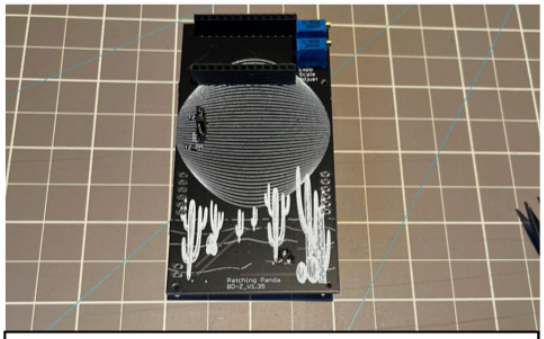
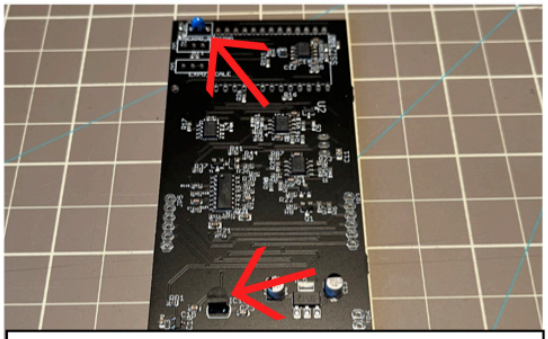
COMPLEX GRADE 🔴

This is a quite complex build. Please read all out to be aware to make this assembly as easy as possible. Follow the steps carefully.
If you make an error soldering the hardware it will be very hard to fix it if you are not an experienced DIYer.
Some components are tricky to align and solder.
Please double check.

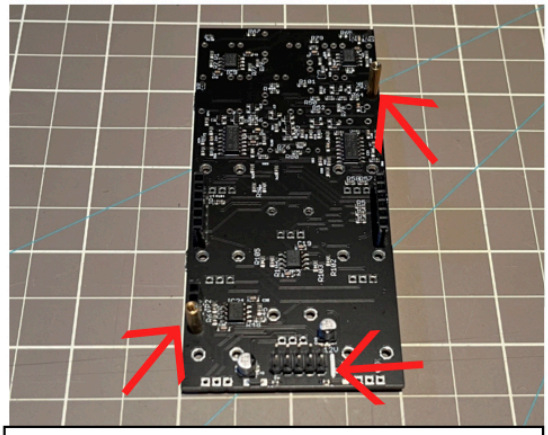
FOLLOW THIS STEPS FOR BUILDING THIS KIT



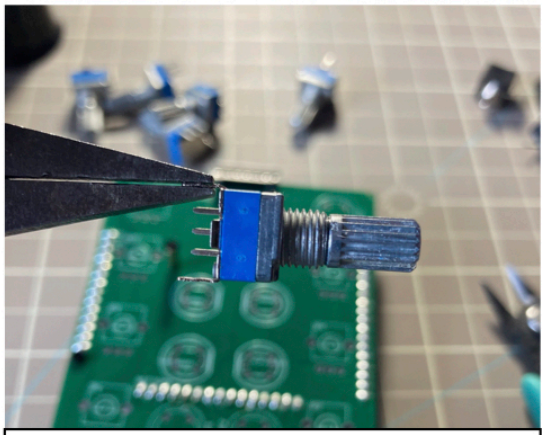
1. Beware! Solder the trimmers and the female sockets for the mini-PCB at the back of the main PCB. The SILKSCREEN of those components is incorrect.



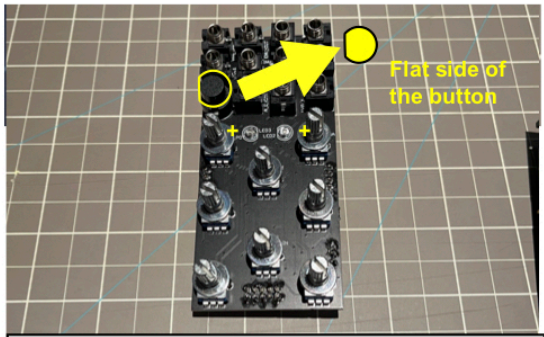
2. Solder the **3.9nF** cap and the -5V regulator as shown.



3. Screw the metal spacers and solder the power male connector.



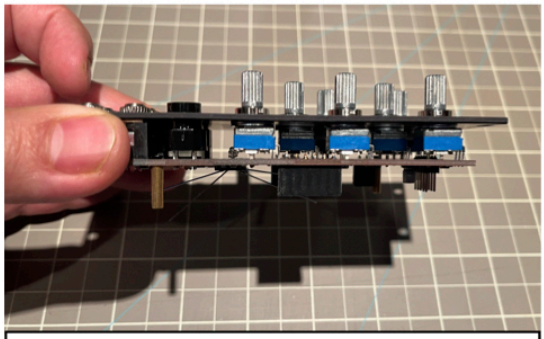
4. Straighten up the bracket.



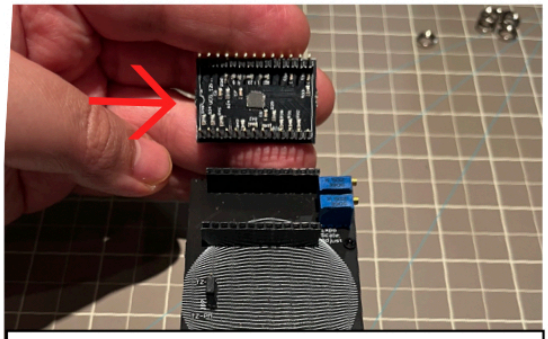
5. With a multimeter check LED colour, place the blue one on the left side, the orange one on the right side. Check the polarity of the LED´s, long leg goes to the positive. Same with the polarity of the button.

6. Place the rest of the hardware, screw the panel, DO NOT SOLDER YET.

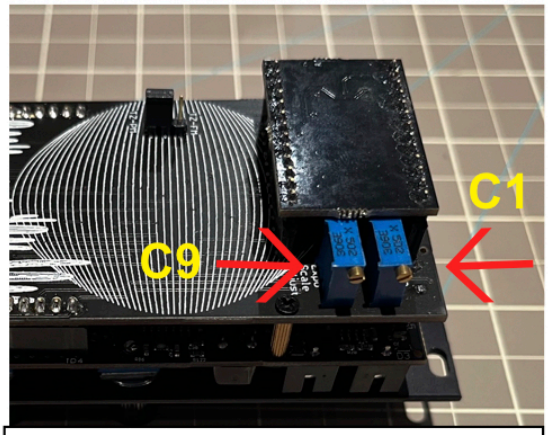
FOLLOW THIS STEPS FOR BUILDING THIS KIT



7. Pull the LED´s to the bottom, align the panel with the hardware, check the pots are pulled up, continue with the soldering.



8. Place the mini-PCB with the mark to the left.



9. The trimmer on the right will calibrate C1 and the trimmer on the left C9. Continue with calibration.

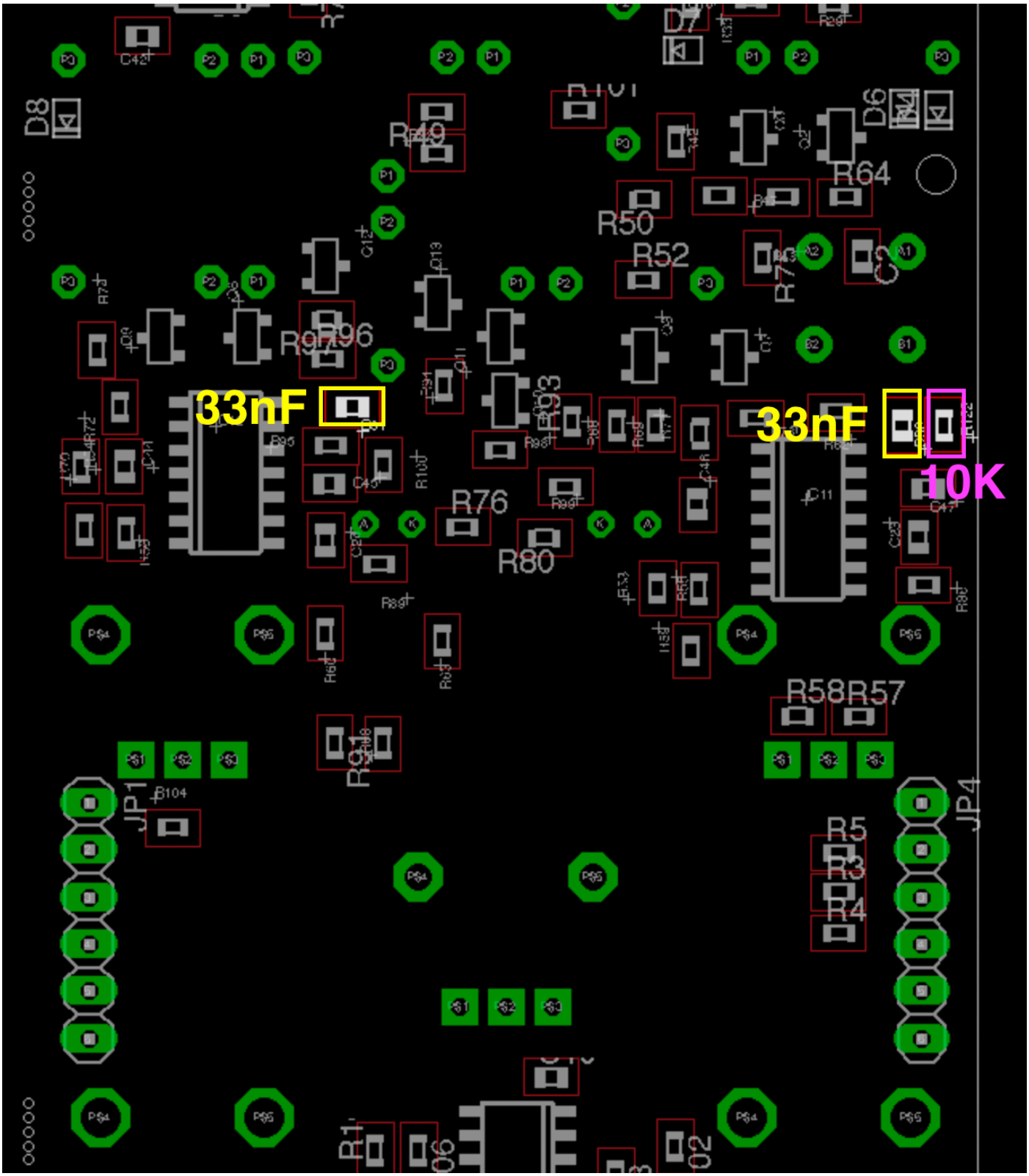
Updating BD-Z to have more punch in the attack

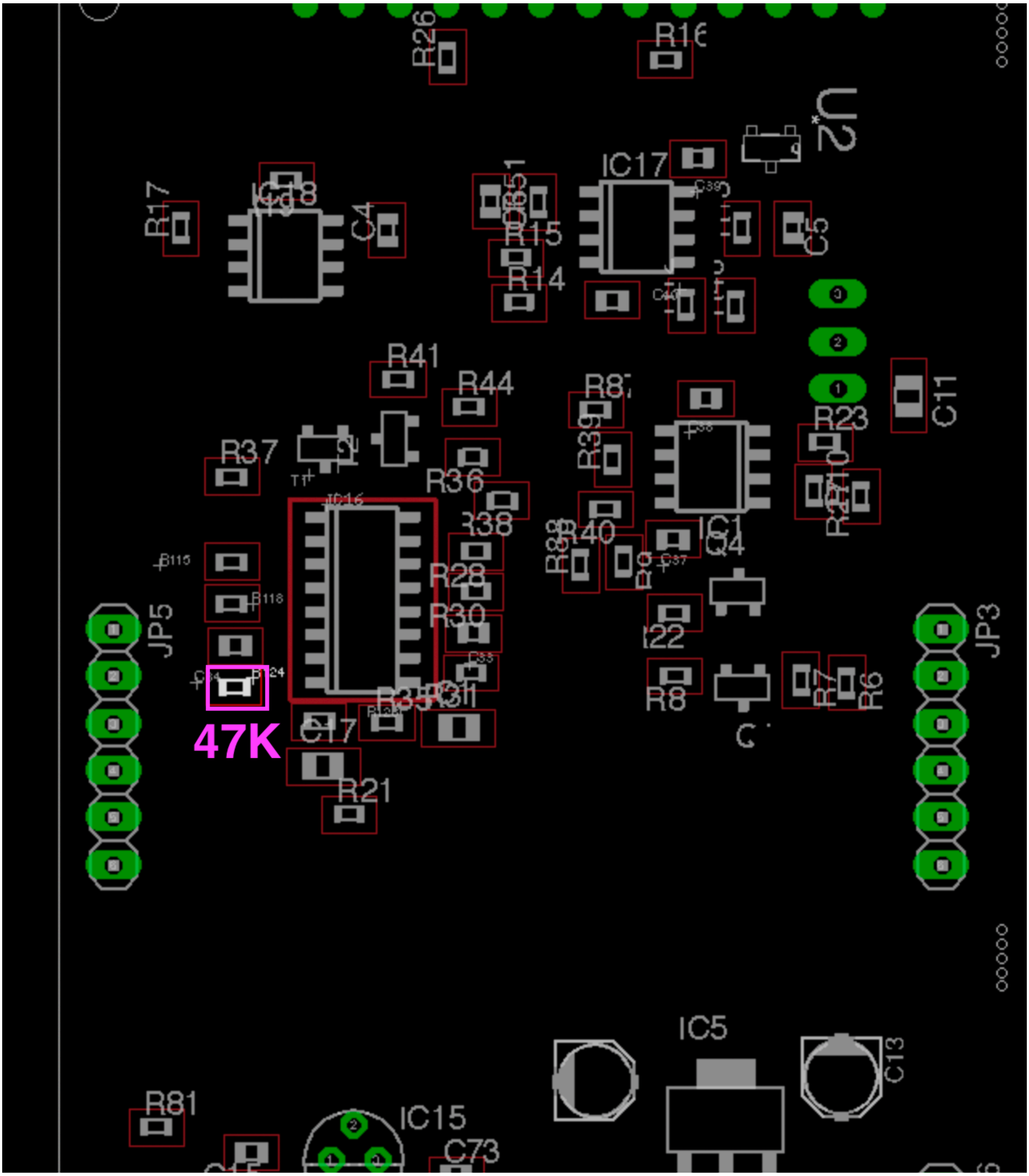
If your PCB is V1.36 or earlier you can desolder/solder a a couple of components to give more punch in the attack.

1. From the control PCB:
   C30 and C31 should be 33nF
   R122 should be 10K

2.From the main PCB:
   R124 should be 47K

Please check the images on the next page, we circled the components.
Let us know if you need more help with this procedure.


33nF
33nF
10K
R64
R50
R52
R76
R80
R58R57
JP1
JP4
R5
R3
R4
D8
D6
D7



R26
R16
U2
IC17
R17
C4
R15
R14
C5
R41
R44
R23
C11
R37
R36
R28
R30
R8
R7
R6
R21
C17
Q4
JP5
JP3
47K
IC5
C13
R81
IC15
C73