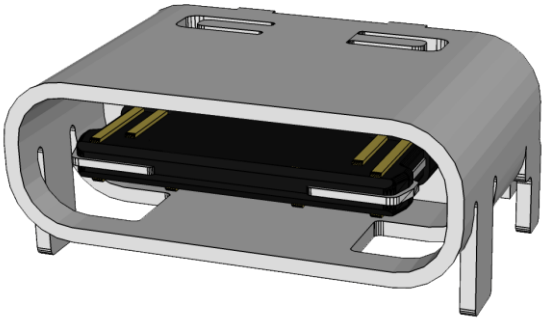
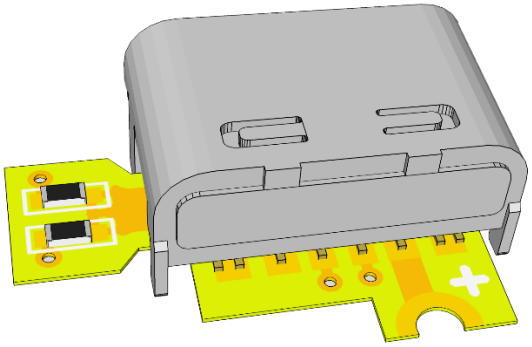
USB-C MOD
FOR NINTENDO DS LITE



CONNECTOR VERSION



BOARD VERSION

PRODUCT

HTTPS://SHOP.GILTESA.COM/PRODUCT/NINTENDO-DS-LITE-USB-C-CONNECTOR

HTTPS://SHOP.GILTESA.COM/PRODUCT/NINTENDO-DS-LITE-USB-C-KIT

PLEASE READ THROUGH THESE INSTRUCTIONS ENTIRELY BEFORE ATTEMPTING TO INSTALL.

WARNING: IF YOU ARE NOT COMFORTABLE WITH SOLDERING, OR PERFORMING ANY STEP IN THIS GUIDE, DO NOT PERFORM THE INSTALL YOURSELF. FIND SOMEONE WHO IS COMFORTABLE TO DO IT FOR YOU.

INDEX

DESCRIPTION

This product is a special USB-C connector which can be used to be directly soldered on the Nintendo DS Lite mainboard.

FEATURES

- The USB-C connector match 100% perfect with the original connector shape and legs polarity.
- Charging your Nintendo DS Lite with:
  - USB power banks
  - USB-A chargers
  - USB-C chargers*
  - USB-C PD chargers (normal speed, not fast)*
  - USB-A to USB-C cables
  - USB-C to USB-C cables*

* *Only the board version.*

INCLUDED

- USB-C connector or USB-C board *(depending on the version you chose)*

RECOMMENDED / REQUIRED [NOT INCLUDED]

- Tri-wing and Phillips screwdriver
- Soldering iron
- Tin
- Desoldering pump
- Desoldering mesh
- Isopropyl alcohol

NOTES

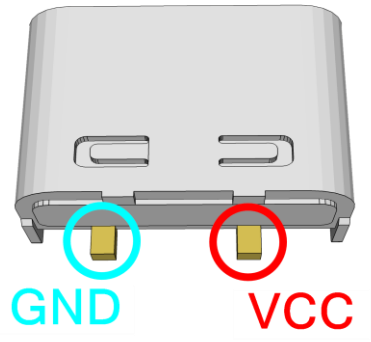
The connector version is not compatible with USB-C to USB-C cables; only standard USB to USB-C cables work.

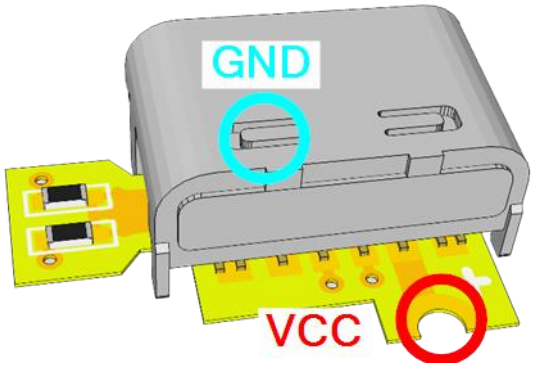
The board version, however, is compatible with any cable or charger.

TEST THE BOARD!

Before starting the installation, you should test the board. If it doesn't work contact me for a replacement *(all boards are fully tested, but they may damage during the shipping, we try to package them as better as possible),* **if it works, go ahead with the installation**.

Connect the power from your USB charger to the USB-C connector on the board. Then, with a multimeter in voltage measurement mode, **check for a 5V reading. If that's the case, continue with the installation.**





INSTALLATION STEPS

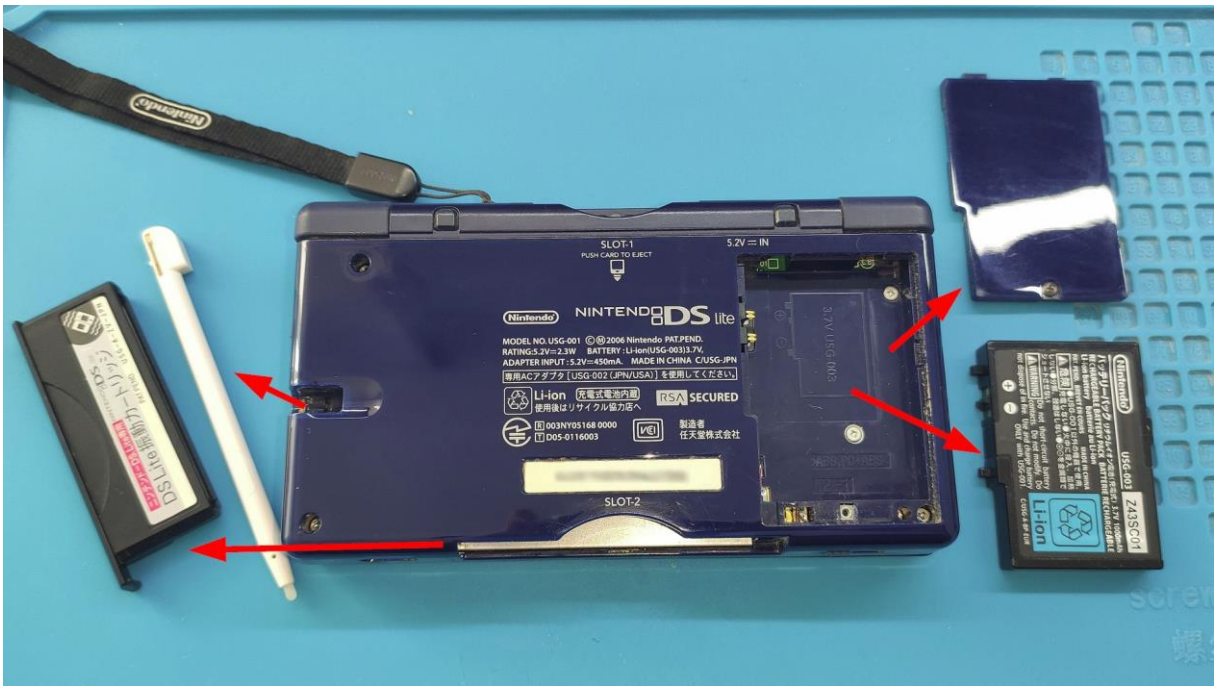
Please, carefully read the following steps for a successful installation.

PRE INSTALLATION STEPS

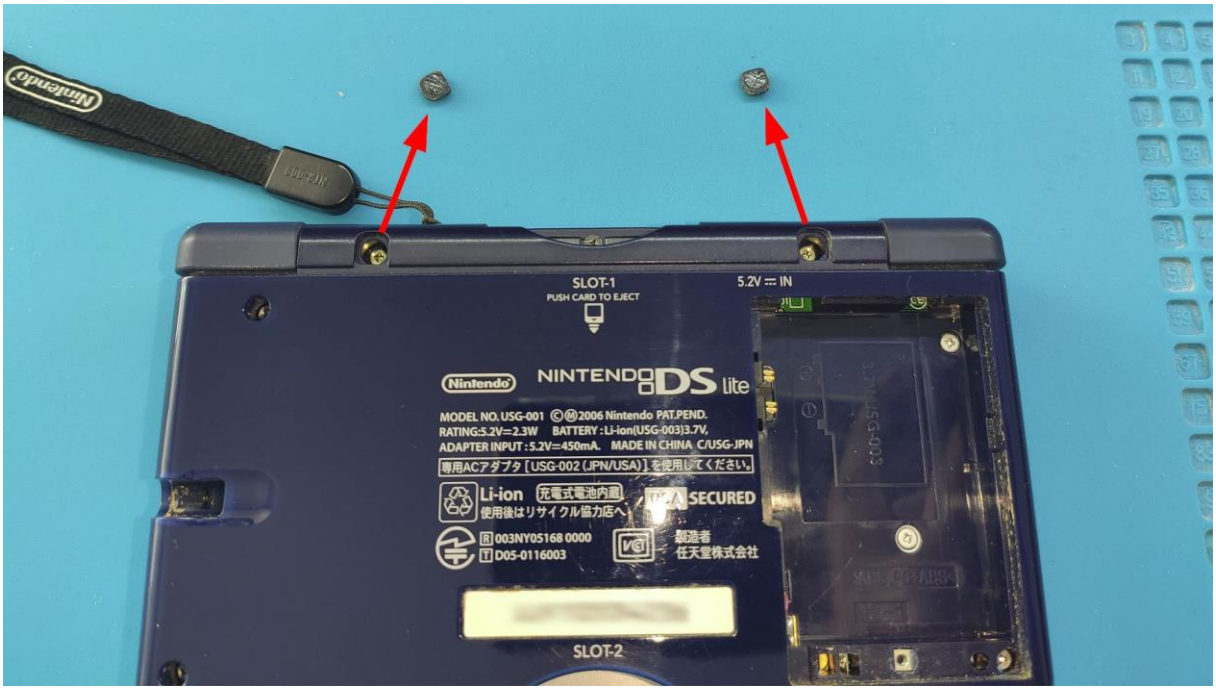
Before the installation, your Nintendo DS Lite may need some extra steps to have it ready for the kit.

1. DISASSEMBLY THE NINTENDO DS LITE

Nintendo DS Lite use the **tri-wing** and **phillips screws** to close the shell. First remove the game cartridges, stylus, and battery.



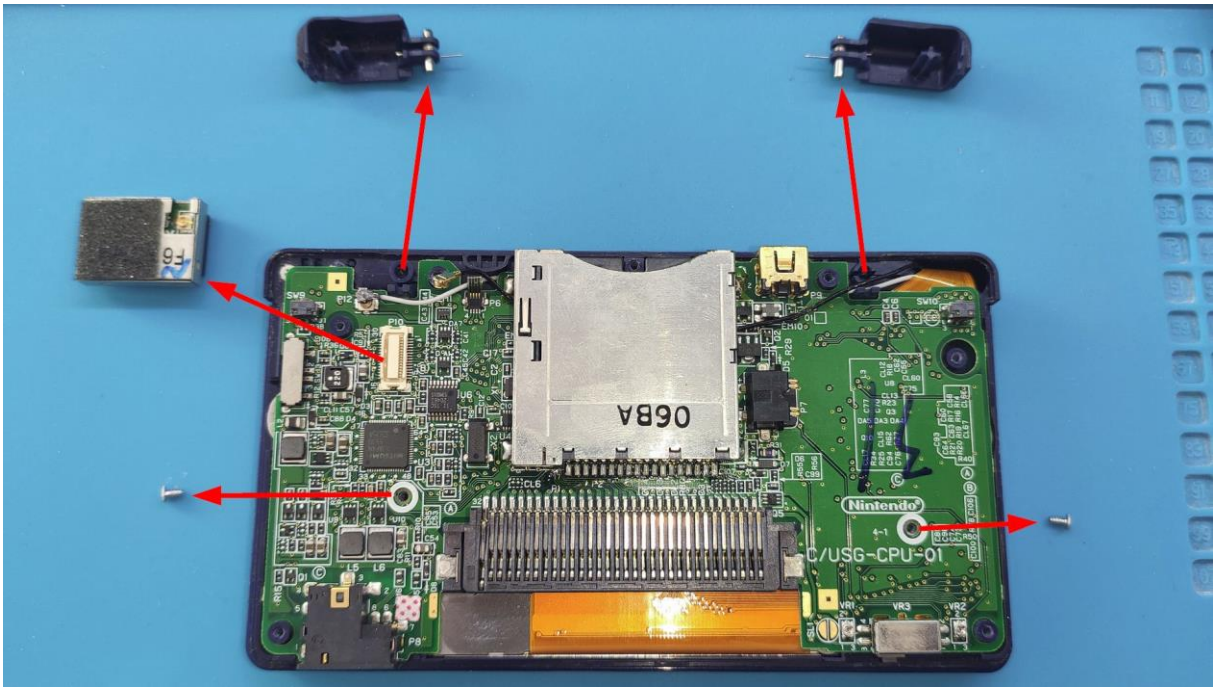
Then remove the two-screw **silicon covers.**



And the seven screws which hold the bottom plastic shell.

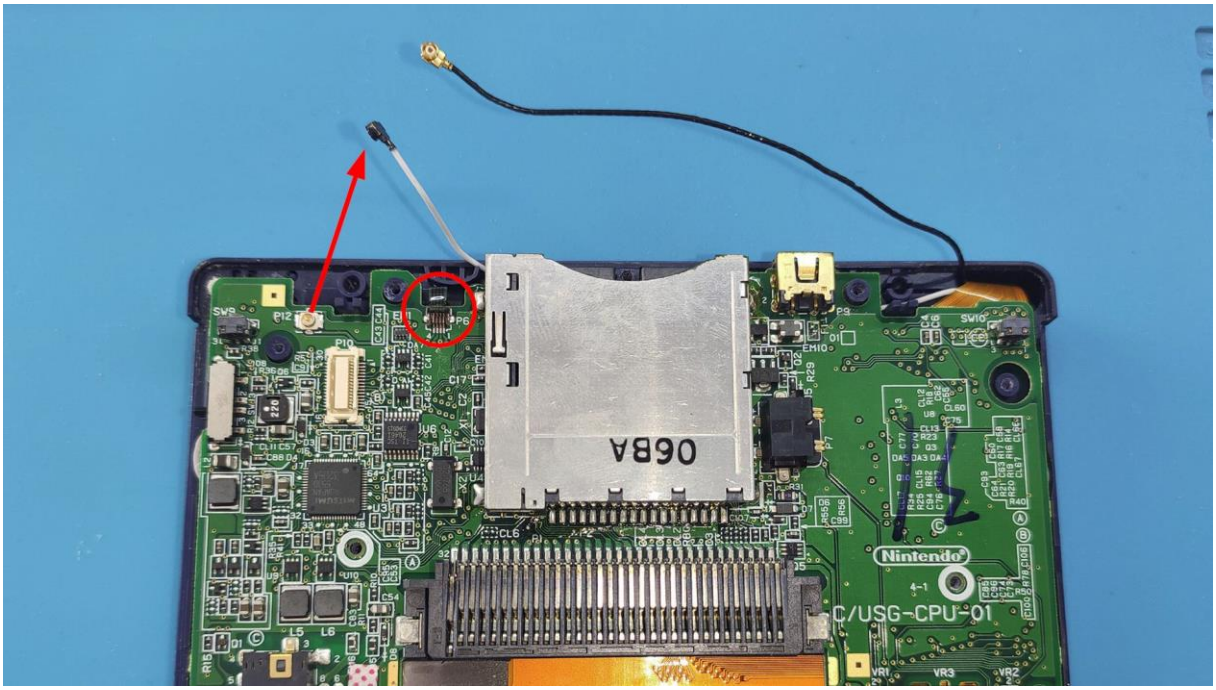
Once the mainboard is exposed, it needs to be removed from the top shell.

Remove the L and R buttons, the WiFi module (disconnect the black cable) and the two screws:

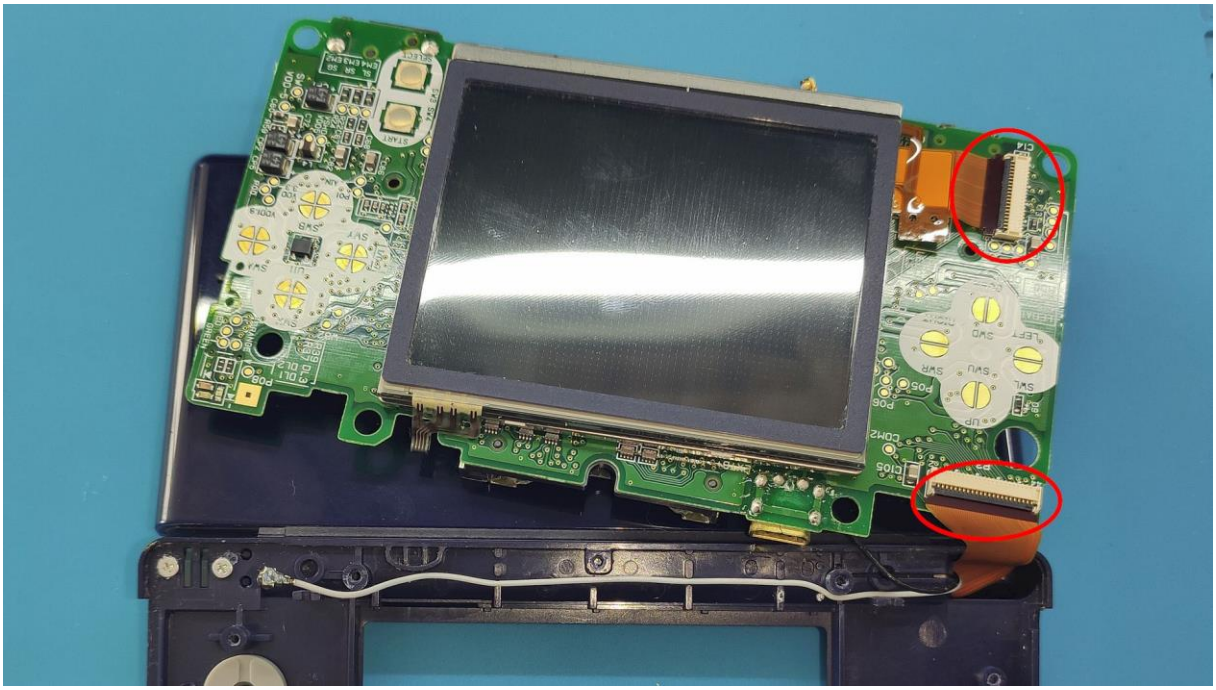


Then, disconnect the white cable and the flex cable (**Lift up on the plastic retainer**, grasp the cable, and **pull back** to disconnect it)

The black cable is under the DS cartridge reader, remove the cable sliding it to the right.



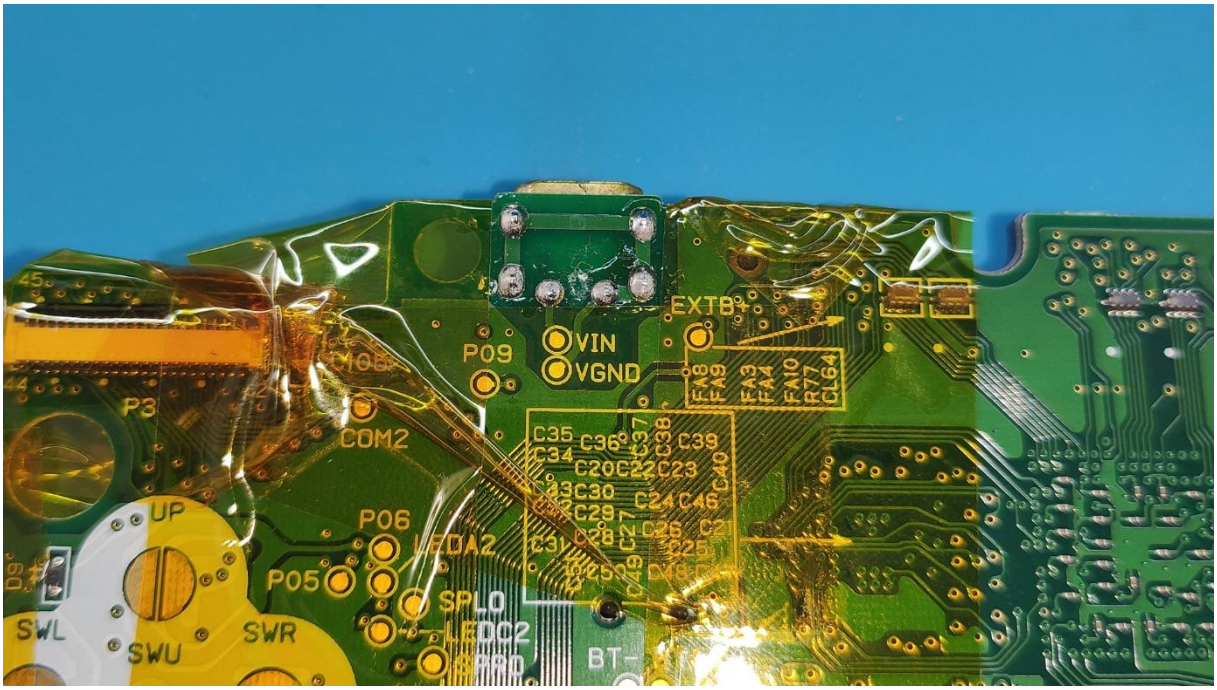
Remove the board with the bottom screen. Once you can see the two screen cables, disconnect them (**Lift up on the plastic retainer**, grasp the cable, and **pull back** to disconnect it)



INSTALLATION STEPS

1. PROTECT THE NEAREST COMPONENTS

Use Kapton tape to protect and avoid any damage to the electronic components that are next to the connector.

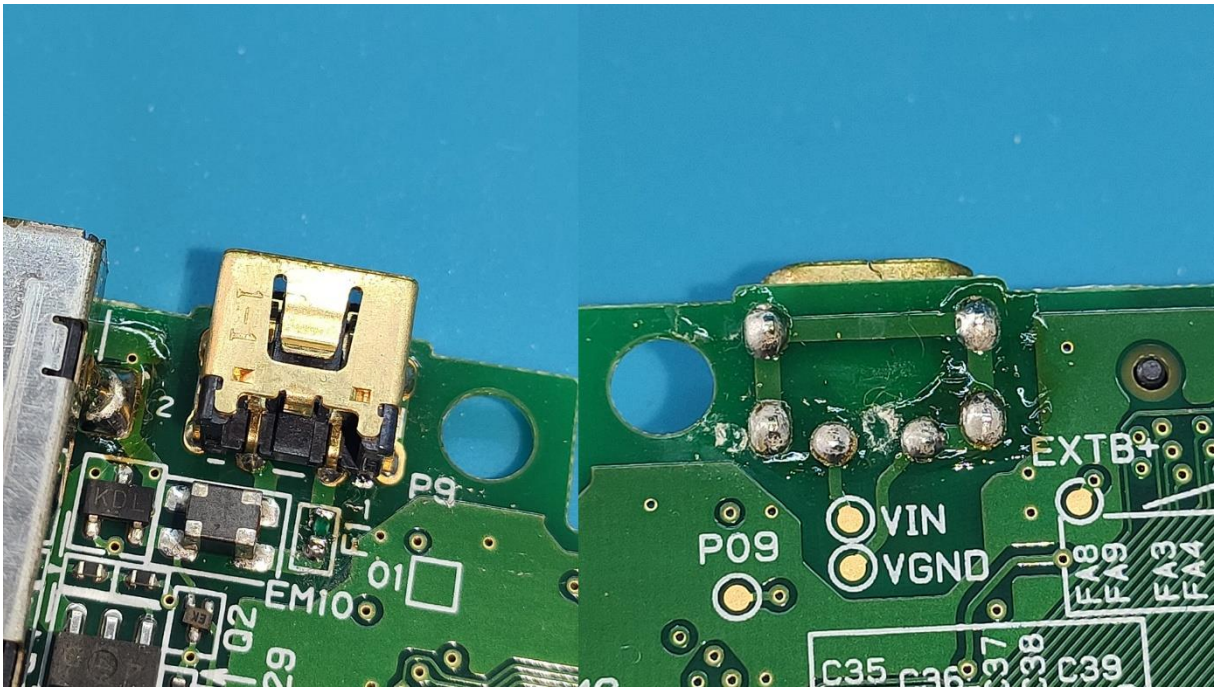


2. *REMOVE UNNECESSARY COMPONENTS*

This installation only requires removing the power connector. However, it has many legs, and it may be hard to remove.

If you have an air solder station, you can remove it easily, but protect perfect the nearest places with Kapton tape or something may be burn.

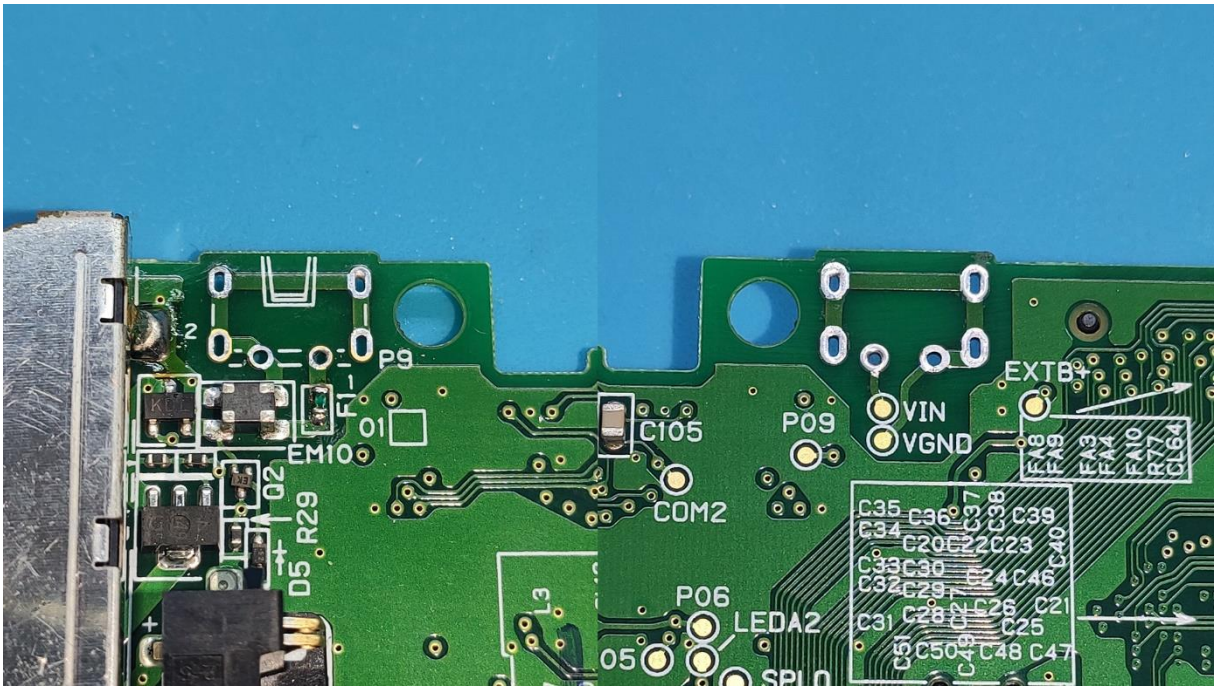
Otherwise, the recommendation is using a **desoldering pump** which will help to remove the tin from each hole/pad.



Start removing the tin from the VIN leg, which is easier. Then continue with the VGND leg which is connected also to the 4 connector shield legs. If you heat enough the 5 legs will melt at the same time and then the connector will move down.

3. CLEAN THE BOARD

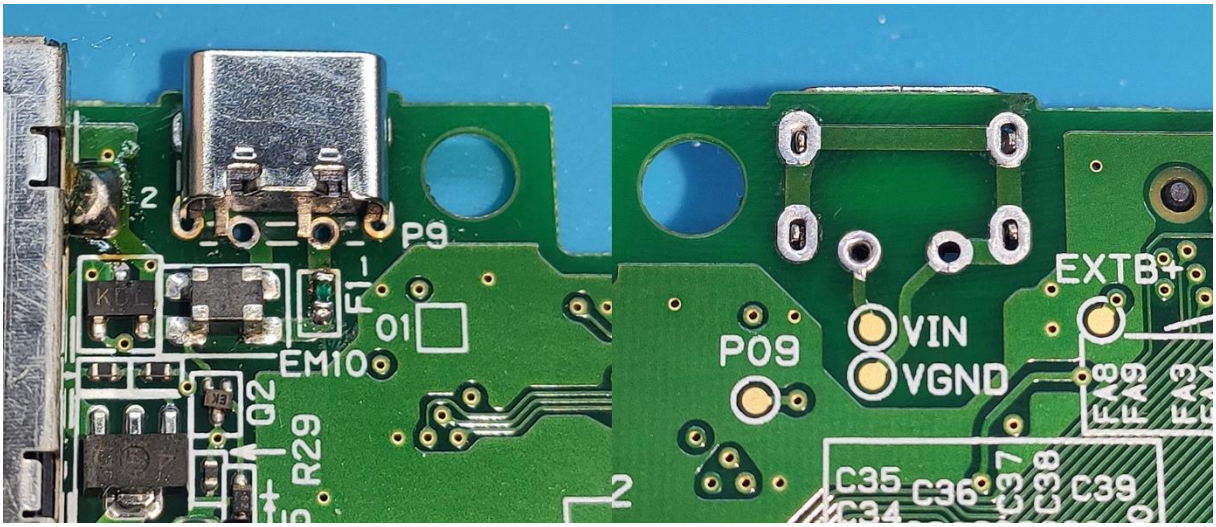
After the component is removed, it may be dirty, clean both sides.



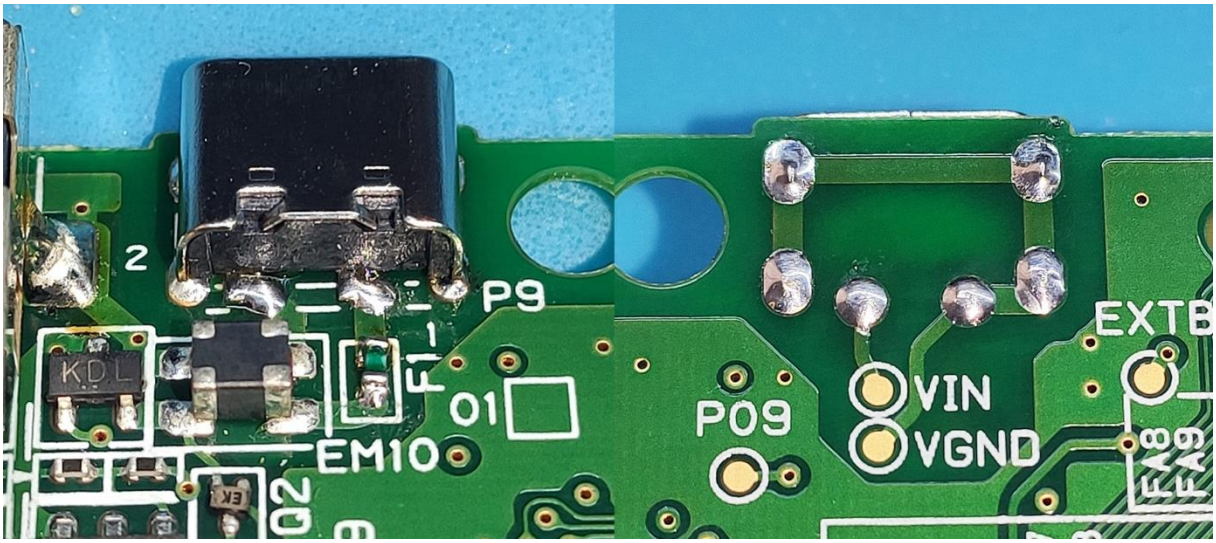
4. INSTALLATION OF THE USB-C CONNECTOR VERSION

Remove the connector from its packaging and place it on the mainboard.

Make sure the four pins fit correctly into the holes of the mainboard. Once done, solder the pins.

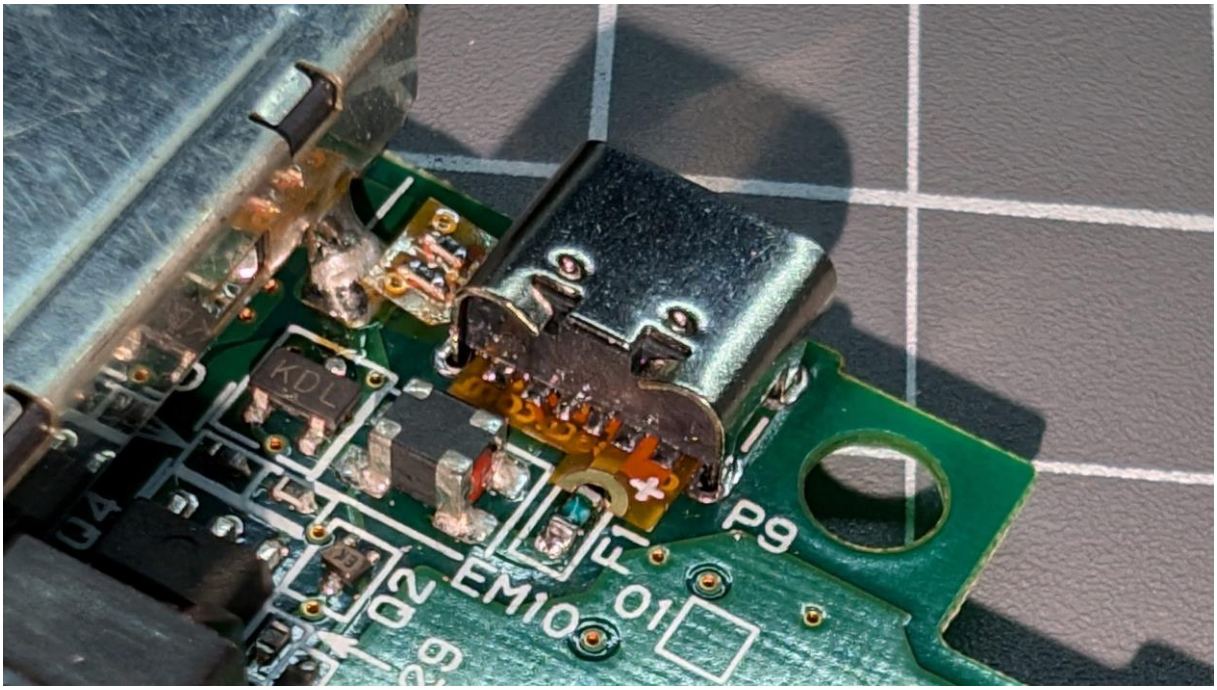


Then, solder the power pins.

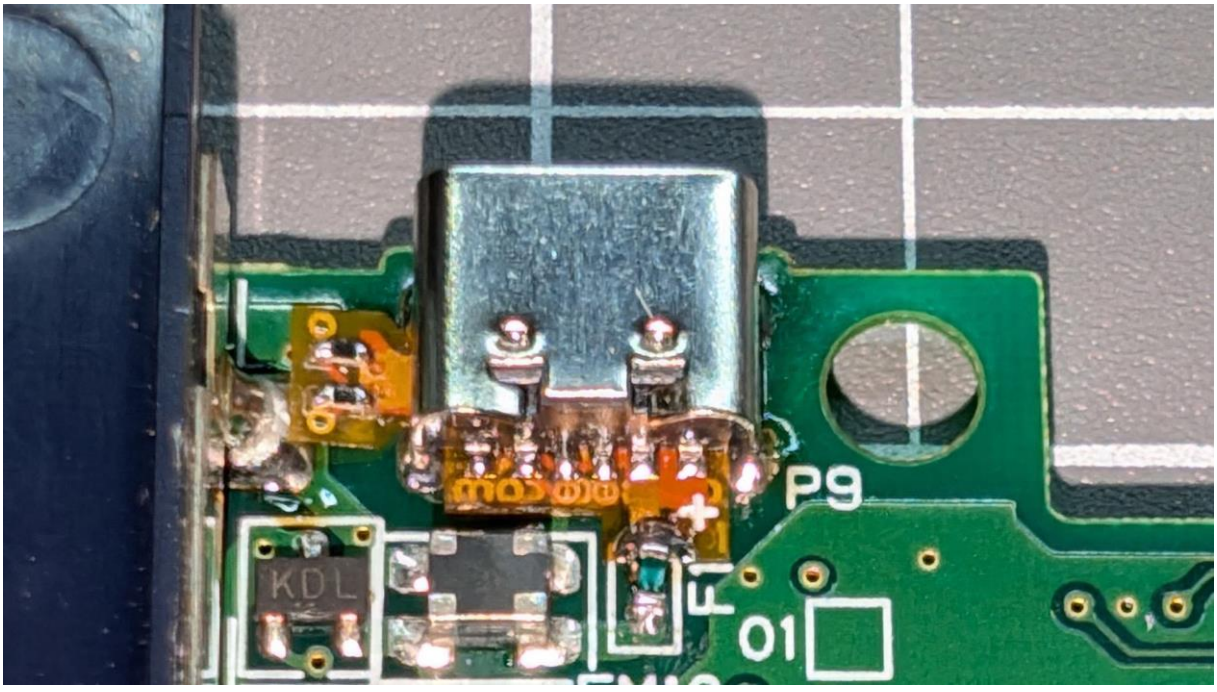


5. INSTALLATION OF THE USB-C BOARD VERSION

The installation of the USB-C board version is very similar. First, place the USB-C on the mainboard, making sure its four pins align with the holes on the mainboard. Once done, solder the pins.



Then, solder the VCC/+ pin to the fuse F1 next to the connector.



6. FINISHING THE INSTALLATION

Now, you can put the mainboard back to the shell, and put the screws and cables as before. Enjoy it!

FREQUENTLY ASKED QUESTIONS - FAQ

WHAT CHARGER CAN BE USED?

Connector version:

You need to use any USB charger with a USB connector and a USB-to-USB-C cable.

Board version:

You can use any standard charger for mobile phones, computers, etc., with 5V 1A. It doesn't need to be a Power Delivery charger since this feature is not used. Of course, if you want to use a Power Delivery charger, there's no problem or risk.

Technical data for curious minds:

> *Power Delivery chargers can supply a wide range of voltages: 5V, 9V, 12V, 15V, and 20V. However, for this to happen, the device must communicate with the charger to explicitly request the desired voltage. Without this communication, the charger will never supply more than 5V. That's one of the advantages of USB-C, as it can be used with both old and modern devices.*