

Whammy 4 – Version 1.02

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



Calibartion

Midi Access

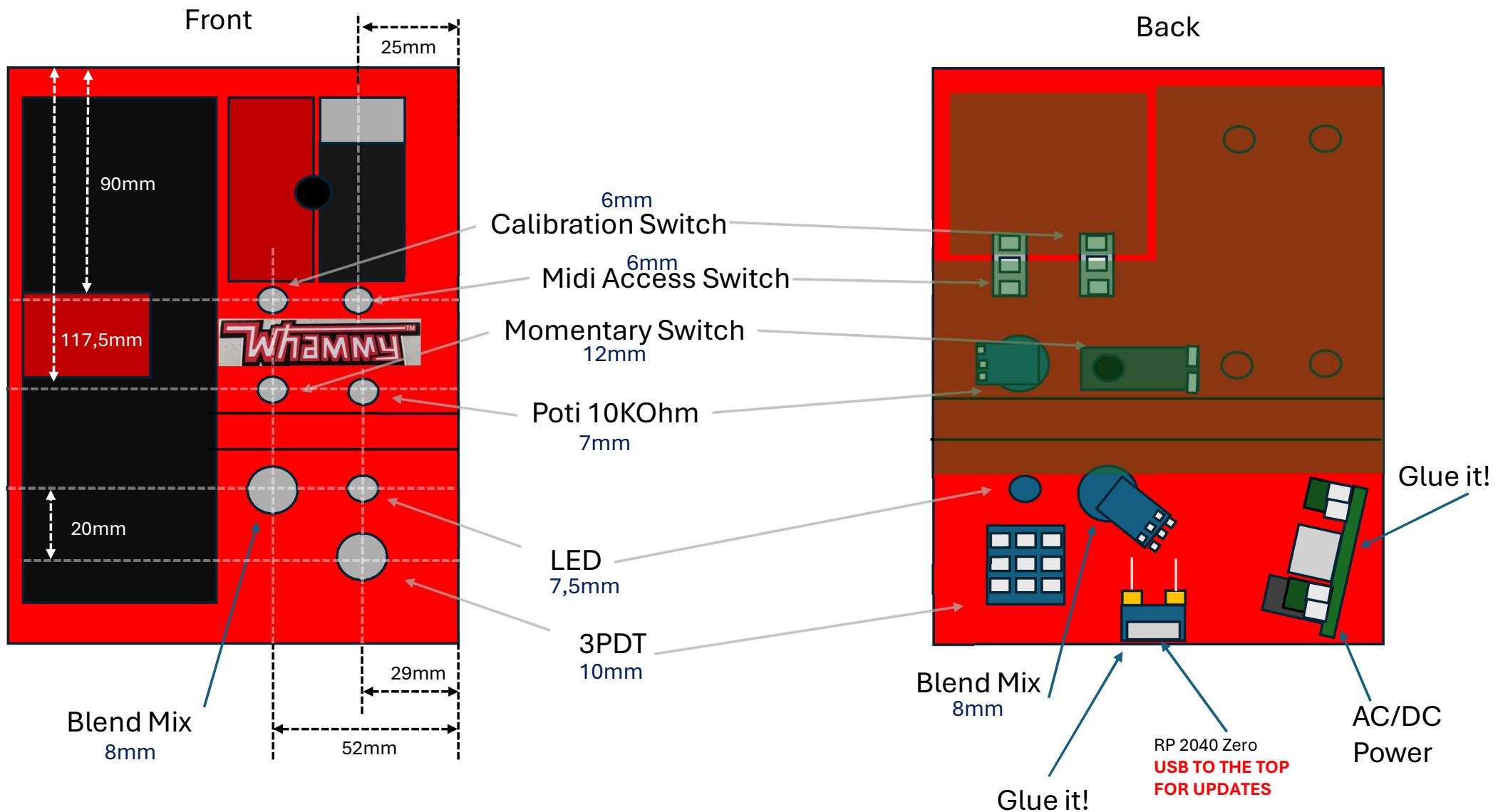
Shutter Speed

ShutterGate  
/ Change Effects

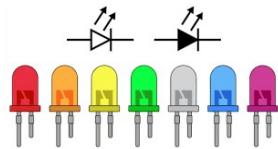
Blend Mix

LED On/OFF

Effect On/OFF



## Parts



1k $\Omega$  3x

1M $\Omega$

220 $\Omega$  2x



10nF  
(optional)



Toggle Switch 2x  
Midi Access /  
Calibration



Momentary  
(Original Part)



250k $\Omega$   
Blend

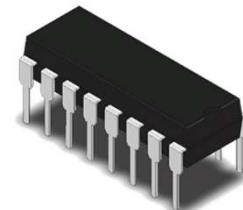


3PDT

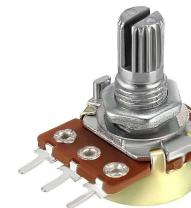
AC/DC  
LM2596HV



4053BE



10K $\Omega$



Raspberry Pi  
2040 Zero



## Midi Access



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

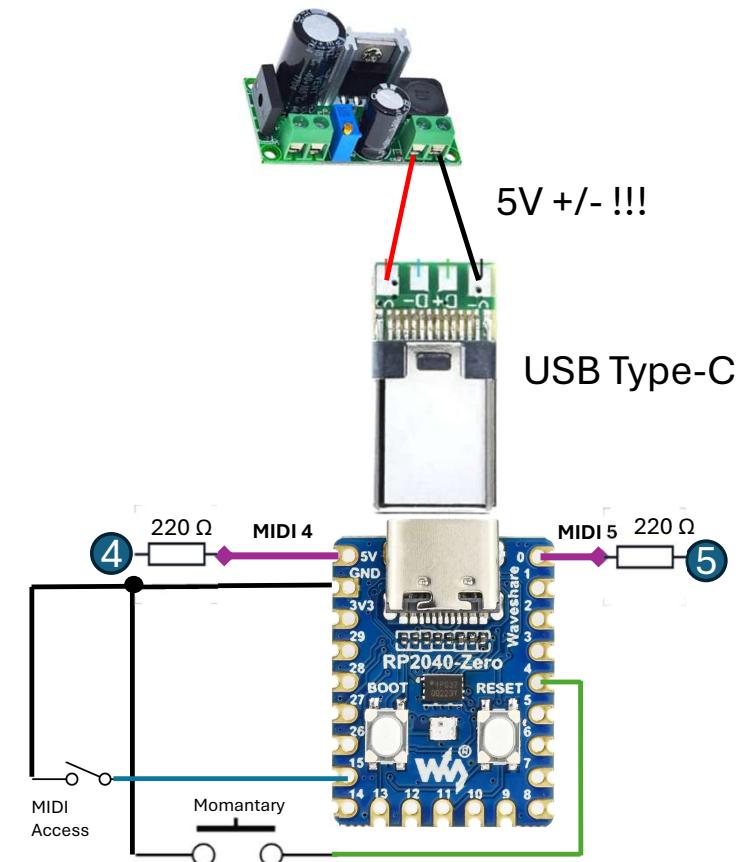


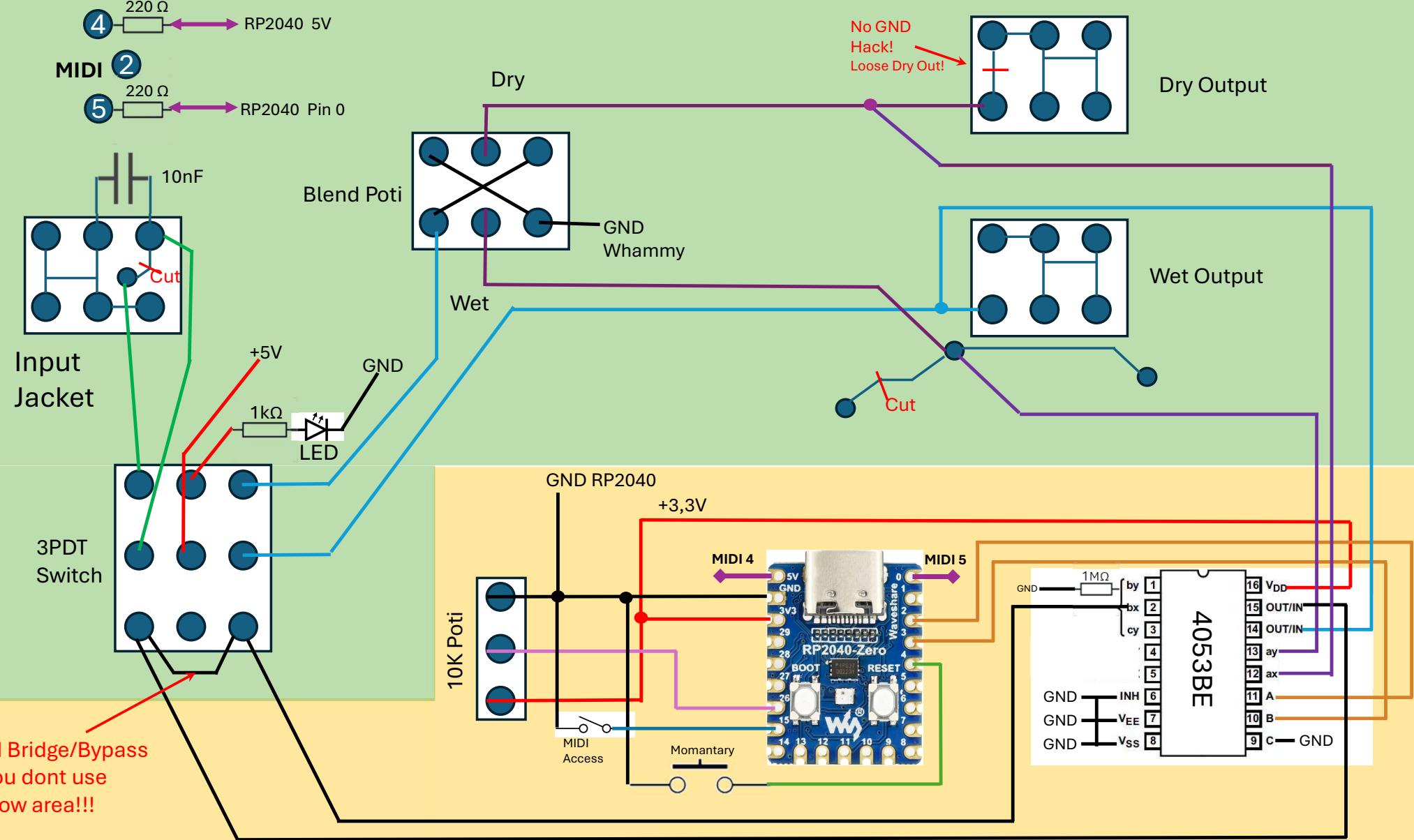
- Midi Access ON      Change Effect 1/2 for Shuttergate

Hold – Change Effect 1/2  
Double Tap – Jump Back

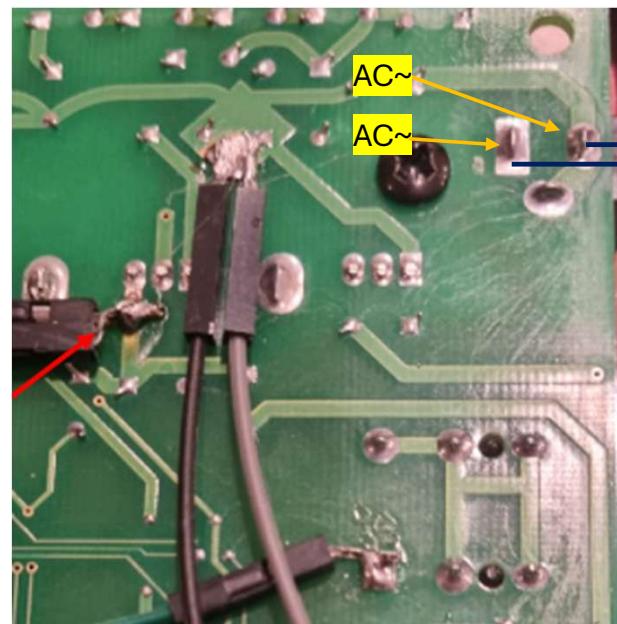
- Midi Access OFF    - Momentary/Shutter Effect 1/2  
                        - Double Tap – Change Effect

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

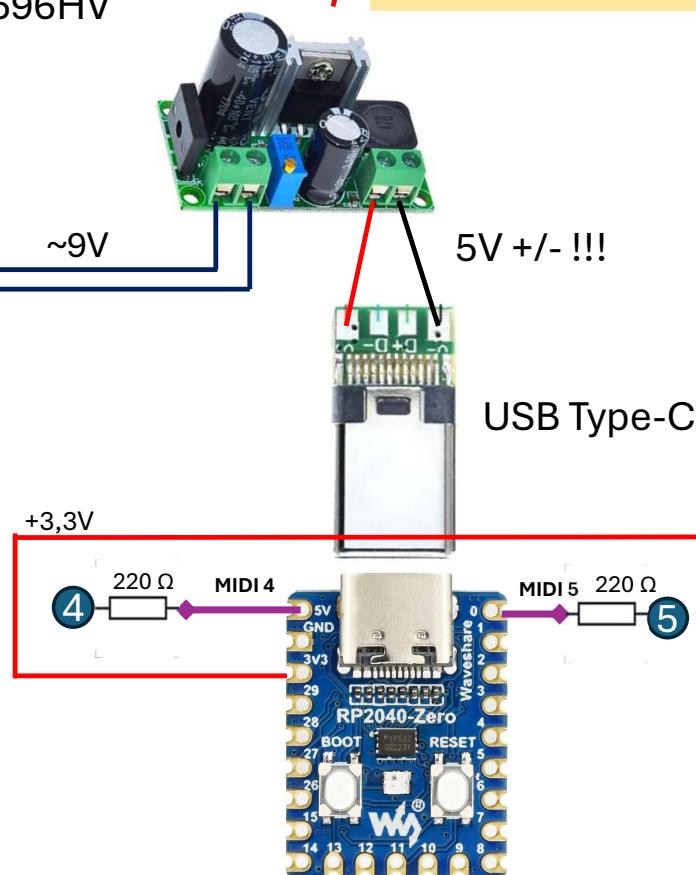




## Power Supply

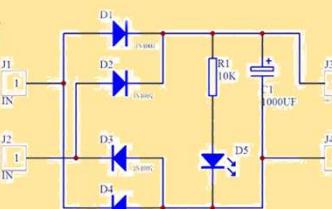


AC/DC Converter  
LM2596HV



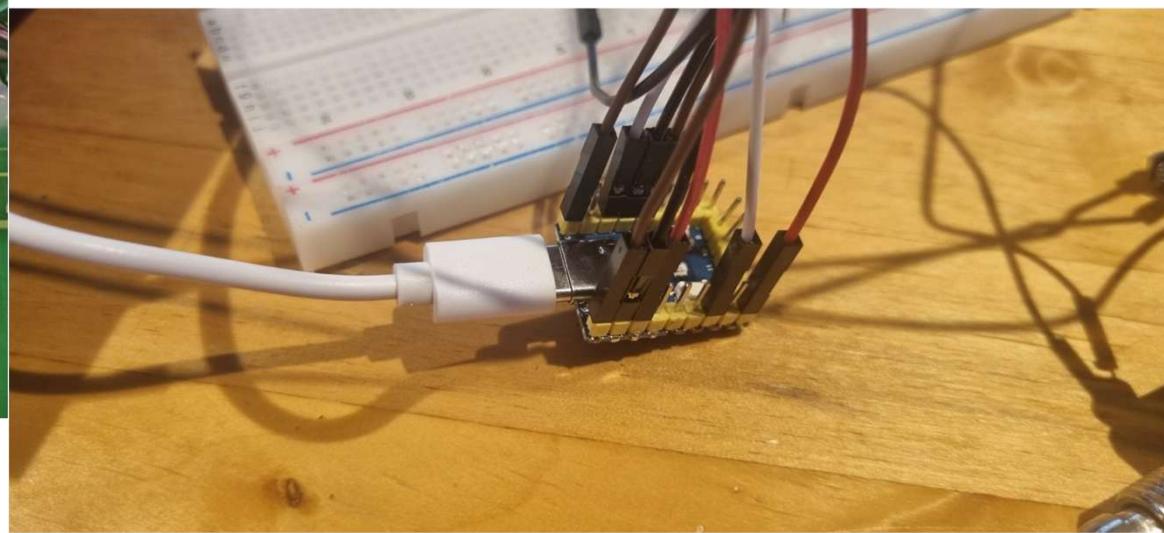
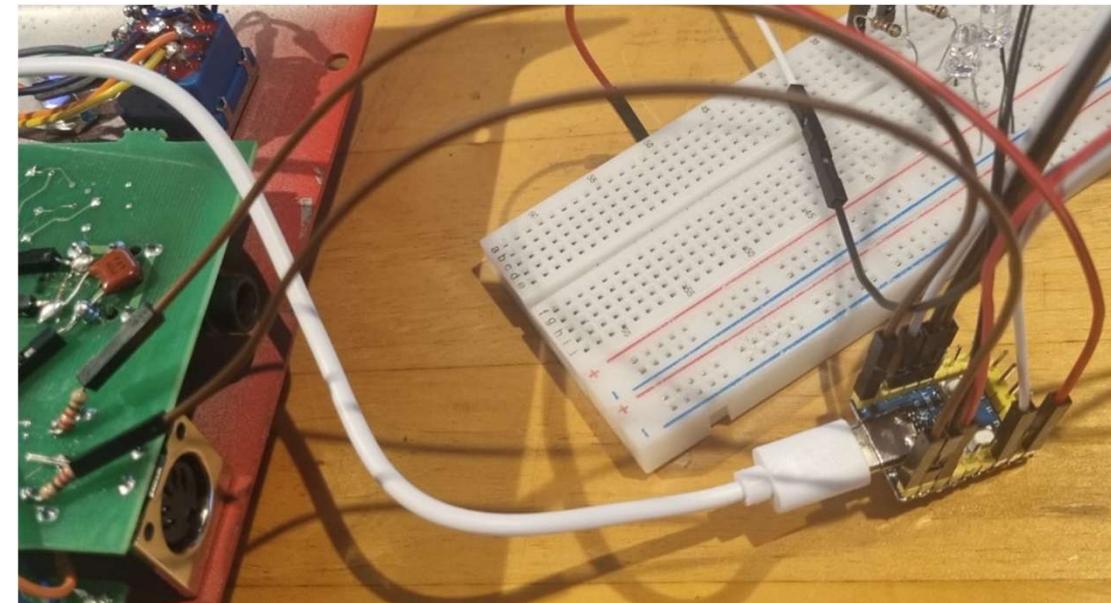
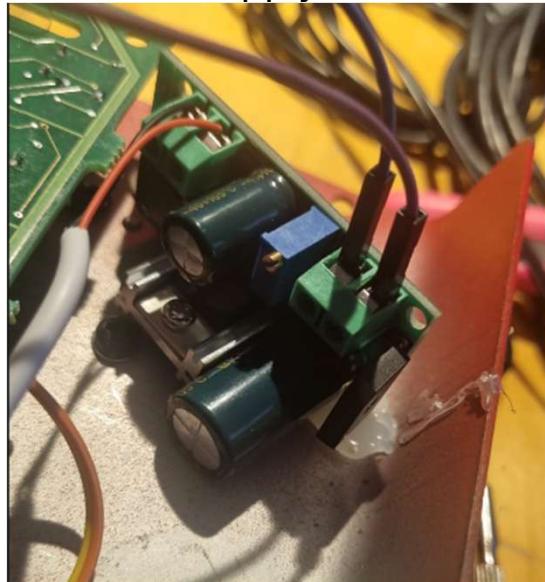
AC/DC Converter  
ALTERNATIVE!!!

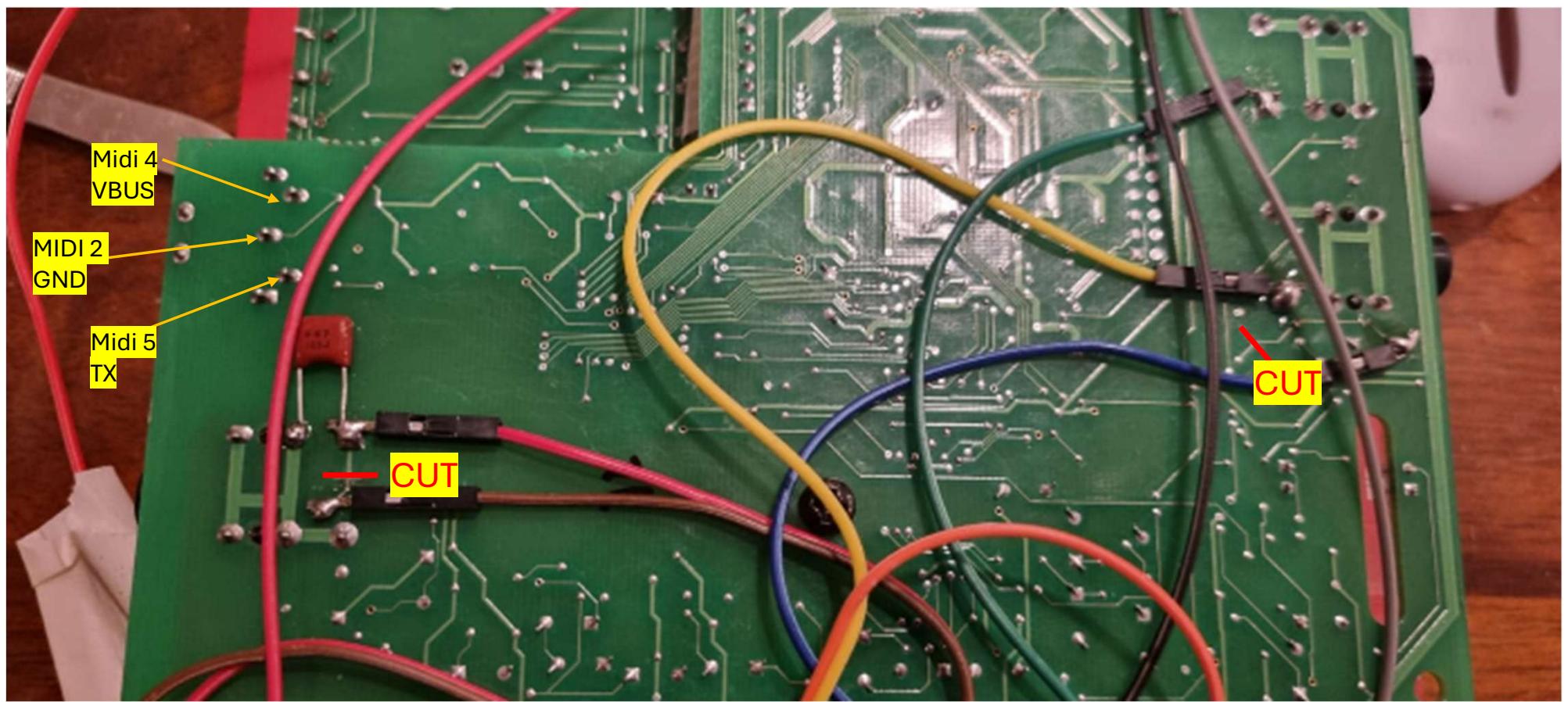
AC/DC Fullbridge

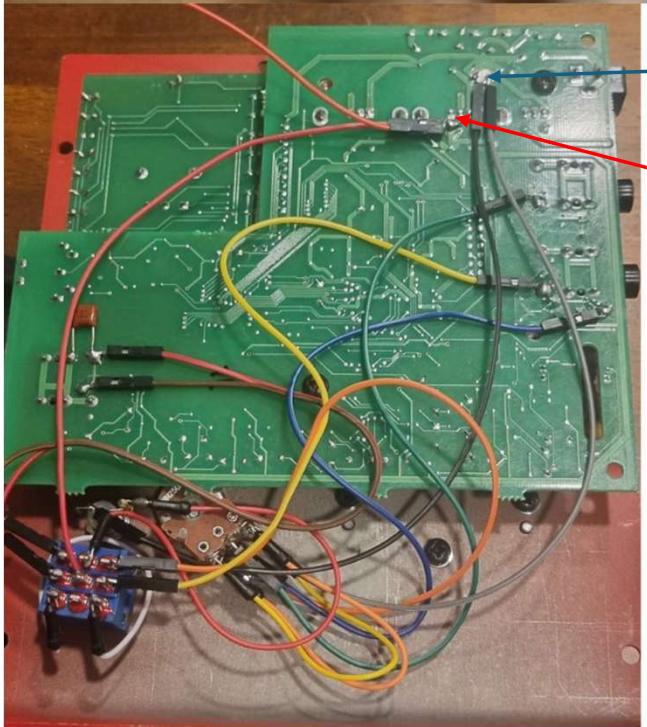
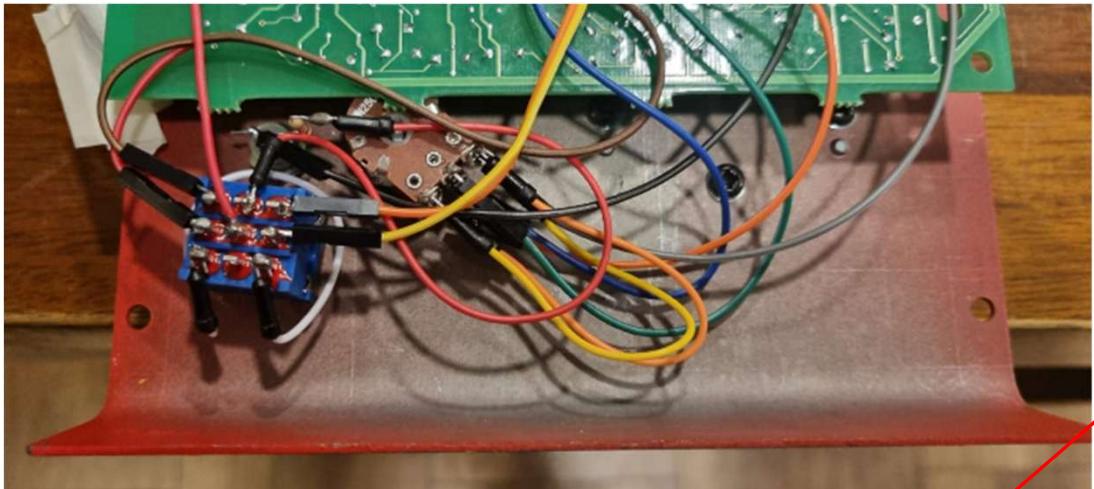


MP1584EN

## Power Supply

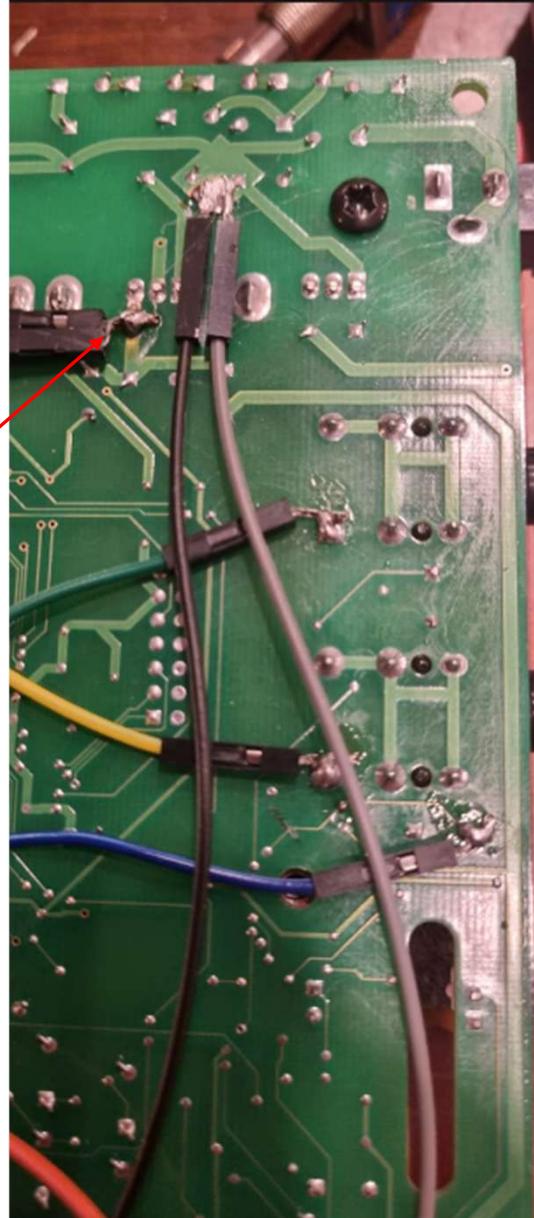


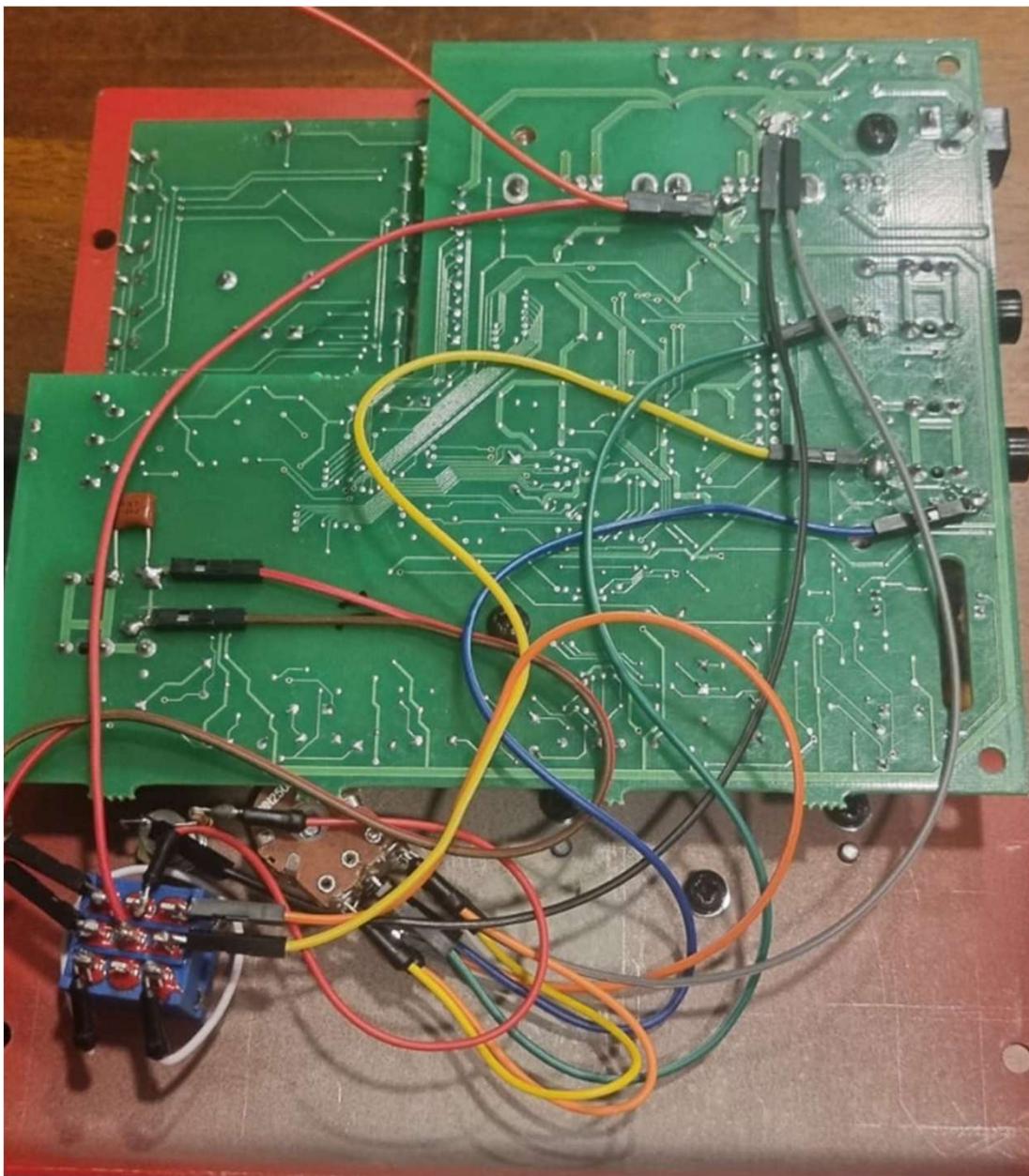




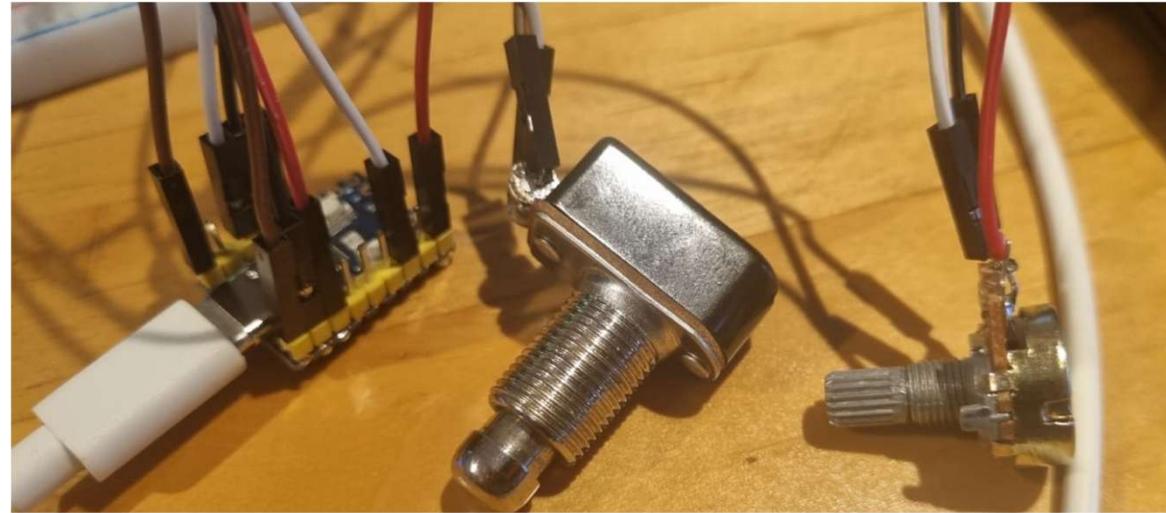
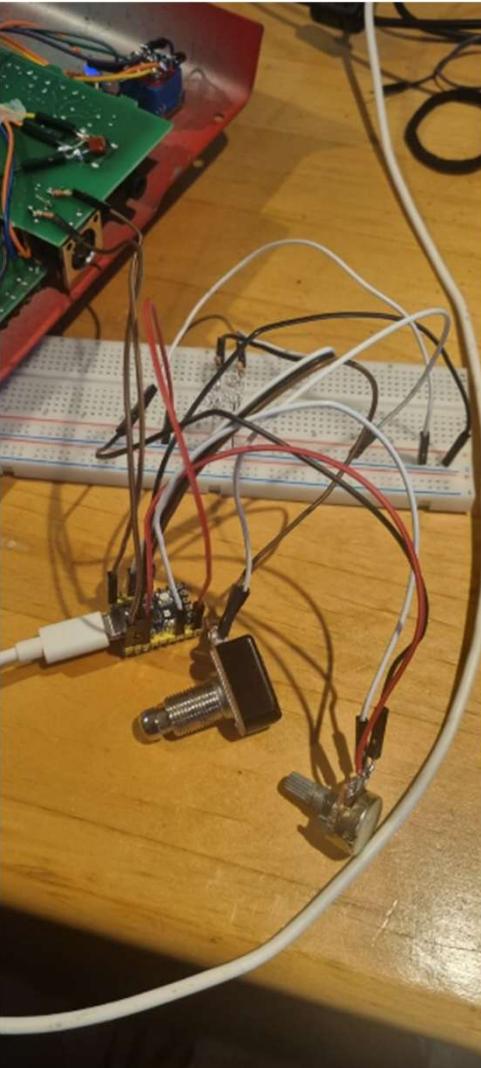
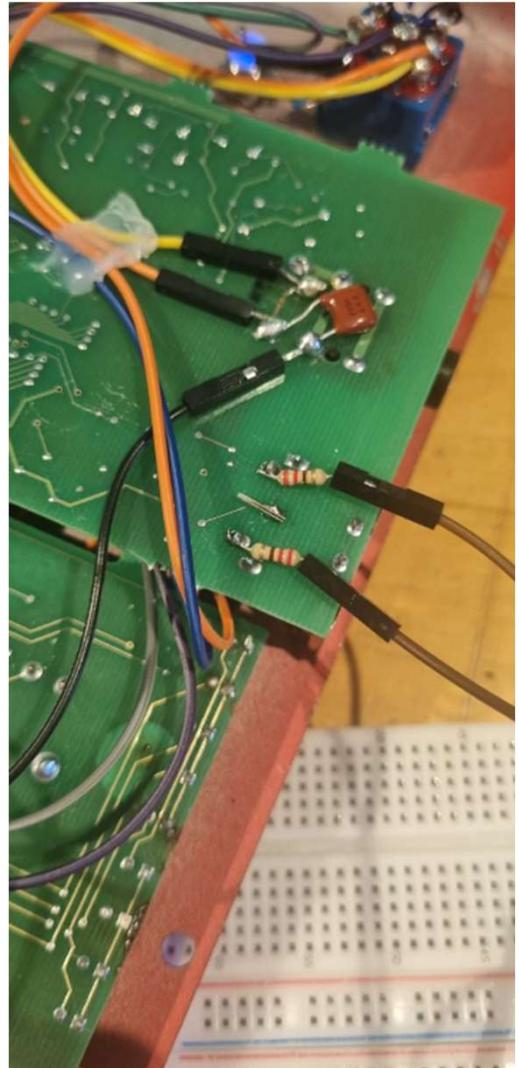
GND LED  
HERE!!!

+5V LED  
HERE!!!





## Midi Test



<https://youtube.com/shorts/wjgEext1rCg>

- 2 combinable effect presets