

# ***I MUST SCREAM***

DUAL ATTACK GENERATOR MODEL 180

ASSEMBLY GUIDE

[imustscream.cc](http://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: Capacitors

Bag **(C1)** contains: 2N3904 Transistors

Bag **(C2)** contains: 2N3906 Transistors

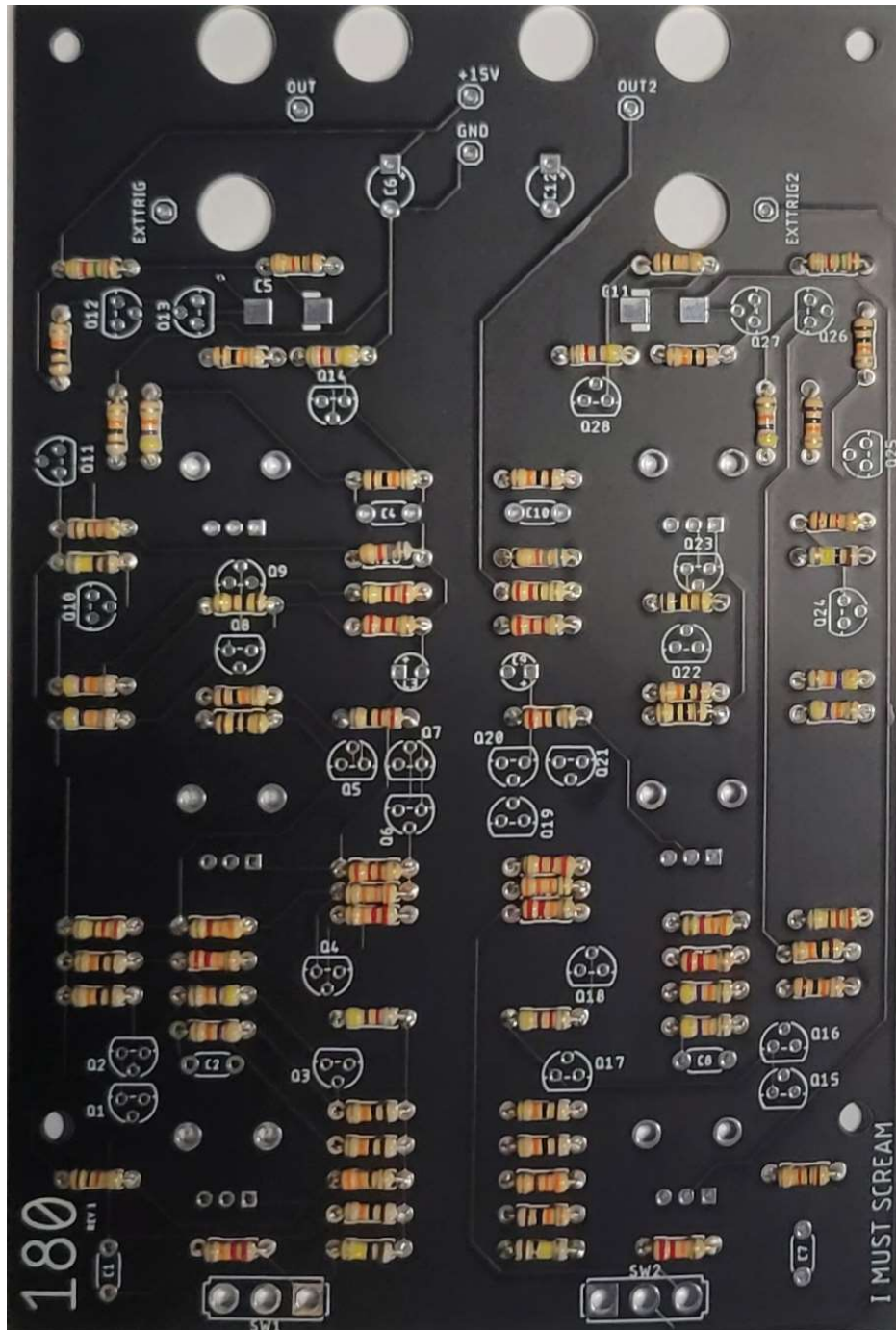
Bag **(D)** contains: Banana Jacks, Standoffs, Wire, Pins, Switches.

Bag **(E)** contains: Potentiometers

Please refer to BOM for components placing.

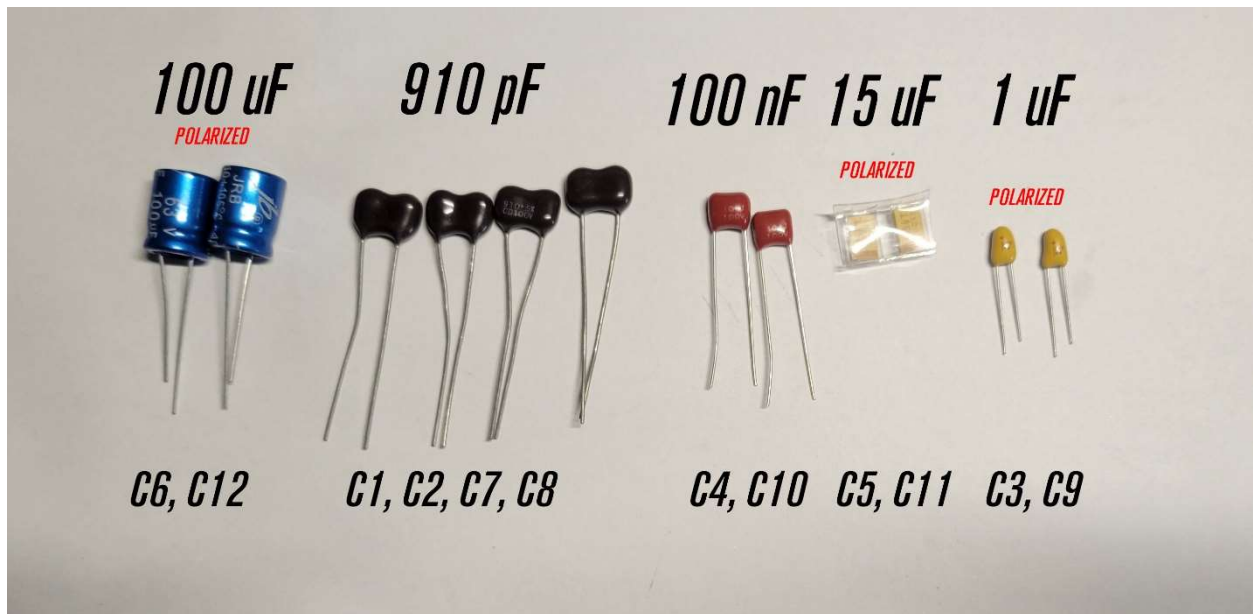
## Step 1

Solder all the resistors.



## Step 2 - Capacitors

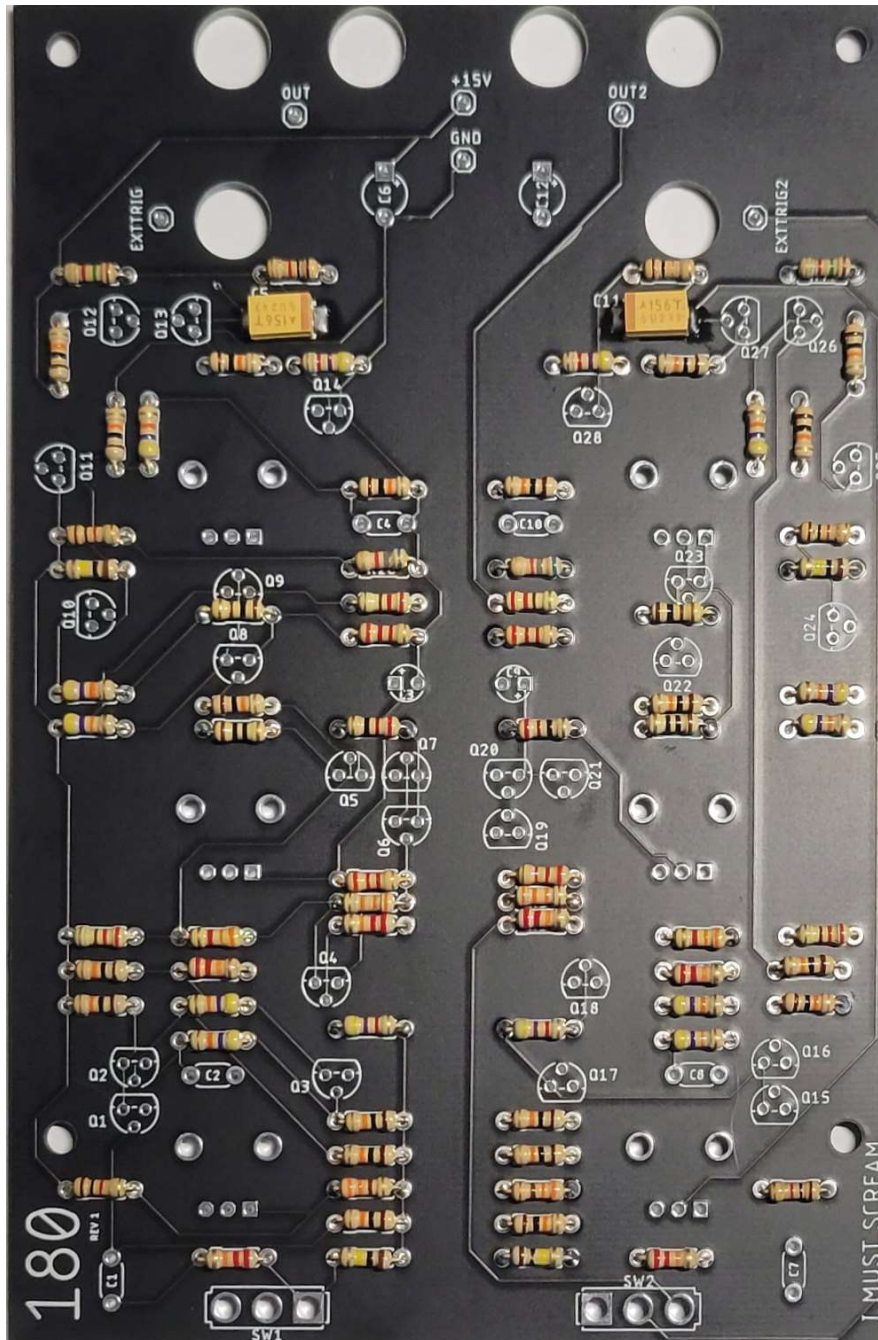
Inside of the bag **(B)** you will find the following capacitors:



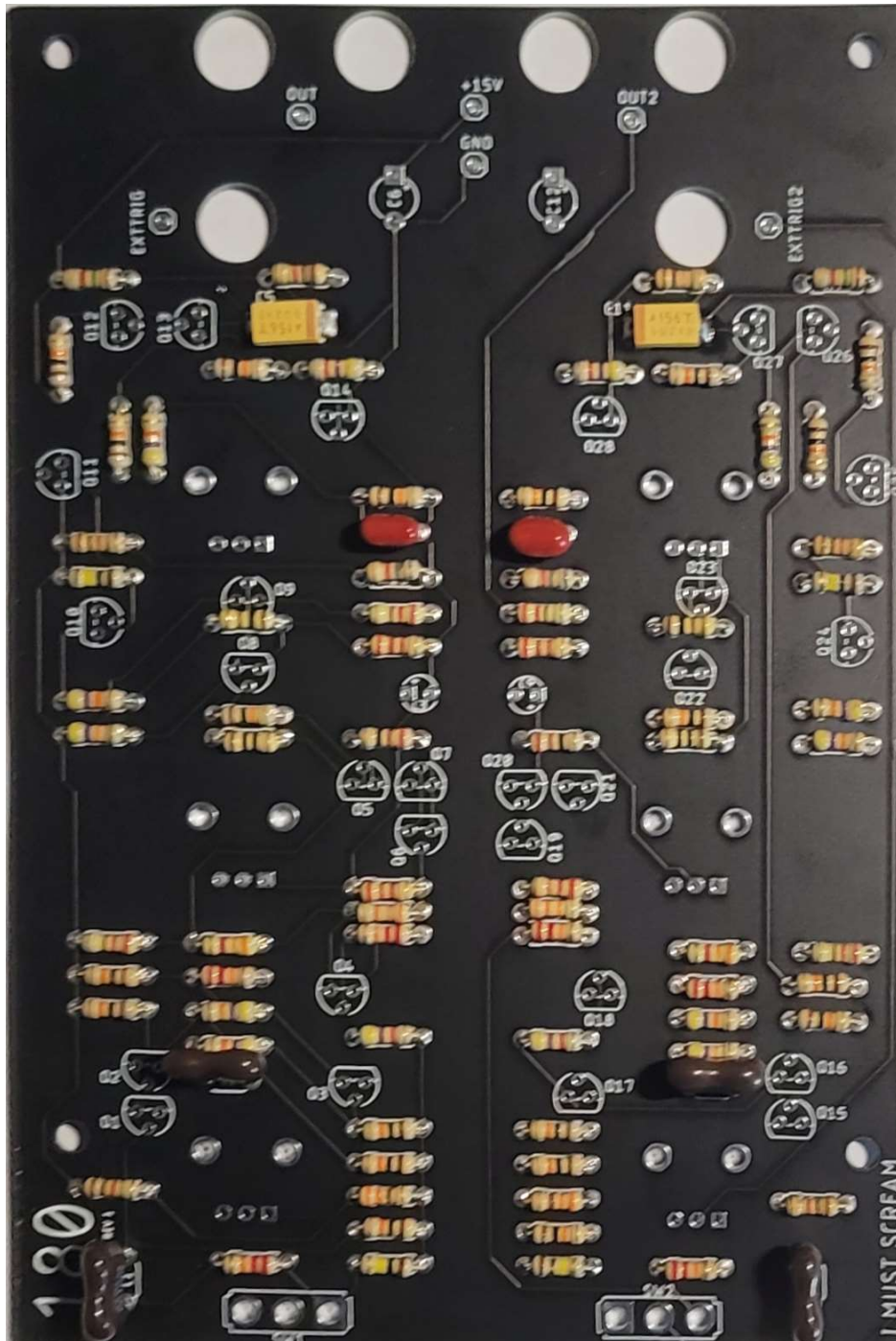
Pay attention that some of them are polarized, and you need to position them properly according to silkscreen.



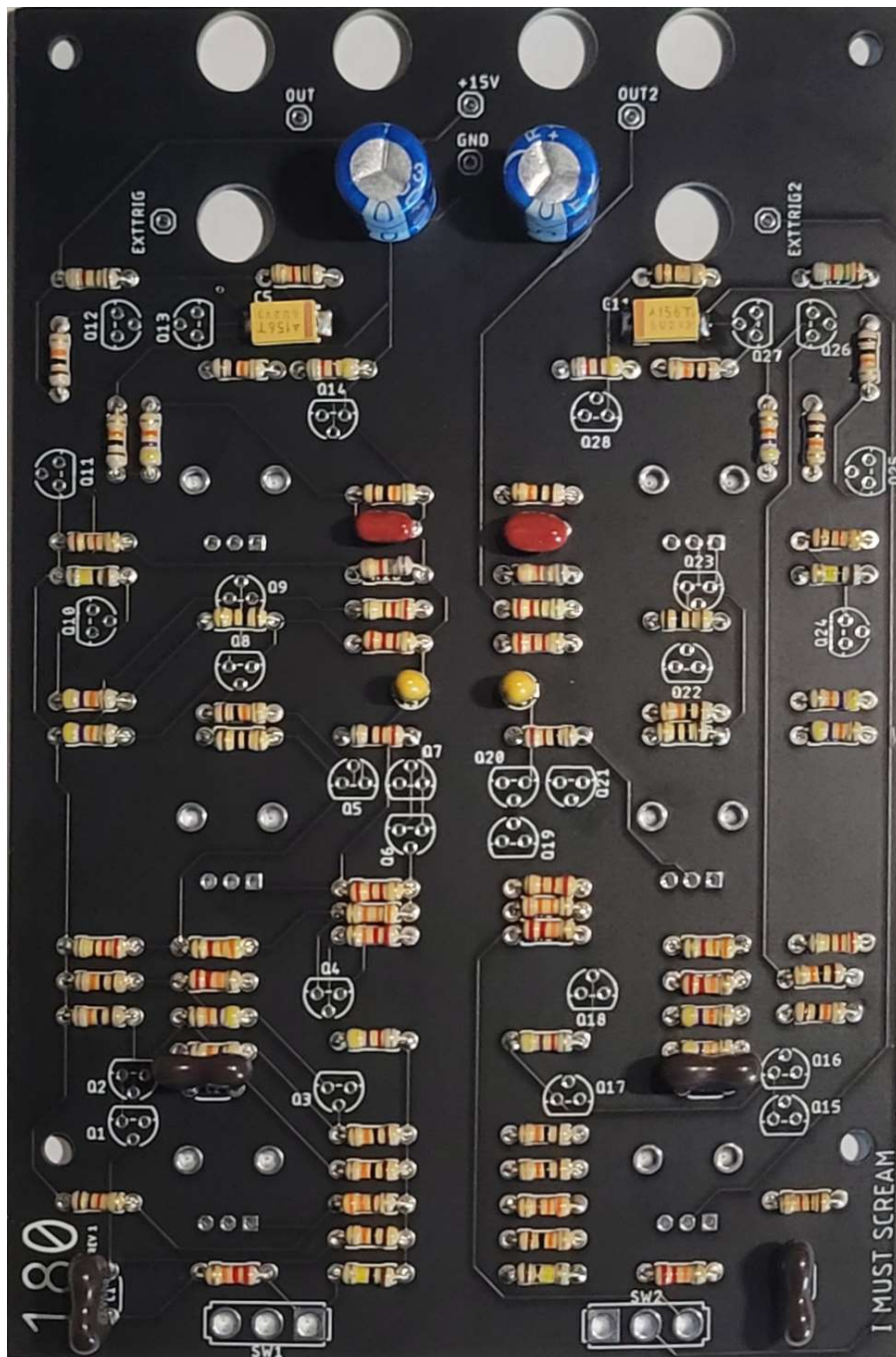
Start by soldering C5 and C11 polarized tantalum SMD capacitors. The orange line on the capacitor should match the white line on the PCB.



Now solder unpolarized capacitors:



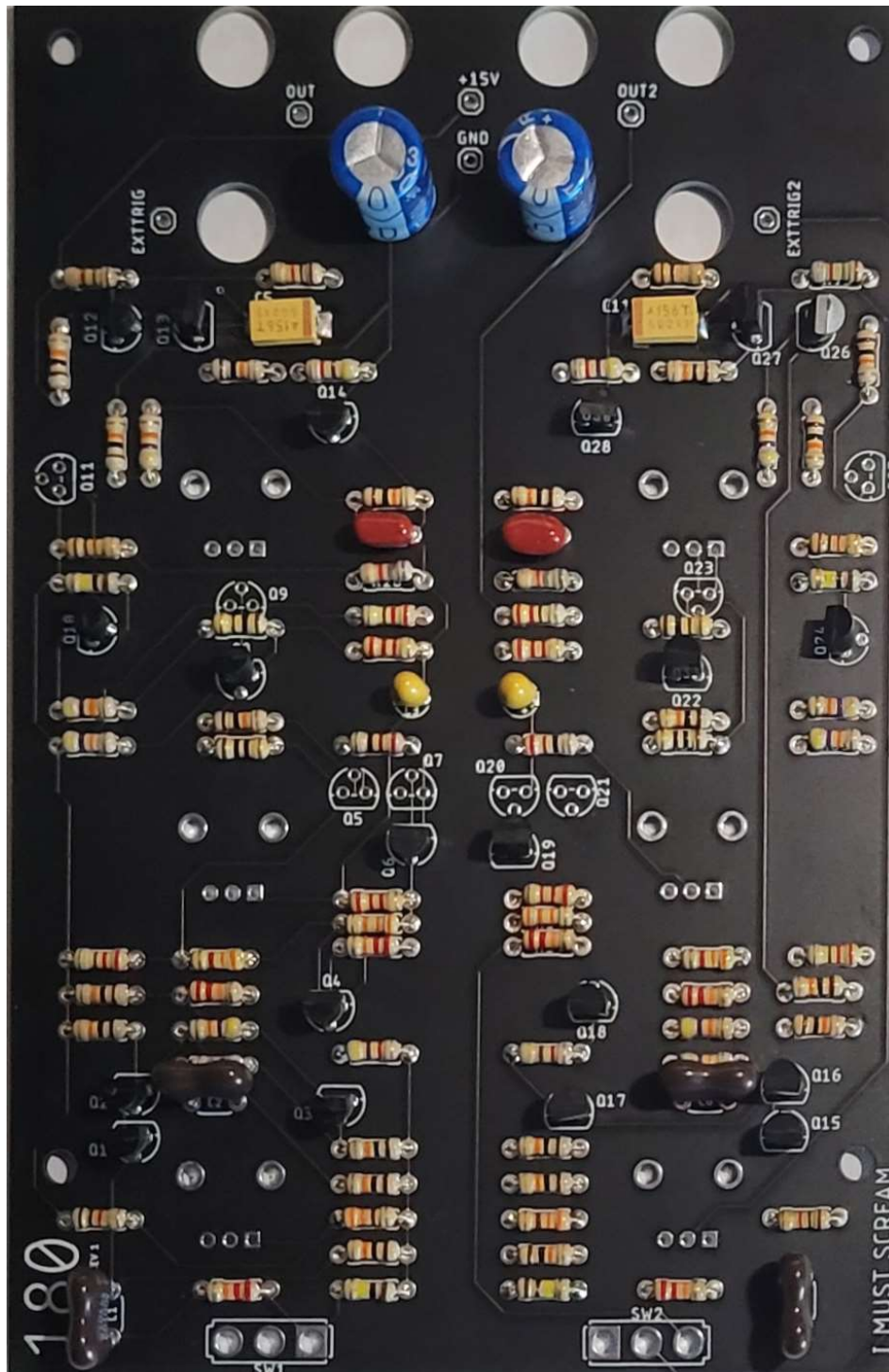
And polarized Electrolytic and Tantalum capacitors. Pay attention to the orientation here.





## Step 3

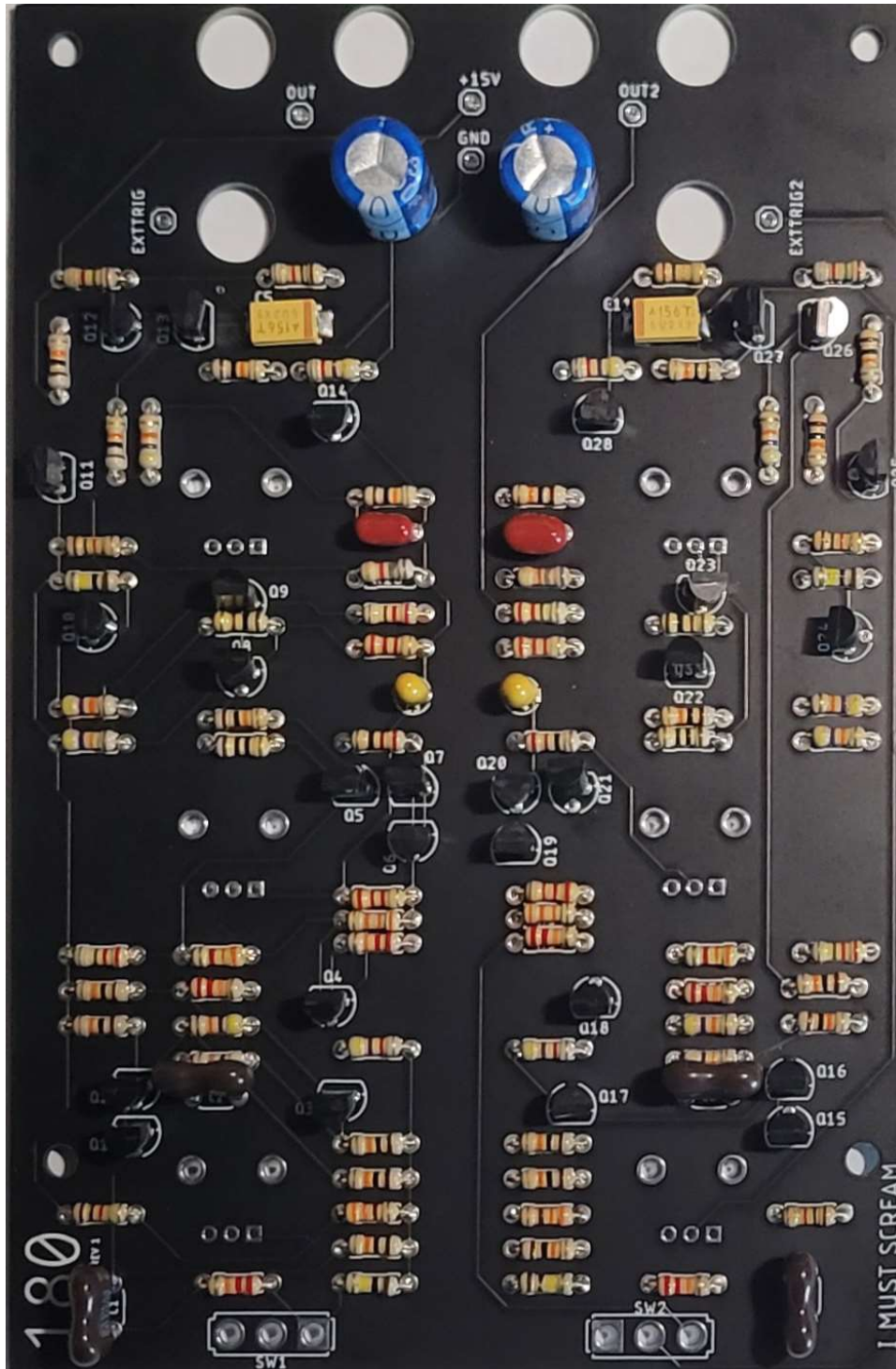
Solder all the **2N3904** transistors. Pay attention to the orientation. The flat side has to match with the flat side on the silkscreen.





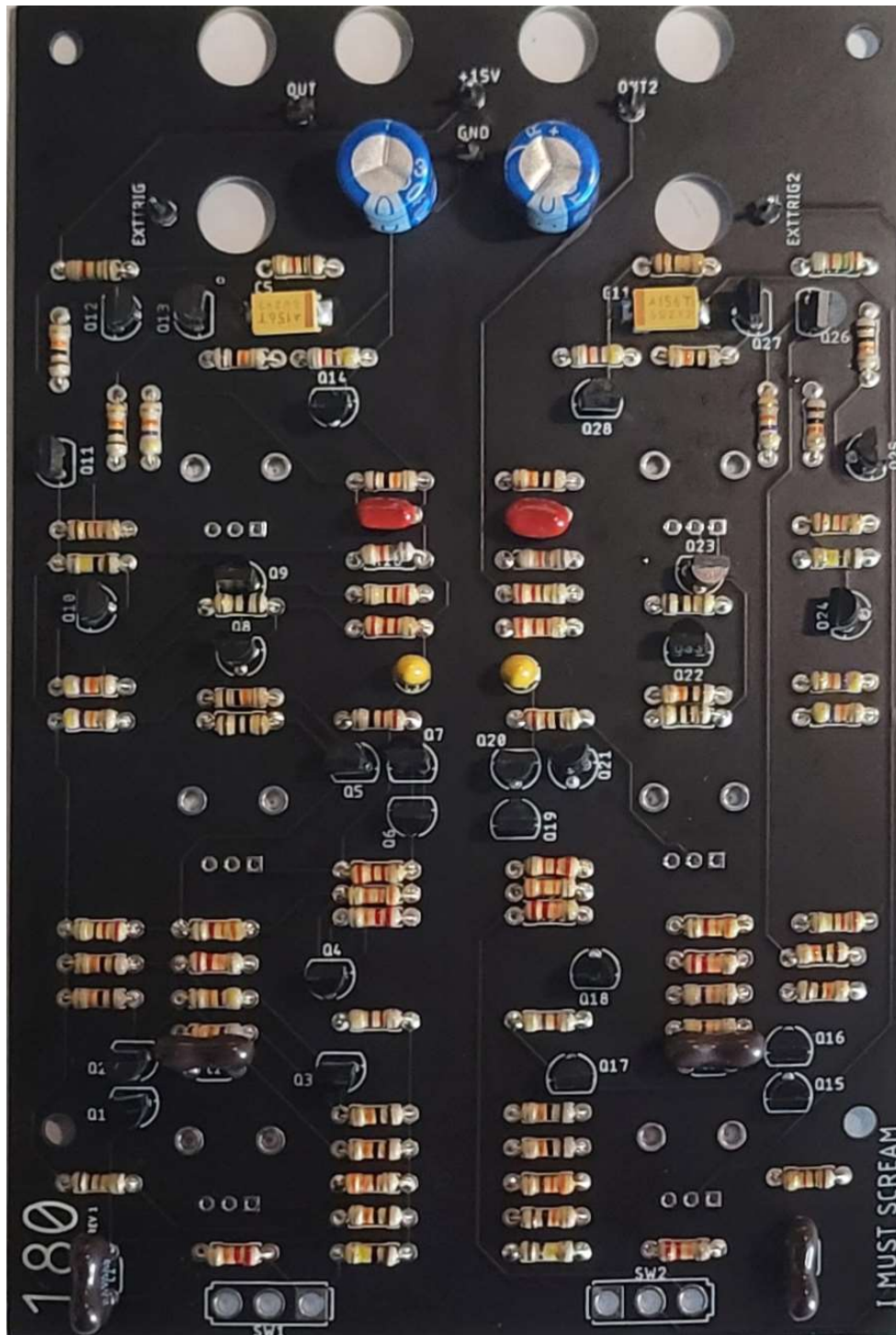
## Step 4

Solder all the **2N3906** transistors. Pay attention to the orientation. The flat side has to match with the flat side on the silkscreen.



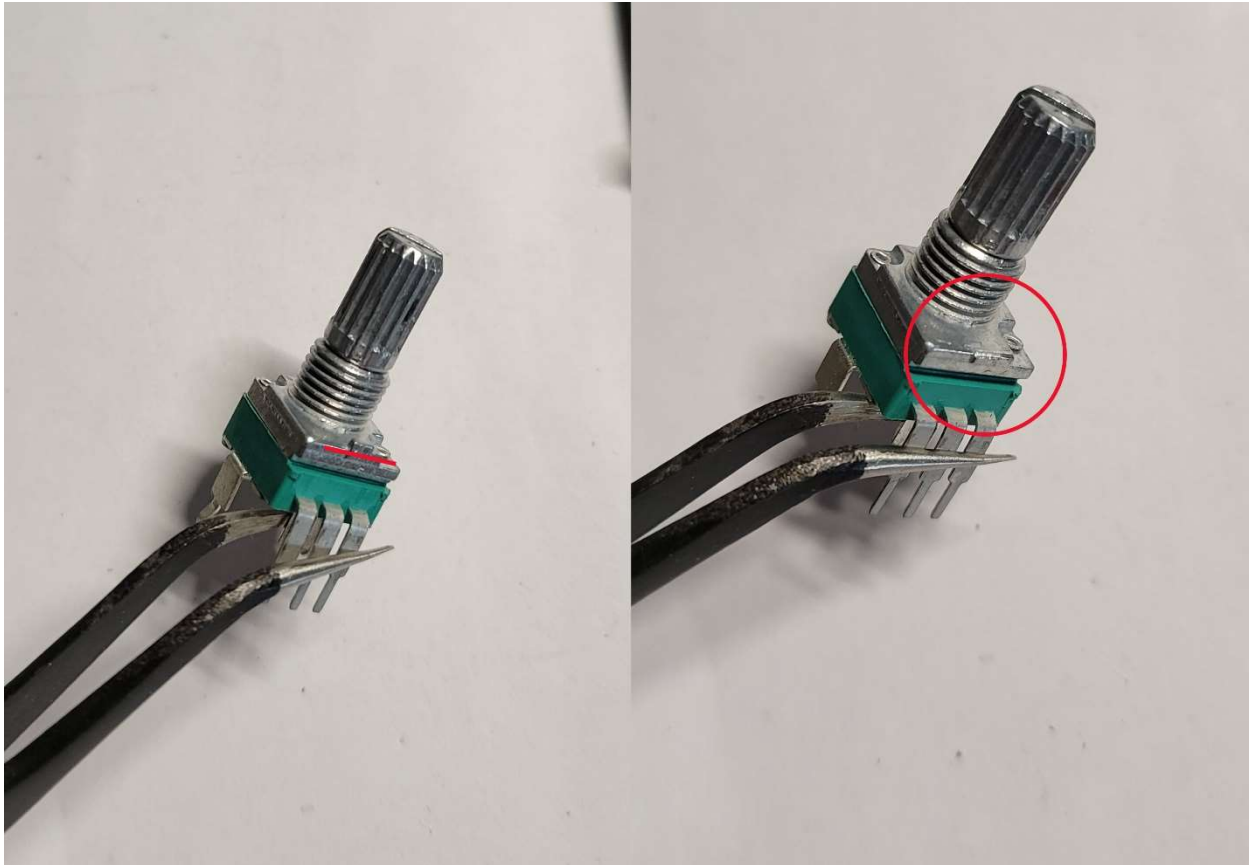
## Step 5

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



## Step 6

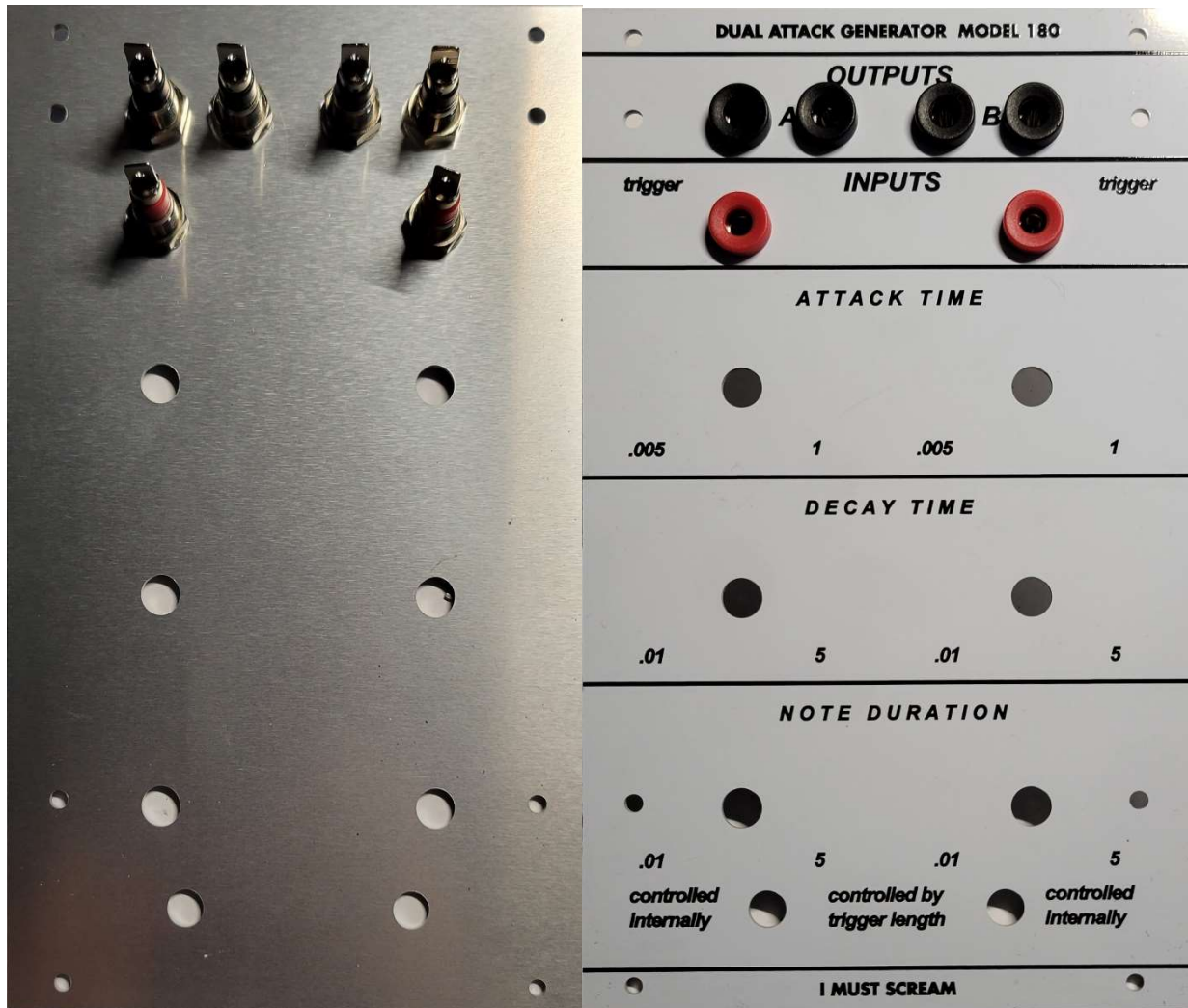
Remove the anti-rotational tags using wire cutter.





## Step 7

Secure the banana jacks on the front panel.



## Step 8

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



**DUAL ATTACK GENERATOR MODEL 180**

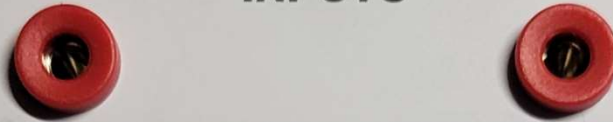
**OUTPUTS**



**trigger**

**INPUTS**

**trigger**



**ATTACK TIME**



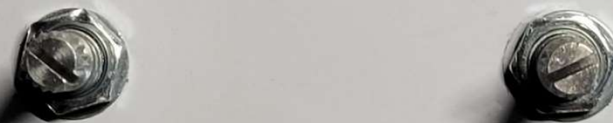
**.005**

**1**

**.005**

**1**

**DECAY TIME**



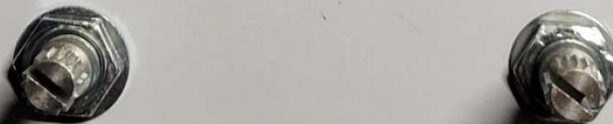
**.01**

**5**

**.01**

**5**

**NOTE DURATION**



**.01**

**5**

**.01**

**5**

**controlled  
Internally**



**controlled by  
trigger length**



**controlled  
Internally**

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## Step 9

Connect OUT 1 and OUT2 to the black banana jacks.

Then cut and strip the wire from the bag. Insert in the pins and solder wires to the red banana jacks.



## Step 11

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



