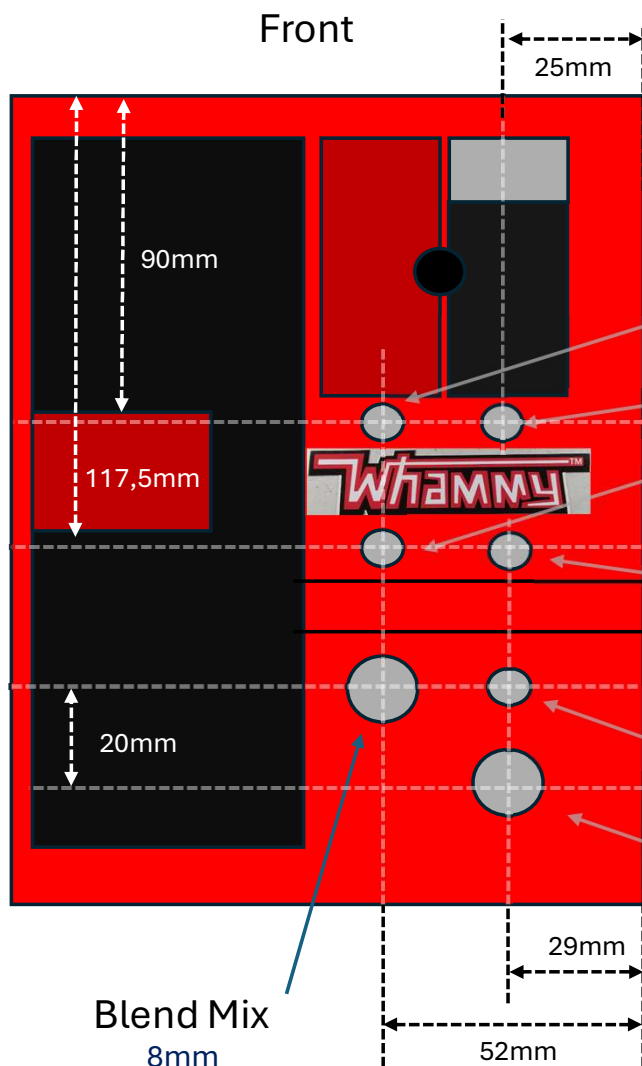


Whammy 4 – Version 1.02

True Bypass, Blend Mix,  
Shutter Gate Effect,  
Midi Access (Change Effects)



- Calibartion
- Midi Access
- Shutter Speed
- ShutterGate / Change Effects
- Blend Mix
- LED On/OFF
- Effect On/OFF



6mm  
Calibration Switch

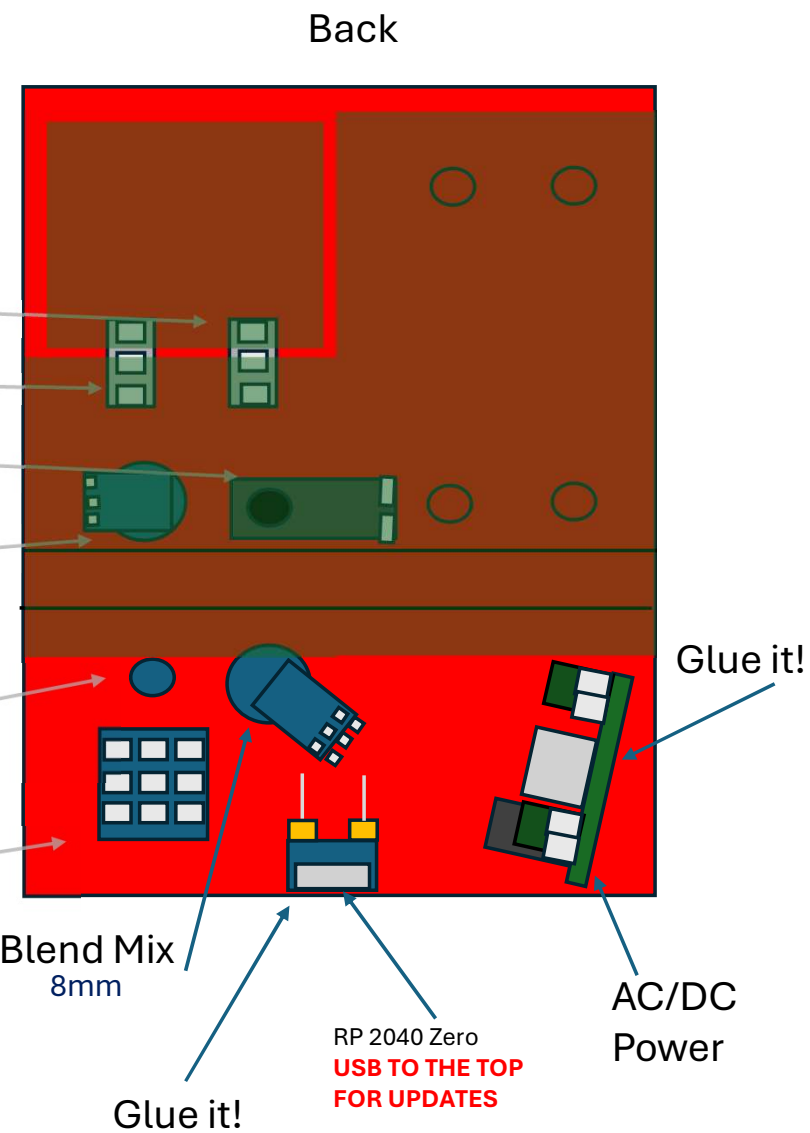
6mm  
Midi Access Switch

12mm  
Momentary Switch

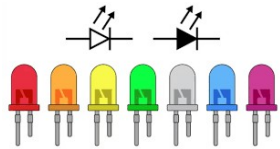
Poti 10KOhm  
7mm

LED  
7,5mm

3PDT  
10mm



## Parts



1k $\Omega$  3x

1M $\Omega$

220 $\Omega$  2x



10nF  
(optional)



Toggle Switch 2x  
Midi Access /  
Calibration



Momantary  
(Original Part)



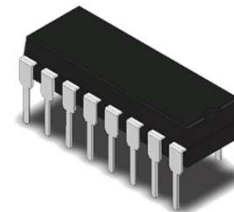
250k $\Omega$   
Blend



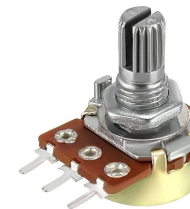
3PDT



AC/DC  
LM2596HV



4053BE



10K $\Omega$



Raspberry Pi  
2040 Zero

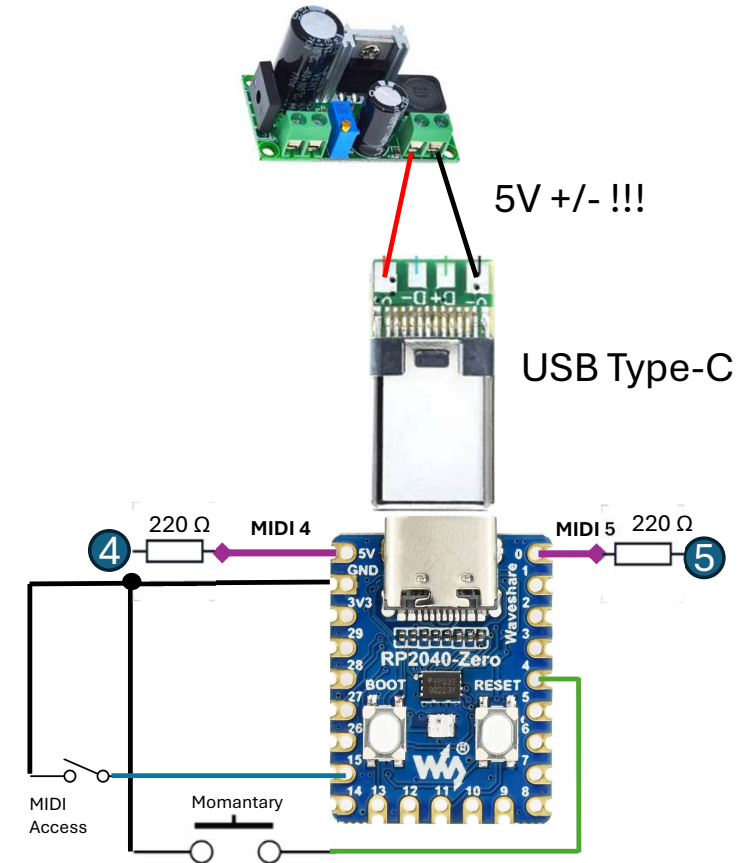
## Midi Access

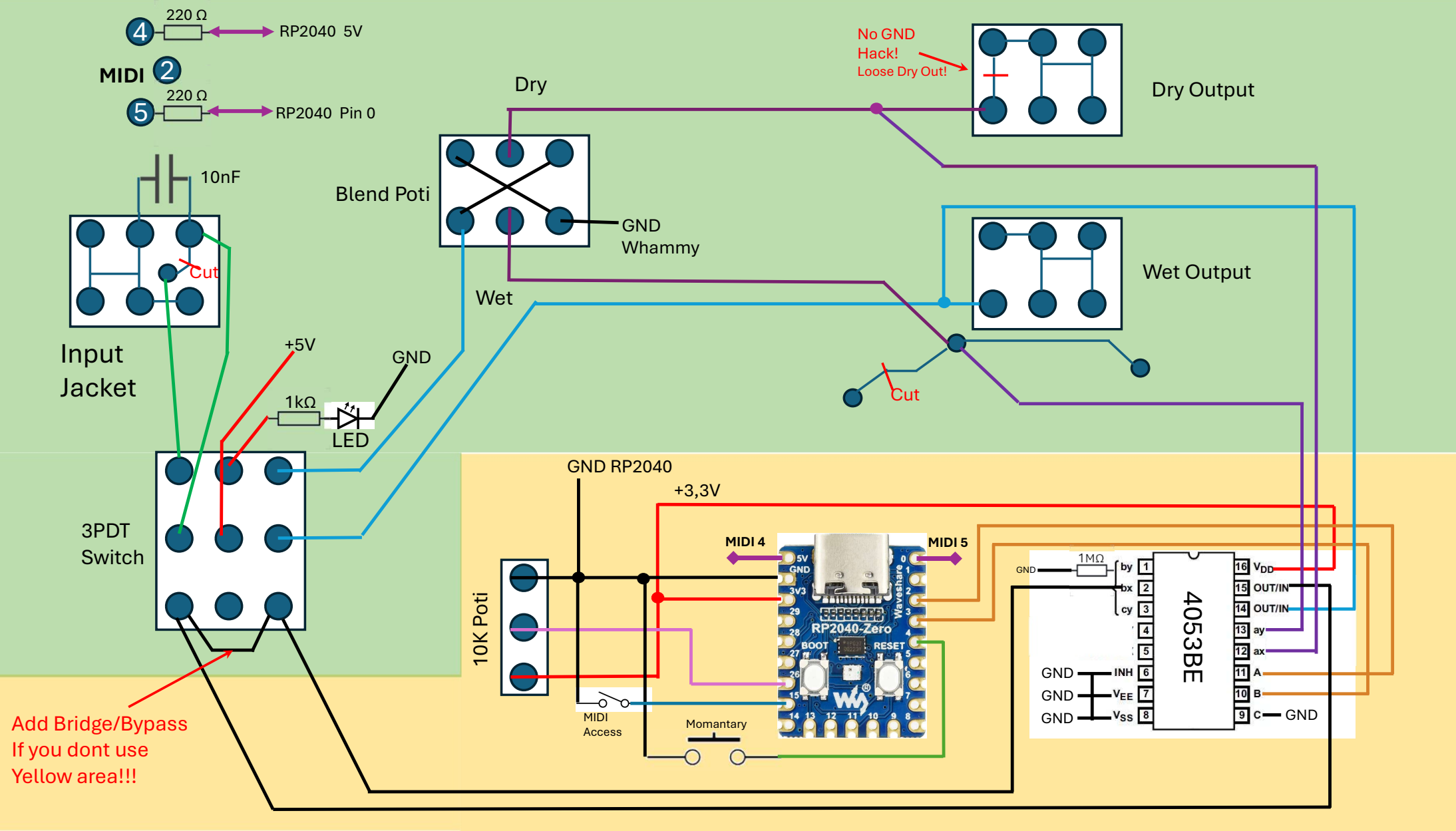


- Save after 2 sec
- Blinks 3 Times for each Effect section

- Midi Access ON
  - Change Effect 1/2 for Shuttergate
  - Hold – Change Effect 1/2
  - Double Tap – Jump Back
- Midi Access OFF
  - Momentary/Shutter Effect 1/2
  - Double Tap – Change Effect

<https://youtube.com/shorts/yBMvel-sLH8>







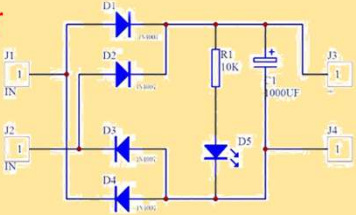
Power Supply

AC/DC Converter  
LM2596HV

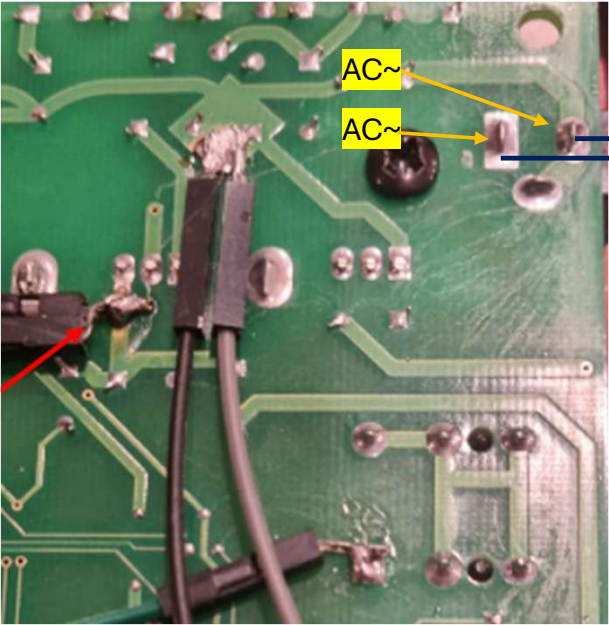


AC/DC Converter  
ALTERNATIVE!!!

AC/DC Fullbridge



MP1584EN

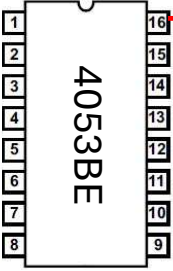
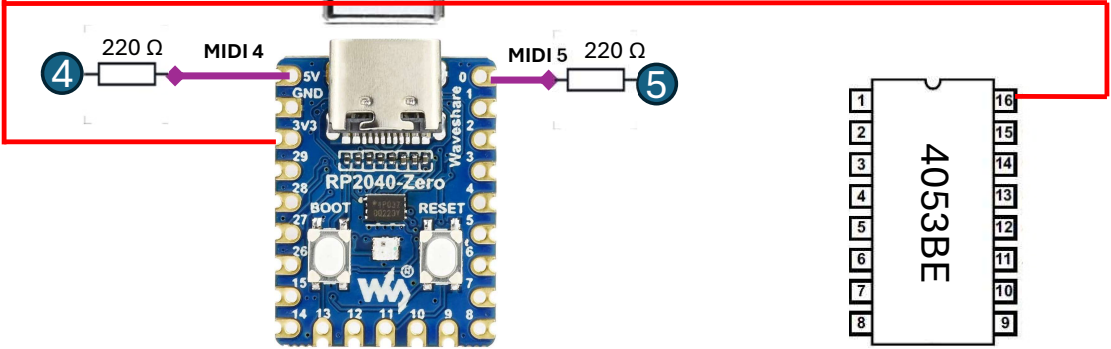


~9V

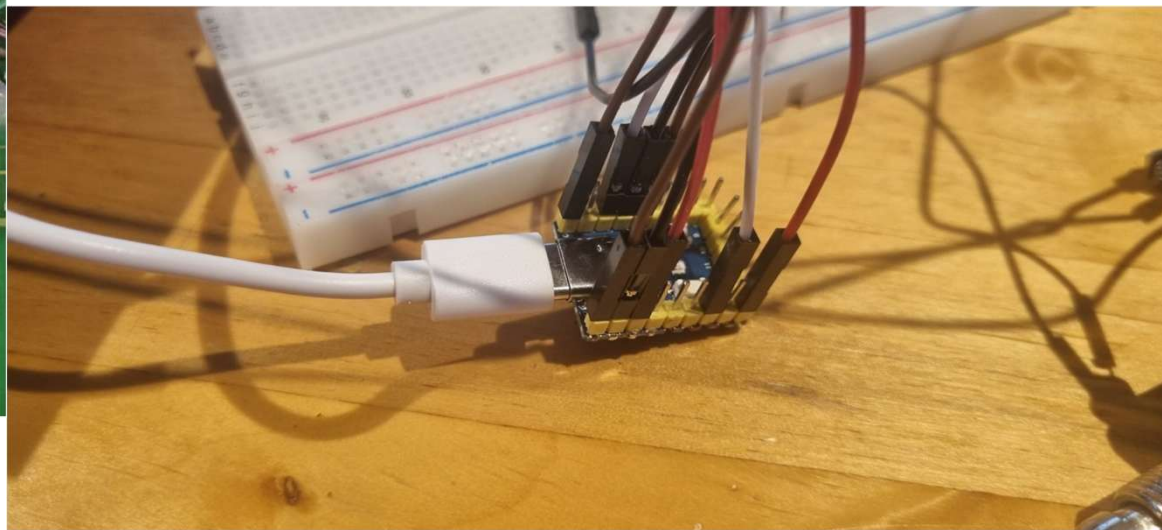
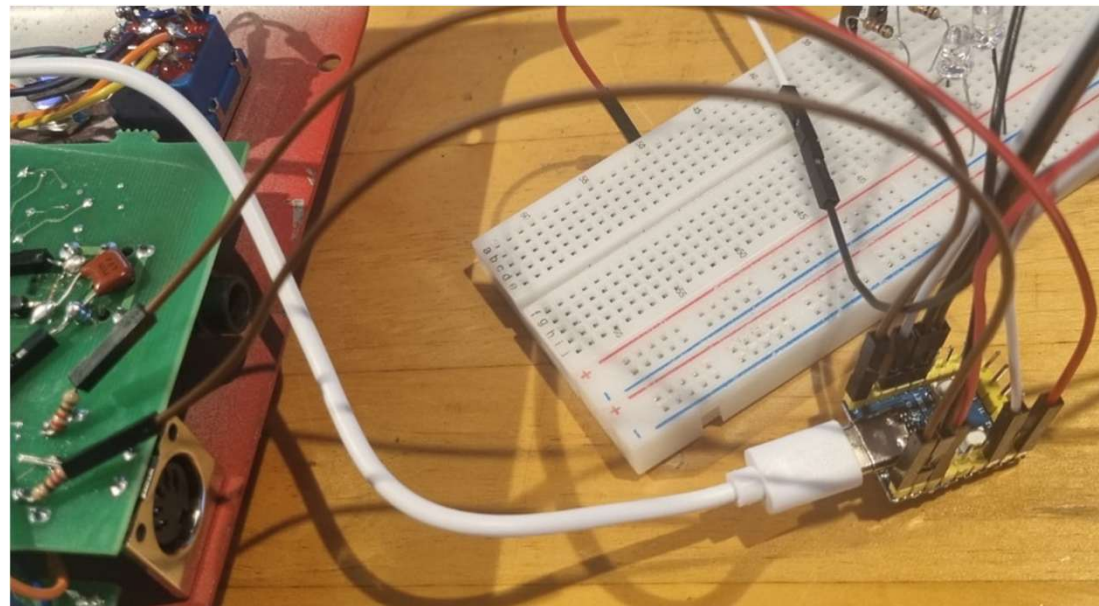
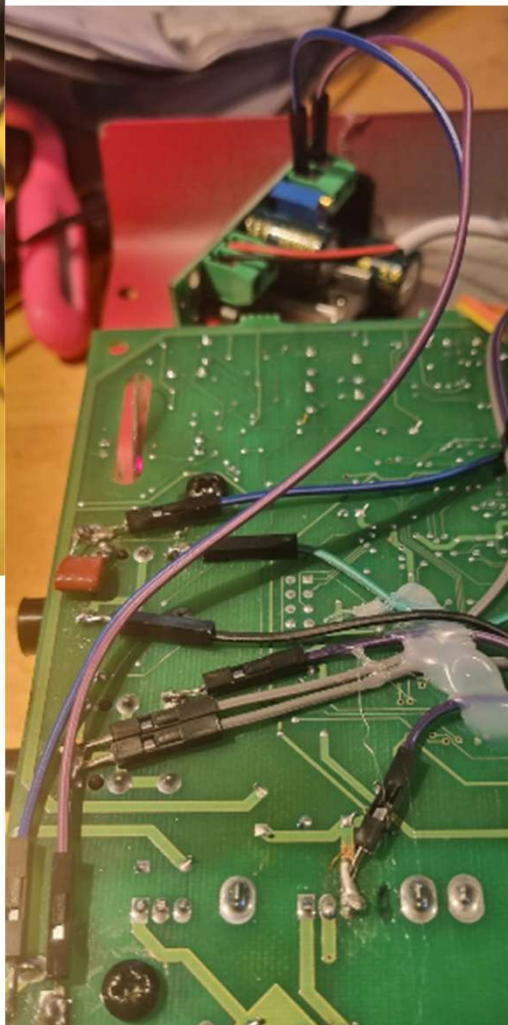
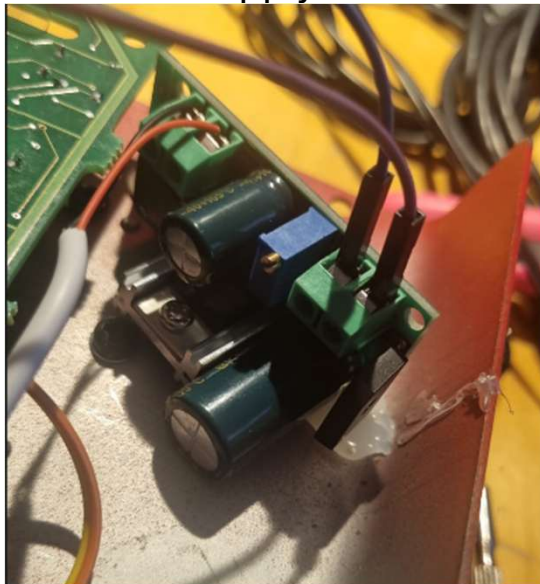
5V +/- !!!

USB Type-C

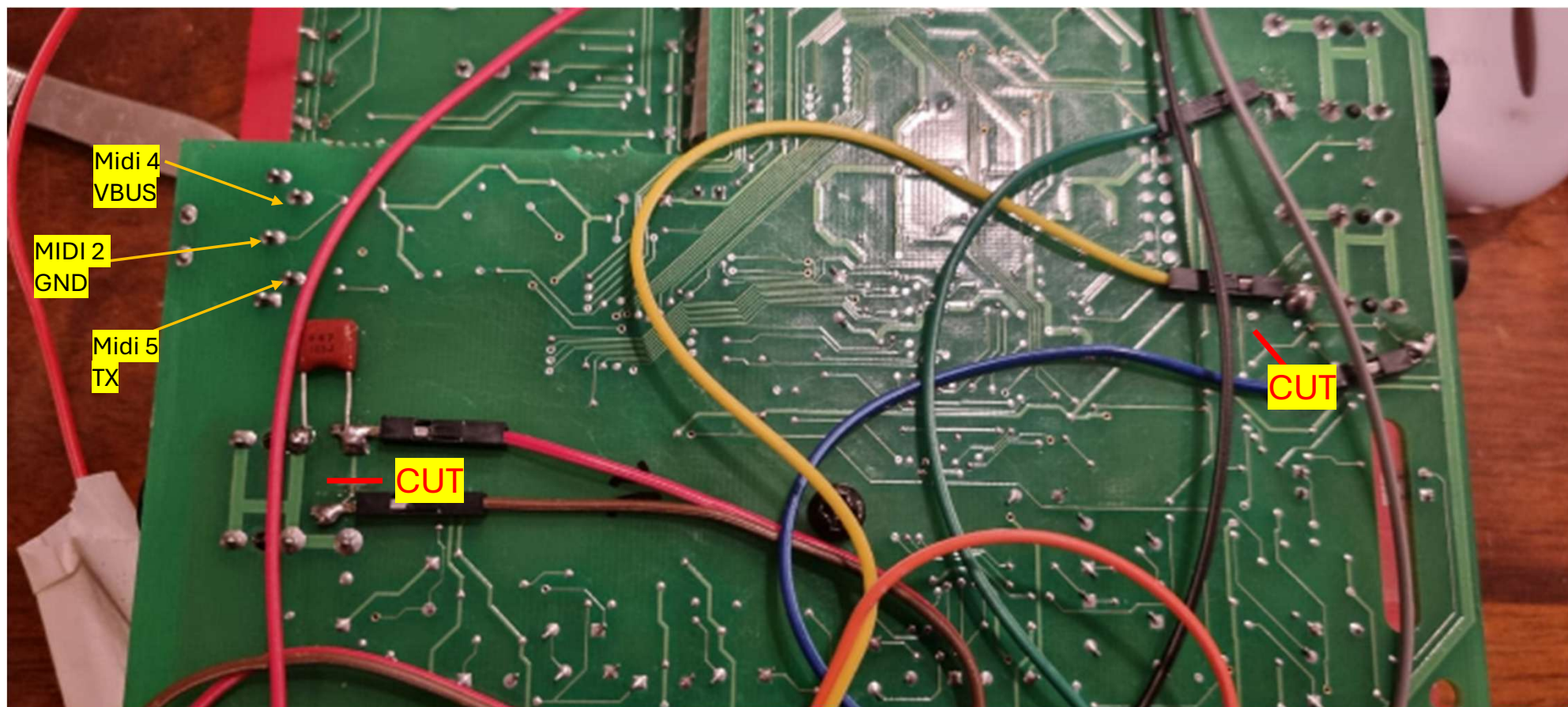
+3,3V



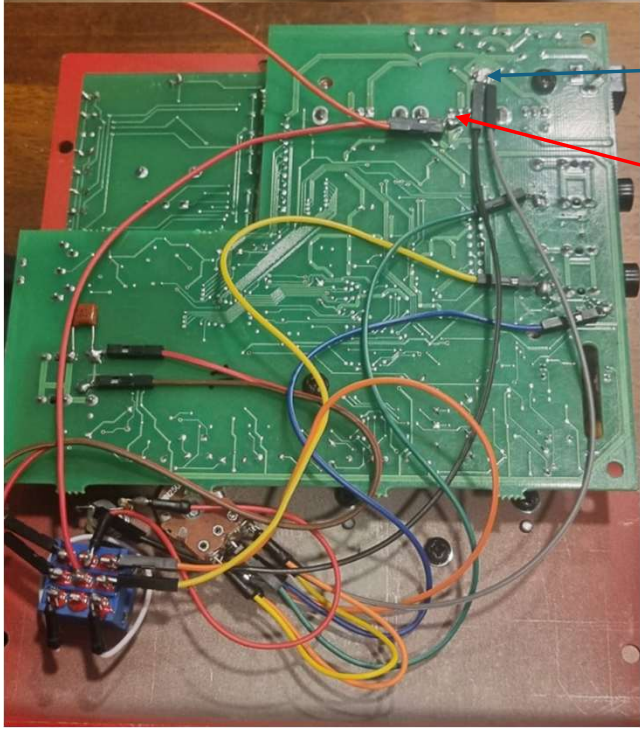
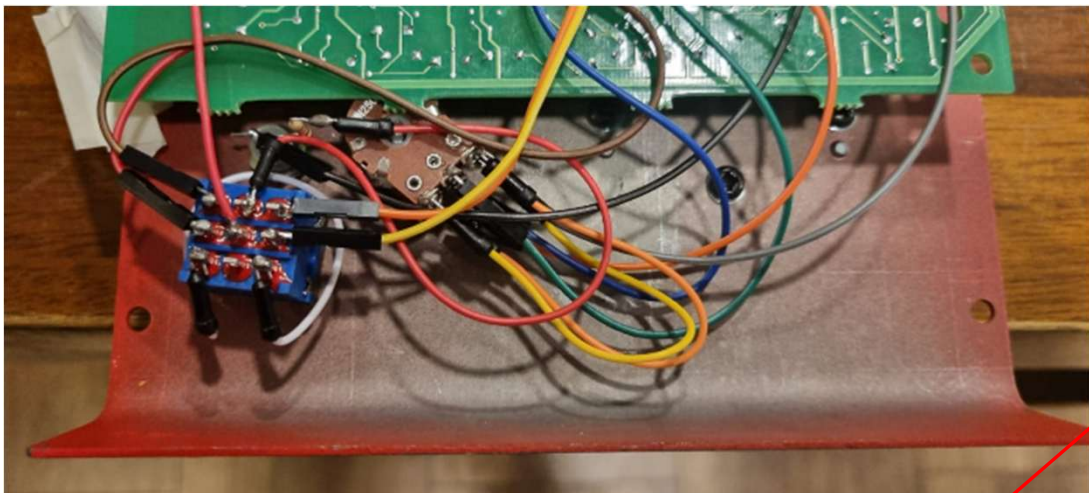
Power Supply





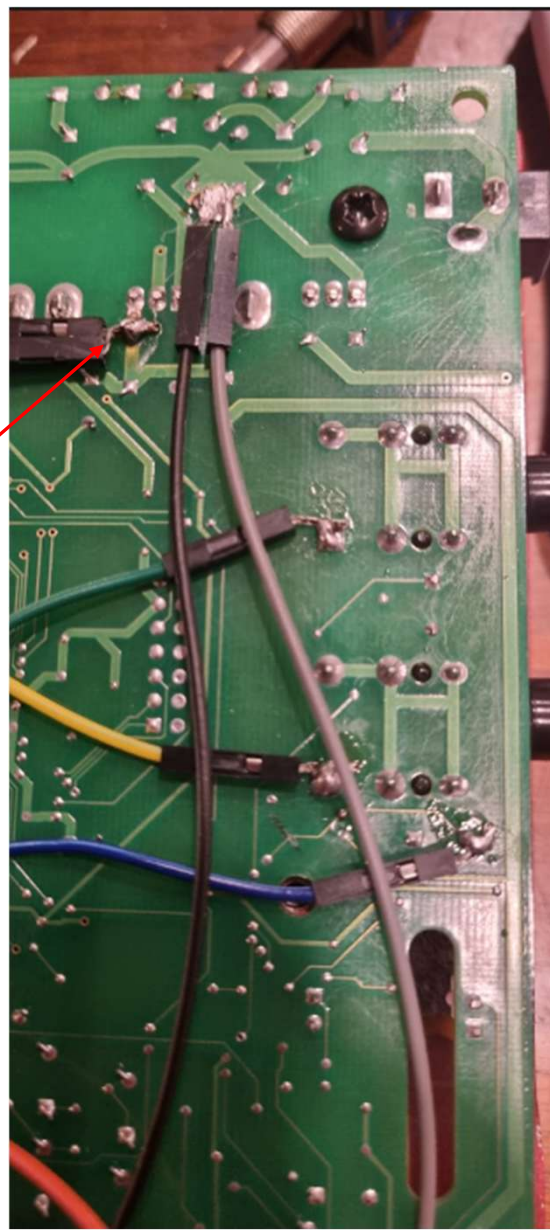




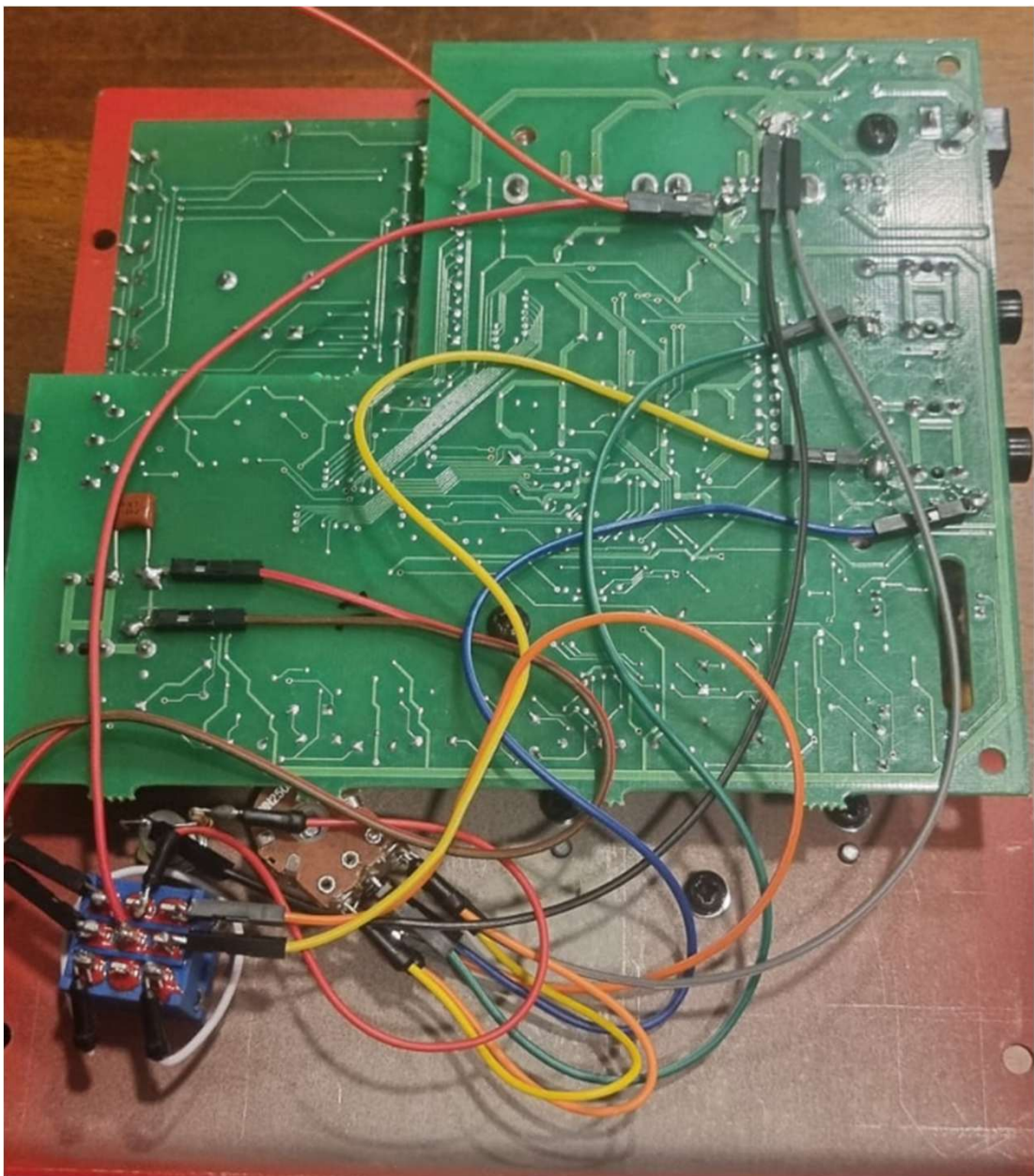


GND LED  
HERE!!!

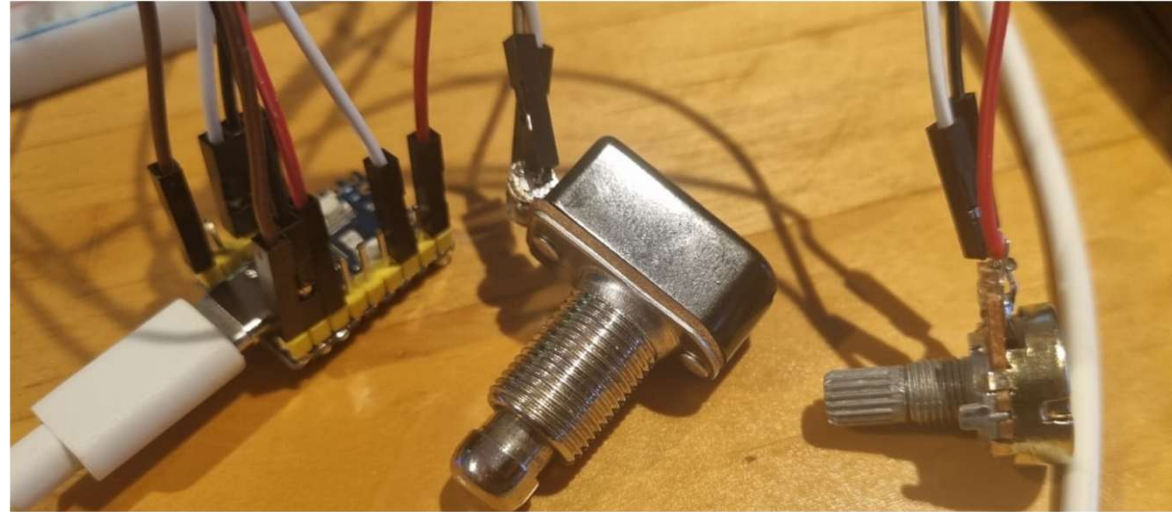
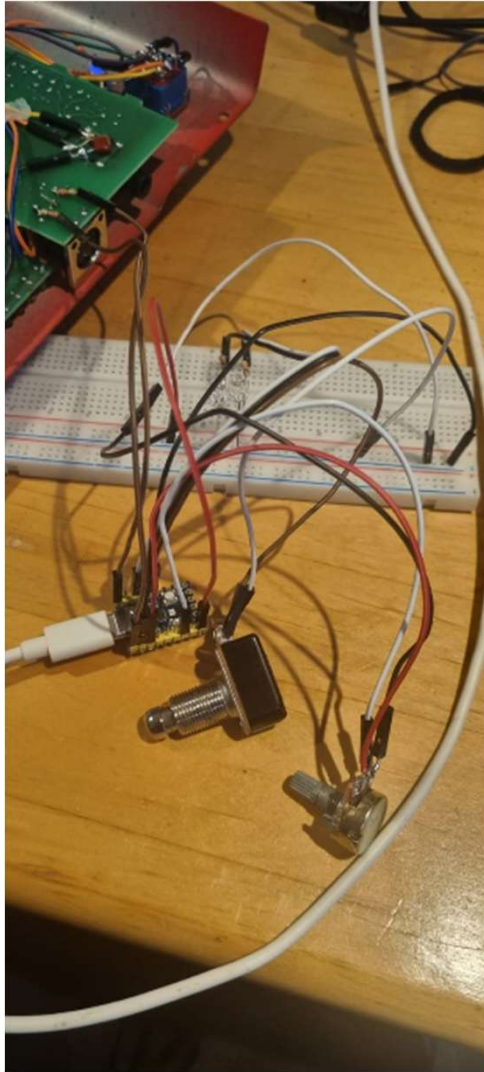
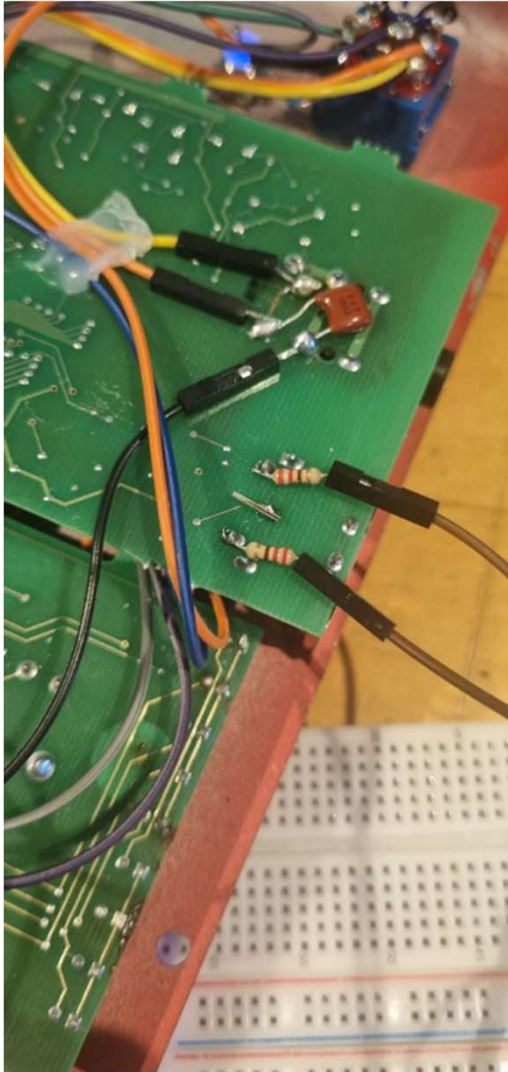
+5V LED  
HERE!!!







## Midi Test



<https://youtube.com/shorts/wjgEext1rCg>  
- 2 combinable effect presets