MiniMig

Instructions for installing Minimig v1.9ITX into new aluminum case

Step 1: Gather Your Materials

1. Minimig v1.9 ITX motherboard
2. New aluminum case
3. Screwdriver set
4. Anti-static wrist strap (recommended)
5. ESD-safe workspace (recommended)
6. Soldering iron (two soldering irons if possible)
7. 3D printed parts and screws (provided with the case)

Step 2: Prepare Your Workspace

· Set up your ESD-safe workspace if available to prevent electrostatic damage.
· Put on an anti-static wrist strap to ground yourself.

Step 3: Unpack the Aluminum Case

· Carefully unpack the new aluminum case and place it on a clean, flat surface.

Step 4: Prepare the Minimig Motherboard

· Ensure that the Minimig v1.9 ITX motherboard is clean and free of dust or debris.

What is included in the package?

1. Inner and outer parts of the case.
2. Two small LED buttons and one large LED button.
3. 3D printed standoffs for the Minimig printed circuit board.
4. Four 0-ohm resistors (805 size); I usually include 5, just in case.
5. 3D printed covers for the expansion port and HDMI port.
6. Four large case standoffs.
7. Four plastic feet for the case.
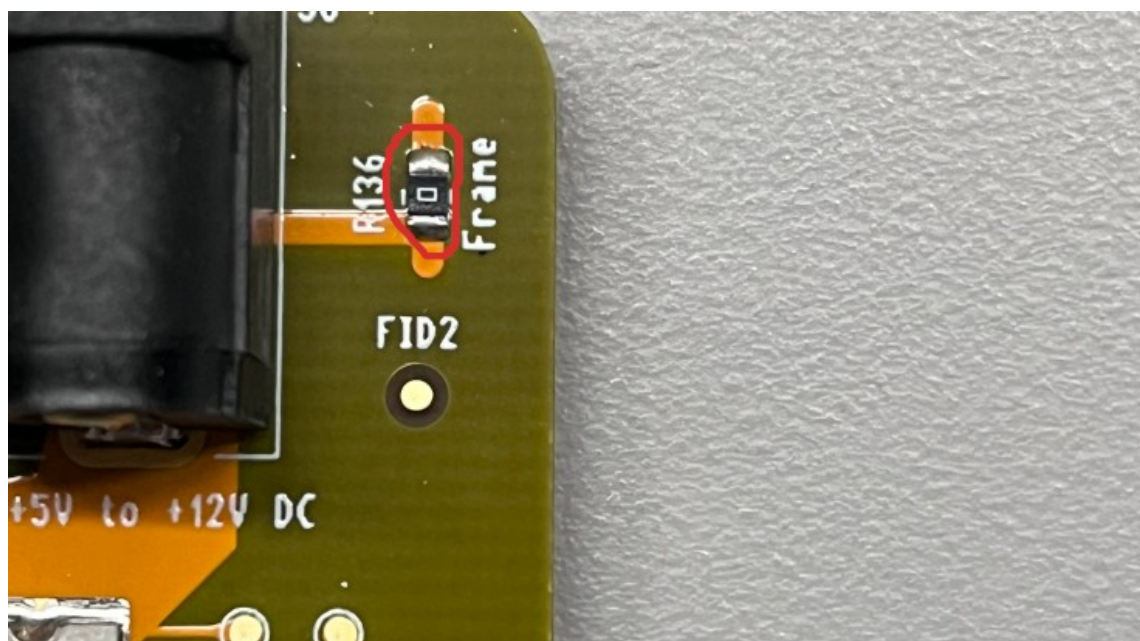8. 16 screws, plus a few extras as spares.

Assembly

Step 1: Replace D11 and D12 (LEDs) with 0-ohm resistors.

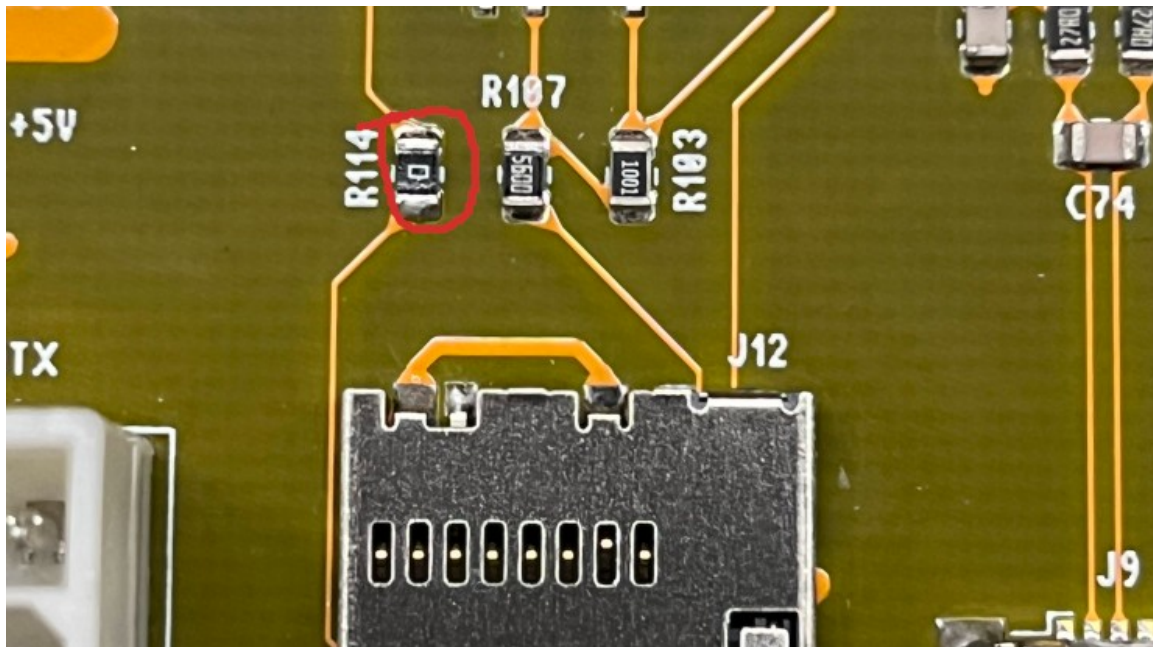- This is necessary to ensure that the new LED buttons receive the proper voltage.
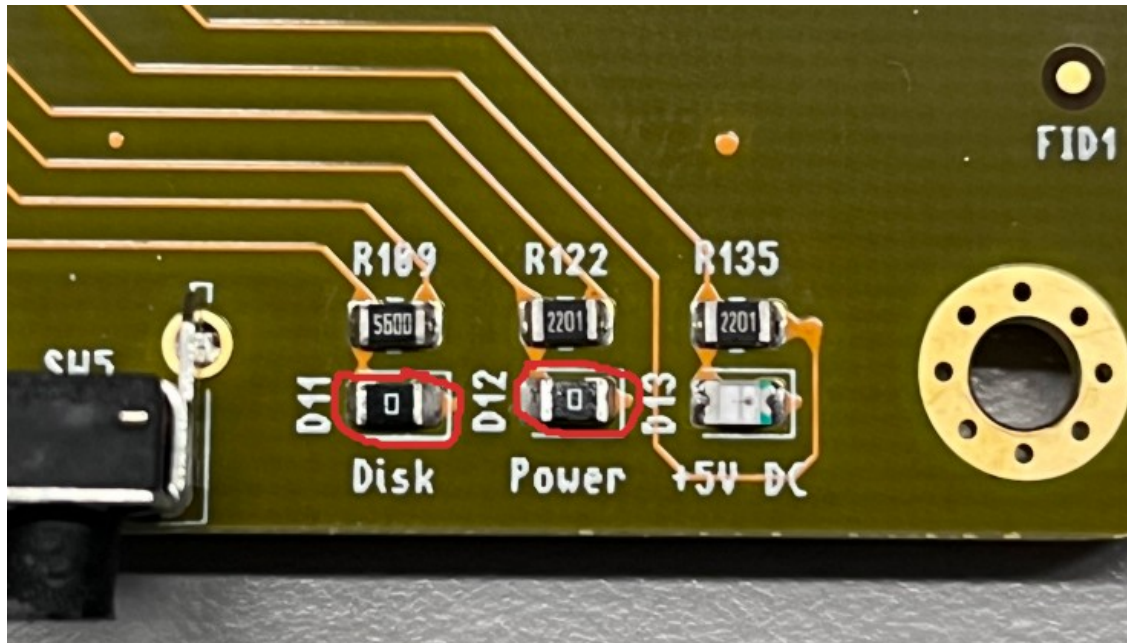
Step 2: Replace R136 with the 0-ohm resistor.

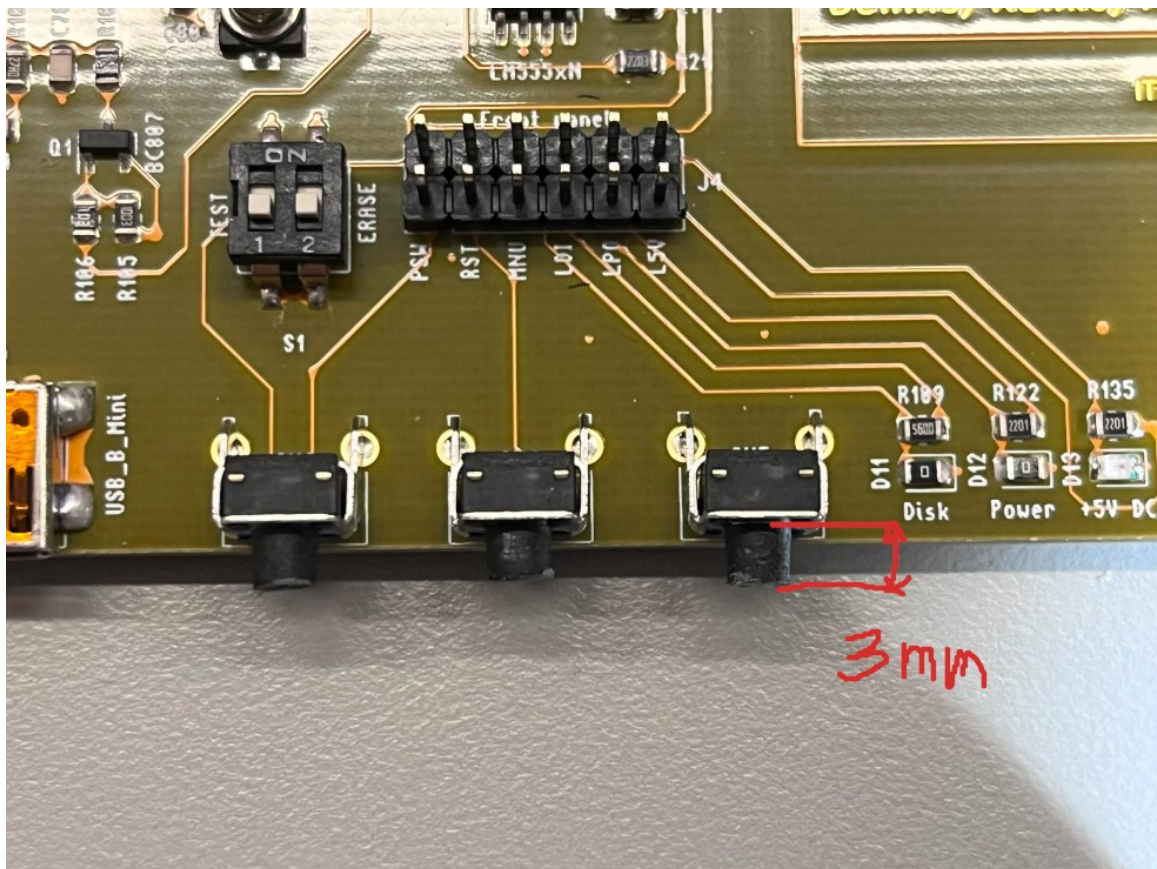- The location is the upper right corner of the board

Step 3: Replace R114 with a 0-ohm resistor.

- This change is not directly related to the case installation requirements but significantly improves SD card compatibility.
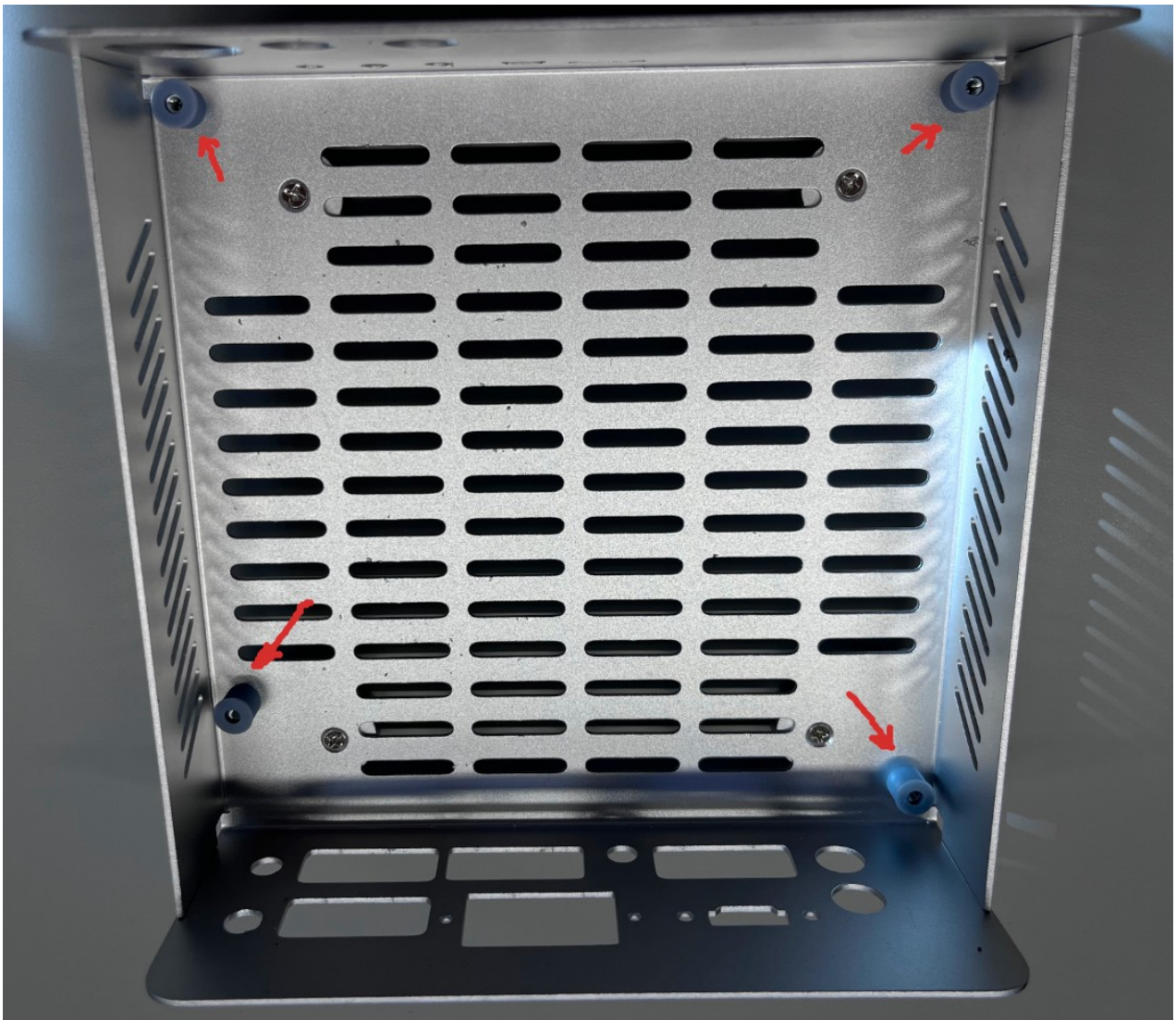

Step 4:
If your front buttons are the long type (above 3mm), trim the buttons to approximately 3mm.

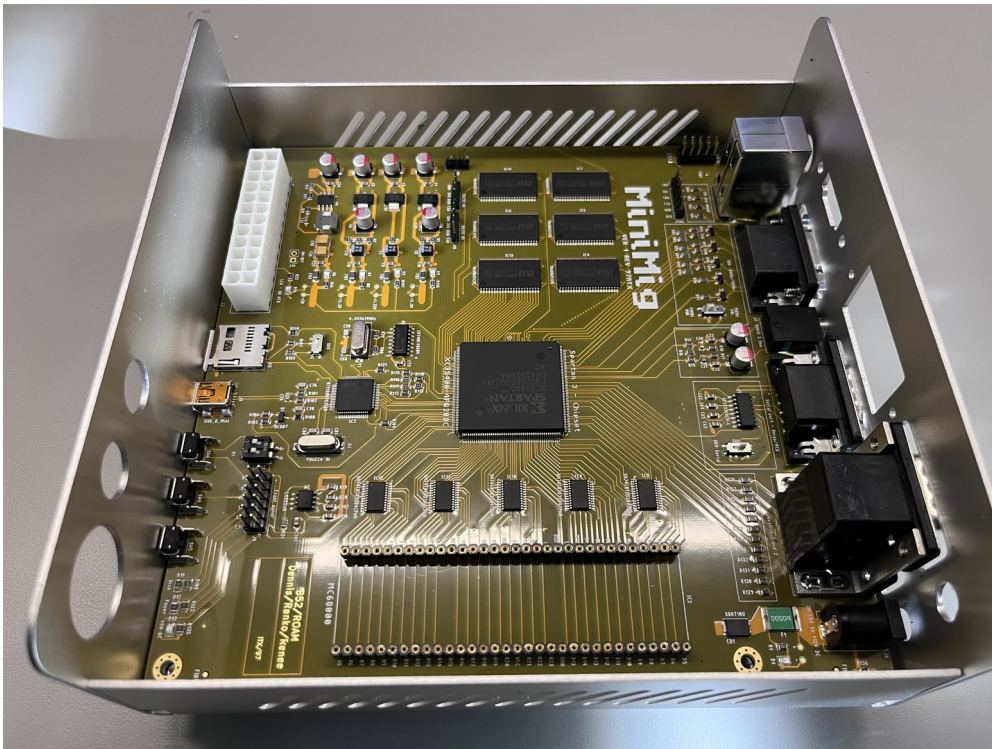**Step 5: Install case standoffs in all four corners.**

Step 6: Insert plastic standoffs for the Minimig PCB.

Step 7: Install the Minimig PCB. Gently push the front of the case. Be very careful! Avoid applying excessive pressure to prevent damage to the case. Ensure that the SD card is NOT inserted and that the PCB is properly aligned.
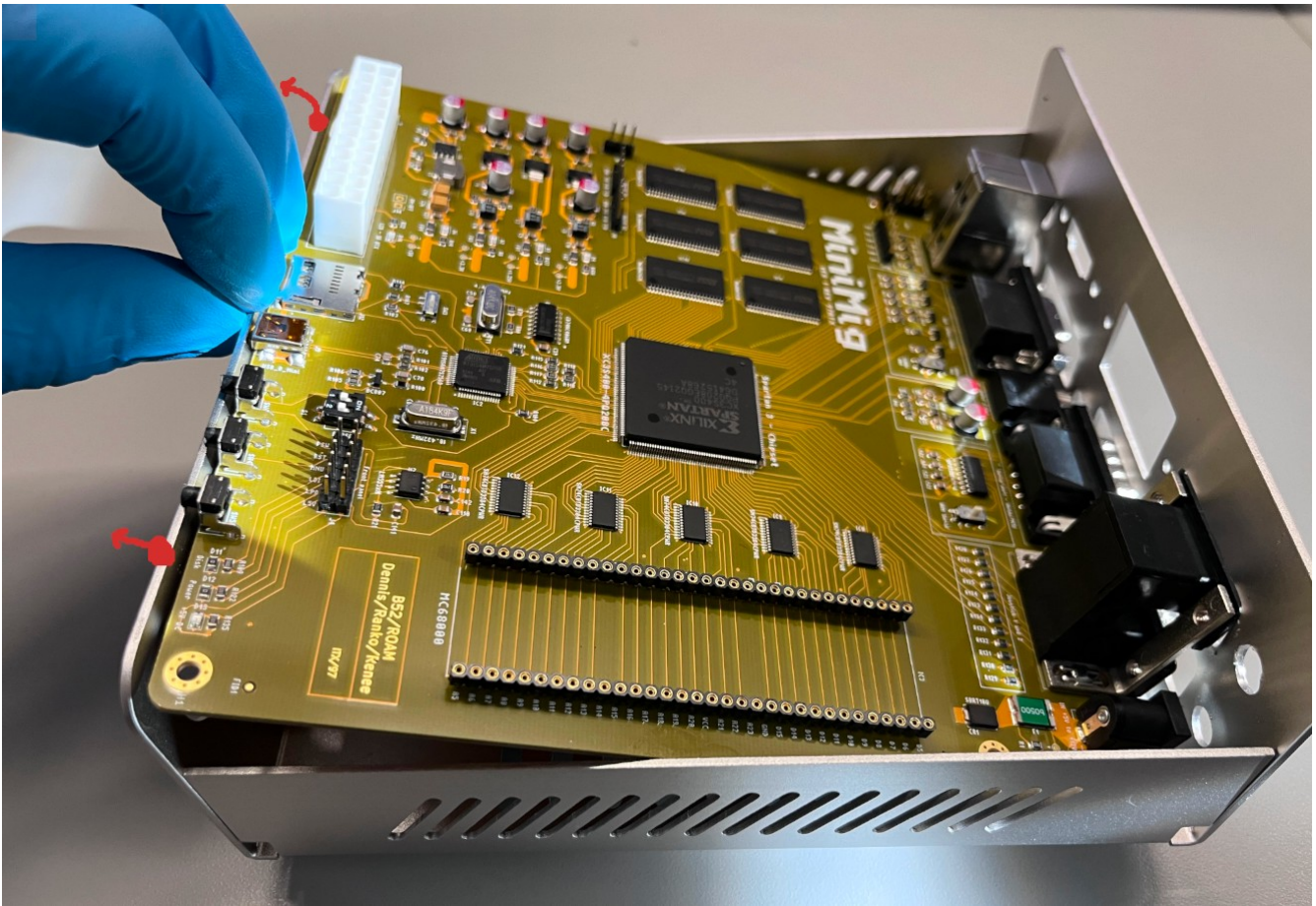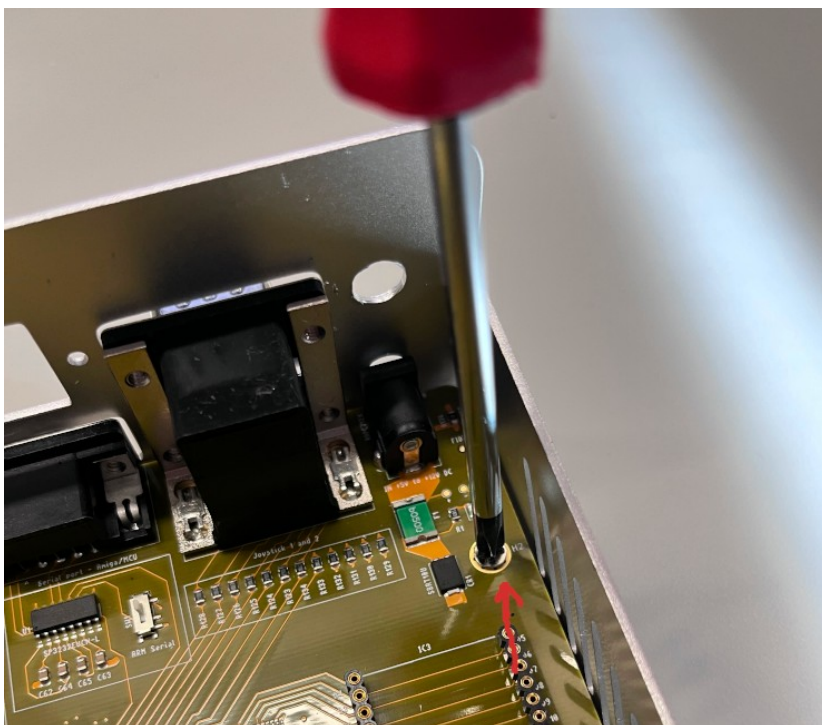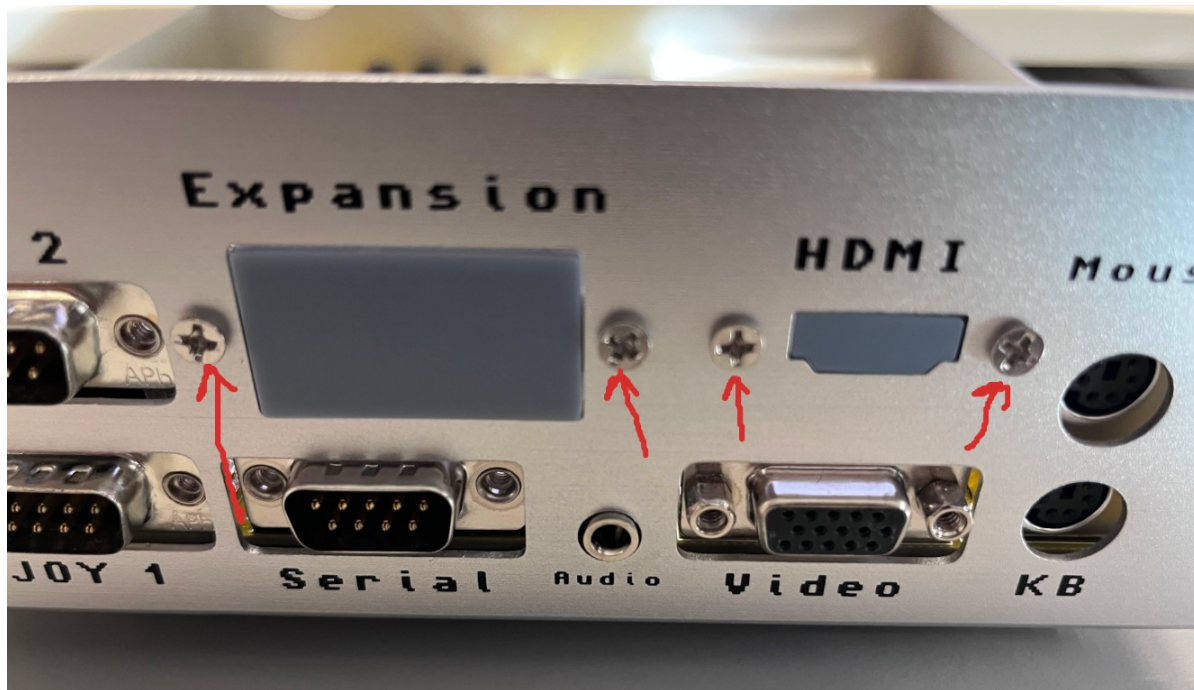

Board is in.

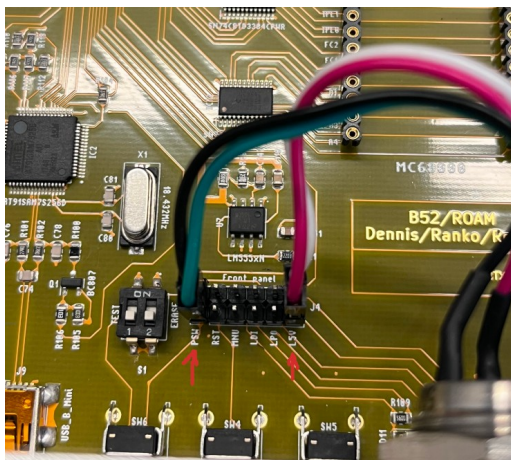Make sure that the buttons and ports are all properly aligned

Step 8
Screw the board in place at the four designated locations.
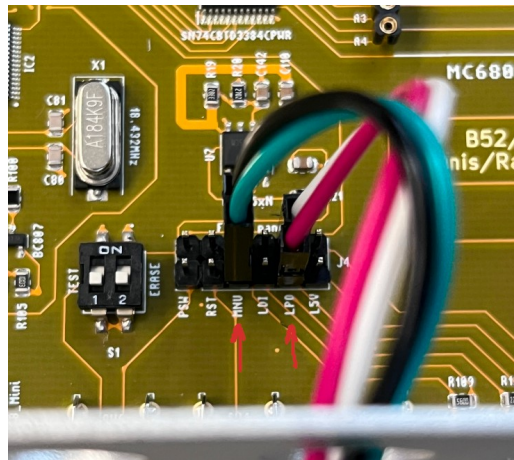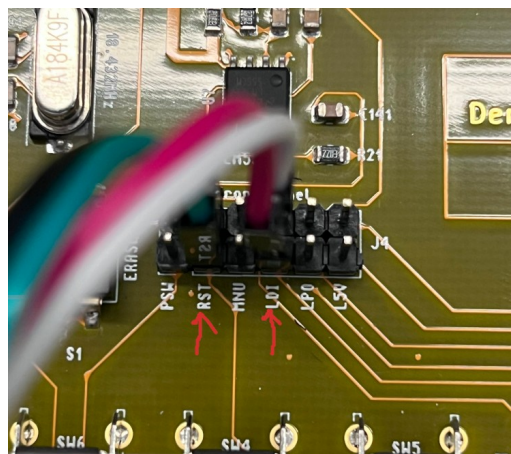
STEP 9
Install the expansion and HDMI panels

STEP 10
Install the LED buttons. Refer to the images for instructions.
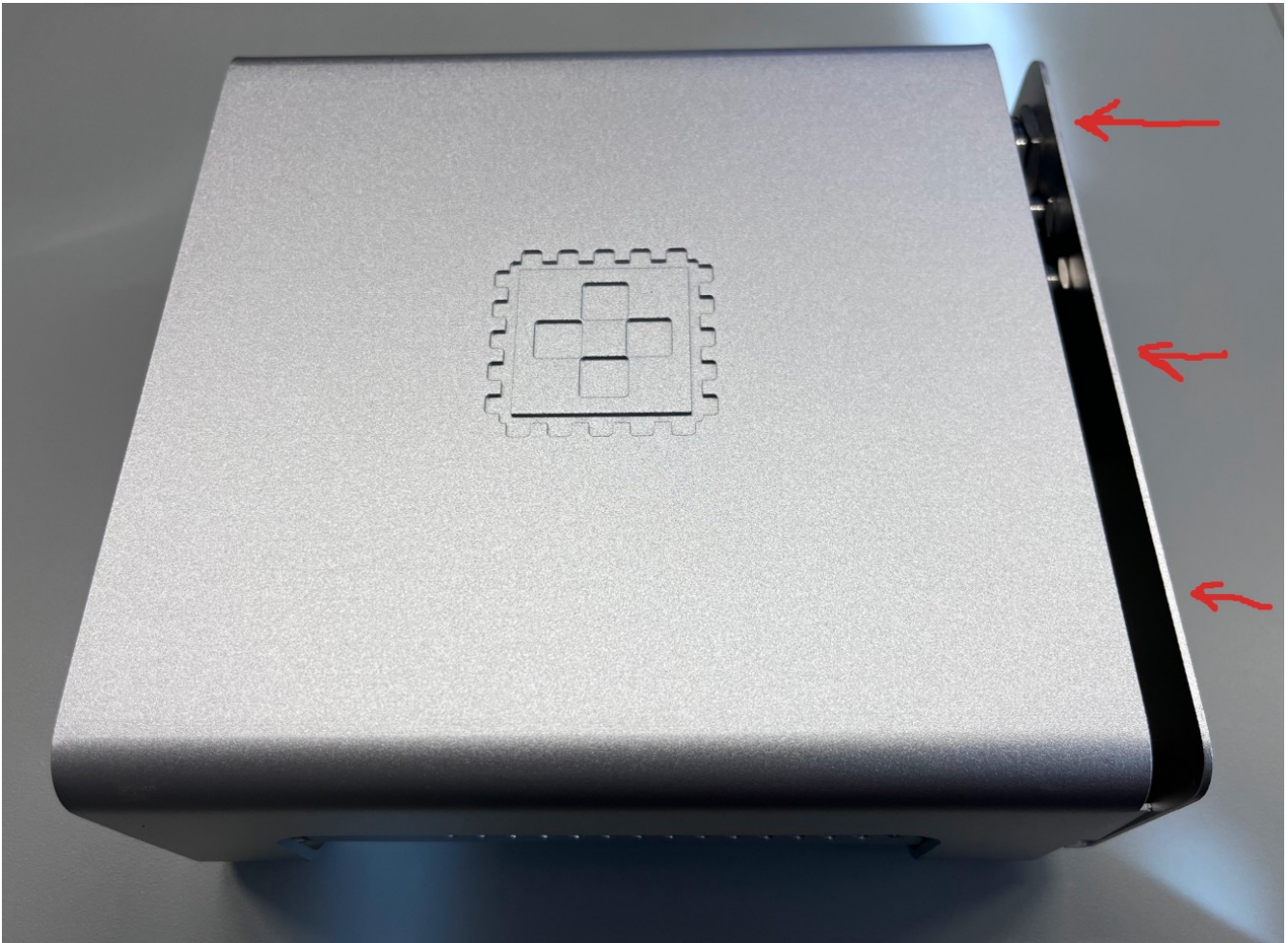

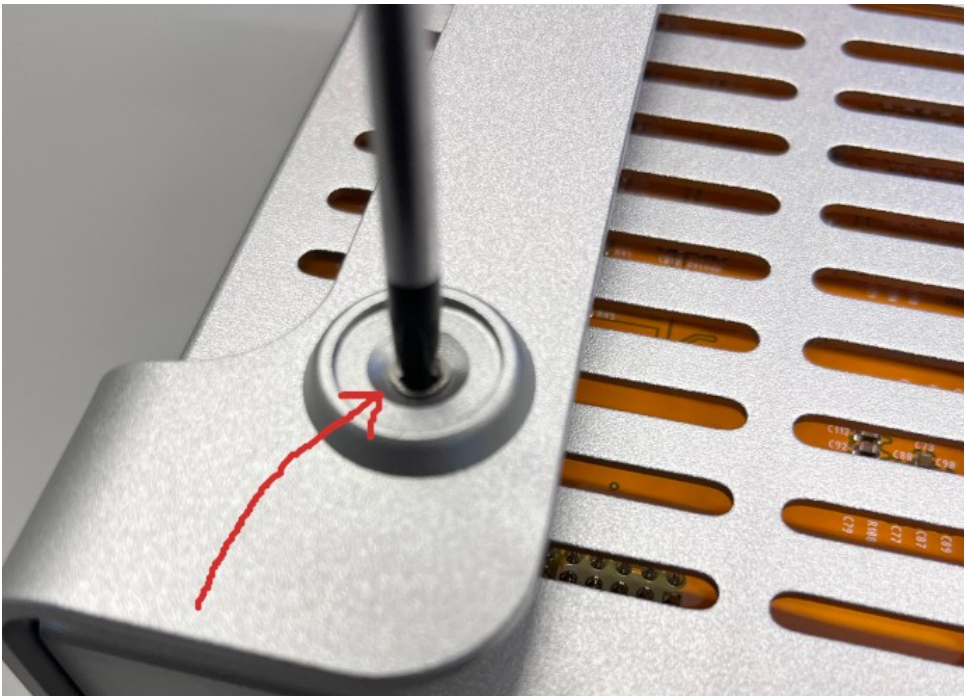POWER Button

SYSTEM Button

HDD Button

STEP 10
Connect the bottom and the top covers of the case by sliding them together.

STEP 11
Attach the case feet at the four designated locations using screws.

All done!

Side note about replacing the resistors

This step is crucial. The easiest way to accomplish it is by using two soldering irons (refer to the image). However, as previously mentioned, if you lack experience and skills, do not attempt this on your own. It is quite easy to damage the board. Seek assistance from someone who is capable. The entire replacement process should take approximately 1-5 minutes.