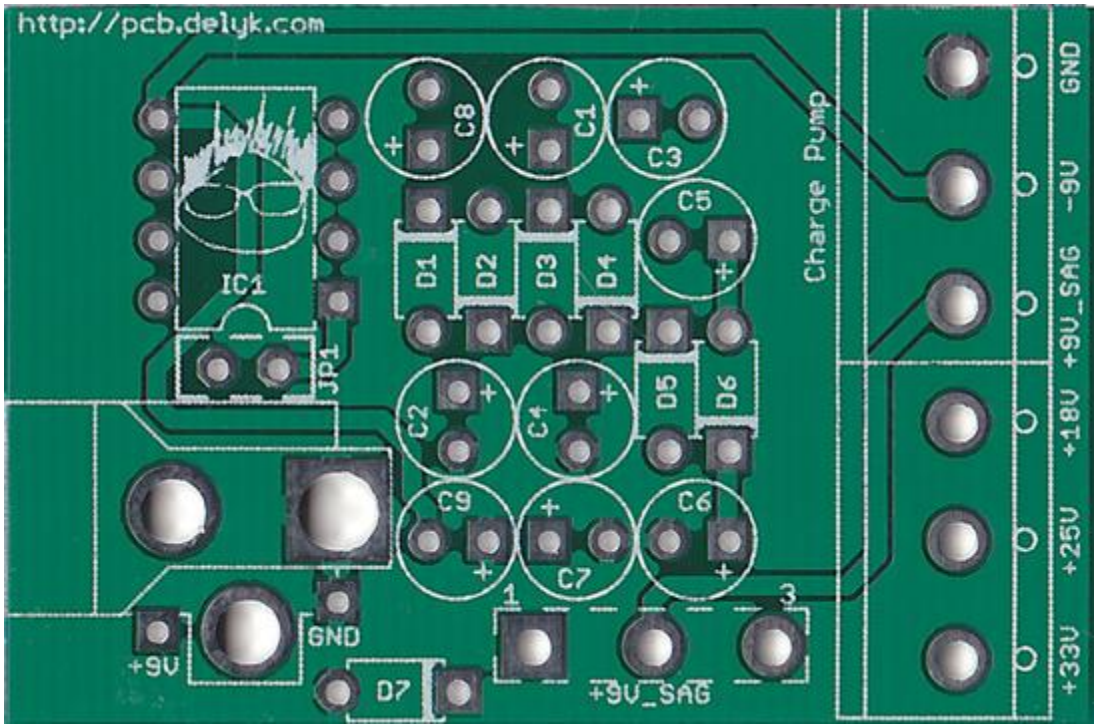

Charge Pump

Build Document

Capacitors

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

P/N	Value	Type	Notes
C1	10uF	Aluminum Electrolytic	This needs to be at least 25V.
C2	10uF	Aluminum Electrolytic	This needs to be at least 25V.
C3	10uF	Aluminum Electrolytic	This needs to be at least 50V.
C4	10uF	Aluminum Electrolytic	This needs to be at least 50V.
C5	10uF	Aluminum Electrolytic	This needs to be at least 50V.
C6	10uF	Aluminum Electrolytic	This needs to be at least 50V.
C7	47uF	Aluminum Electrolytic	This needs to be at least 16V. 16V fits perfectly on this board.
C8	10uF	Aluminum Electrolytic	This needs to be at least 16V. 16V fits perfectly on this board.
C9	47uF	Aluminum Electrolytic	This needs to be at least 16V. 16V fits perfectly on this board.

Diodes

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

P/N	Value	Notes
D1-D6	1N5817	Can be 1N400x, but they are a higher voltage loss.
D7	1N400x	Polarity protection.

Integrated Circuits

I can't find the 7660S at Tayda. You can get MAX1044, but it is a few dollars.

P/N	Value	Notes
IC1	7660S/MAX1044/LT1054	If using the LT1054, don't jump JP1. Otherwise, jump it.

Potentiometers

I obtained all of my potentiometers from Tayda.

P/N	Value	Notes
+9V_SAG	B5k	

Other Parts

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

Qty	Value	Notes
2	DG301	3 position, PCB mount terminal block. I recommend this one.
1	DC Jack	I recommend this one.
1	8-pin socket	Used to protect your IC from a bad solder job.