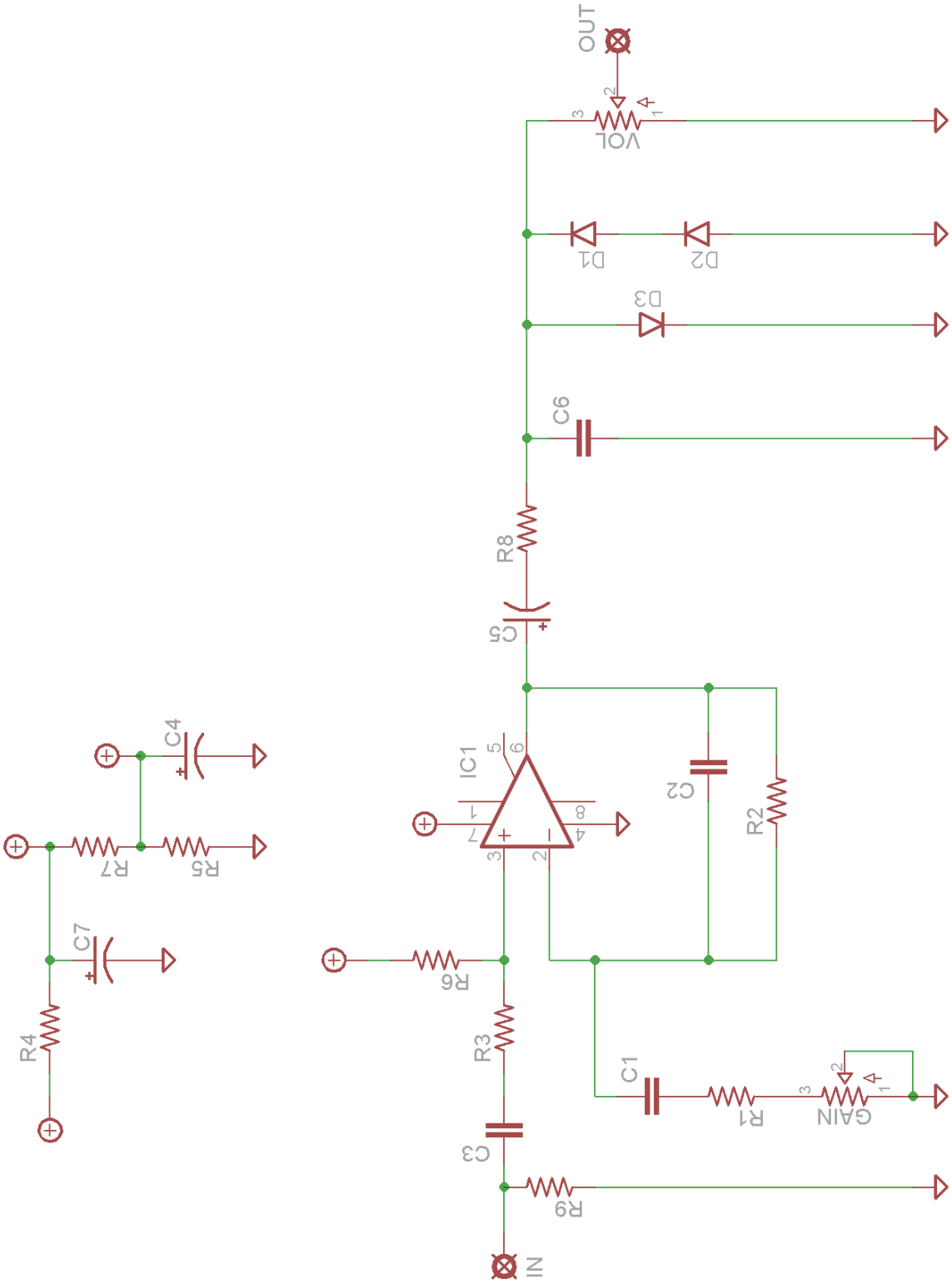
Resistors

R1	4k7	
R2	1M	
R3	10k	
R4	100R	
R5	22k	
R6	470k	
R7	22k	
R8	10k	
R9	1M	Not in original, but is used to help prevent pop.

Suggested Soldering Order

1. R2, R4, R7
2. The rest of resistors and diodes on the bottom.
3. C2
4. C1, C3, C6
5. C7
6. IC1 socket
7. C4, C05
8. Pots

Schematic


OUT
VOL
D1
D2
D3
C6
R8
C5
IC1
C2
R2
C4
R5
R7
C7
R4
R6
R3
C1
R1
GAIN
C3
R9
IN