

I MUST SCREAM

SEQUENTIAL VOLTAGE SOURCE MODEL 123

ASSEMBLY GUIDE

imustscream.cc



The kit consists of PCB, Panel, bags of components and knobs.



Bag **(A)** contains: resistors, all numbered by their values

Bag **(B)** contains: Diodes

Bag **(C)** contains: Capacitors

Bag **(D1)** contains: 2N3904 Transistors

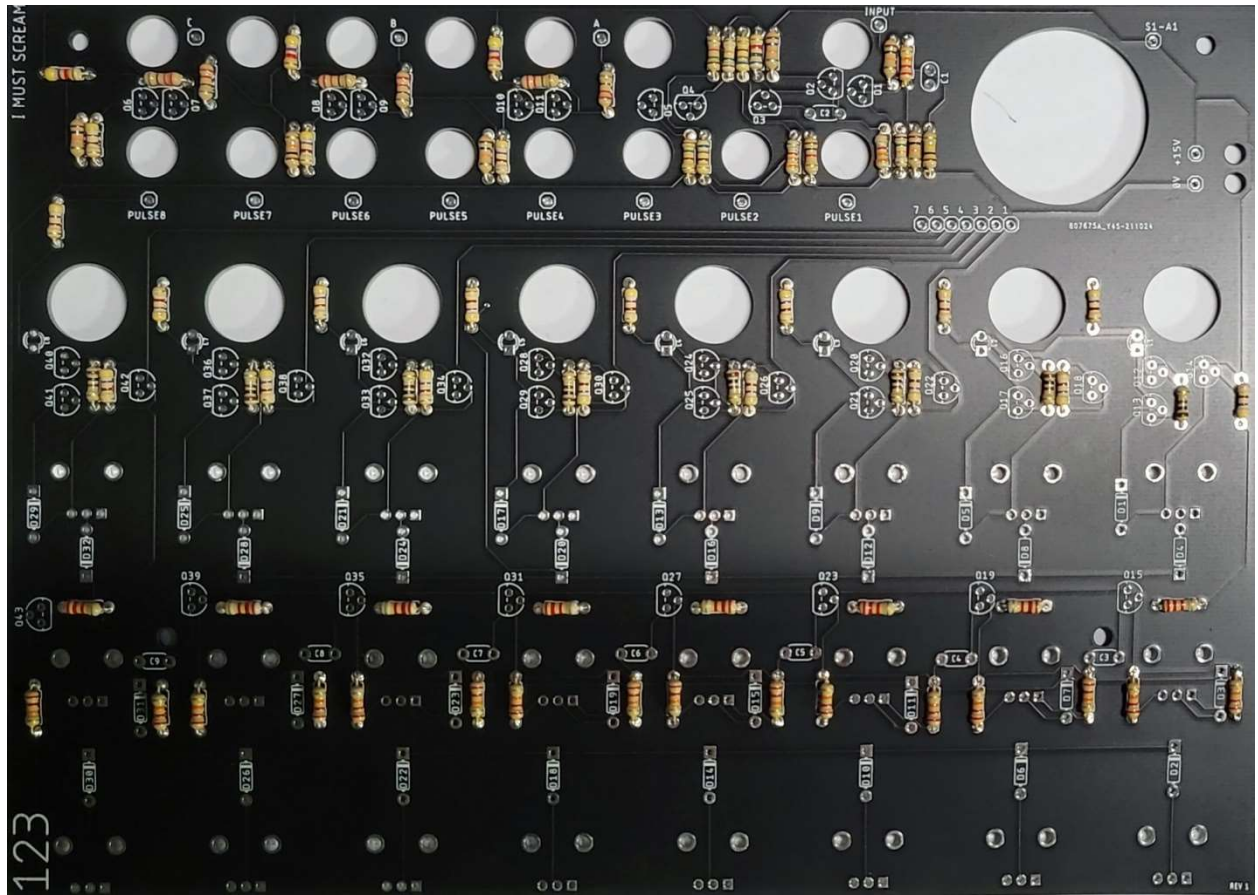
Bag **(D2)** contains: 2N3906 Transistors

The rest of the bags contain: Potentiometers, Banana Jacks, Standoffs, Wire, Pins, Switch, Lamps.

Please refer to BOM for components placing.

Step 1

Solder all the resistors.



Step 2

Solder all the diodes. Pay attention to the orientation. Black stripe on the diode should match the white stripe on the silkscreen.

After diodes, solder all the capacitors according to the BOM. All of the capacitors are non-polarized, so the direction doesn't matter.



Step 3

Solder all the **2N3904** transistors. Pay attention to the orientation. The flat side has to match with the flat side on the silkscreen.



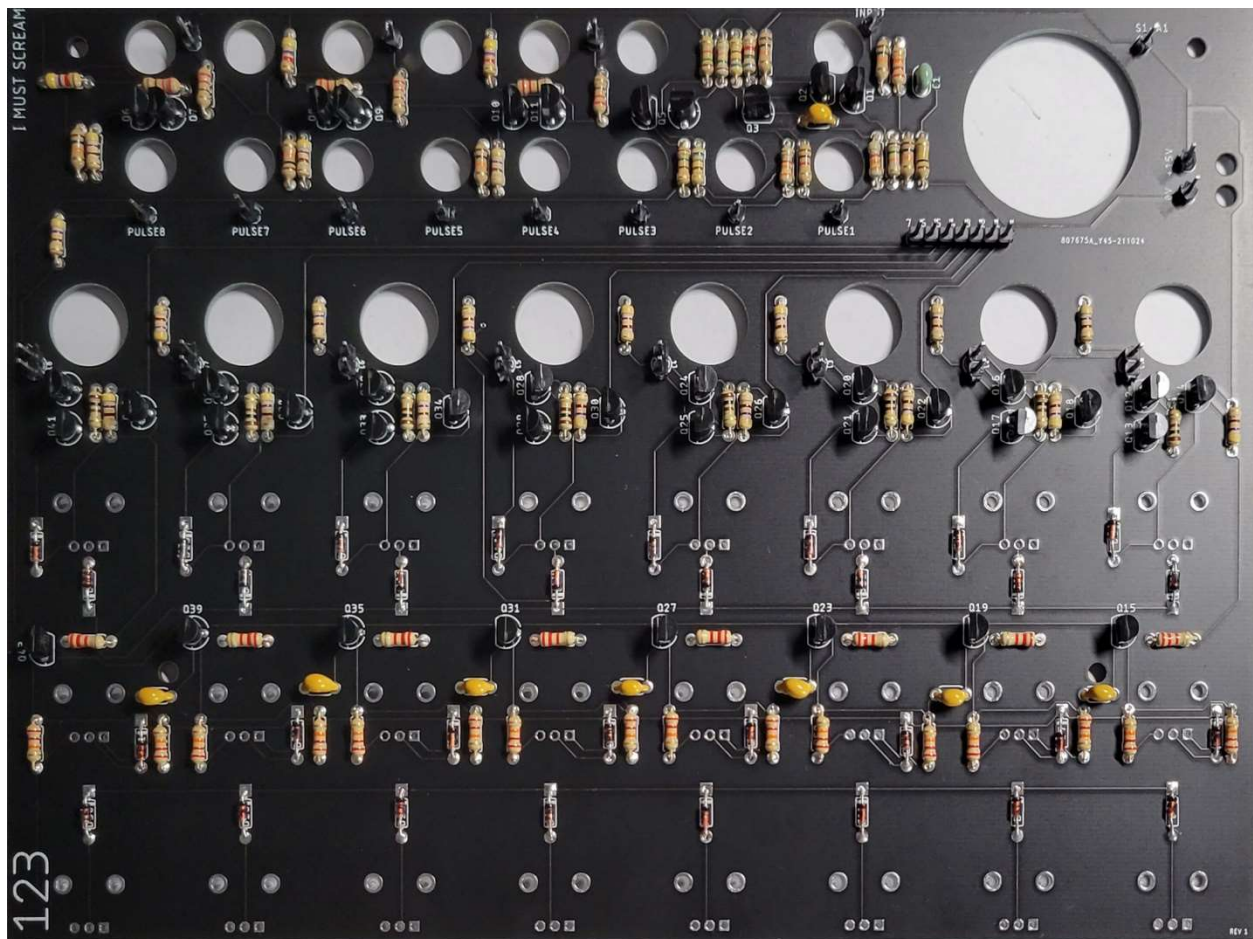
Step 4

Solder all the **2N3909** transistors. Pay attention to the orientation. The flat side has to match with the flat side on the silkscreen.



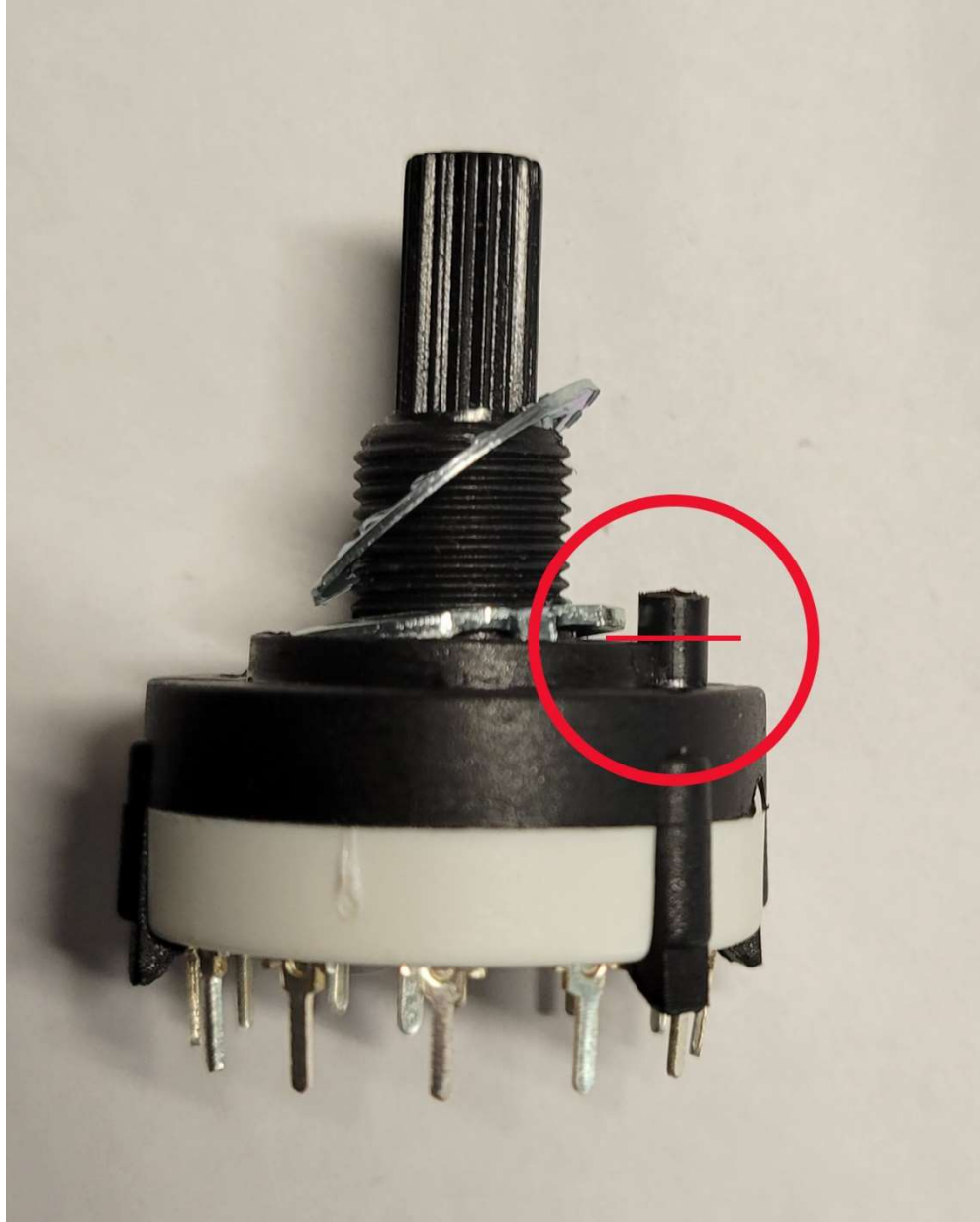
Step 5

Solder all the pins. This step is *(optional)*. Otherwise, you can solder wires directly. However, I strongly recommend using pins.

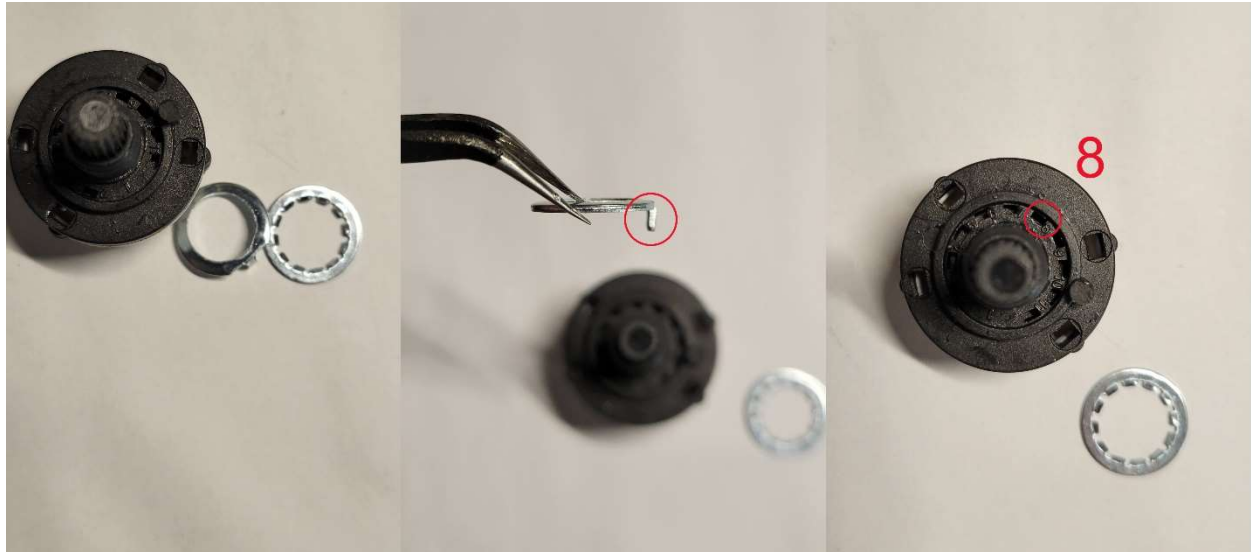


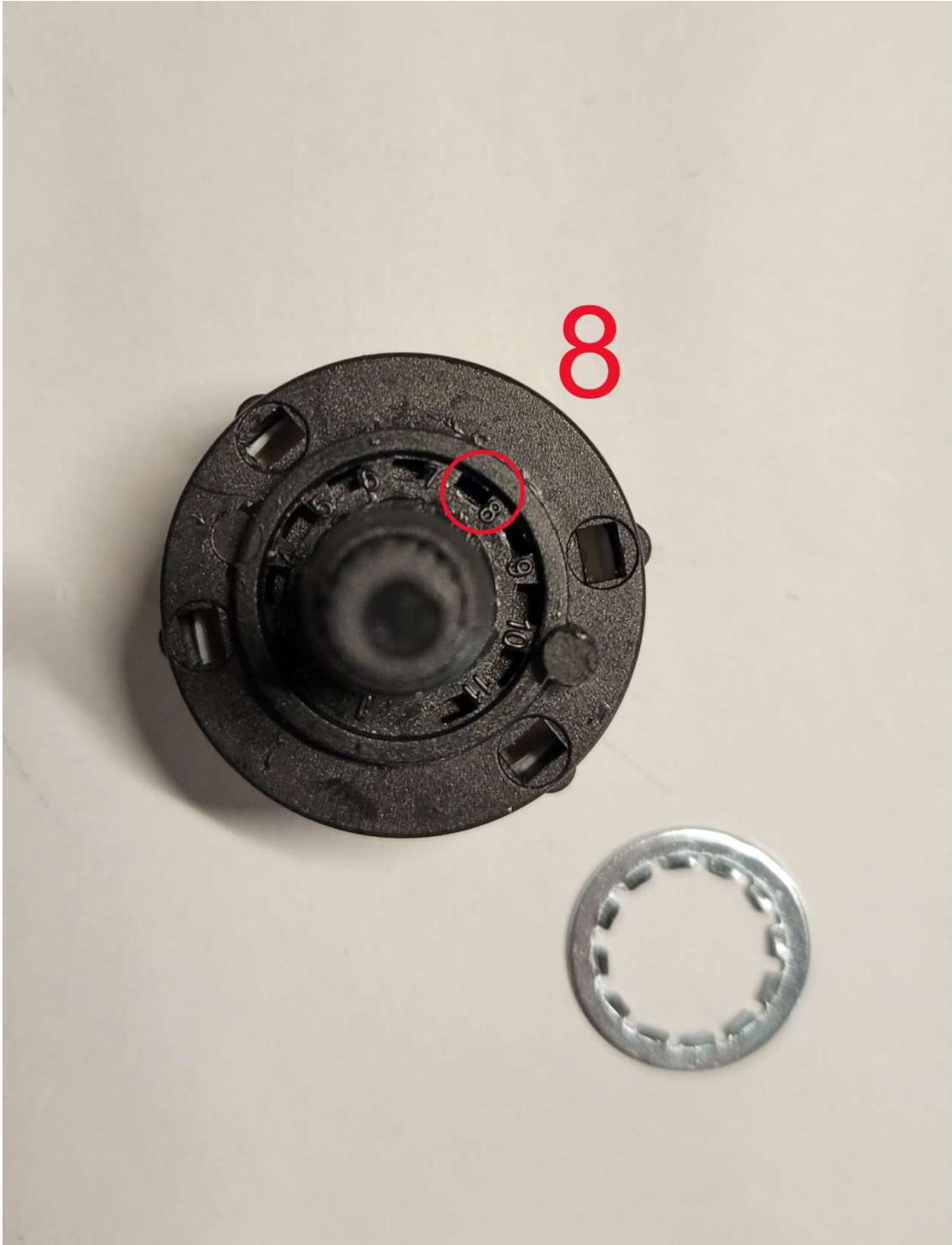
Step 6

Prepare the switch. Cut the plastic part from the switch first.



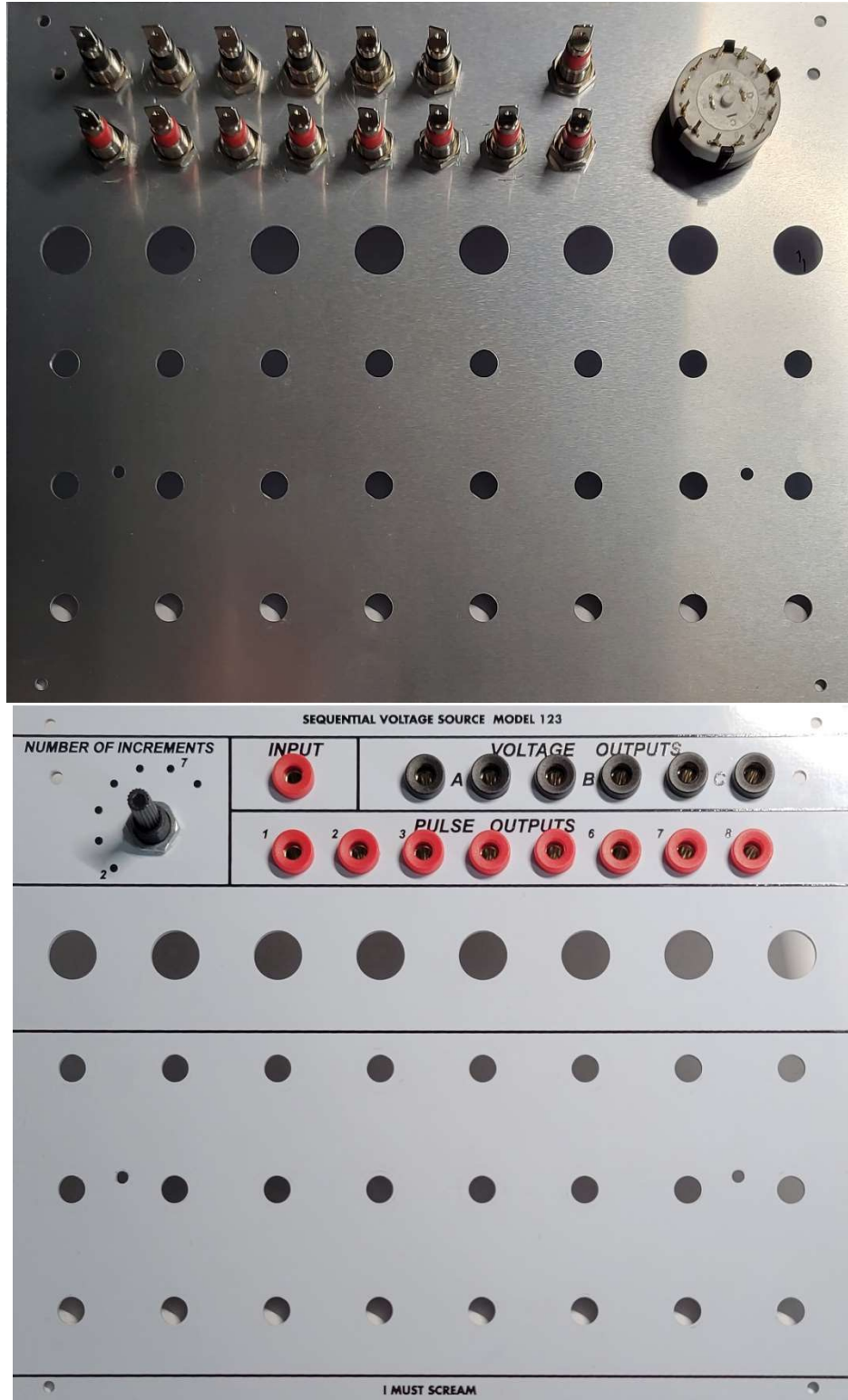
After, make sure to put the washer as displayed on the photo below.
It will limit the switch rotation positions to the amount we need.





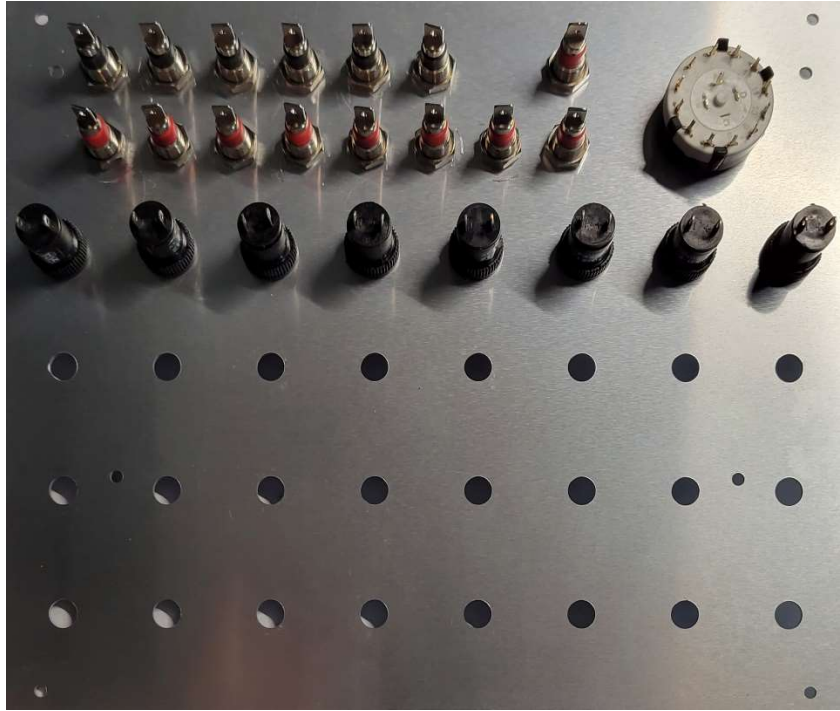
Step 7

Secure the switch and banana jacks on the front panel.



Step 8

Secure the LEDs on the front panel. I recommend you to position them the same as on the photo. It will make it easier to wire it if you follow these instructions. Pay attention to the – and + markings on LEDs.



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NUMBER OF INCREMENTS



INPUT



VOLTAGE OUTPUTS



1



2



3



4



5



6



7



8



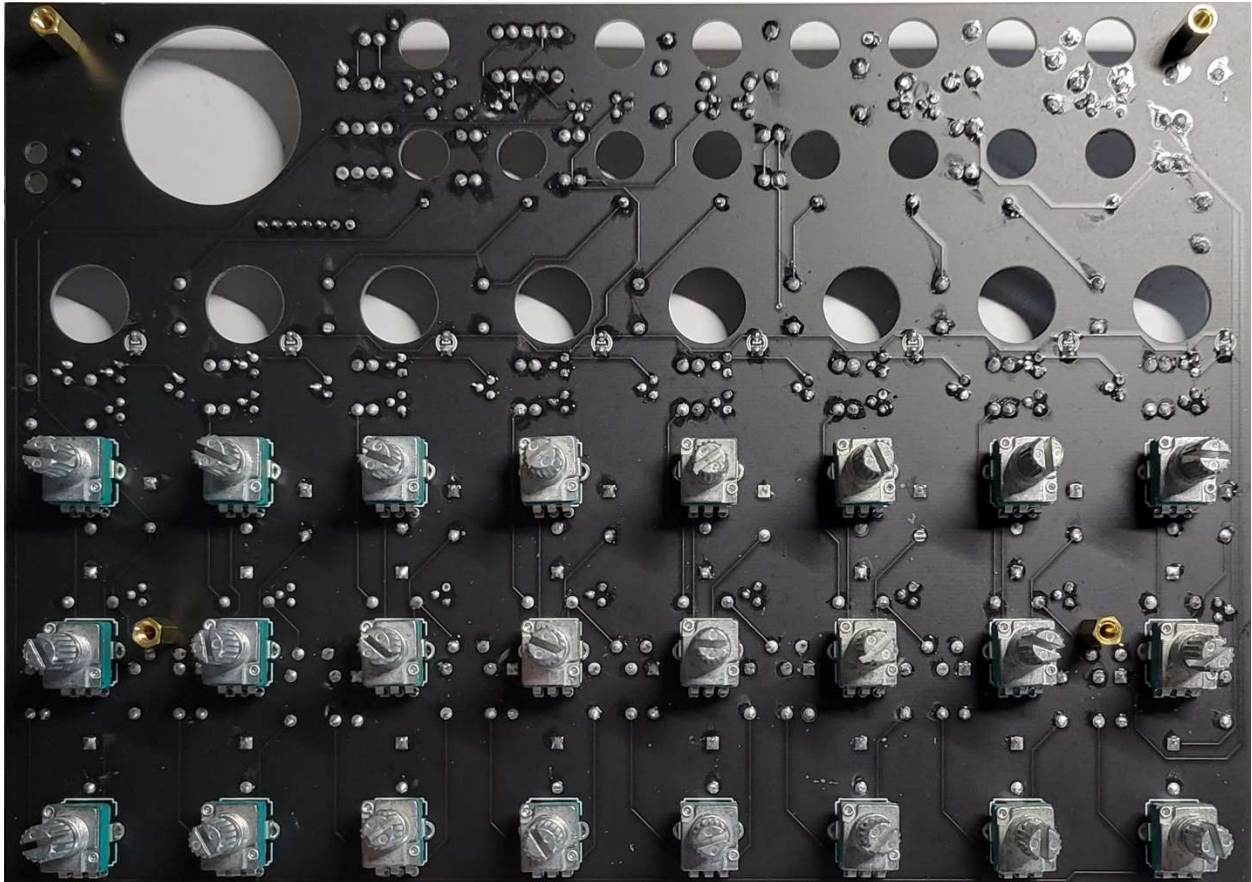
PULSE OUTPUTS



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Step 9

Position jacks and standoffs. Don't solder yet. Secure them to the front panel, and tighten. Solder **AFTER** tightening.

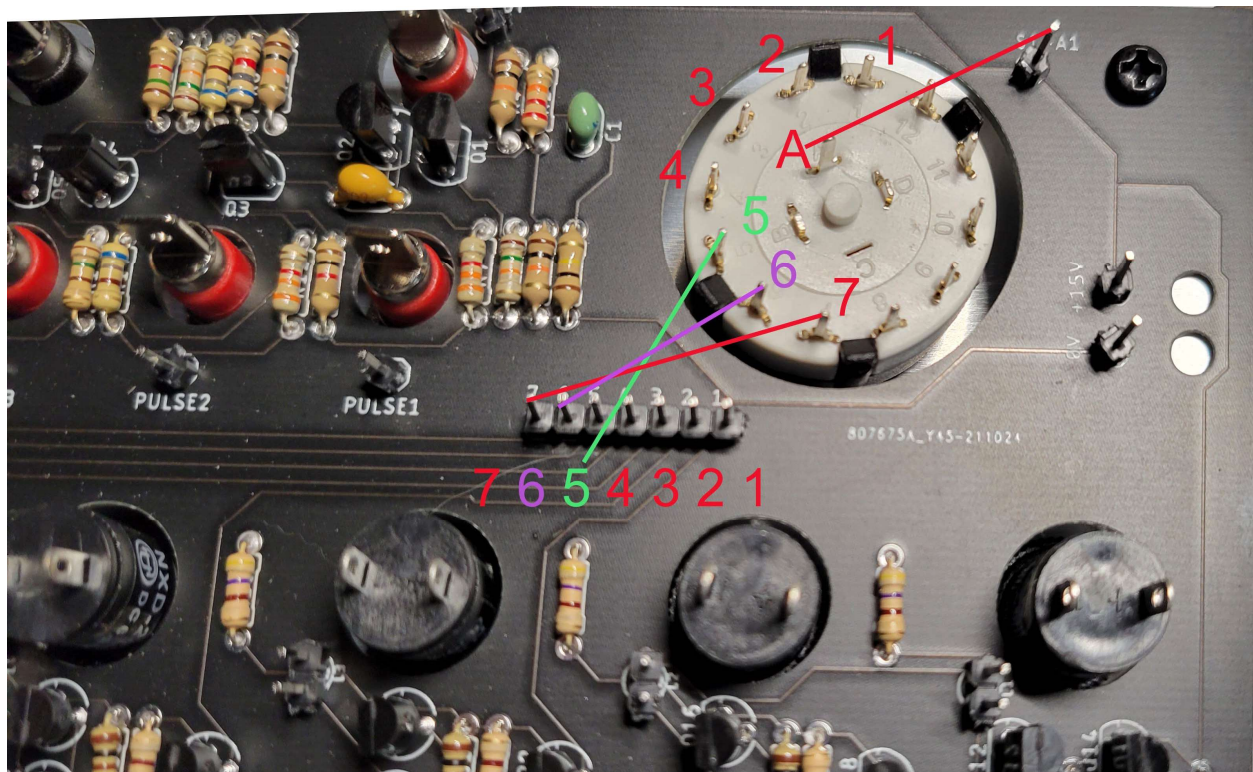




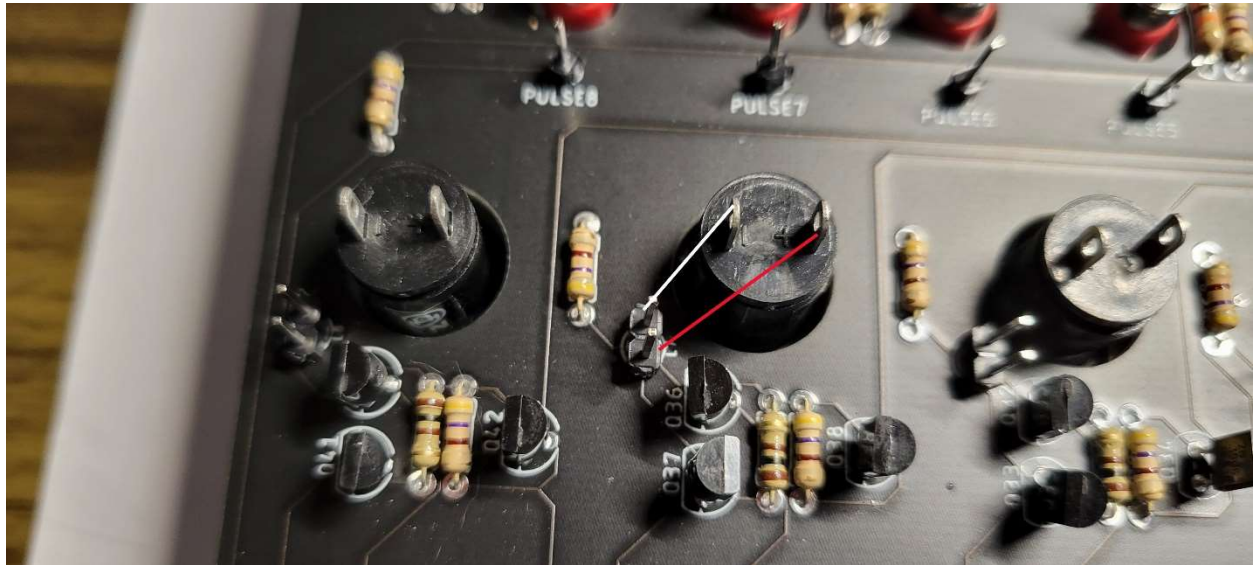
Step 10

Cut and strip the wires from the Bag (C). Pay attention that the colors of wires can be different than you see on photos. Use them as you prefer.

First, wire the switch. Connect the pins on the PCB to the pins on switch according to the numbers.



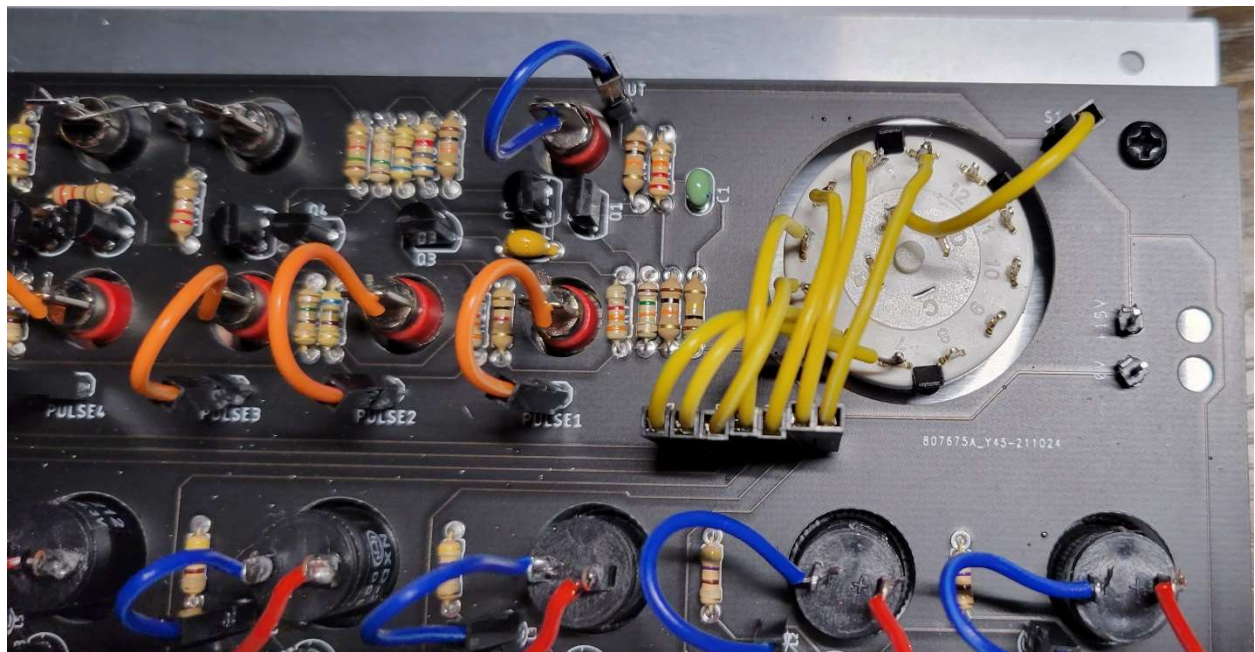
Next, wire the LEDs. The + should go to the lower pin, - to the upper pin. Connect all 8 LEDs.



Connect upper pins to the back jacks as shown below. After, connect pulse pins to the red jacks.



Here how it should look in the end:



Step 11

Now you can put knobs. This module does not require calibration.

Congratulations!

