

Whammy 4 – Version 1.09
By melatroid

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True Bypass, Blend Mix
Shutter Gate Effect
Change Effects
Momantary



Calibration

Midi Access

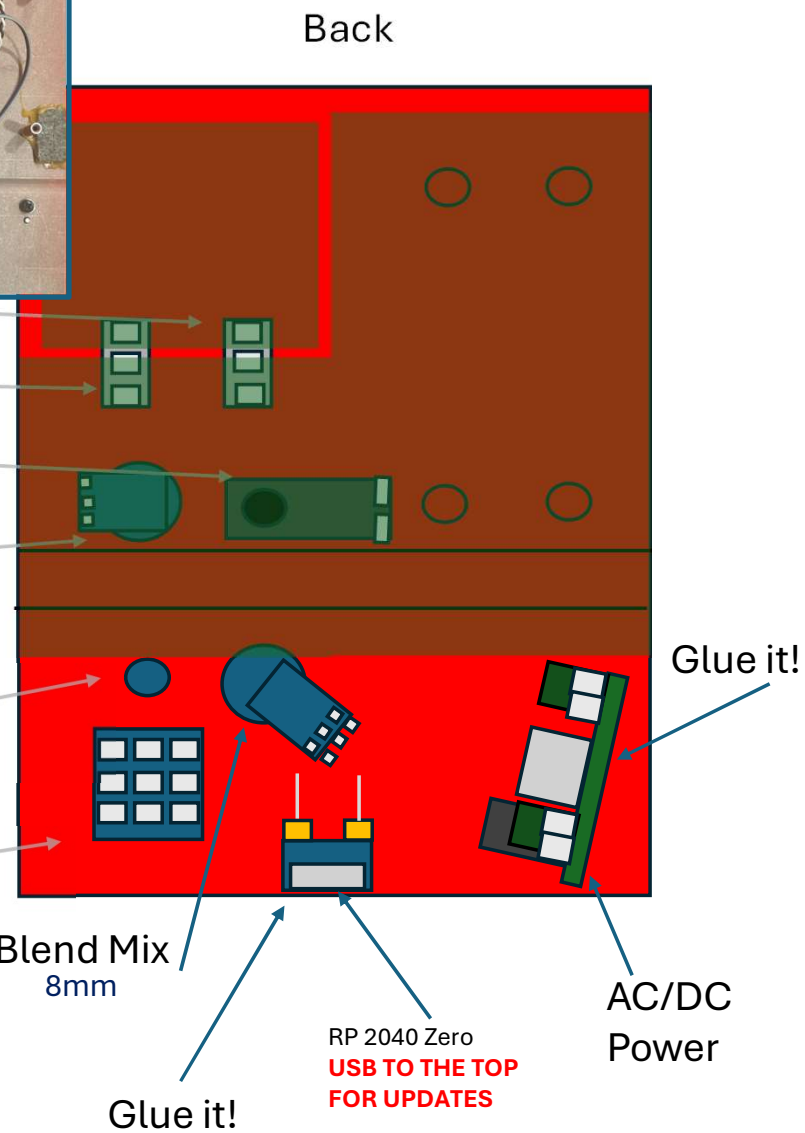
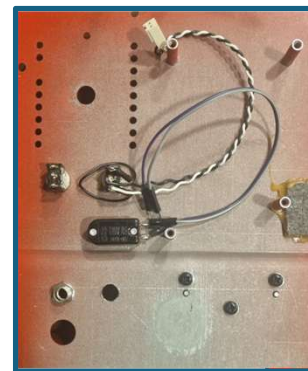
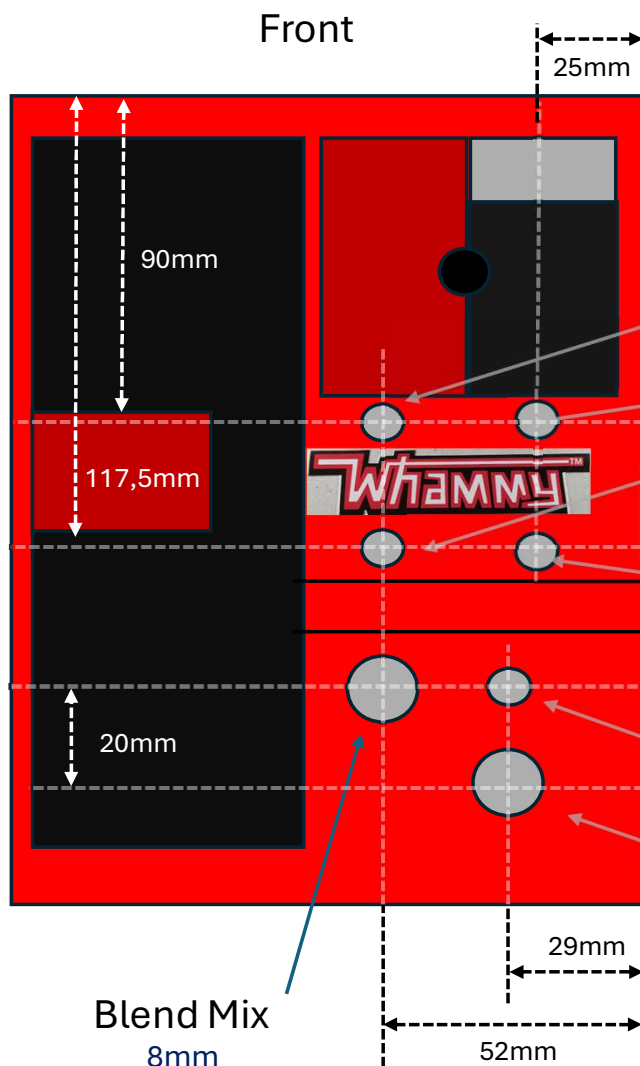
Time

Momantary / Change Effects

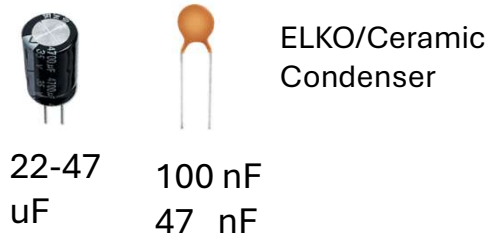
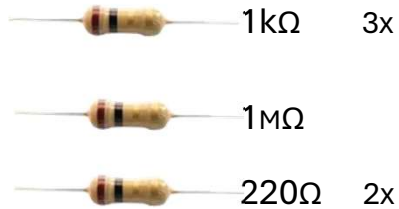
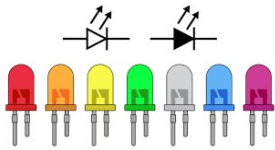
Blend Mix

LED On/OFF

Effect On/OFF



Parts



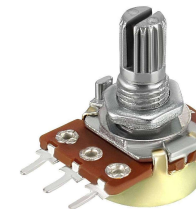
DC/DC
Isolation



AC/DC
LM2596HV



10KΩ



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

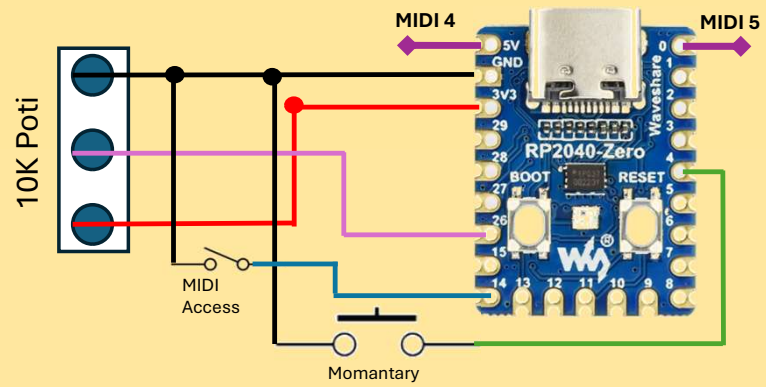
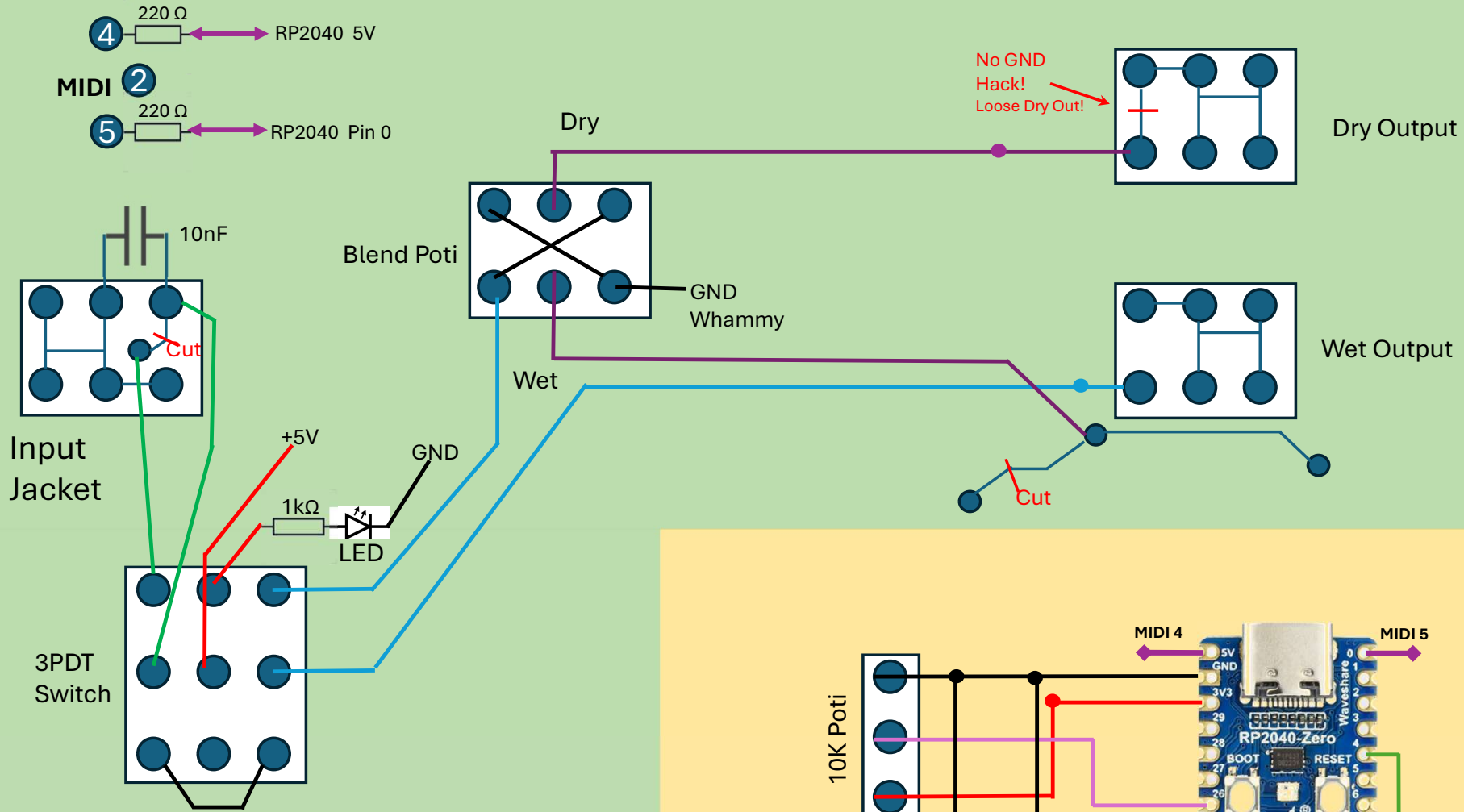
Problem is the AC/DC Converter...

Try to fix this... look PLAN B



Raspberry Pi
2040 Zero





5V +/- !!!

4

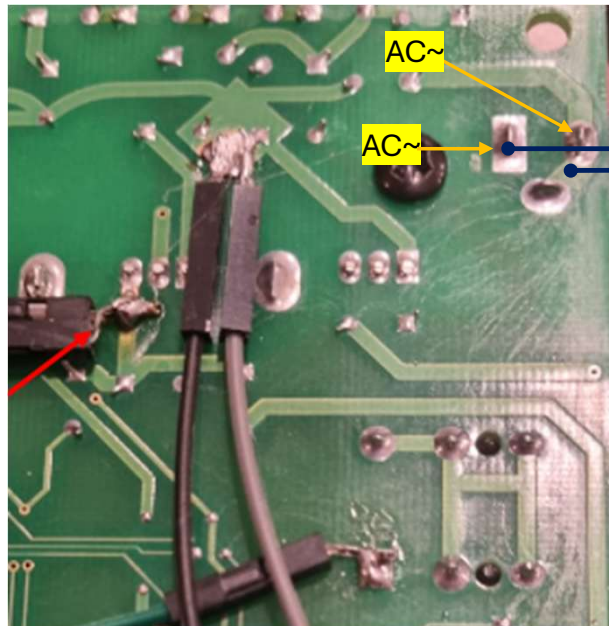
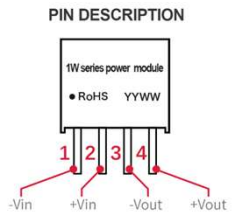
Dont connect
to Source DC
GND!!!
Separat DC !

Power Supply **PLAN B**



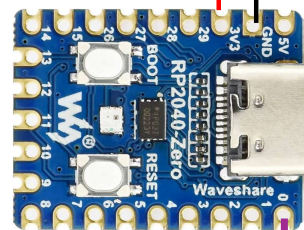
AC/DC Converter
LM2596HV

B0505S-1W



~9V

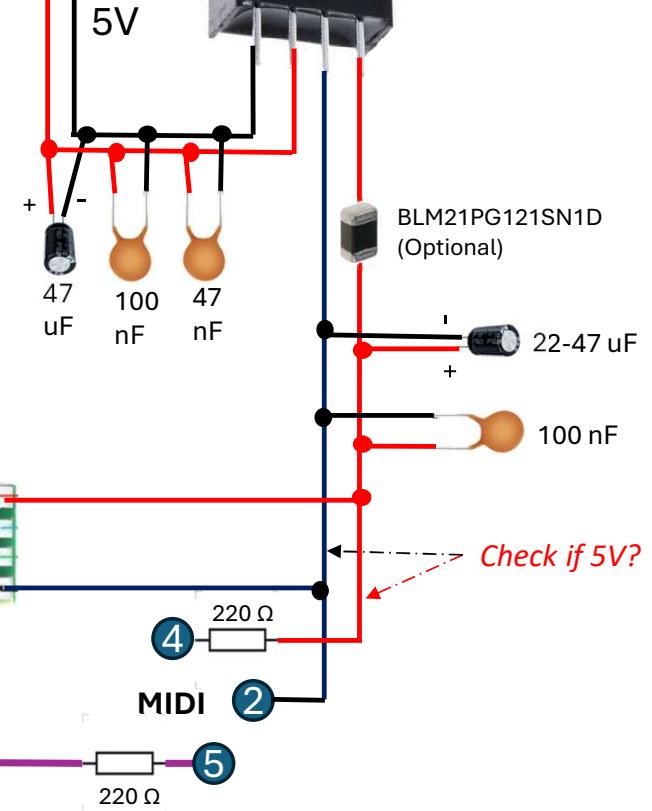
Dont connect to
Source DC GND!!!
Separat DC !



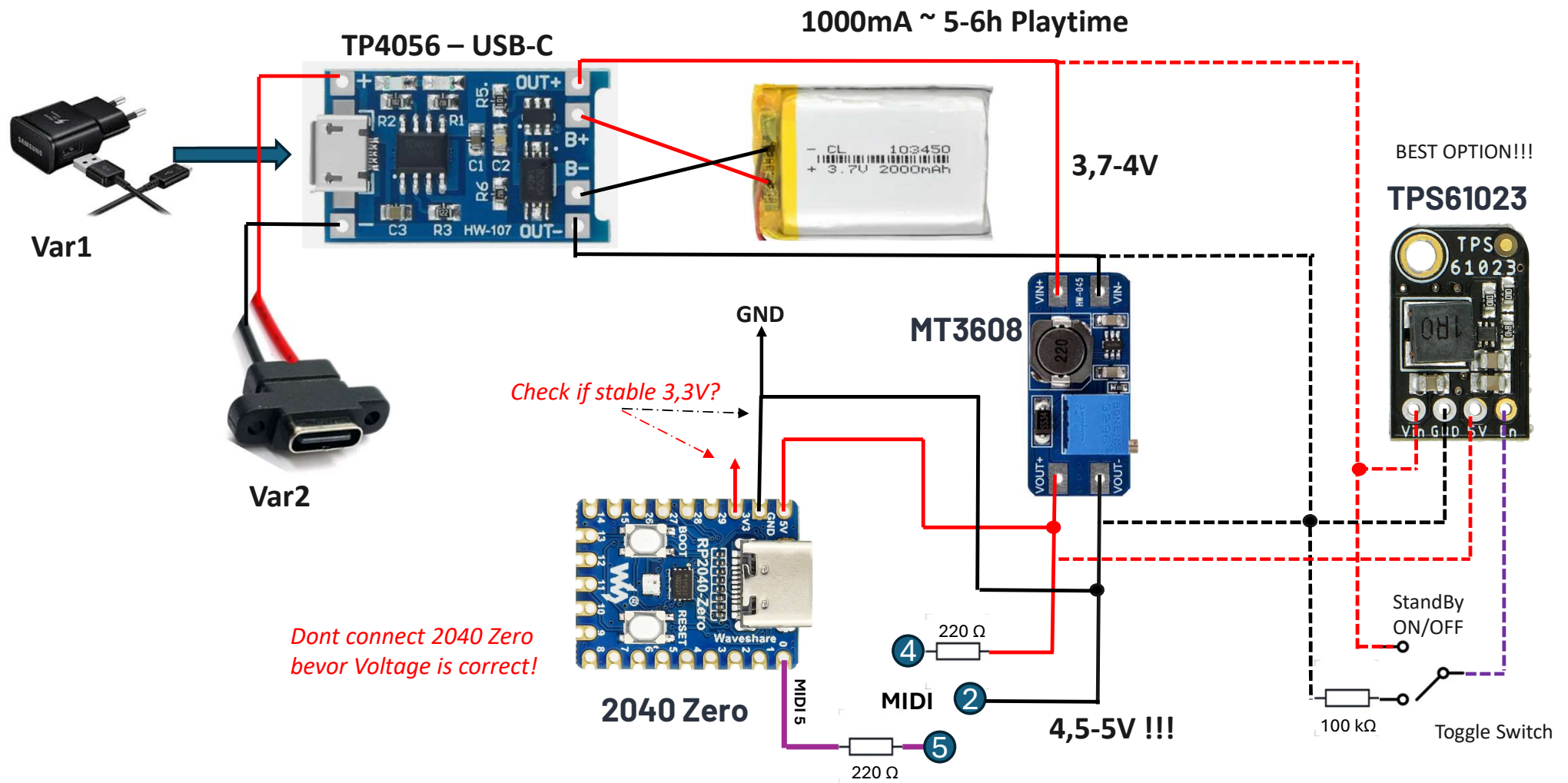
MIDI 5

*Dont connect 2040 Zero
bevor Voltage is correct!*

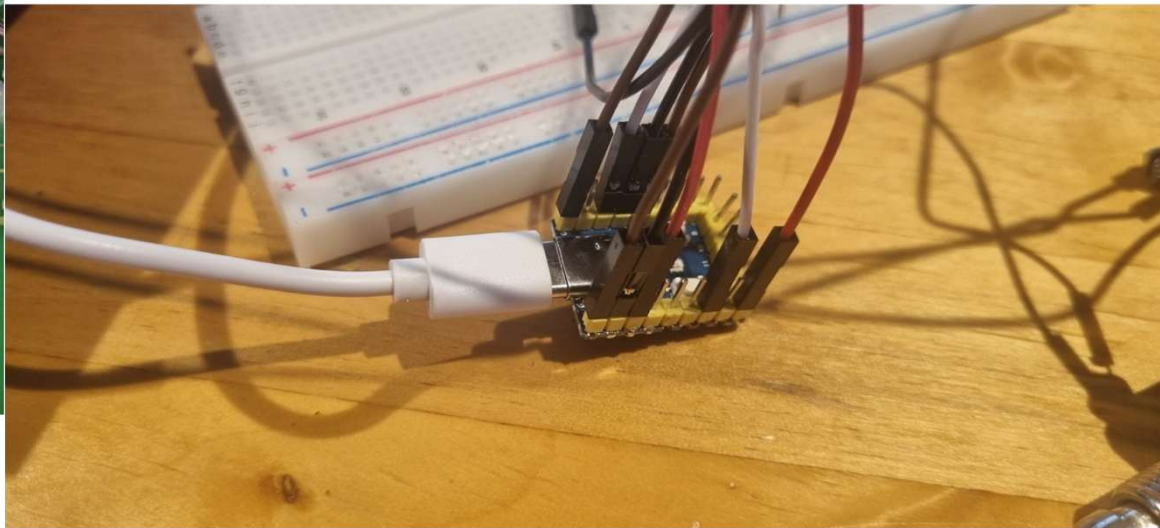
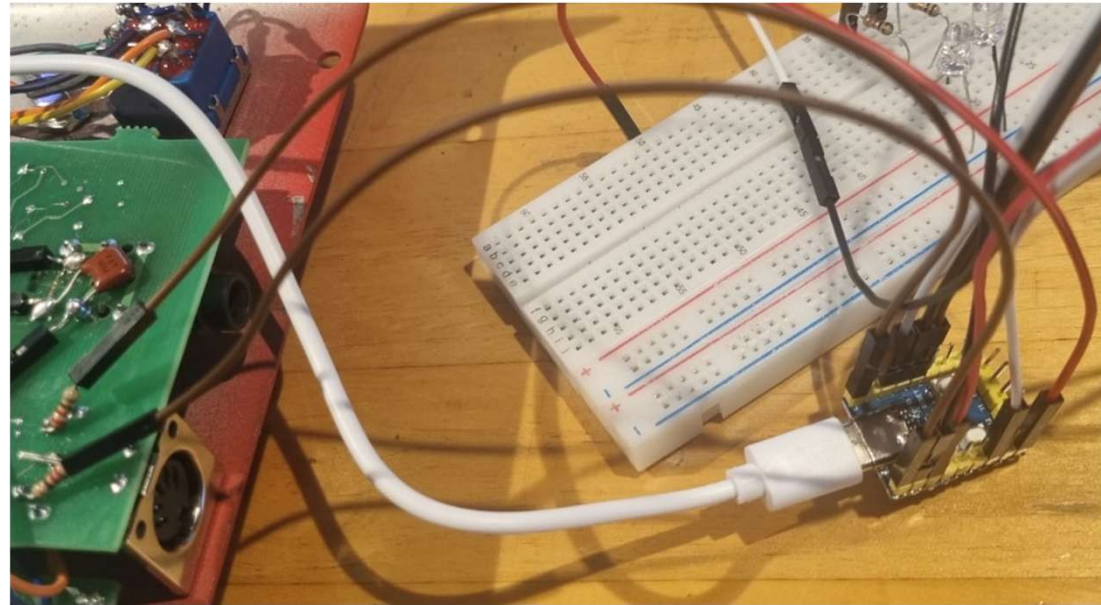
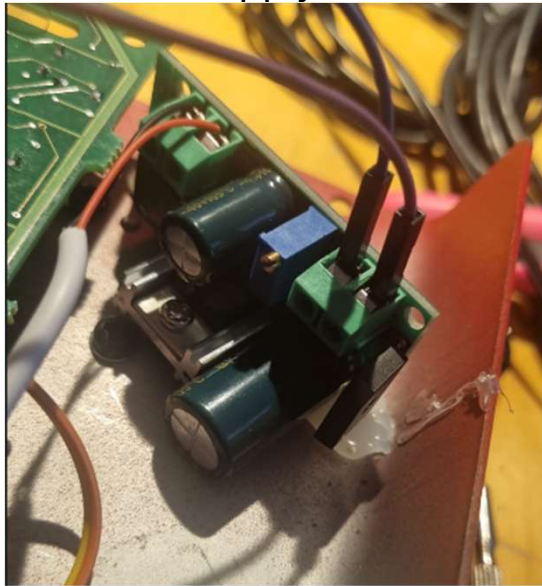
Voltage here!

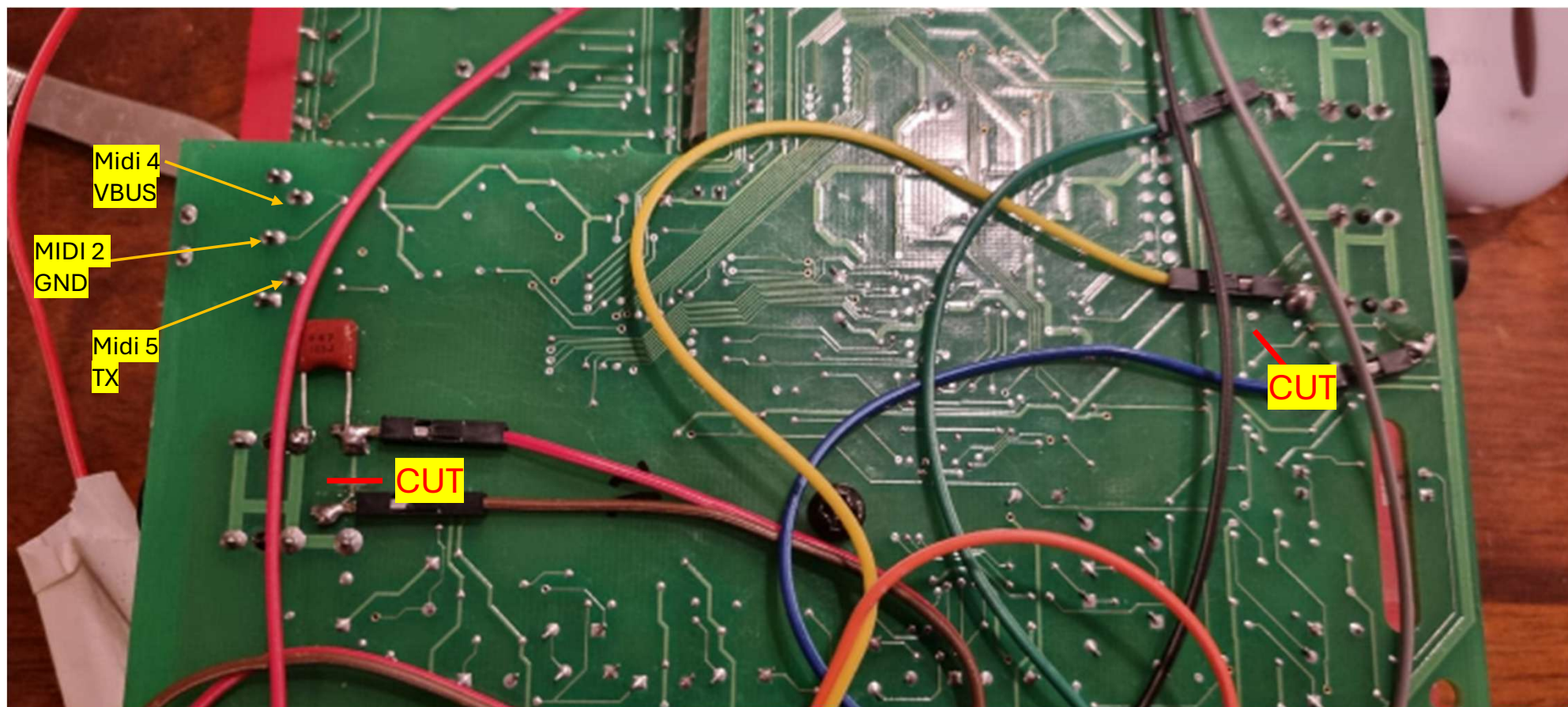


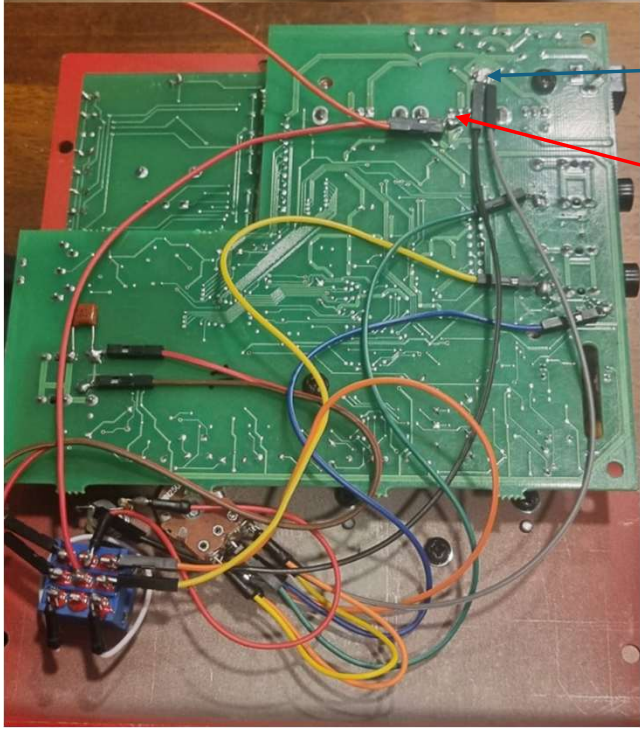
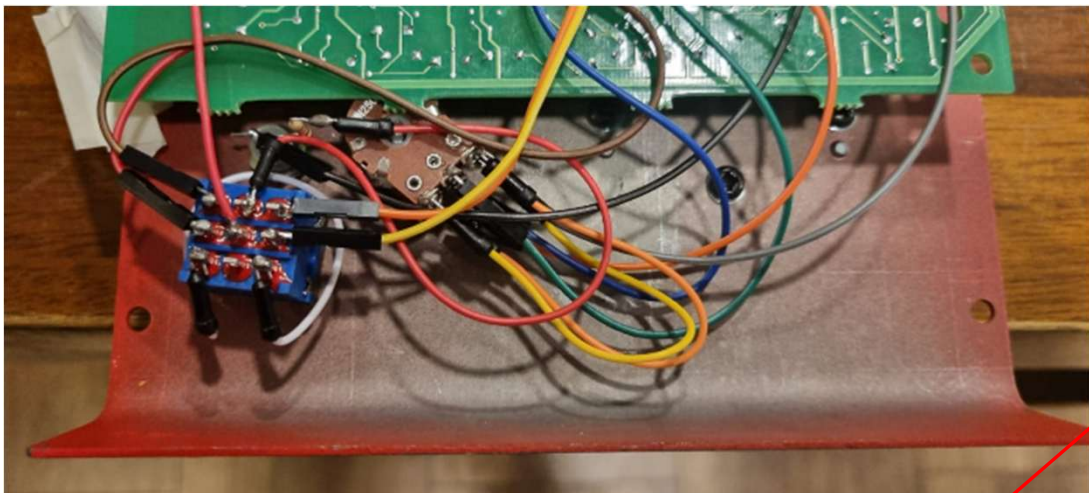
Power Supply **PLAN C**
MT3605 **OR** TPS61023



Power Supply

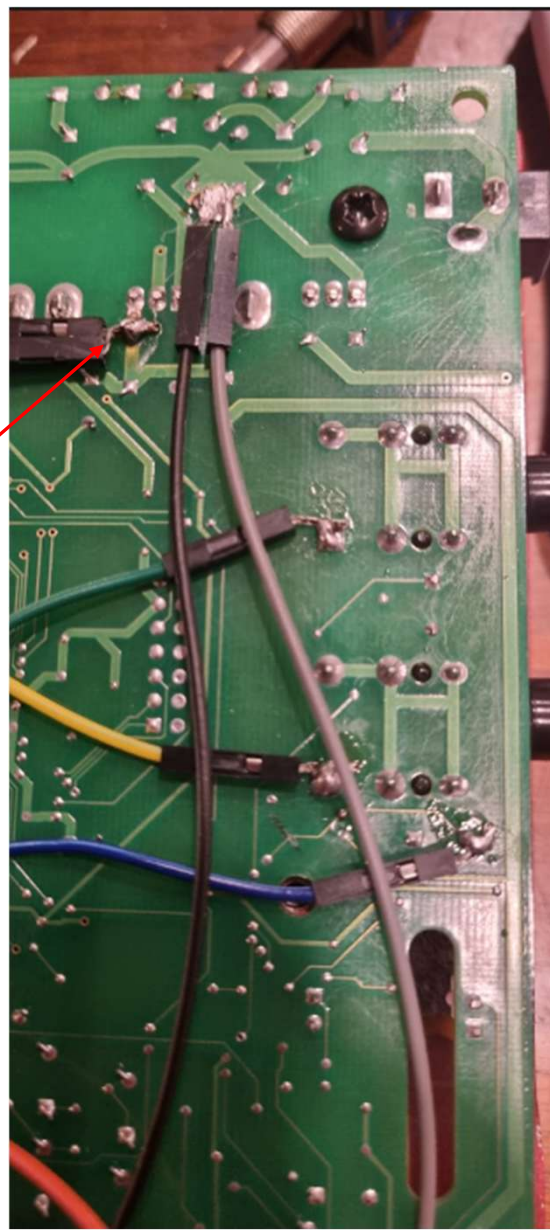






GND LED
HERE!!!

+5V LED
HERE!!!



EFFECT

DETUNE

SHALLOW

DEEP

WHAMMY

2 OCT

1 OCT

1 OCT

2 OCT

DIVE BOMB

DROP TUNE

HARMONY

1 OCT 1 OCT

1 5TH 1 4TH

1 4TH 1 3RD

1 5TH 1 7TH

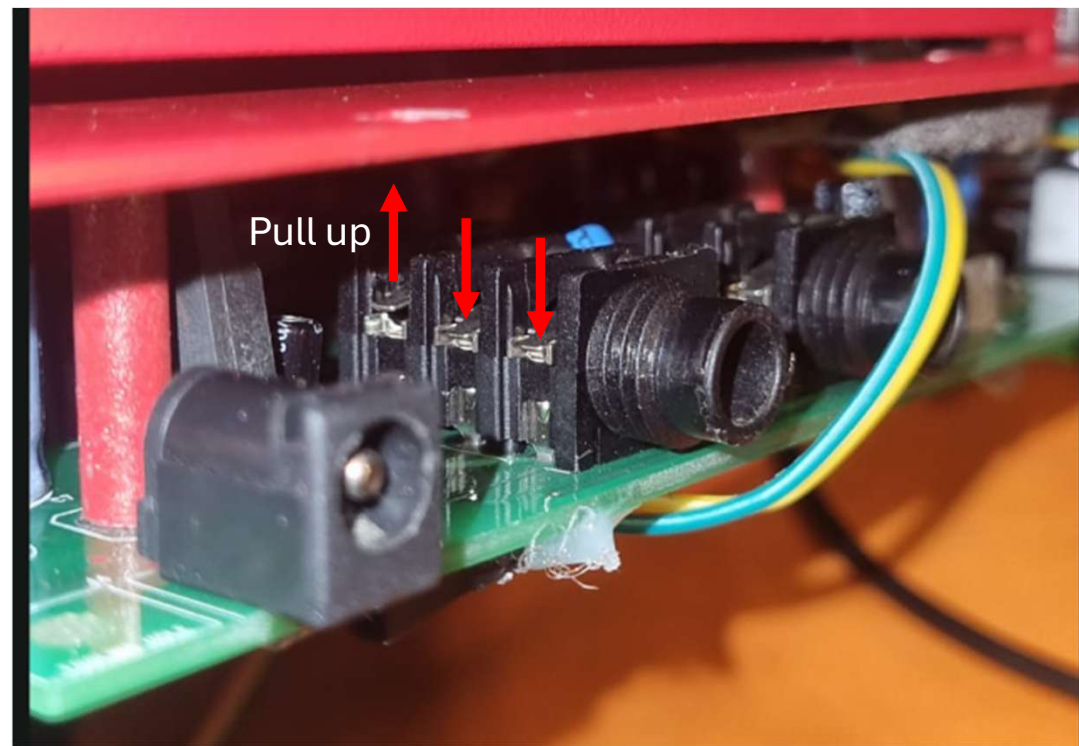
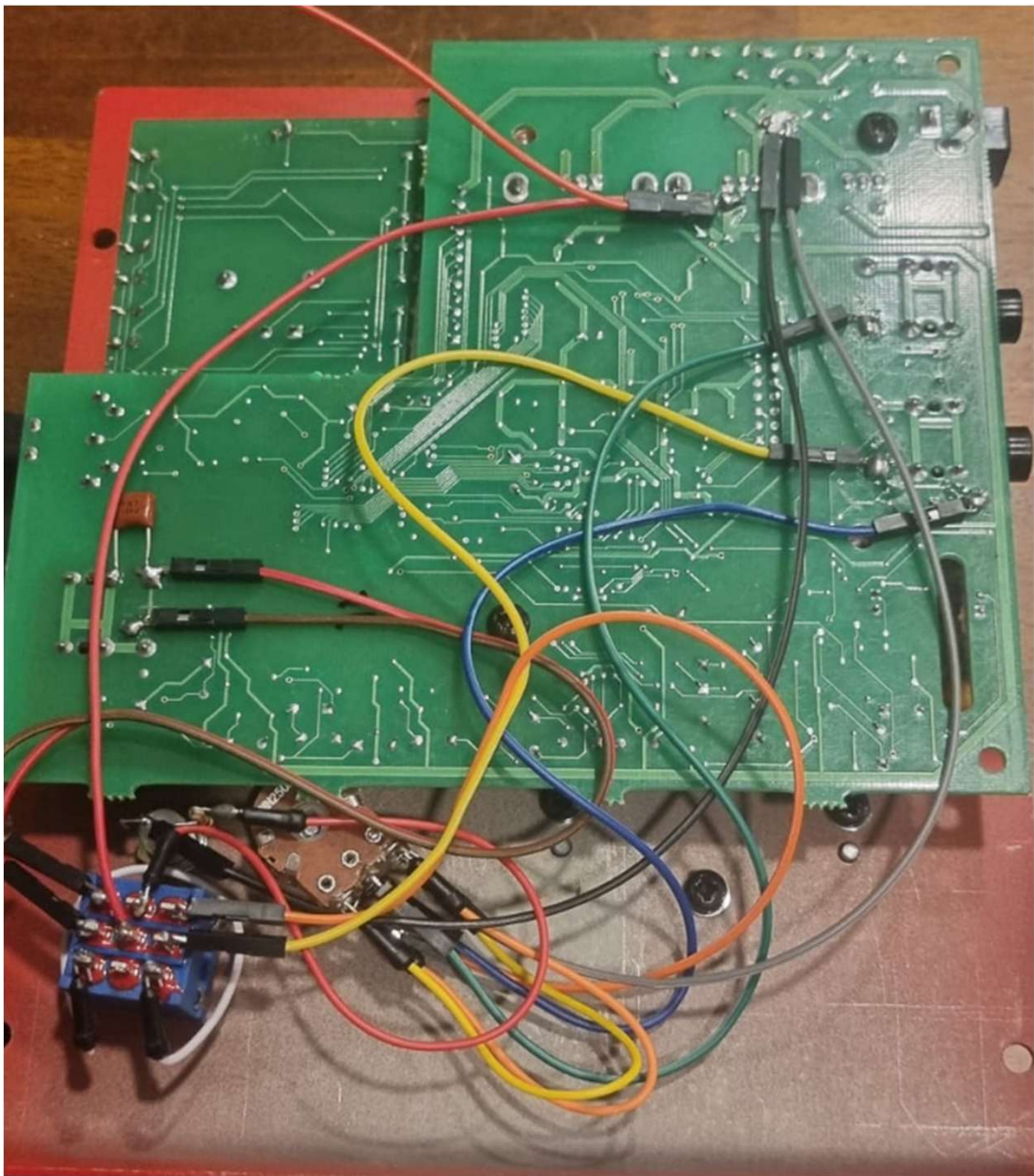
1 5TH 1 6TH

1 4TH 1 5TH

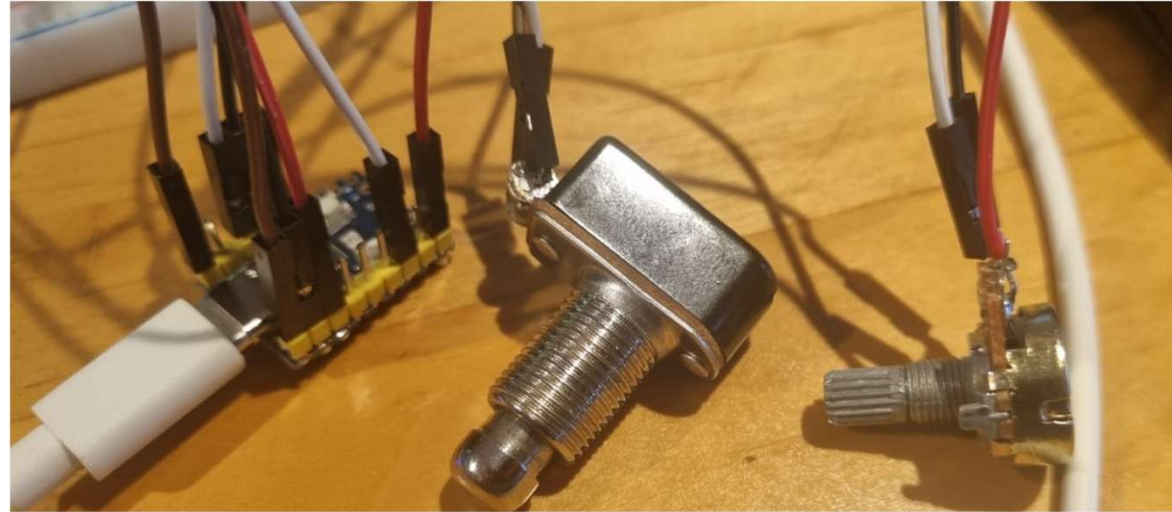
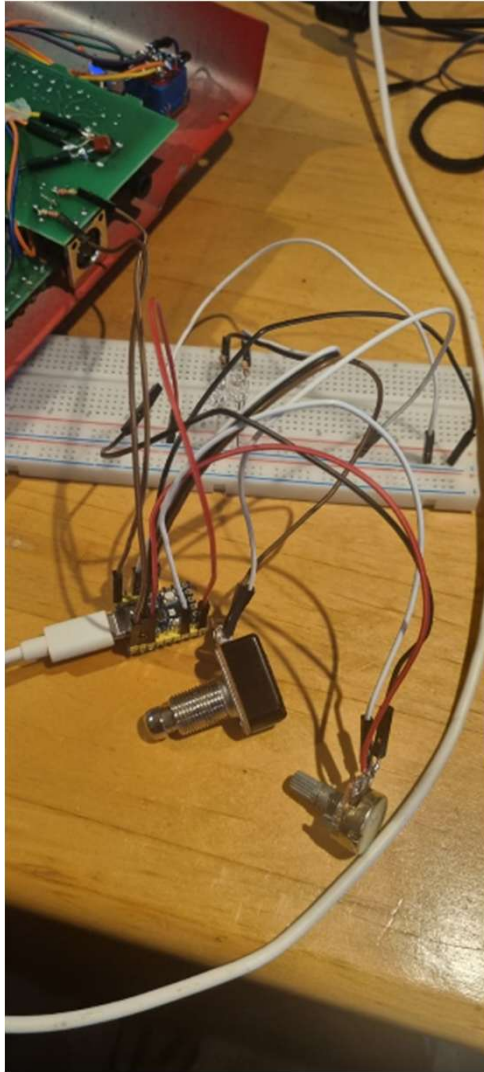
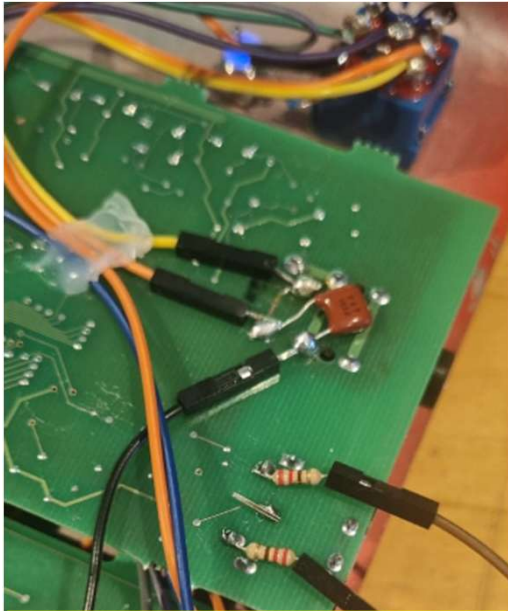
1 3RD 1 4TH

1 3RD 1 3RD

1 2ND 1 3RD



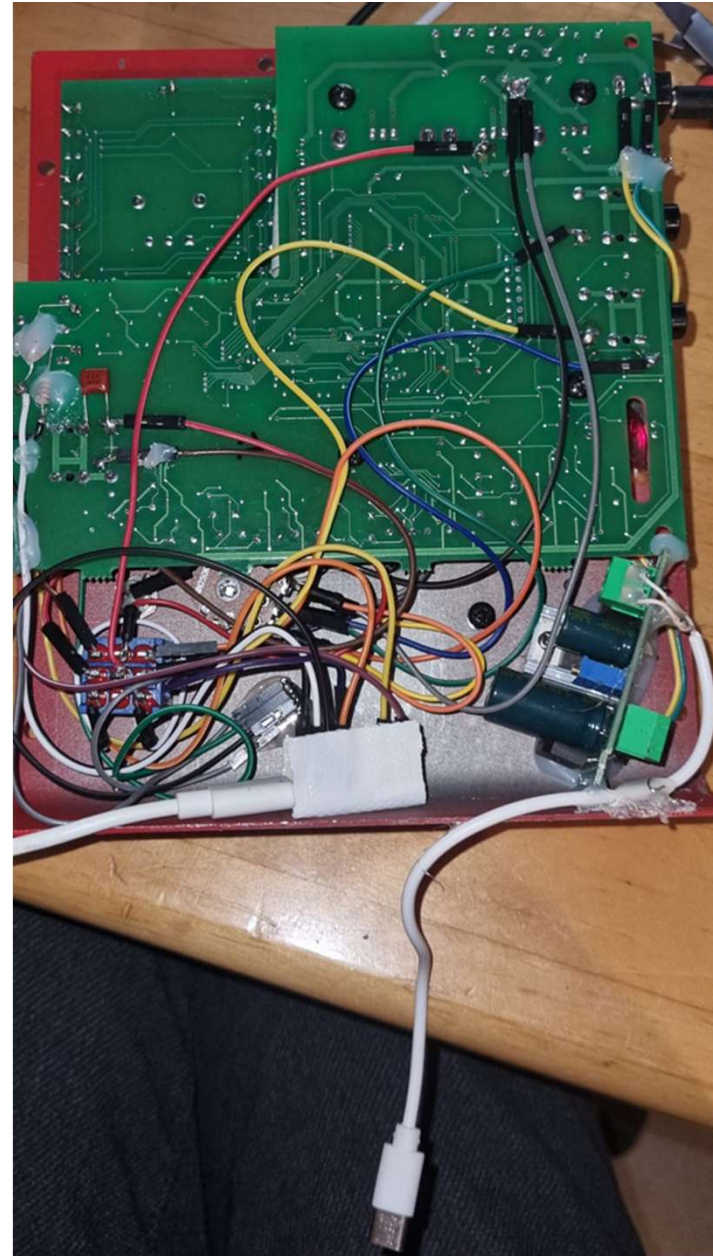
Midi Test



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

- 2 combinable effect presets

Final Front/Back



Flash NEO
Software

