Whammy 4 – Version 1.09
By melatroid

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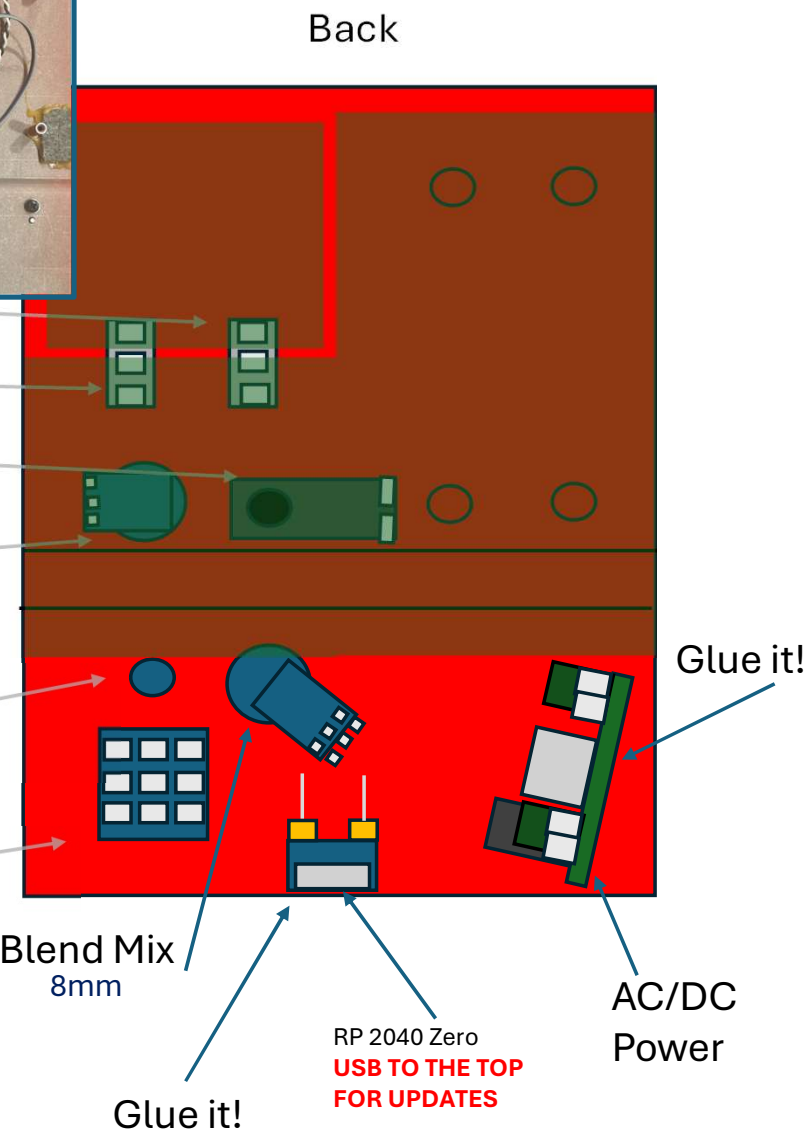True Bypass, Blend Mix
Shutter Gate Effect
Change Effects
Momantary

Calibration

Midi Access
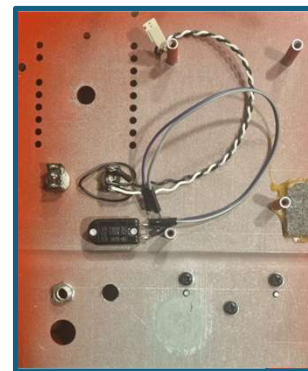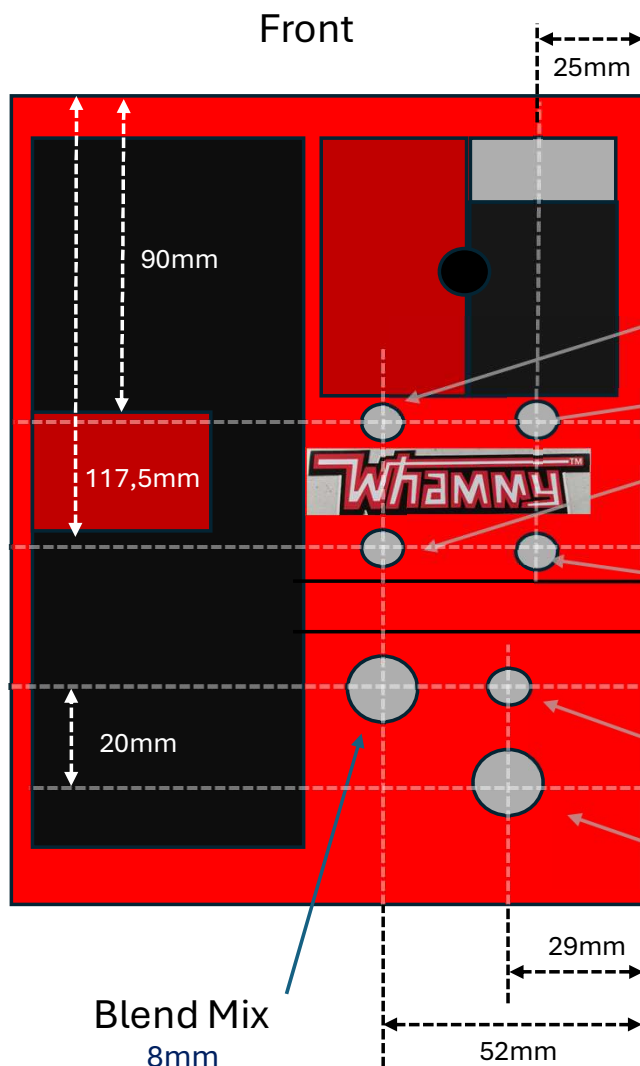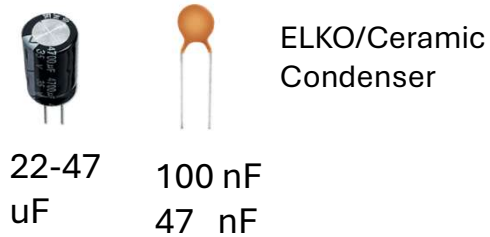
Time

Momantary
/ Change Effects

Blend Mix

LED On/OFF

Effect On/OFF

Front

25mm

90mm

117,5mm

20mm

Whammy™

29mm

52mm

Blend Mix
8mm

Calibration Switch — 6mm

Midi Access Switch — 6mm

Momentary Switch — 12mm

Poti 10KOhm — 7mm

LED — 7,5mm

3PDT — 10mm

Back

Glue it!

Blend Mix
8mm

Glue it!

RP 2040 Zero
**USB TO THE TOP
FOR UPDATES**

AC/DC Power

Parts

1kΩ   3x

1MΩ

220Ω   2x

ELKO/Ceramic
Condenser

22-47 uF

100 nF
47 nF

The Whammy is very Noisy but i use a simple
Noise Gate directly after the Whammy.
That brings the Action.

Problem is the AC/DC Converter...
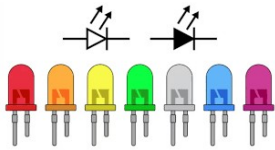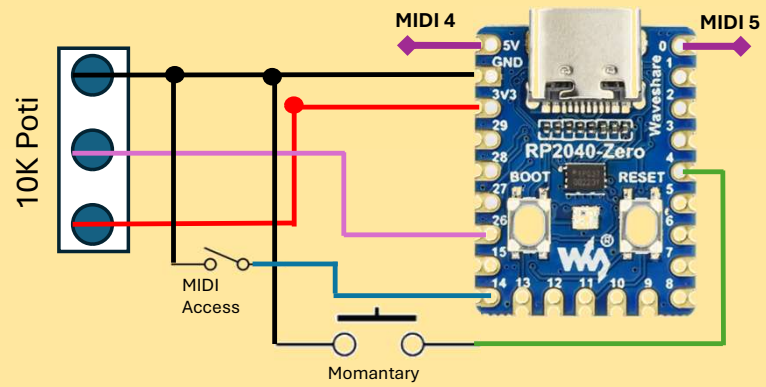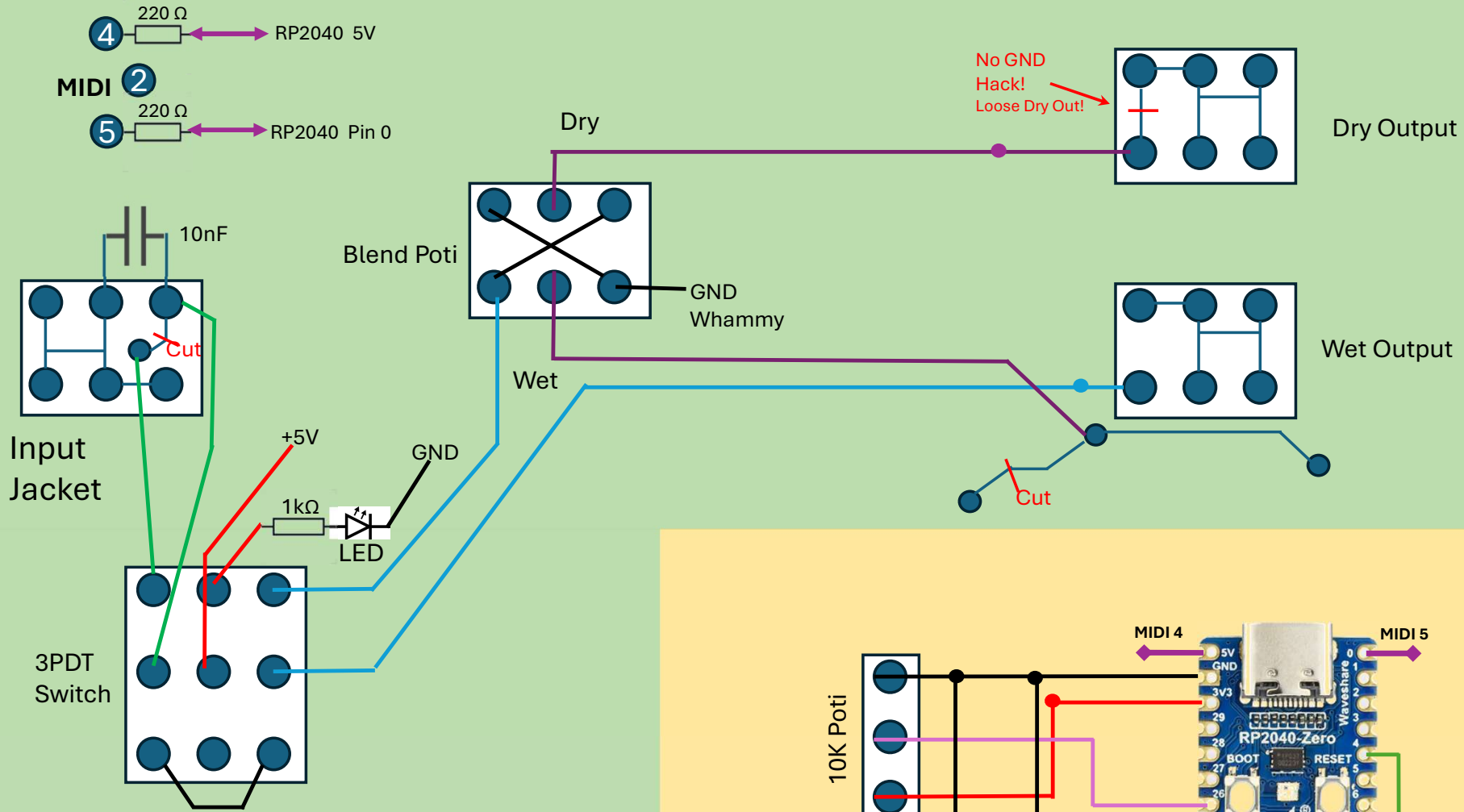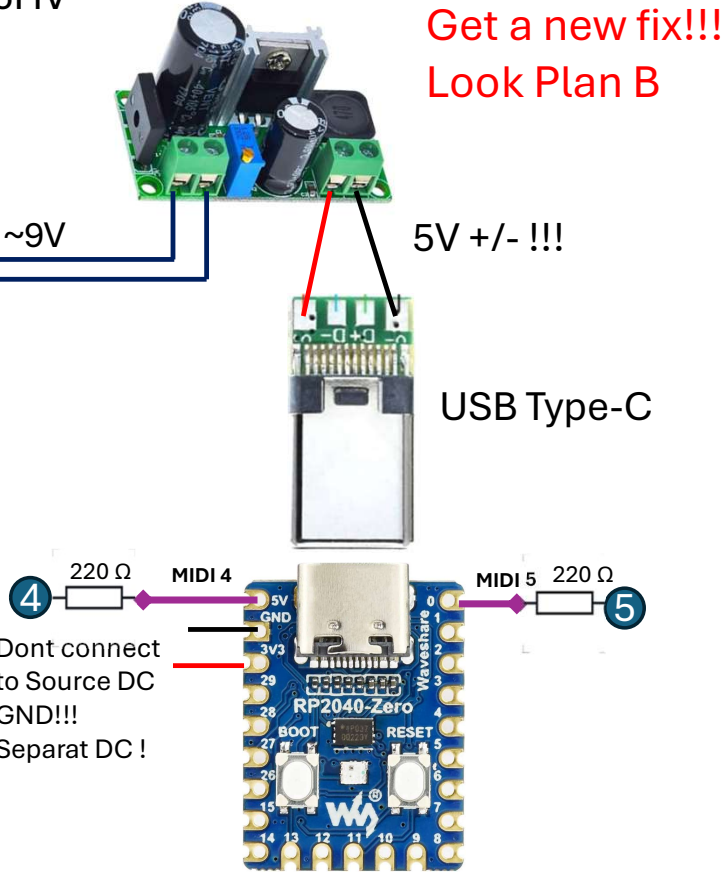
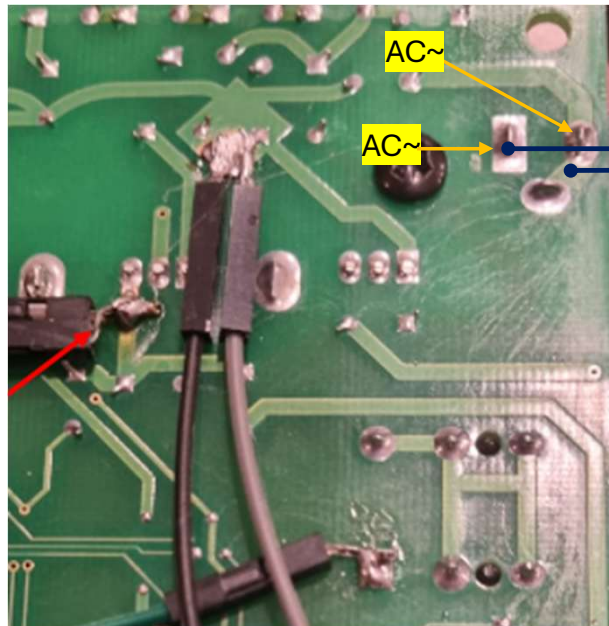Try to fix this... look PLAN B

NOISE GATE

Toogle Switch 2x
Midi Access /
Calibration

Momantary
(Original Part)

250kΩ
Blend

3PDT

DC/DC
Isolation

AC/DC
LM2596HV

10KΩ

Raspberry Pi
2040 Zero

220 Ω — RP2040 5V

MIDI 2

220 Ω — RP2040 Pin 0

No GND
Hack!
Loose Dry Out!

Dry Output

10nF

Dry

Blend Poti

GND
Whammy

Input
Jacket

Wet

Wet Output

+5V

GND

1kΩ

LED

Cut

3PDT
Switch

10K Poti

MIDI 4

MIDI 5

5V
GND
3V3
29
28
BOOT
27
26
15
14
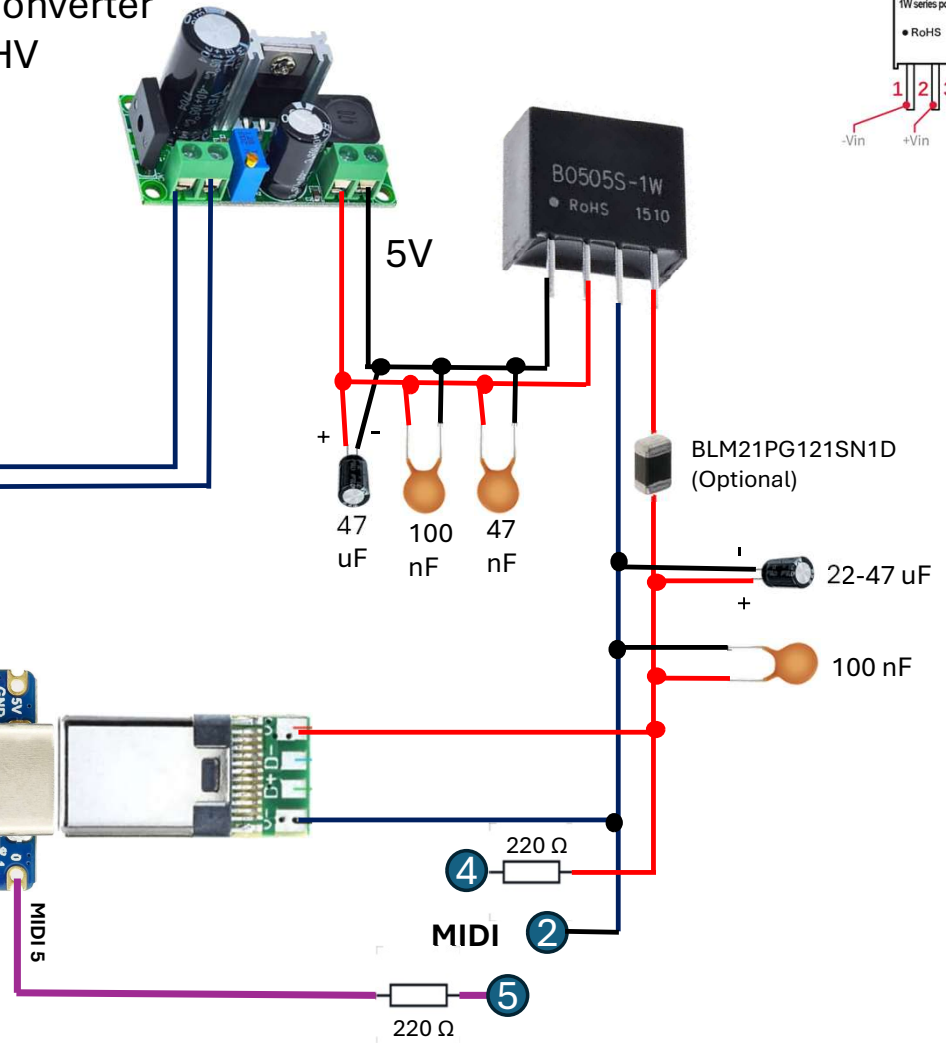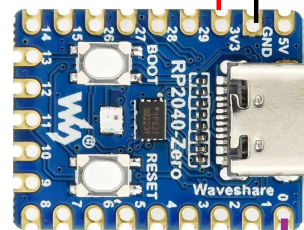
RP2040-Zero

Waveshare

RESET

0
1
2
3
4
5
6
7
12 11 10 9 8

MIDI
Access

Momantary

Power Supply **PLAN A**

AC/DC Converter
LM2596HV

Get a new fix!!!
Look Plan B

AC~

AC~

~9V

5V +/- !!!
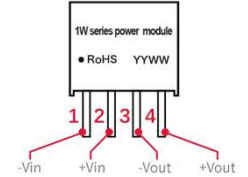
USB Type-C

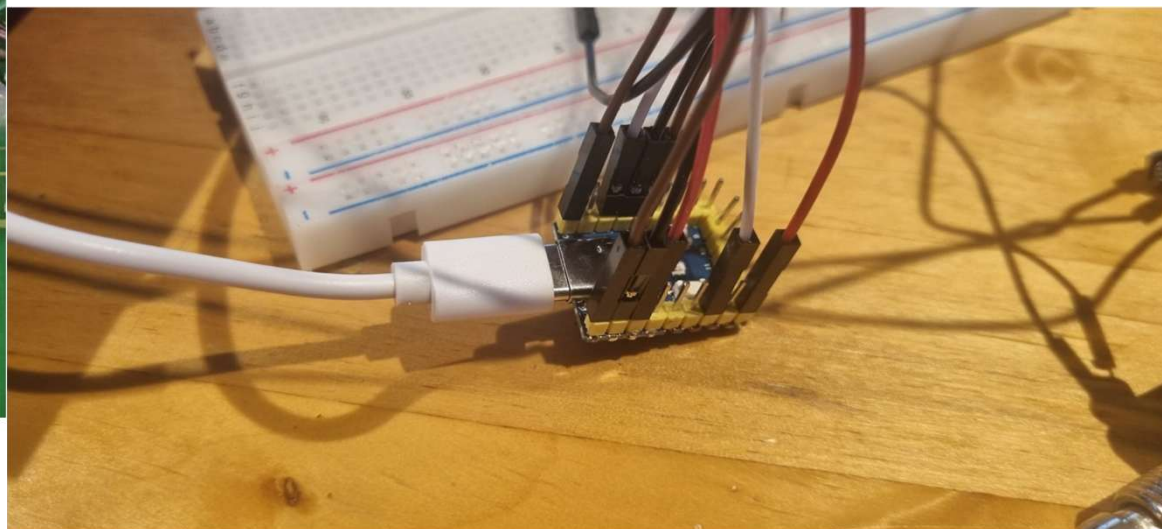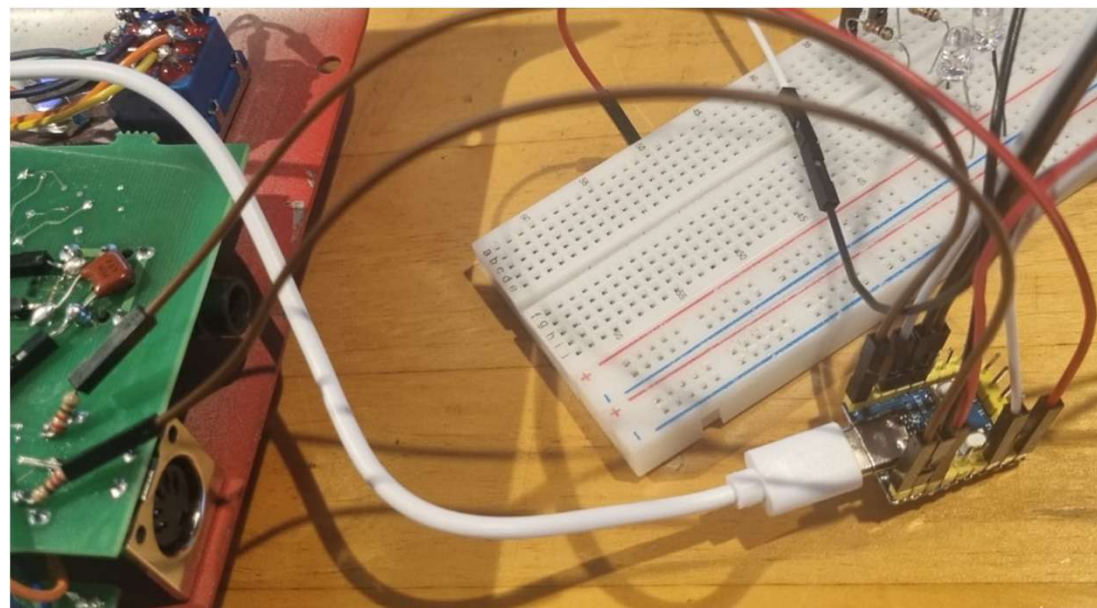220 Ω   **MIDI 4**   **MIDI 5**   220 Ω

4   5
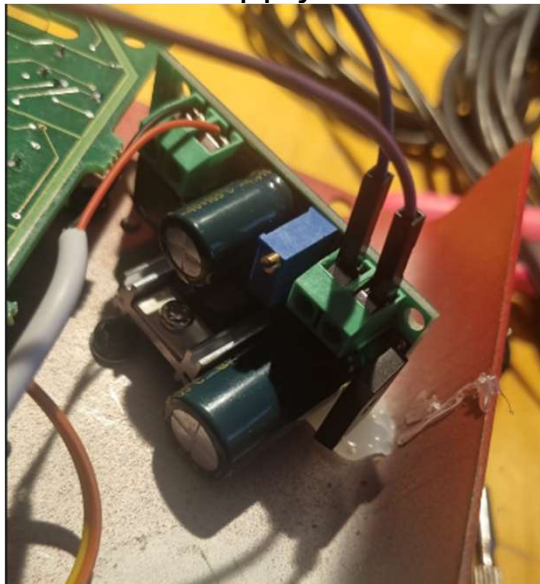
Dont connect
to Source DC
GND!!!
Separat DC !

Power Supply **PLAN B**

AC/DC Converter
LM2596HV

1W series power module
● RoHS   YYWW

1 2 3 4
-Vin +Vin -Vout +Vout

B0505S-1W
● RoHS 1510

AC~

AC~

5V

~9V

+   -

47 uF

100 nF

47 nF

BLM21PG121SN1D
(Optional)

-

22-47 uF

+

100 nF

Dont connect to
Source DC GND!!!
Separat DC !

RP2040-Zero

Waveshare
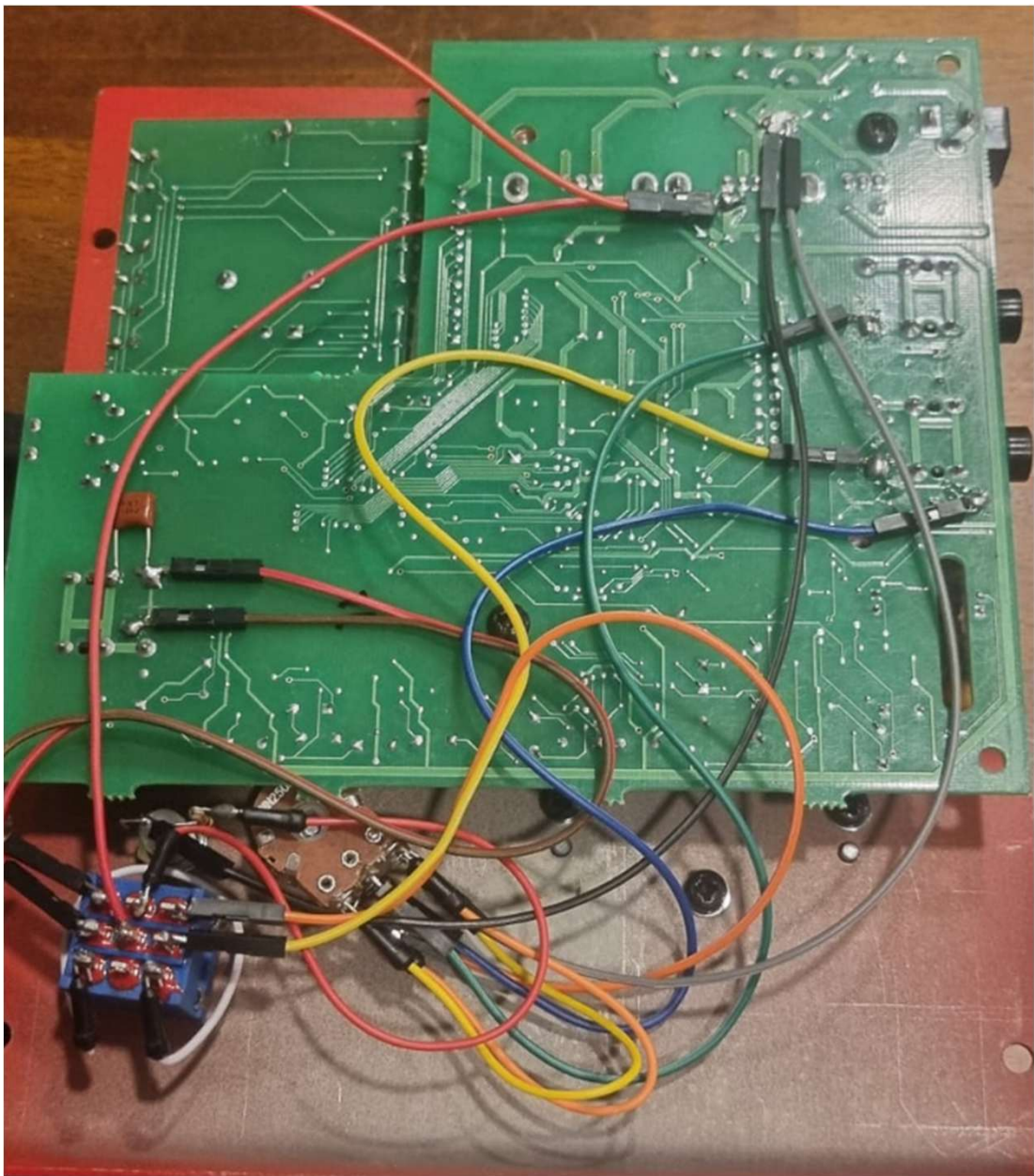
MIDI 5

220 Ω

④

MIDI ②

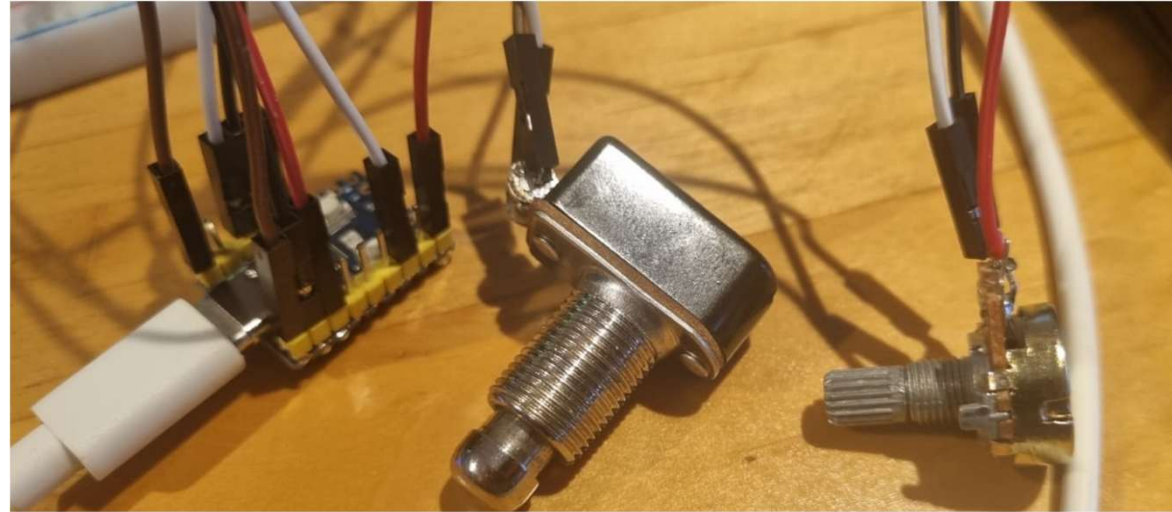220 Ω

⑤

Power Supply

Midi 4
VBUS

MIDI 2
GND

Midi 5
TX

CUT

CUT
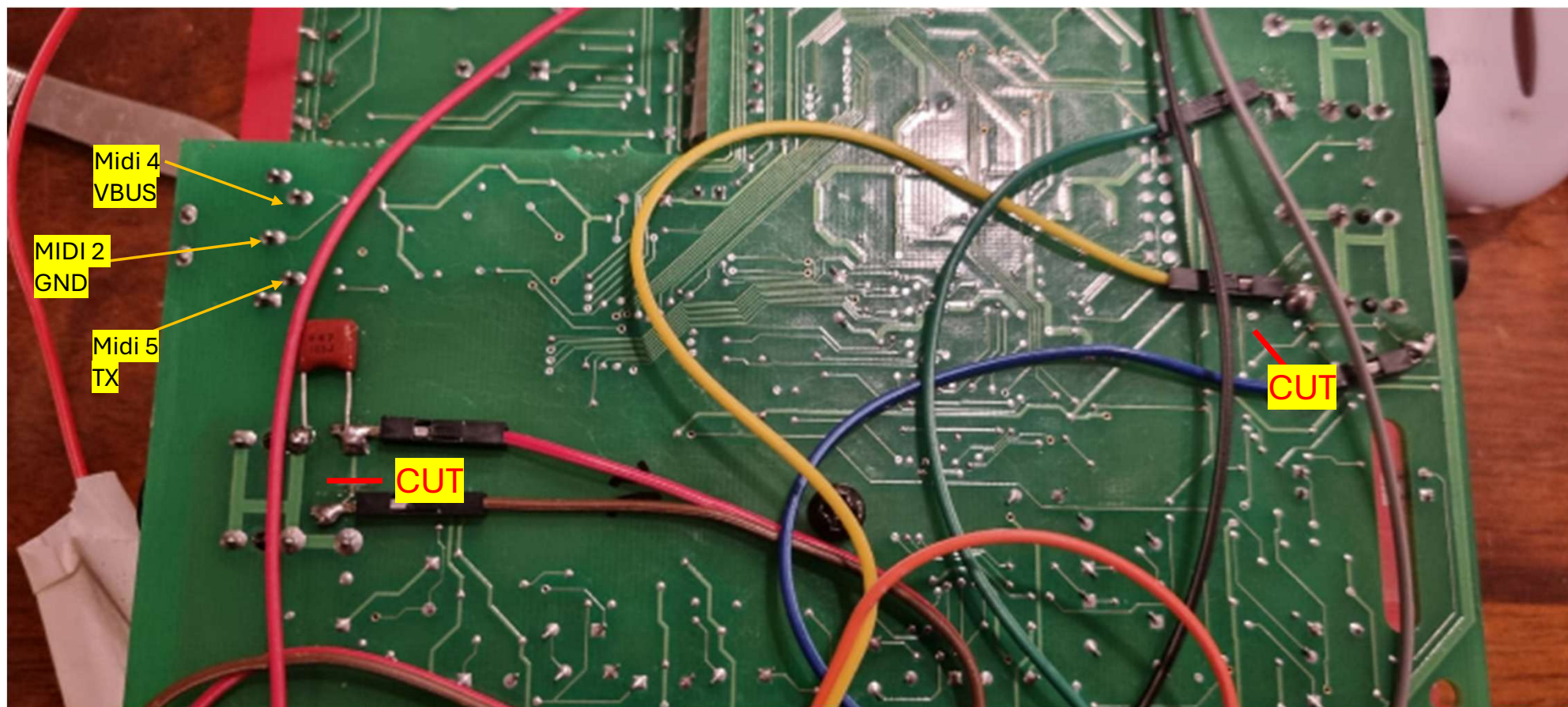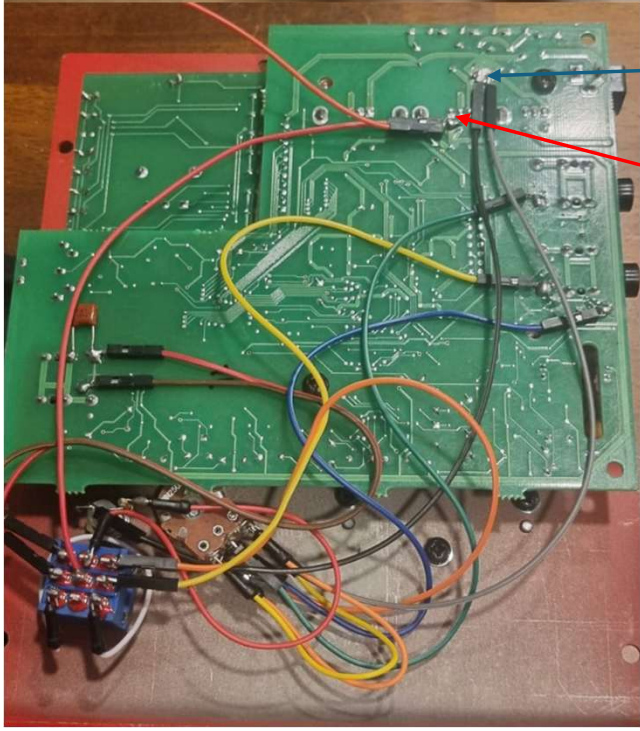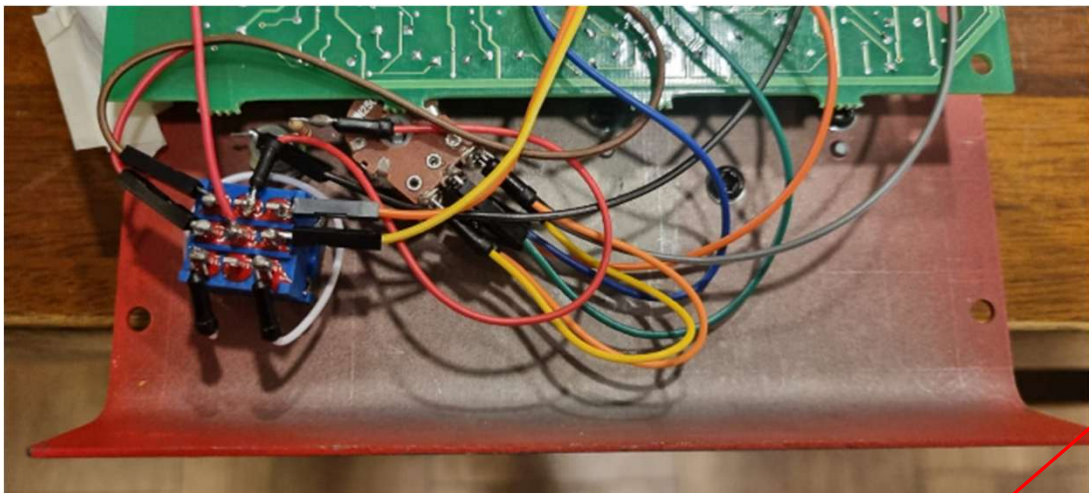
GND LED
HERE!!!

+5V LED
HERE!!!

Pull up
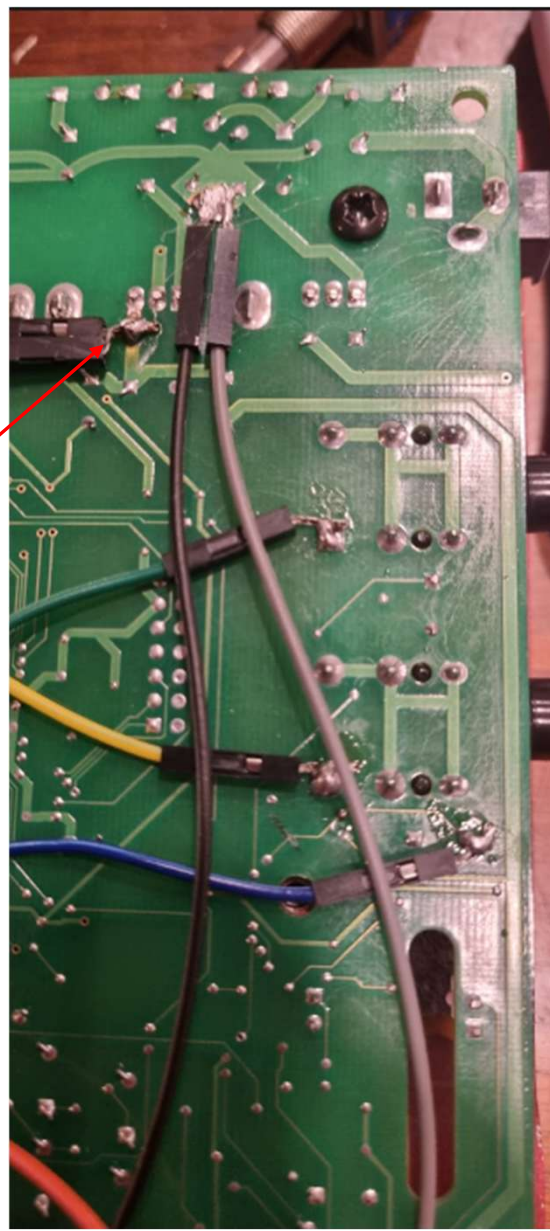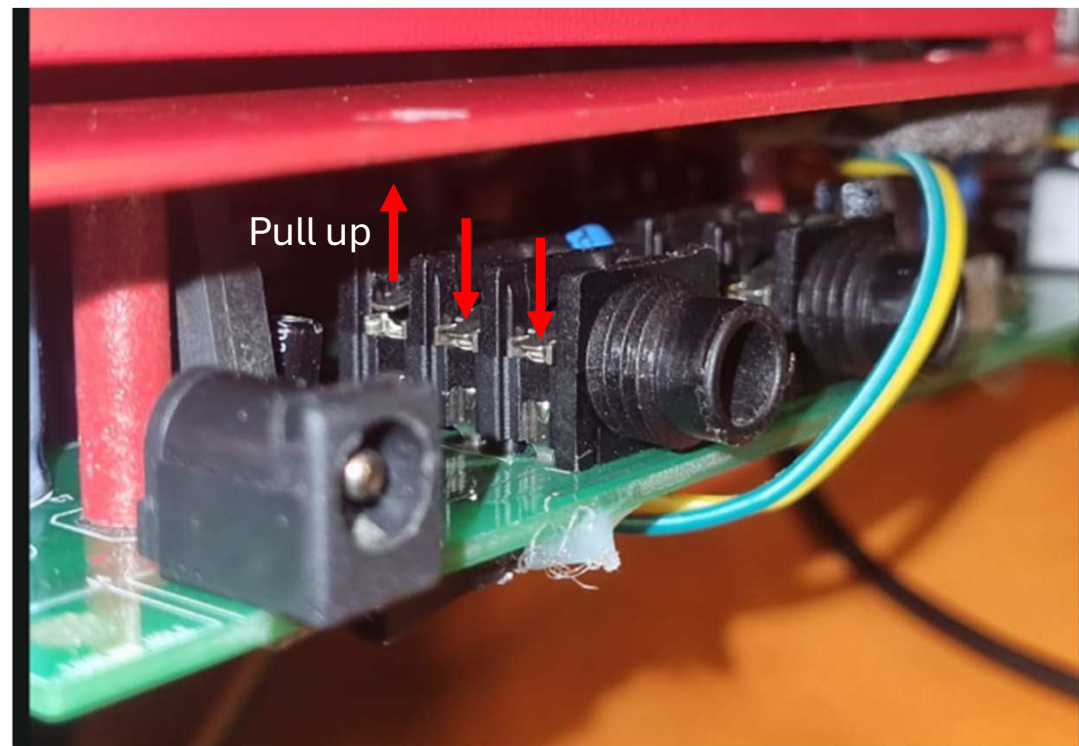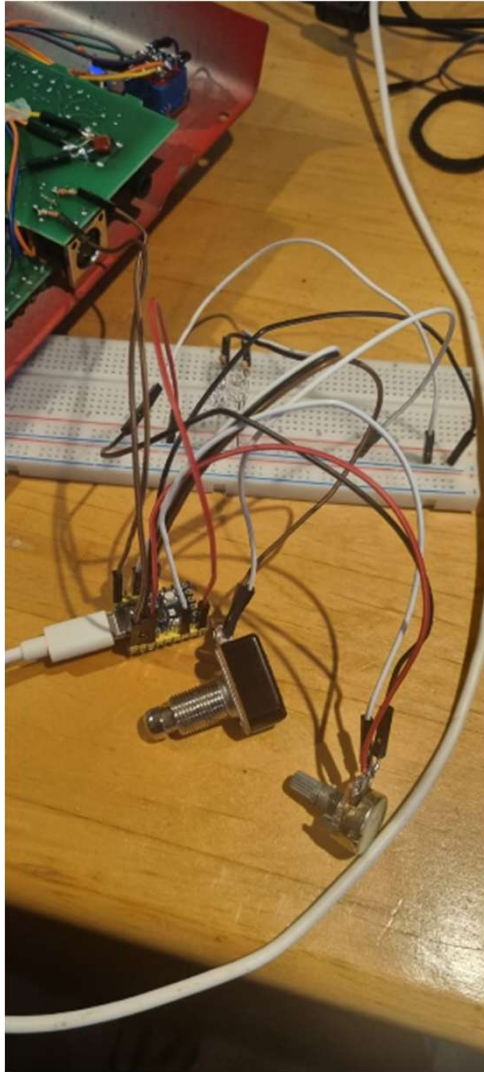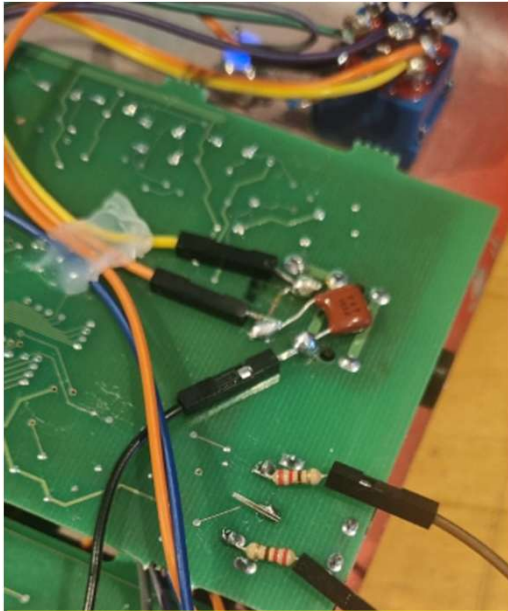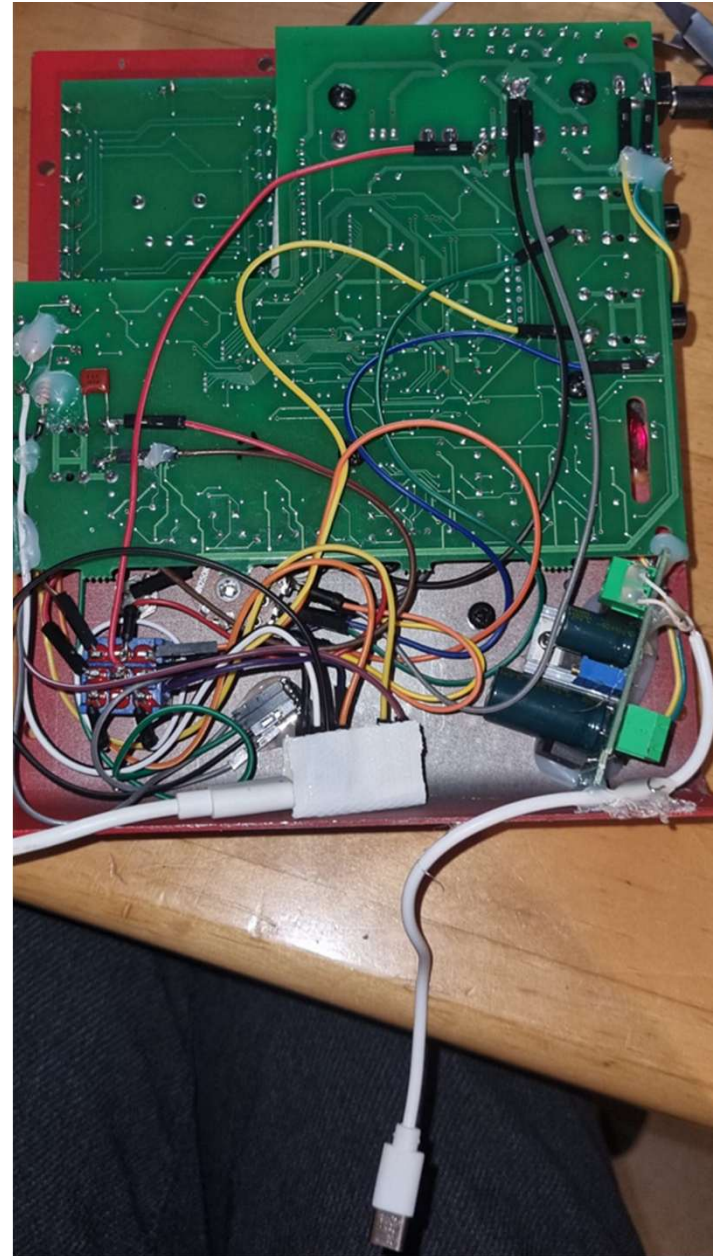
Midi Test

- 2 combinable effect presets

Final Front/Back

**Flash NEO
Software**