Whammy 4 – Version 1.03
By melatroid

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

Calibartion

Midi Access

Shutter Speed

ShutterGate
/ Change Effects

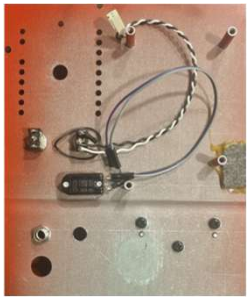
Blend Mix

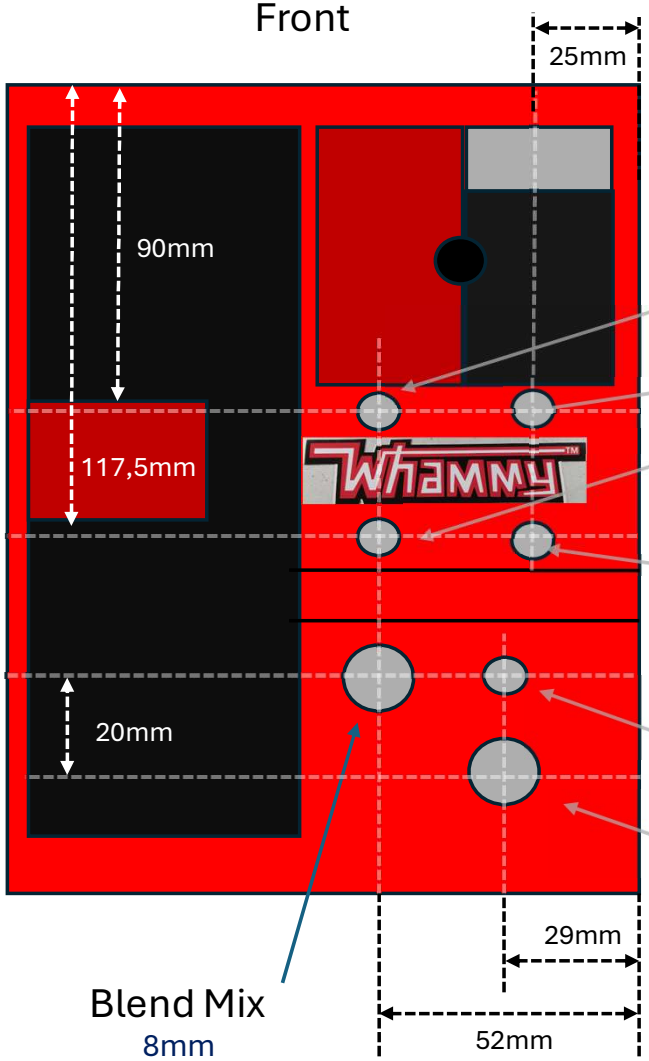
LED On/OFF

Effect On/OFF

Front

Back





6mm
Calibration Switch

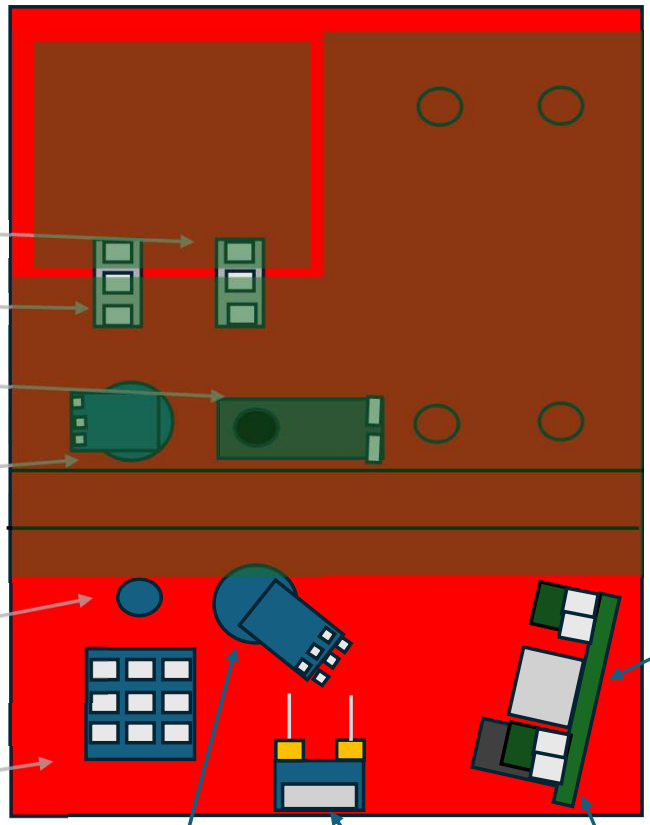
6mm
Midi Access Switch

Momentary Switch
12mm

Poti 10KOhm
7mm

LED
7,5mm

3PDT
10mm



Glue it!

Blend Mix
8mm

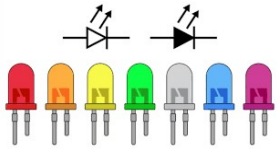
AC/DC
Power

RP 2040 Zero
USB TO THE TOP
FOR UPDATES

Glue it!

Blend Mix
8mm

Parts



1kΩ 3x

1MΩ

220Ω 2x

10nF
(optional)

Toogle Switch 2x
Midi Access /
Calibration

Momantary
(Original Part)

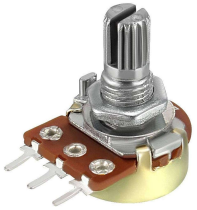
250kΩ
Blend

3PDT

AC/DC
LM2596HV

4053BE

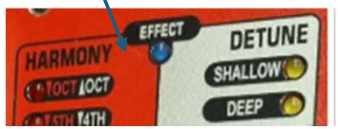
10KΩ



Raspberry Pi
2040 Zero

Midi Access

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

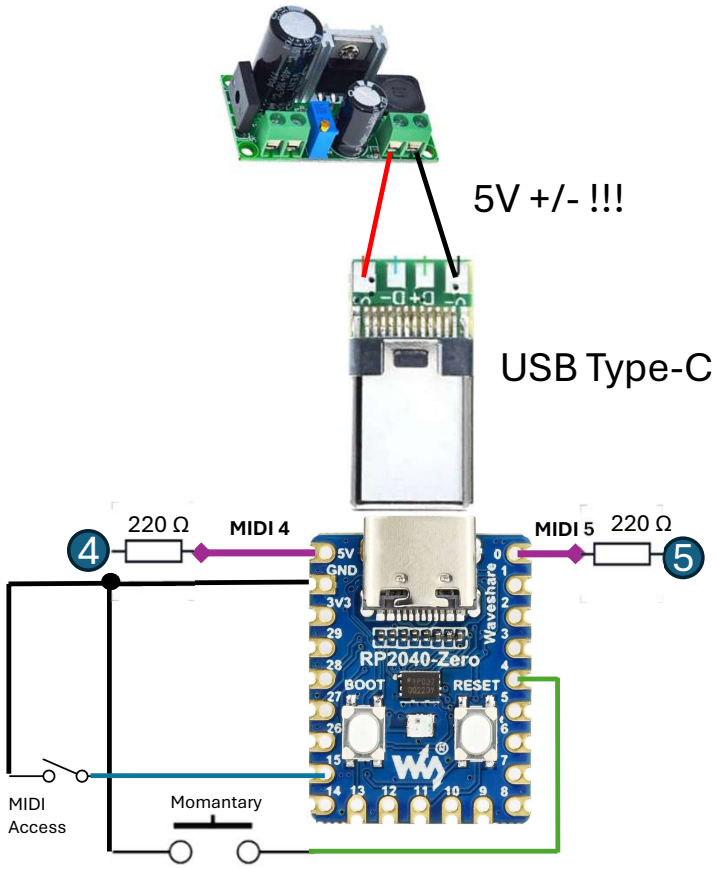


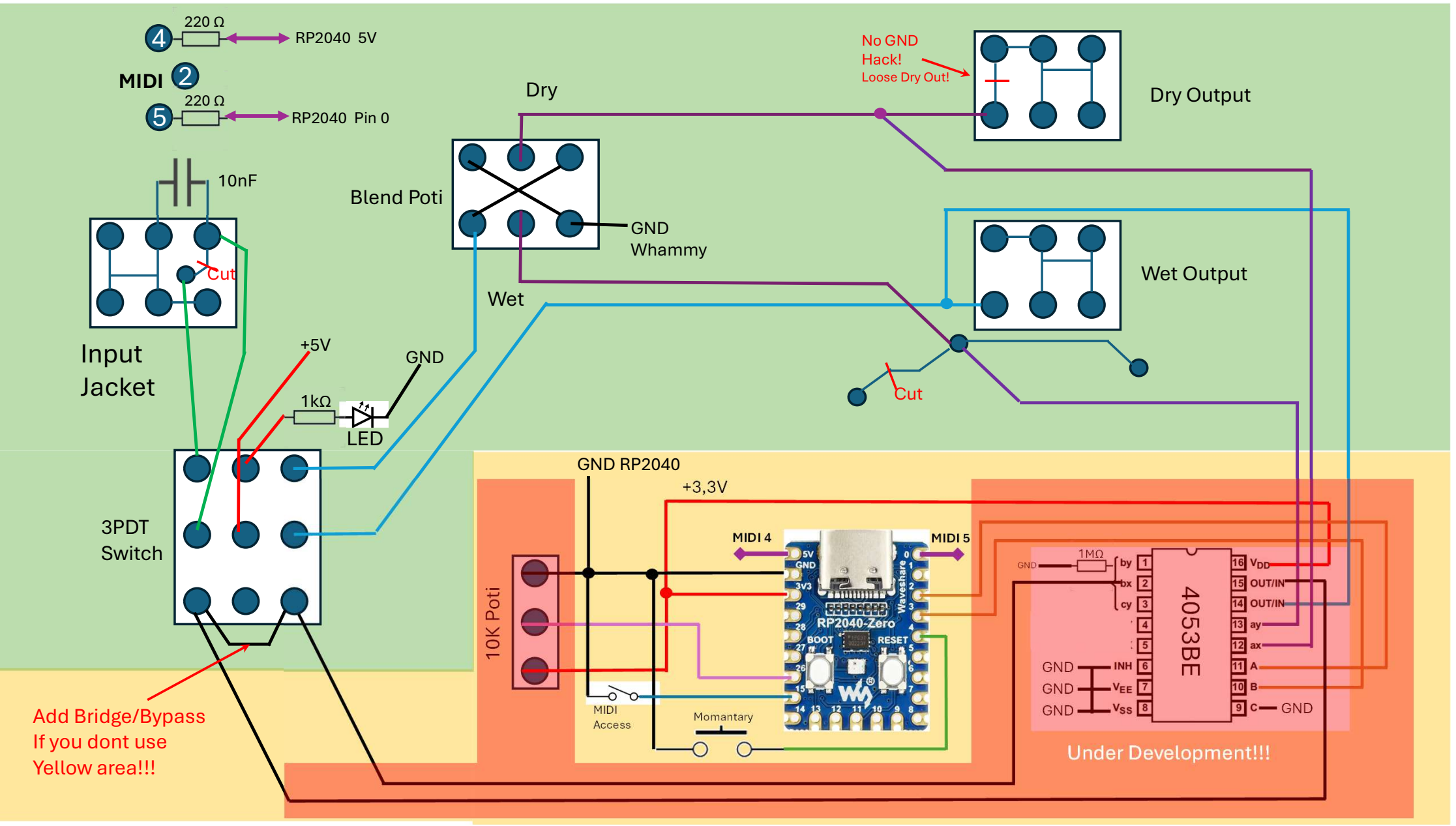
- Midi Access ON — Change Effect 1/2 for Shuttergate

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

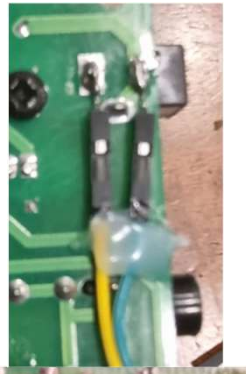
- Midi Access OFF
  - Momentary/Shutter Effect 1/2
  - Double Tap – Change Effect

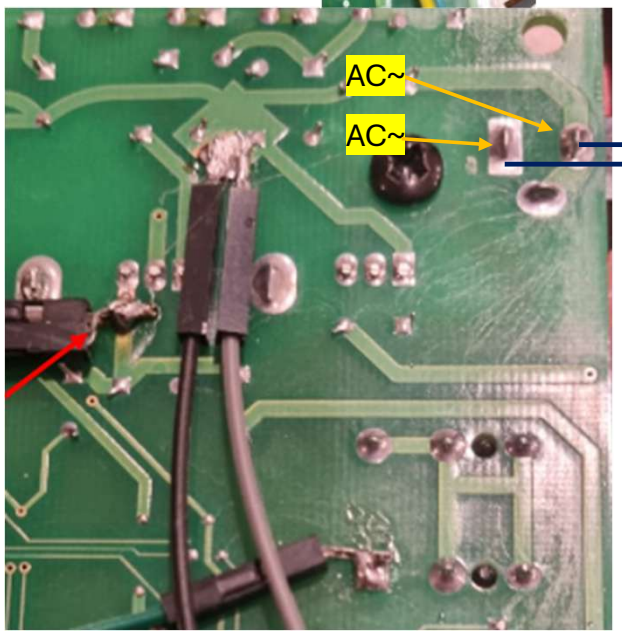
https://youtube.com/shorts/yBMveI-sLH8




4
220 Ω
RP2040 5V
MIDI
2
5
220 Ω
RP2040 Pin 0
10nF
Cut
Input
Jacket
Blend Poti
Dry
GND
Whammy
Wet
No GND
Hack!
Loose Dry Out!
Dry Output
Wet Output
Cut
+5V
GND
1kΩ
LED
3PDT
Switch
GND RP2040
+3,3V
MIDI 4
MIDI 5
10K Poti
MIDI
Access
Momantary
RP2040-Zero
1MΩ
4053BE
GND
GND
GND
INH
VEE
VSS
by
bx
cy
ay
ax
A
B
C
VDD
OUT/IN
OUT/IN
Under Development!!!
Add Bridge/Bypass
If you dont use
Yellow area!!!

Power Supply





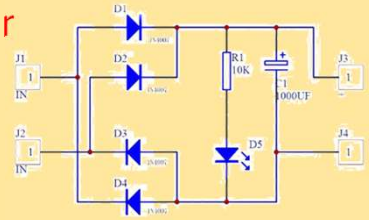
AC/DC Converter
LM2596HV

~9V

5V +/- !!!

AC/DC Converter
ALTERNATIVE!!!

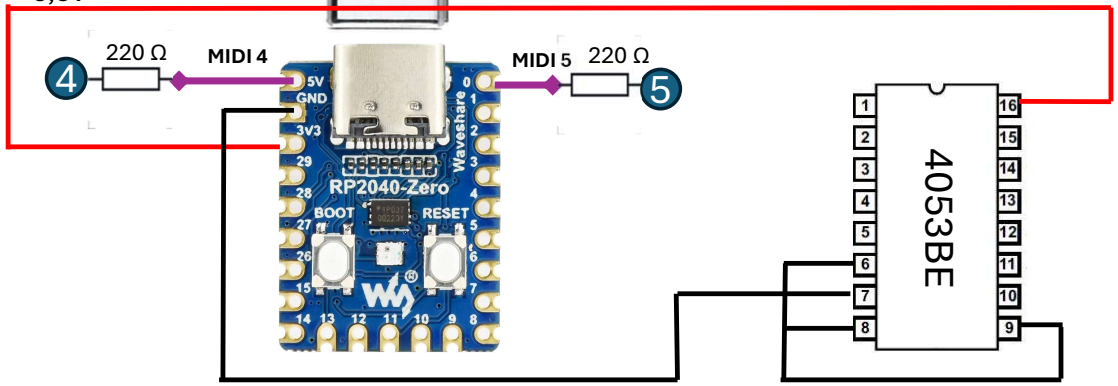
AC/DC Fullbridge



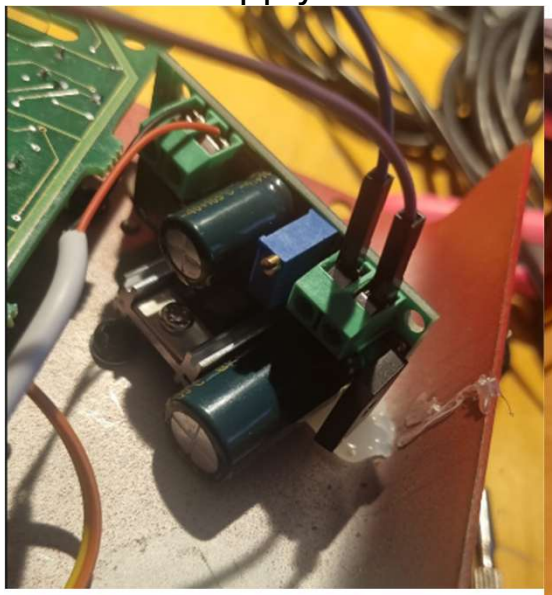
MP1584EN

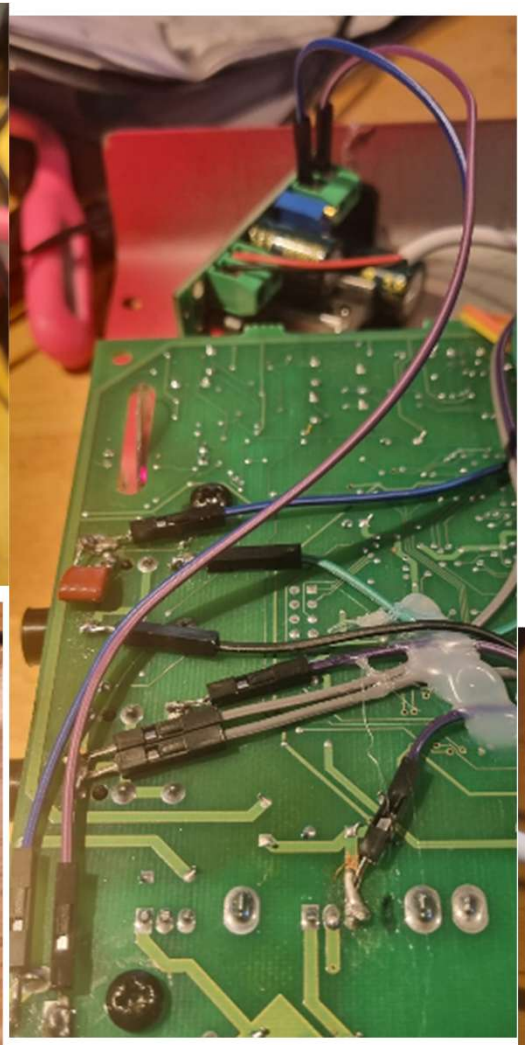
USB Type-C

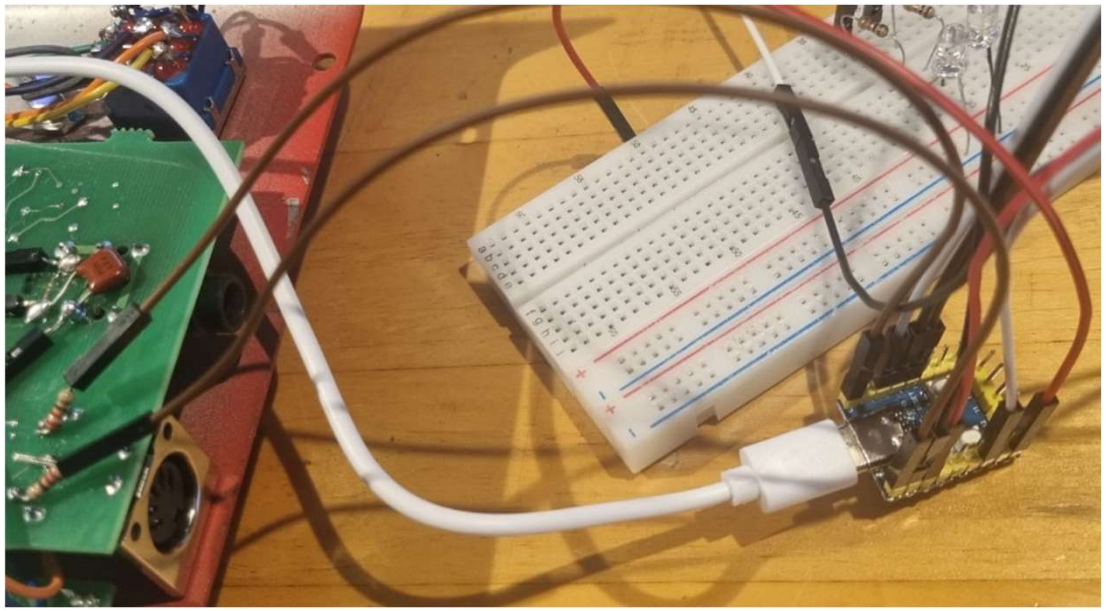
+3,3V

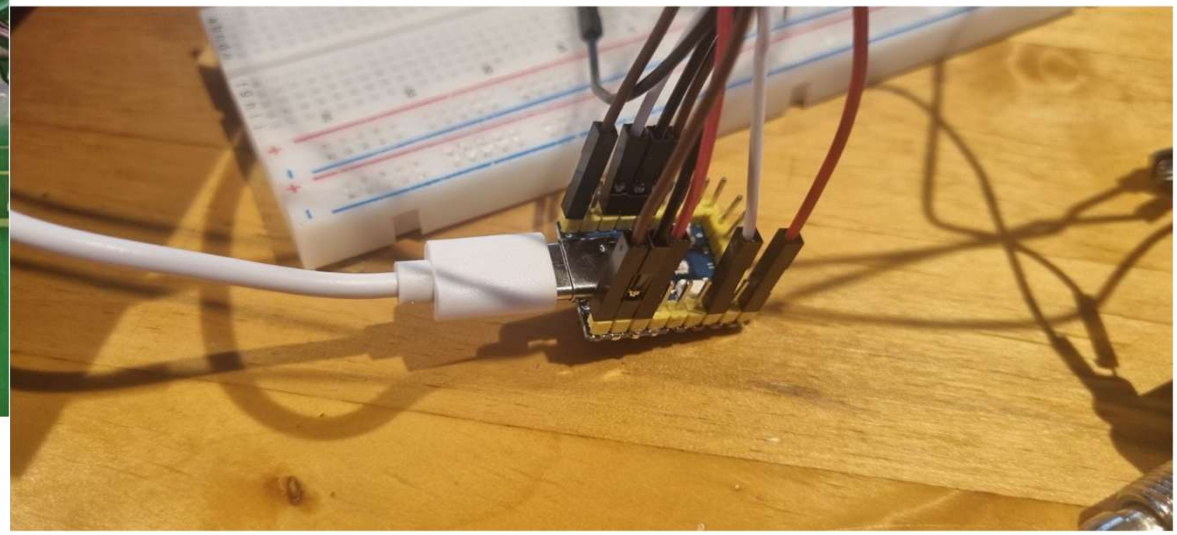


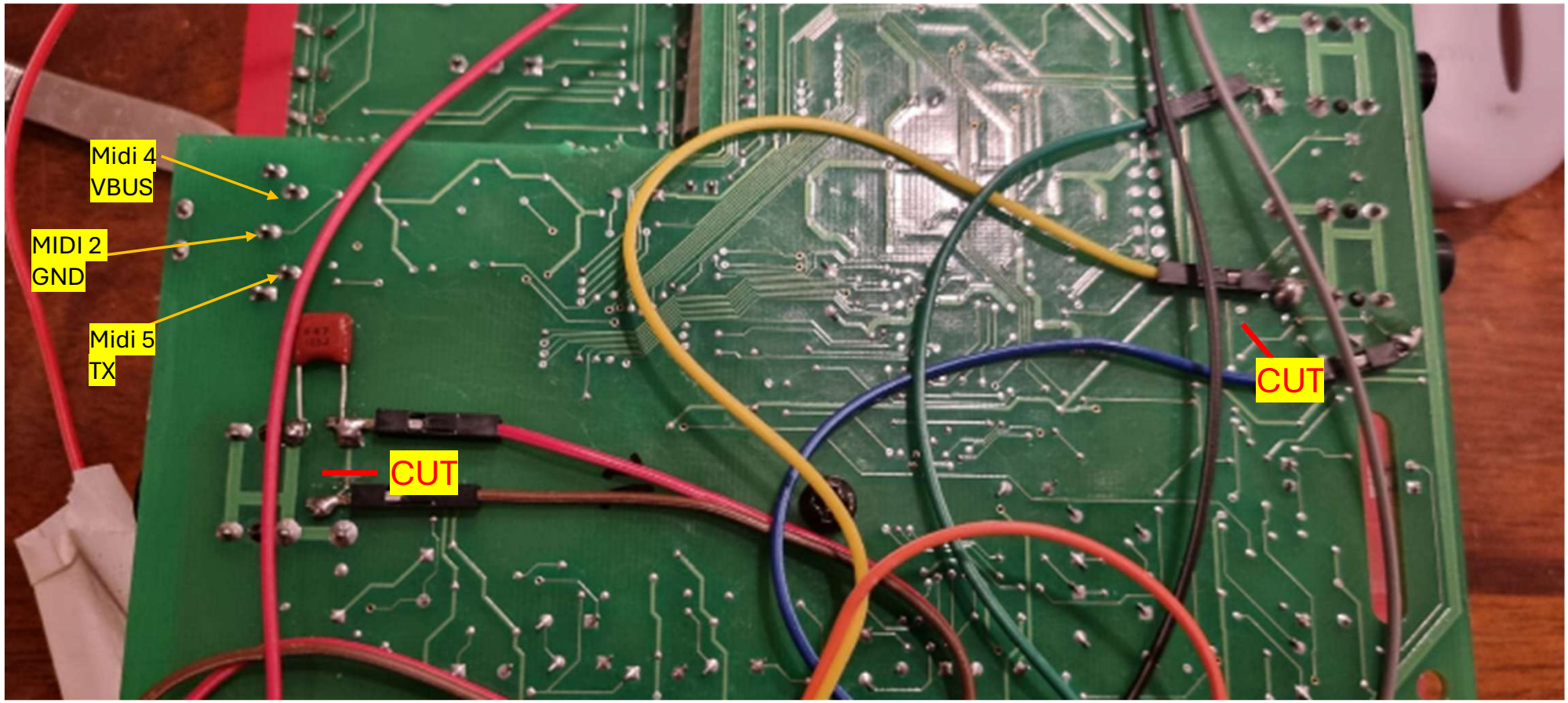
Power Supply

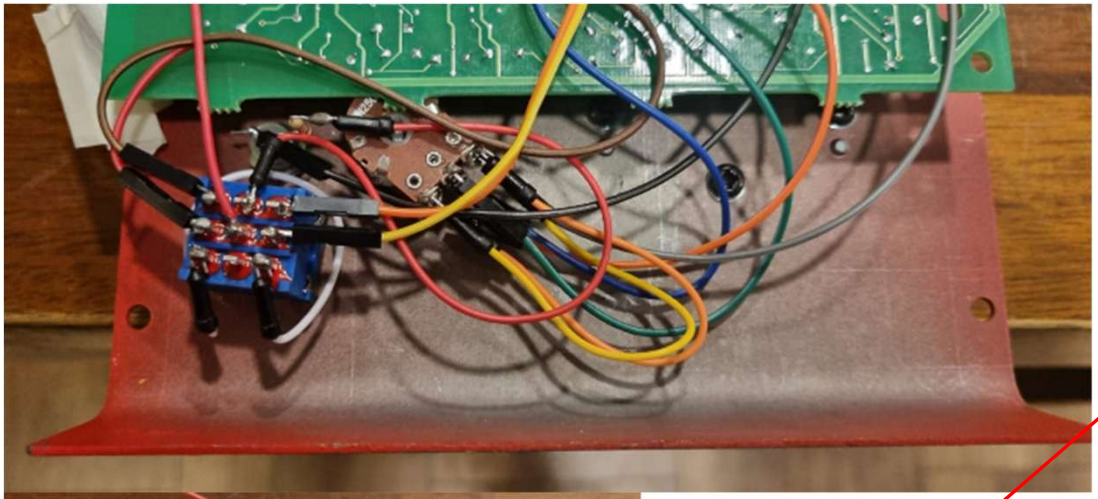


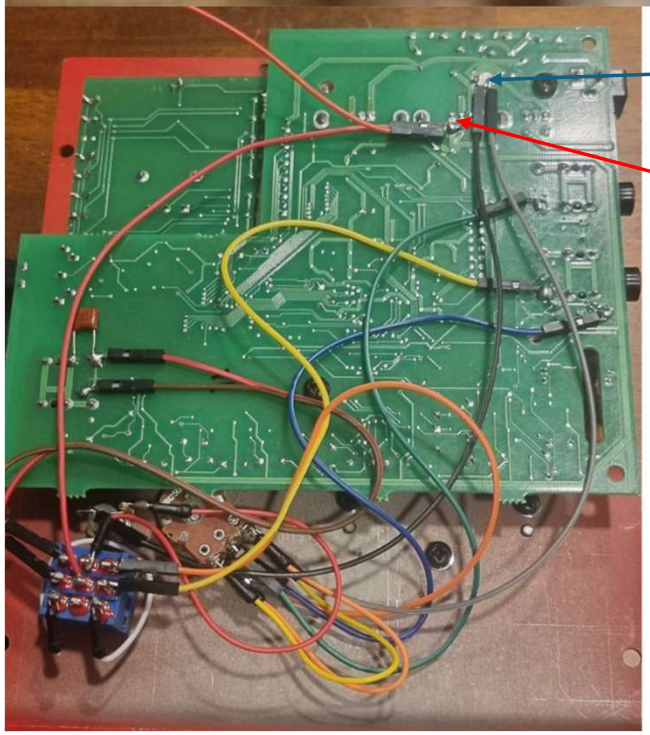






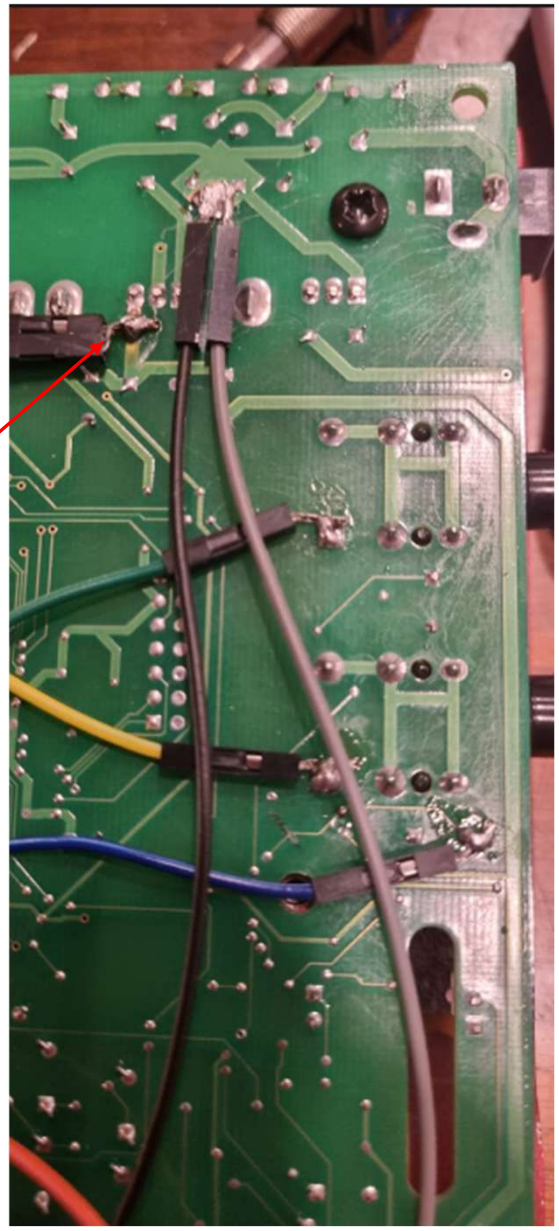

Midi 4
VBUS
MIDI 2
GND
Midi 5
TX
CUT
CUT

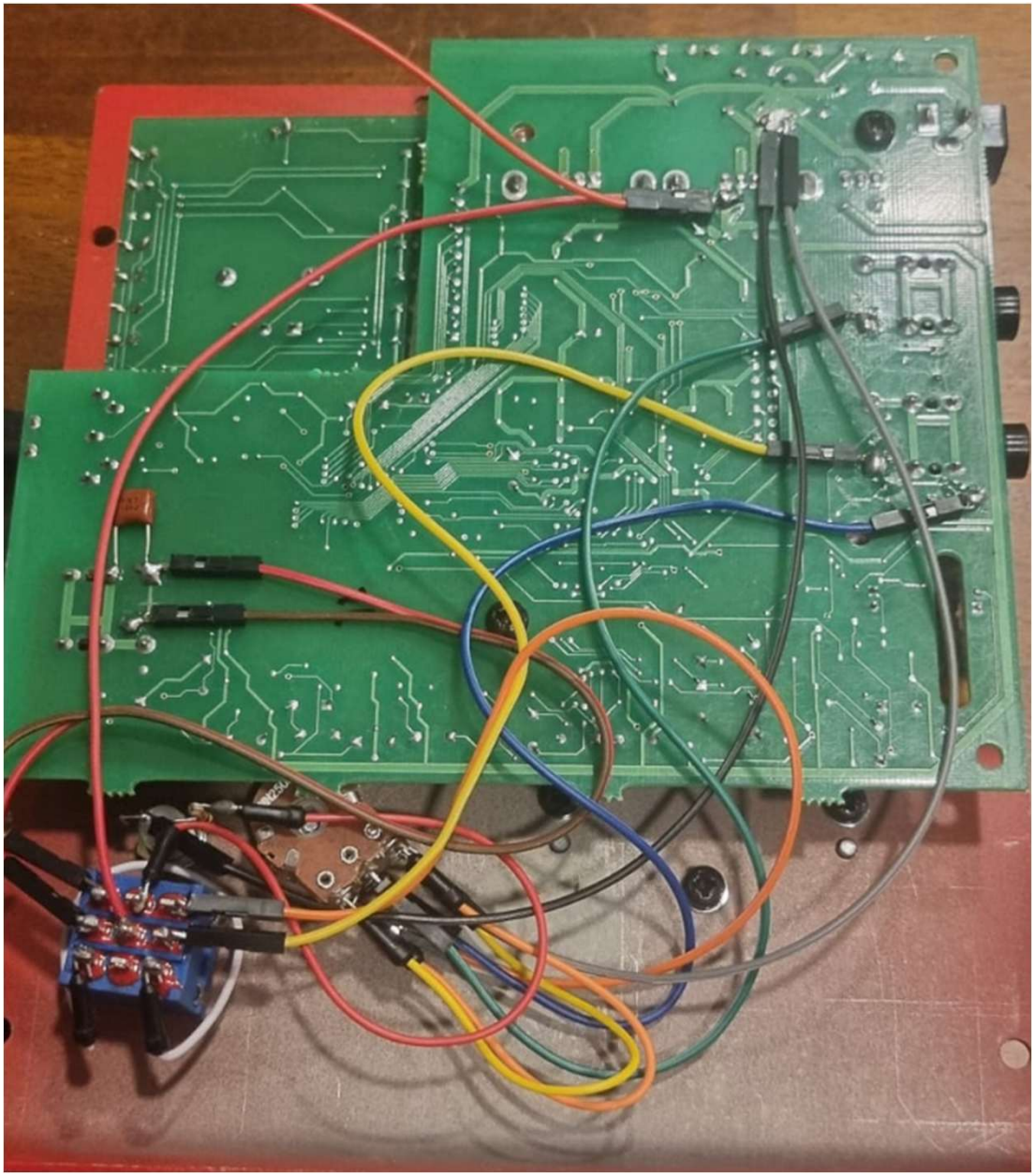




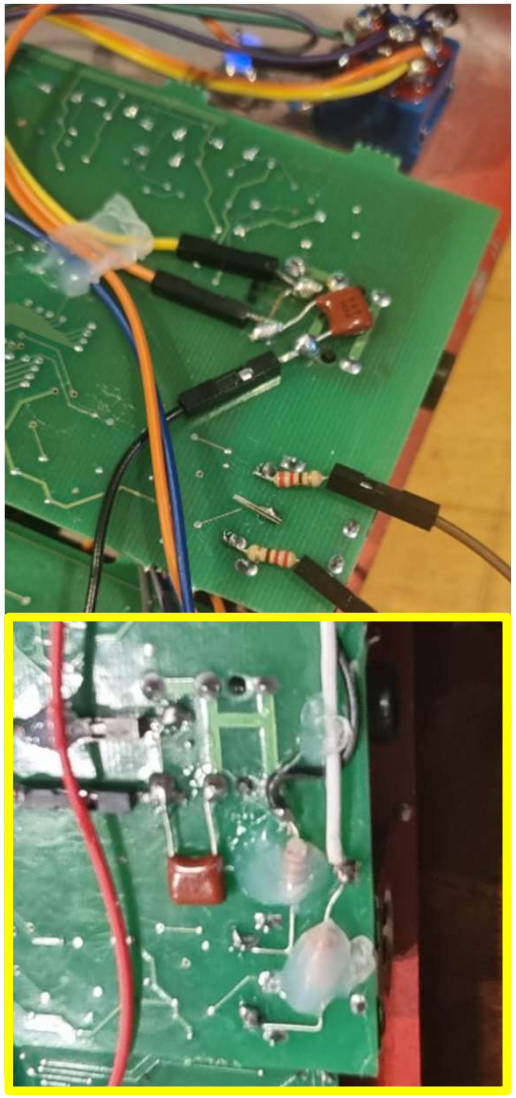
GND LED
HERE!!!

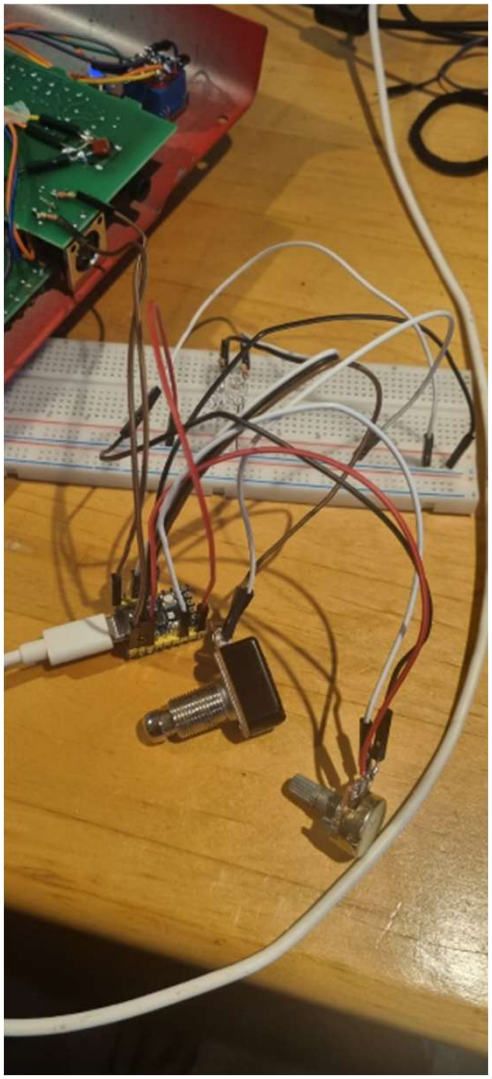
+5V LED
HERE!!!

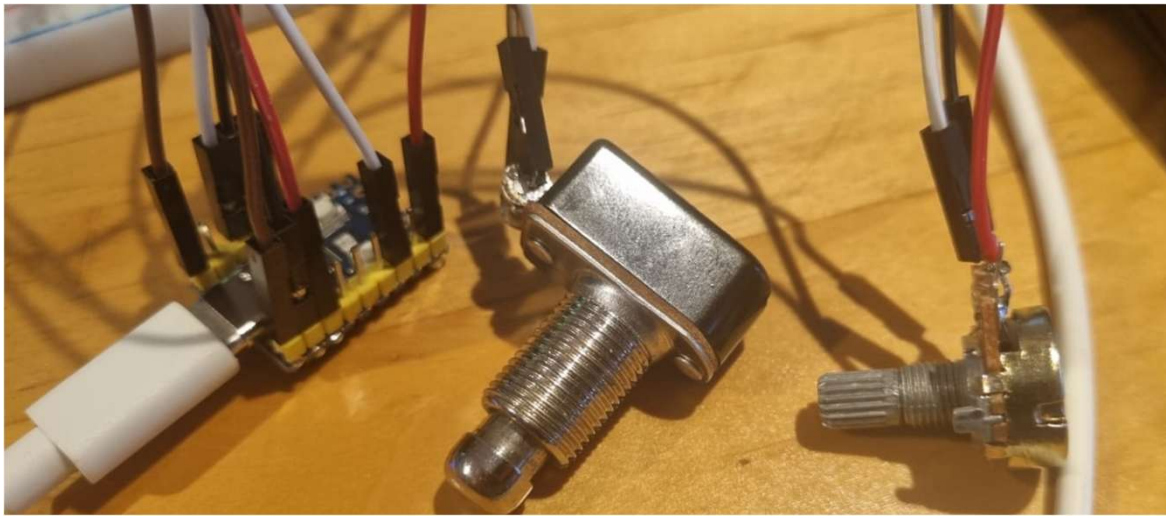




Midi Test







https://youtube.com/shorts/wjgEext1rCg

- 2 combinable effect presets