

Whammy 4 – Version 1.04
By melatroid

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



Calibration

Midi Access

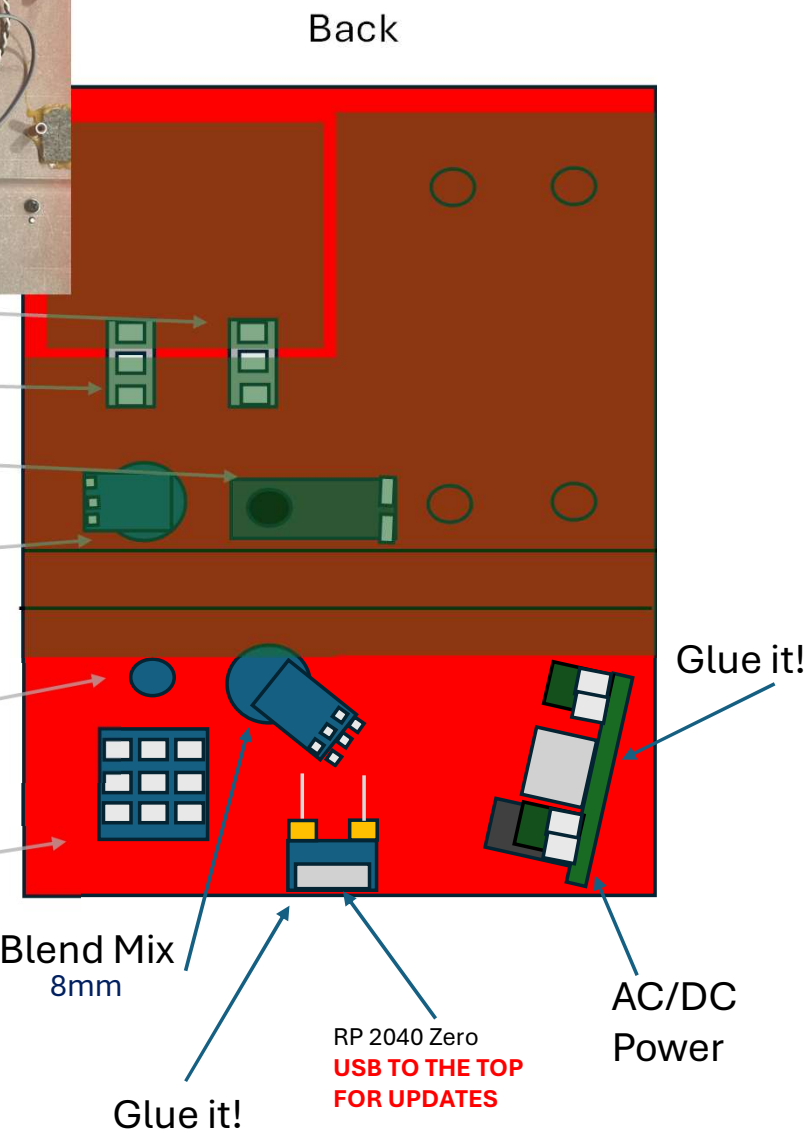
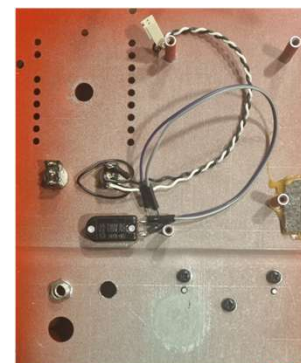
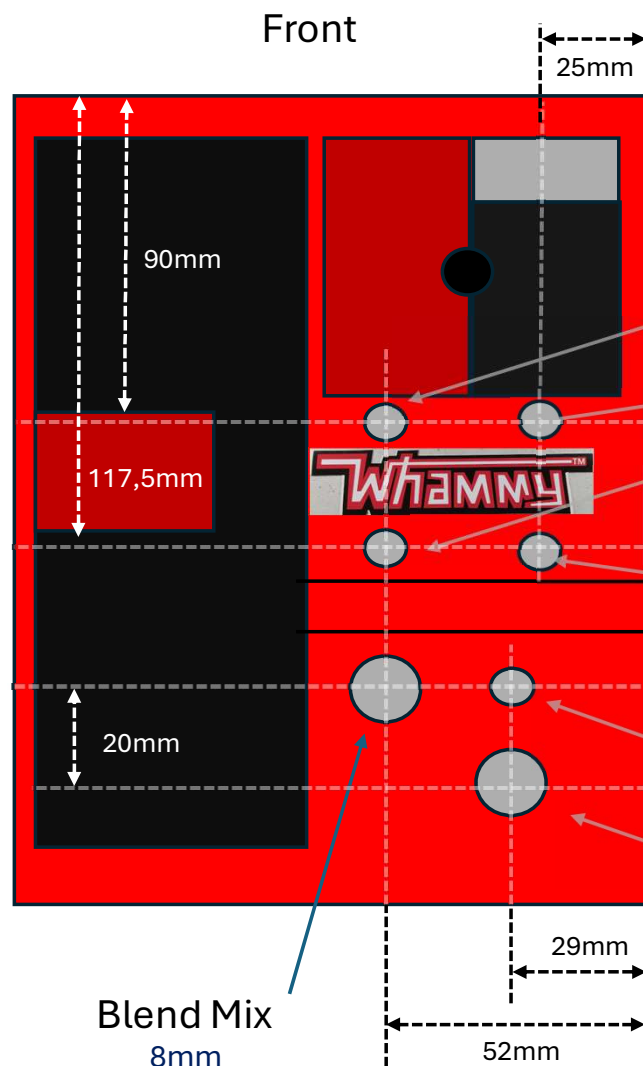
Shutter Speed

ShutterGate / Change Effects

Blend Mix

LED On/OFF

Effect On/OFF



Calibration Switch

Midi Access Switch

Momentary Switch

Poti 10KOhm

LED

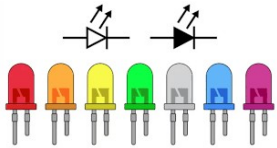
3PDT

Blend Mix

RP 2040 Zero
USB TO THE TOP
FOR UPDATES

AC/DC
Power

Parts



1k Ω 3x

1M Ω

220 Ω 2x



10nF
(optional)



Toggle Switch 2x
Midi Access /
Calibration



Momantary
(Original Part)



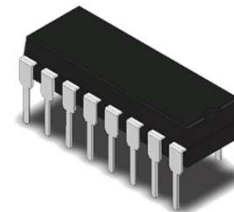
250k Ω
Blend



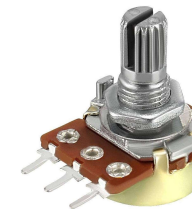
3PDT



AC/DC
LM2596HV



4053BE



10K Ω

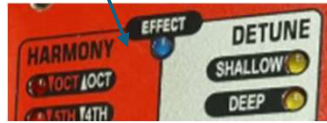


Raspberry Pi
2040 Zero

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

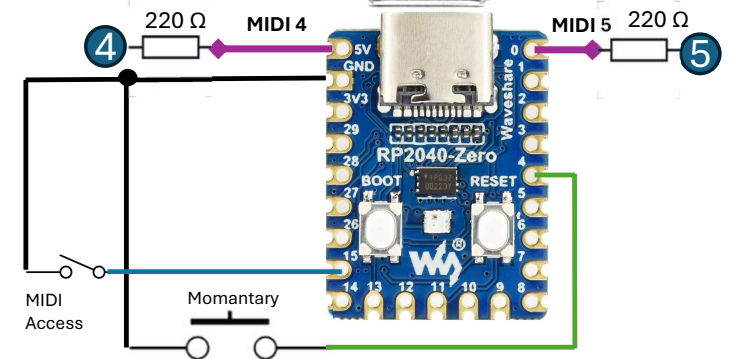
<https://youtube.com/shorts/yBMvel-sLH8>

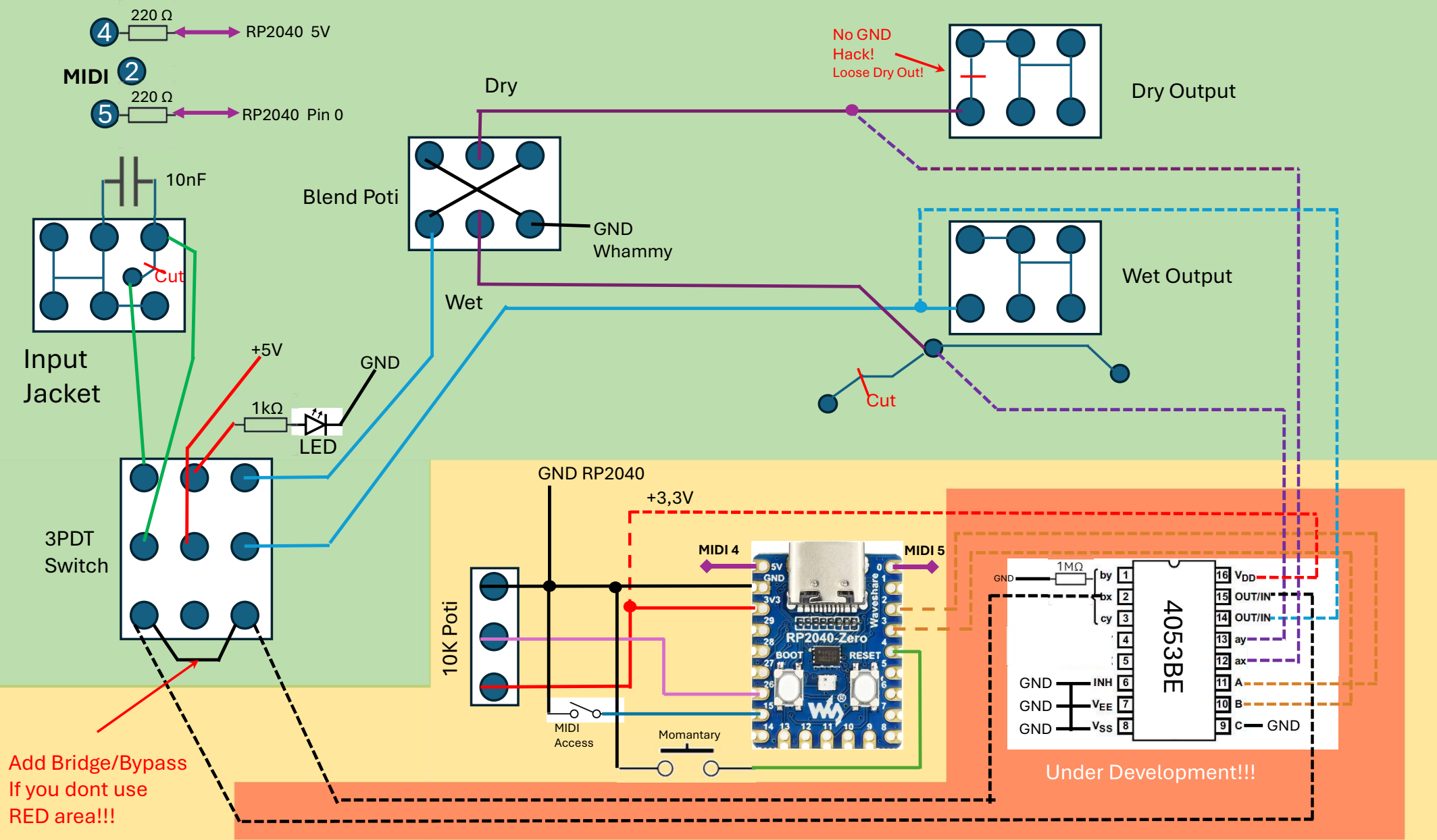


5V +/- !!!



USB Type-C





Power Supply



AC/DC Converter
LM2596HV



~9V

5V +/- !!!

USB Type-C

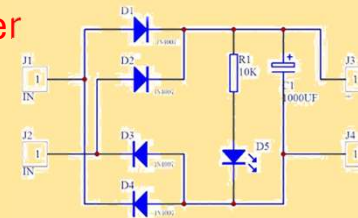


+3,3V



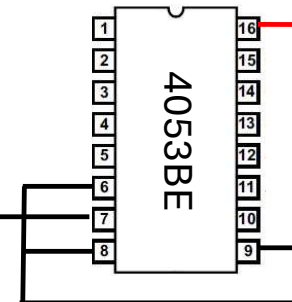
AC/DC Fullbridge

AC/DC Converter
ALTERNATIVE!!!

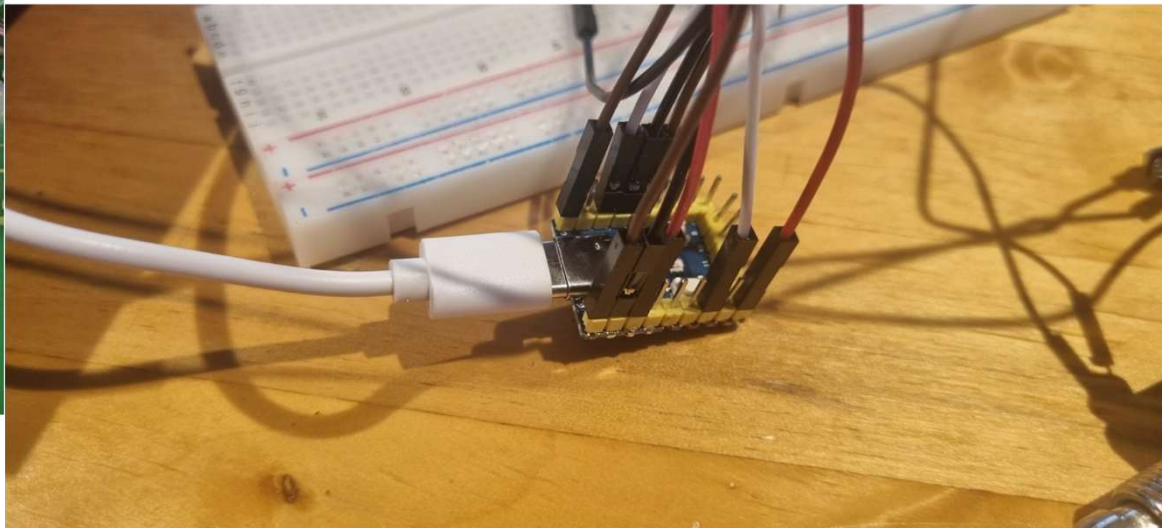
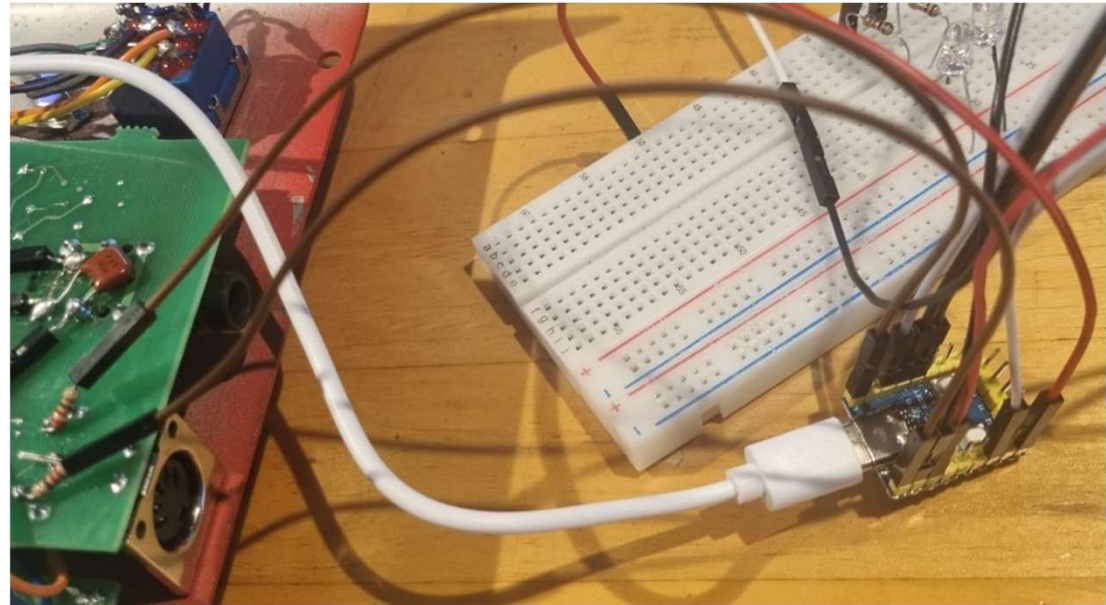
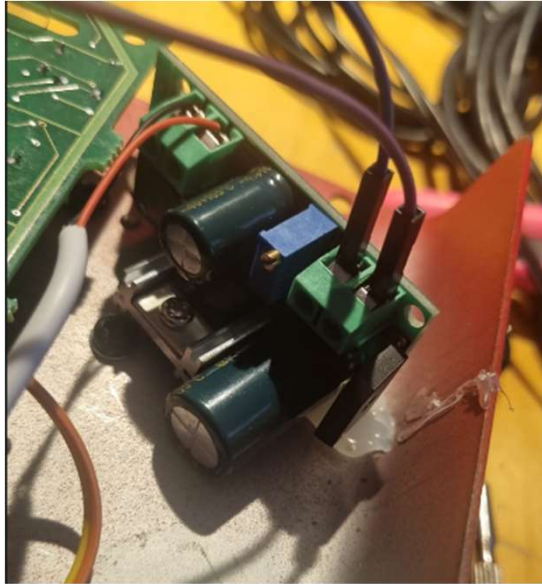


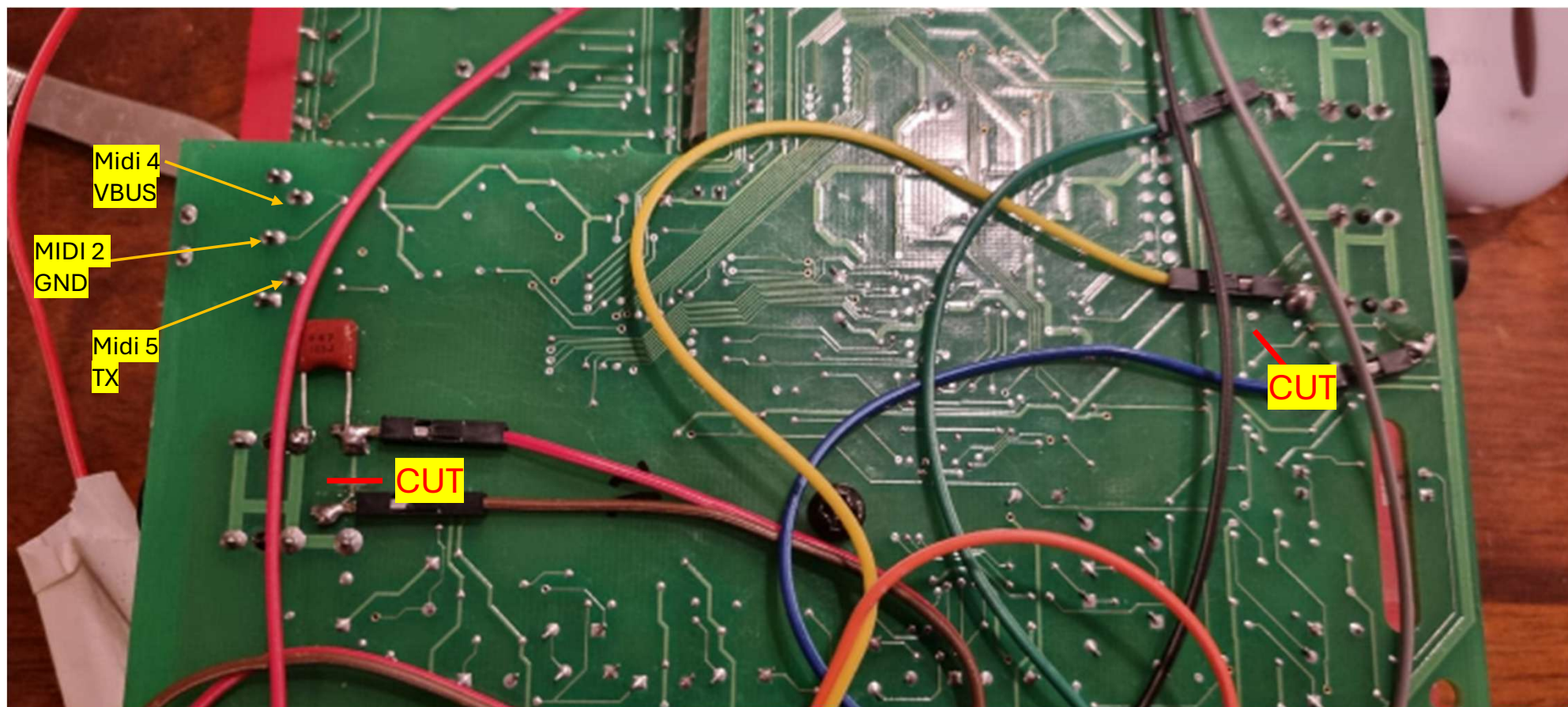
MP1584EN

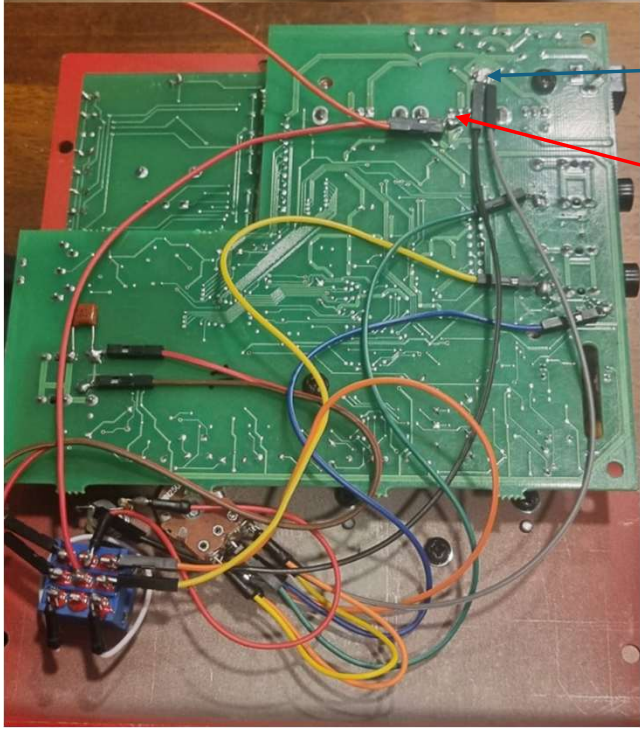
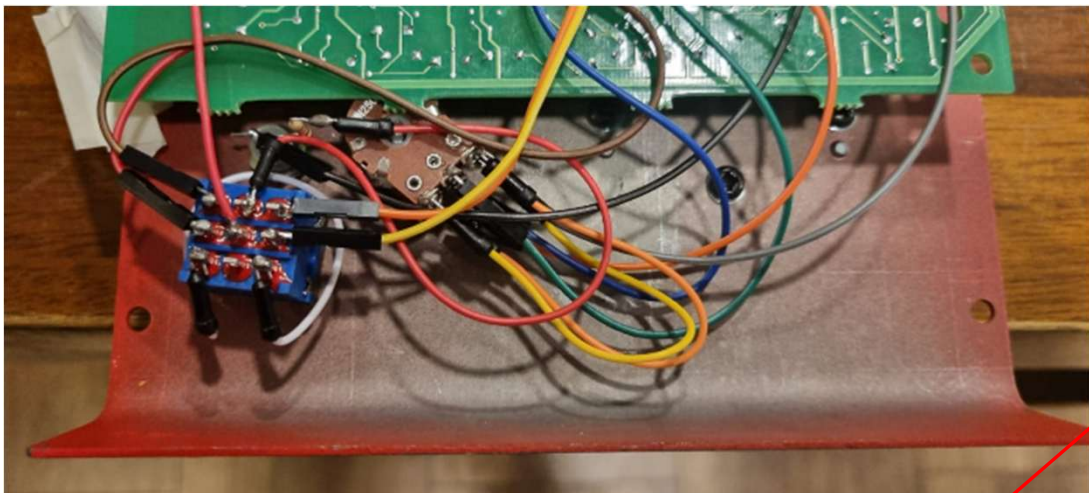
4053BE



Power Supply

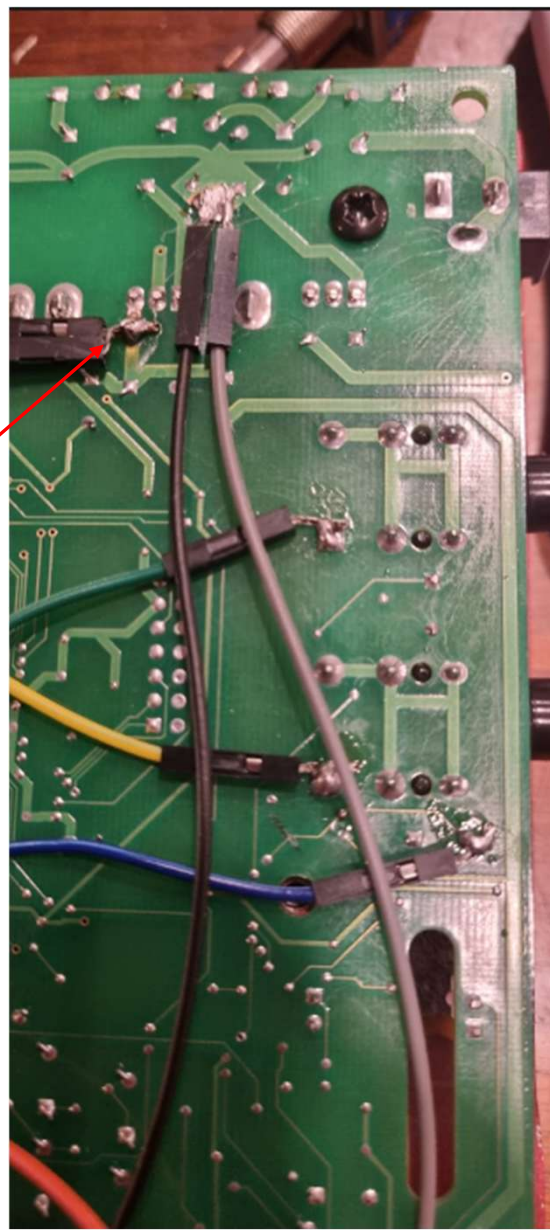


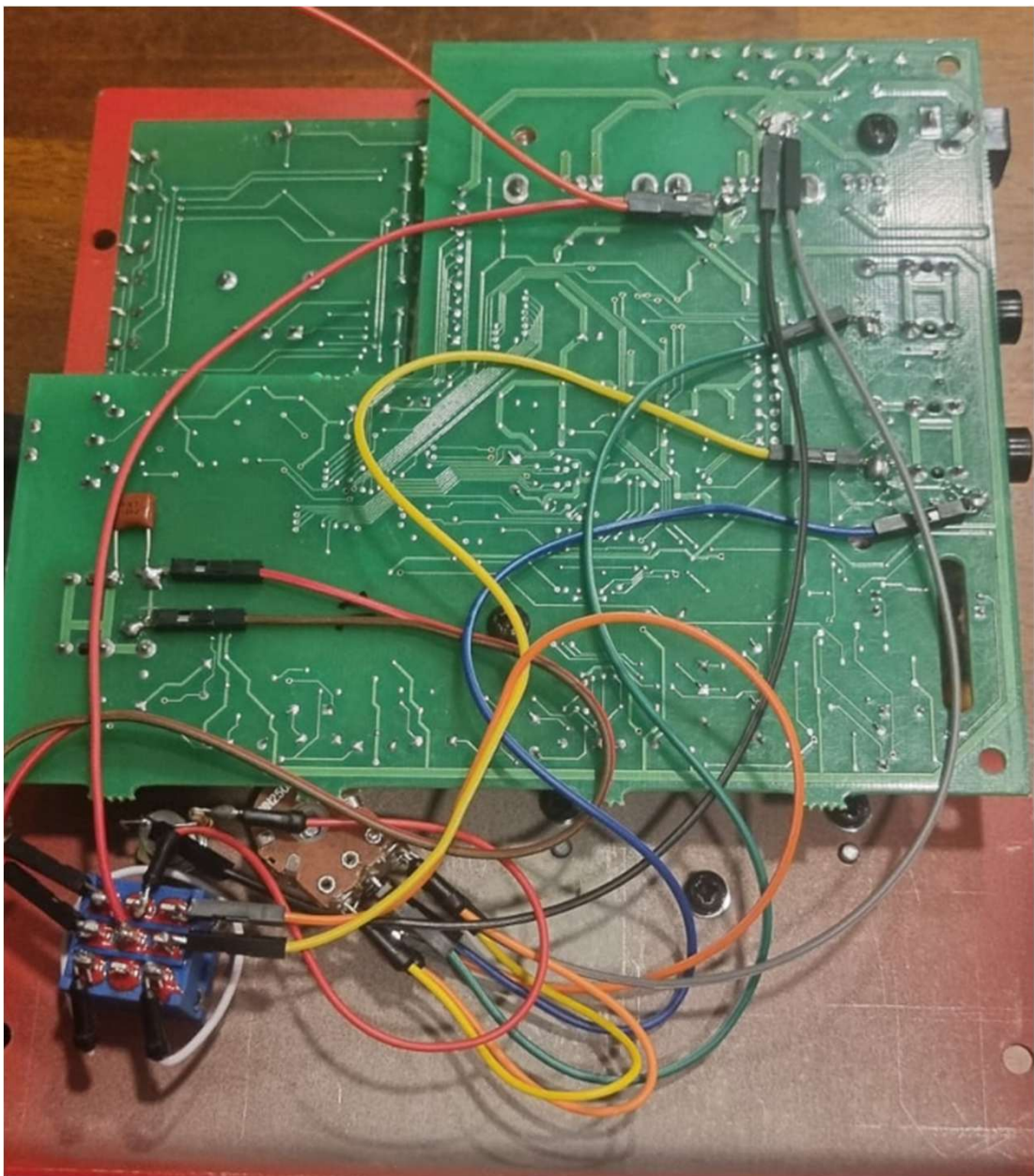




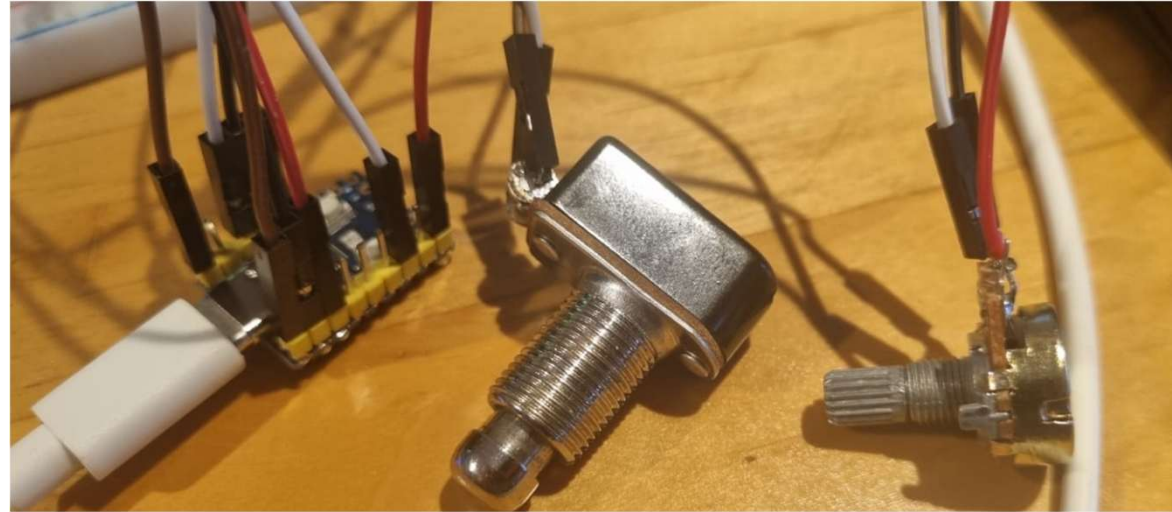
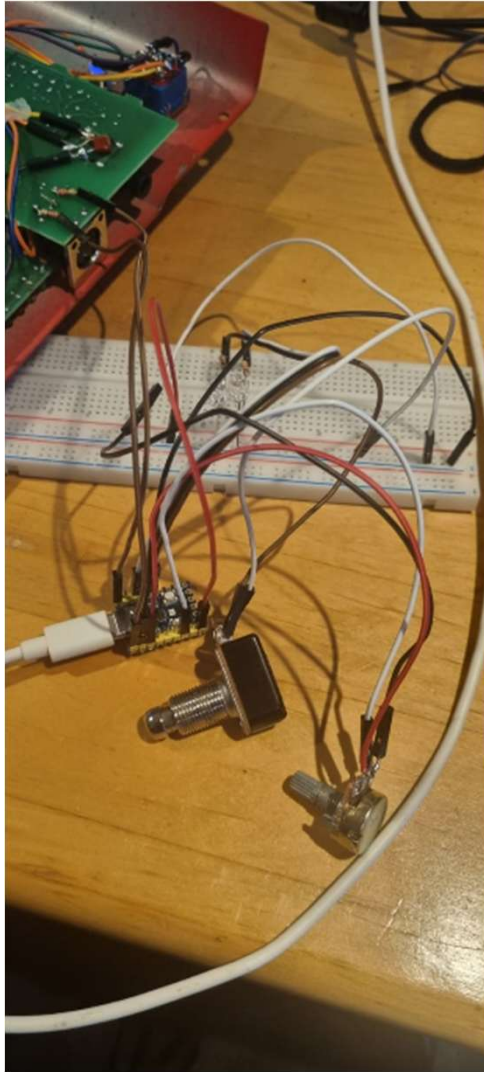
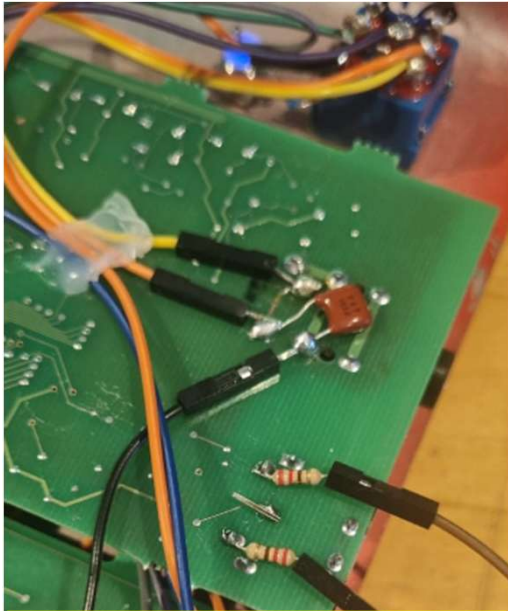
GND LED
HERE!!!

+5V LED
HERE!!!





Midi Test



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

- 2 combinable effect presets