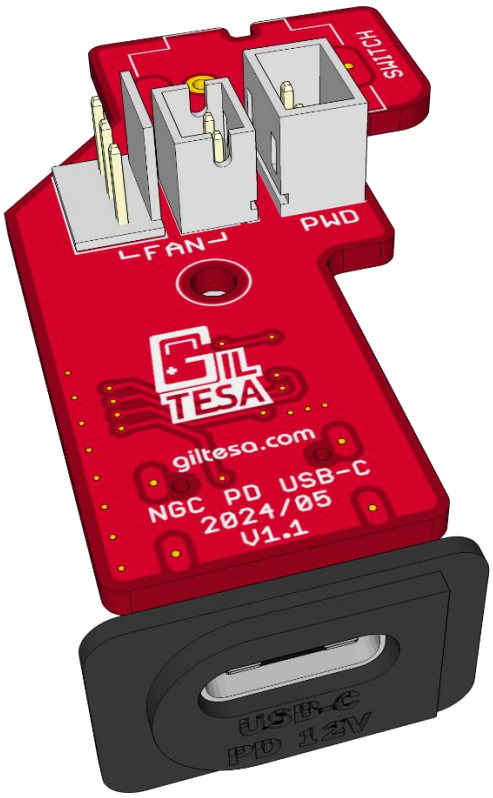
NINTENDO GAMECUBE USB-C KIT



PRODUCT

HTTPS://SHOP.GILTESA.COM/PRODUCT/NINTENDO-GAMECUBE-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.

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DESCRIPTION

The Nintendo GameCube: USB-C Kit is a board that allows to replace the original power connector for a modern and standard USB-C.

If your original connector / power supply is too old or damaged and you need a new one, or if you would like to power up your Nintendo GameCube with a standard USB-C PD charger, such as the charger for your phone, or laptop, you can do so with this kit.

This board is compatible with the following models:

Nintendo GameCube (DOL-001)

HOW DOES IT WORK?

The USB-C Power Delivery technology (USB-C PD) allows for communication between the device and the charger, enabling the negotiation of the voltage to be supplied through the USB-C cable. In this case, the microchip included in this board is configured to request 12V, signaling to the charger that it requires 12V to operate. If the charger is compatible, it will supply the requested voltage. If it's not compatible, nothing will happen, and the Nintendo GameCube won't be able to power on.

FEATURES

- Exact shape for Nintendo GameCube.
- External power through USB-C.
- Extra fan connector for computer fans such as the Noctua NF-A4x10.

INCLUDED

- 1 USB-C board.
- 1 Power connector.
- 1 Fan connector.
- 1 Fan connector of 3 pines.
- 1 Plastic cap for the USB-C board.

RECOMMENDED / REQUIRED [NOT INCLUDED]

- Original push button switch from the board to be replaced.
- 4.5mm gamebit and phillips screwdrivers.
- Tin soldering iron.
- Tin.
- Flux.
- Desoldering pump.
- Isopropyl alcohol.

NOTES

This kit requires a special **power supply that supports power delivery (PD)** with an output of **12V** and a minimum of **3A**. Generally, laptop power supplies and some phone chargers can be used. If you don't have any, take a look at the list of recommendations. (*The Nintendo Switch power supply is not compatible because it doesn't supply 12V*).

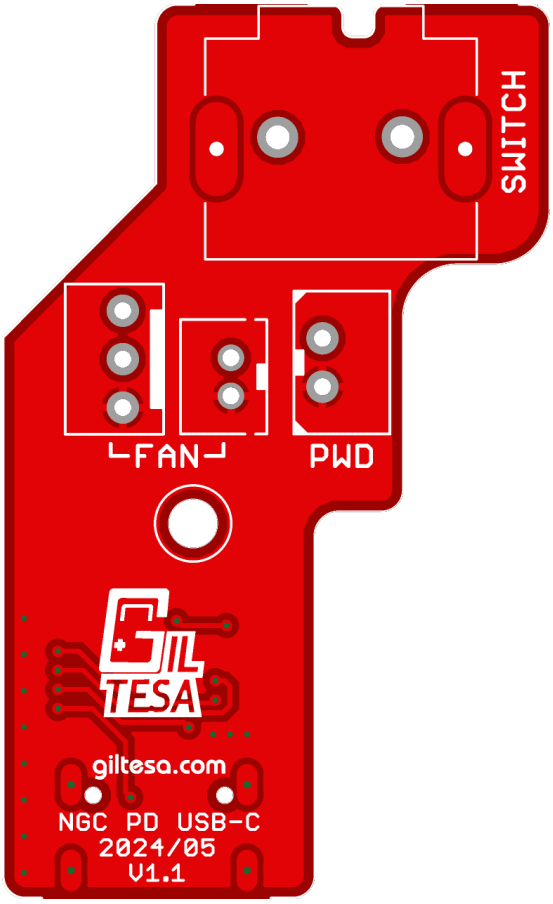
- Ikea SJÖSS 45W 12V 3A, 13€

You will also need a **USB-C to USB-C cable for PD**. If you don't have one, these will work:

- Ikea SITTBRUNN USB-C to USB-C 1m
- Ikea LILLHULT USB-C to USB-C 1.5 m

BOARD DETAILS

The board doesn't come fully assembled; there are 3 connectors and the original GameCube switch missing to be soldered. Below is the position of each component:



- FAN: 3-pin connector for computer fan; the Noctua NF-A4x10 is recommended. (Optional)
- FAN: 2-pin connector for the original GC fan.
- POWER: 2-pin connector to power the GC.
- SWITCH: Position where the original GC switch is soldered.

INSTALLATION STEPS

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

PRE INSTALLATION STEPS

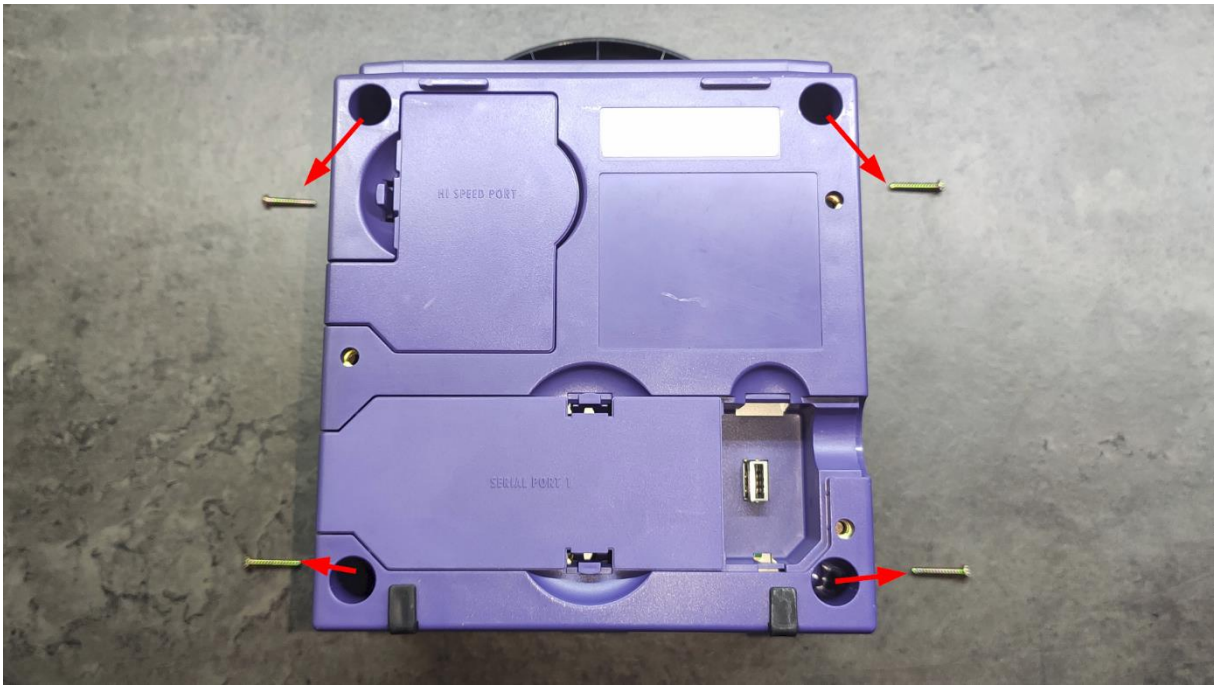
Before the installation, your GC may need some extra steps to have it ready for the kit.

1. DISASSEMBLY THE GAMECUBE

Nintendo products in general use two kind of screws. The first one called **gamebit** to close the shell, and the second one called **phillips** to hold the main board to the shell.

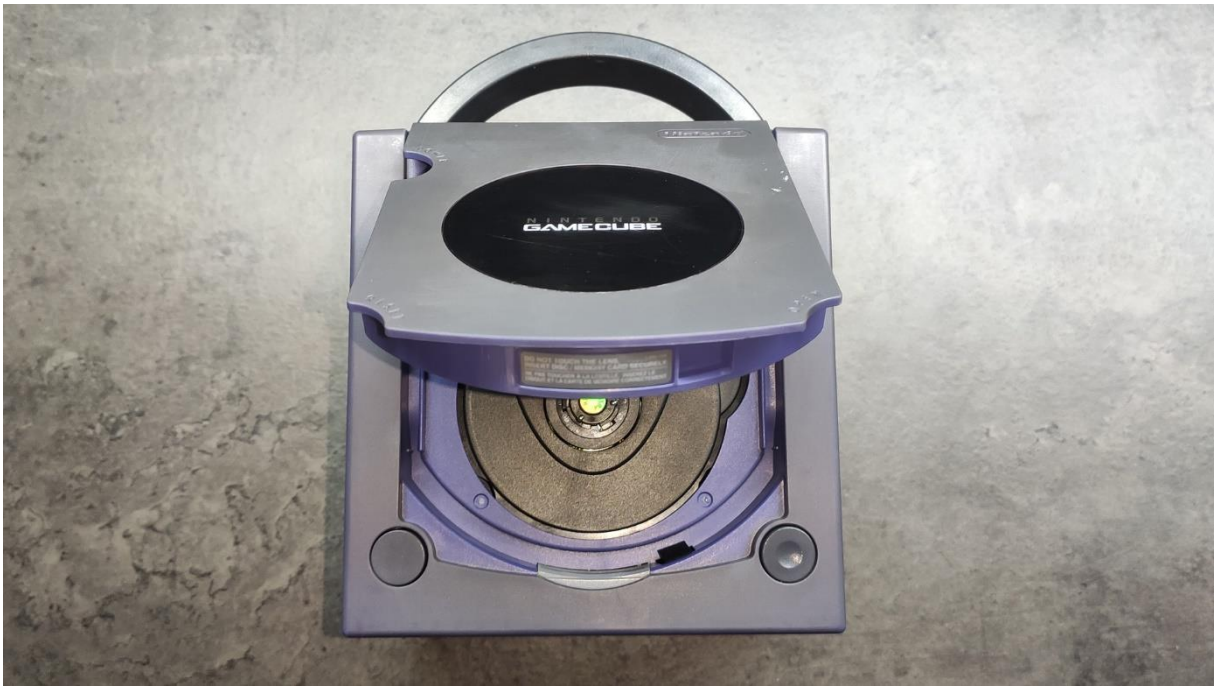
Gamebit screwdriver

Use the 4.5mm **gamebit** screwdriver to open the shell and remove the 4 **gamebit** screws.

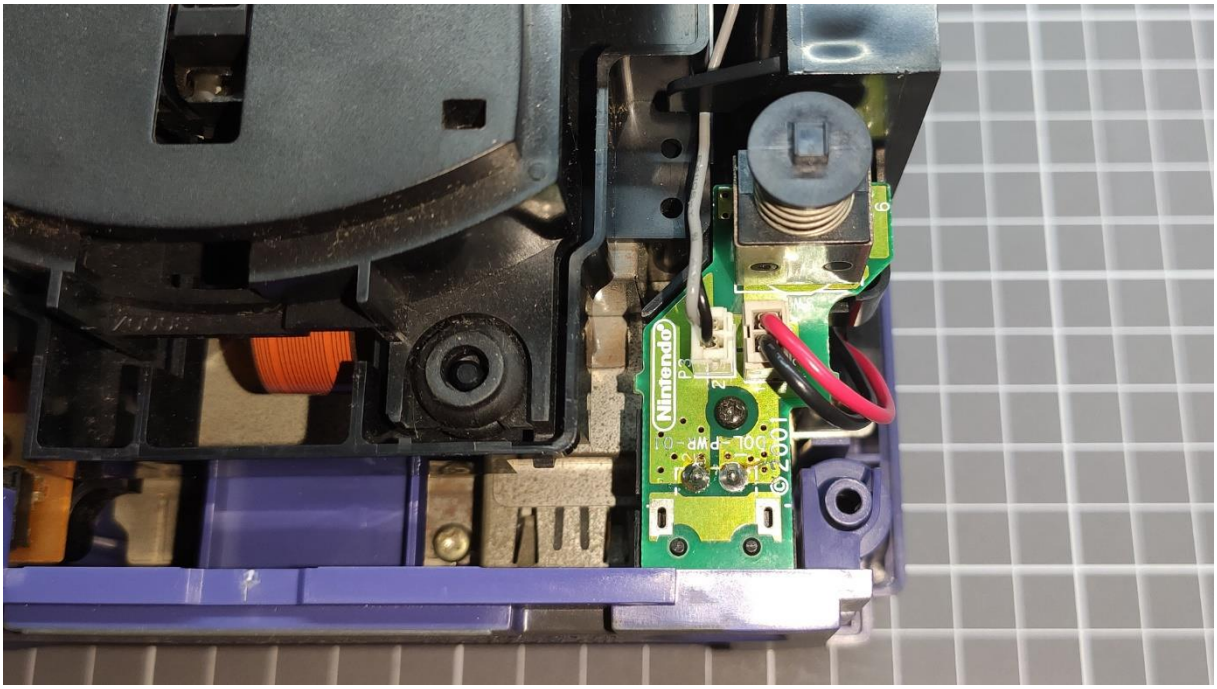


IMPORTANT NOTE: **When removing the top shell, always do so with the disc door open;** otherwise, you may damage the internal sensor that detects whether the door is open or closed.

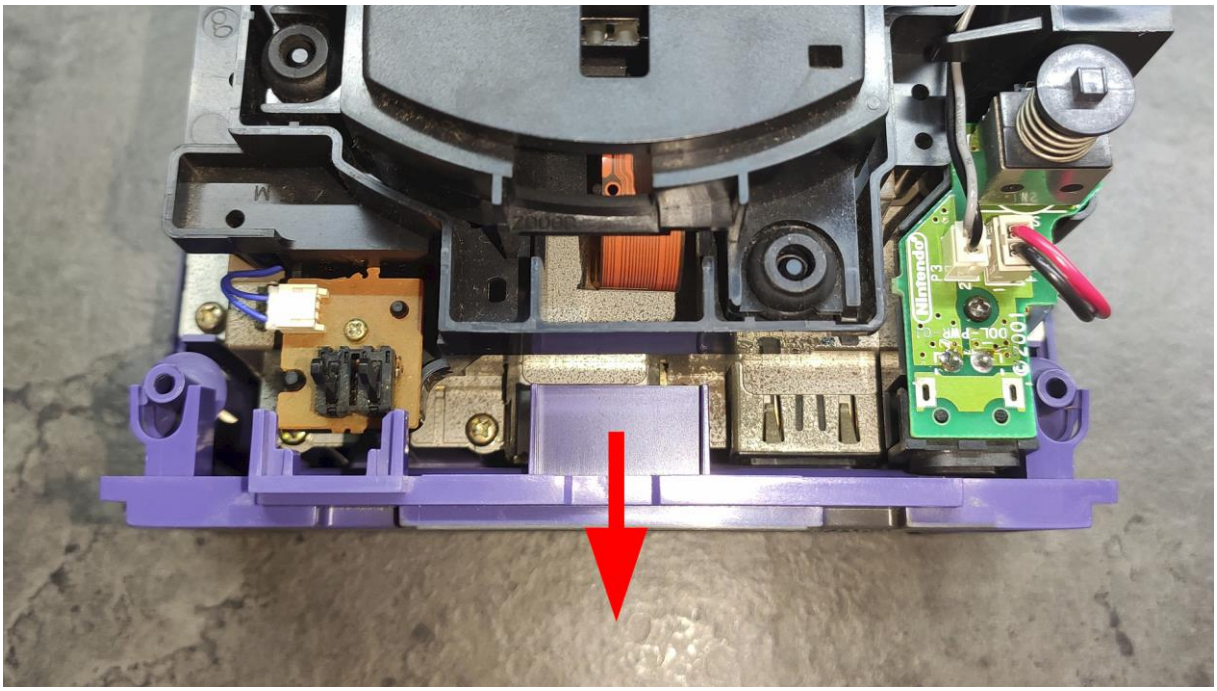
Remove the top part of the shell:



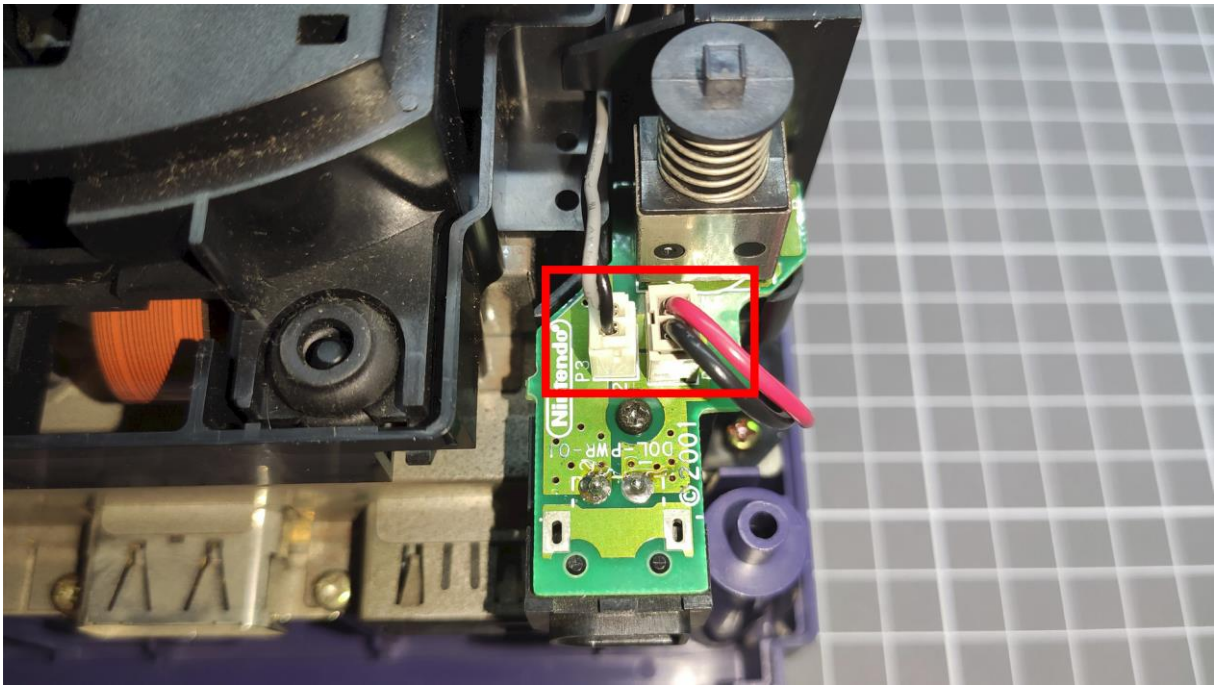
This green circuit is the part that will be replaced. Since it is on the top, this makes the installation easier as there is only one screw holding it in place.



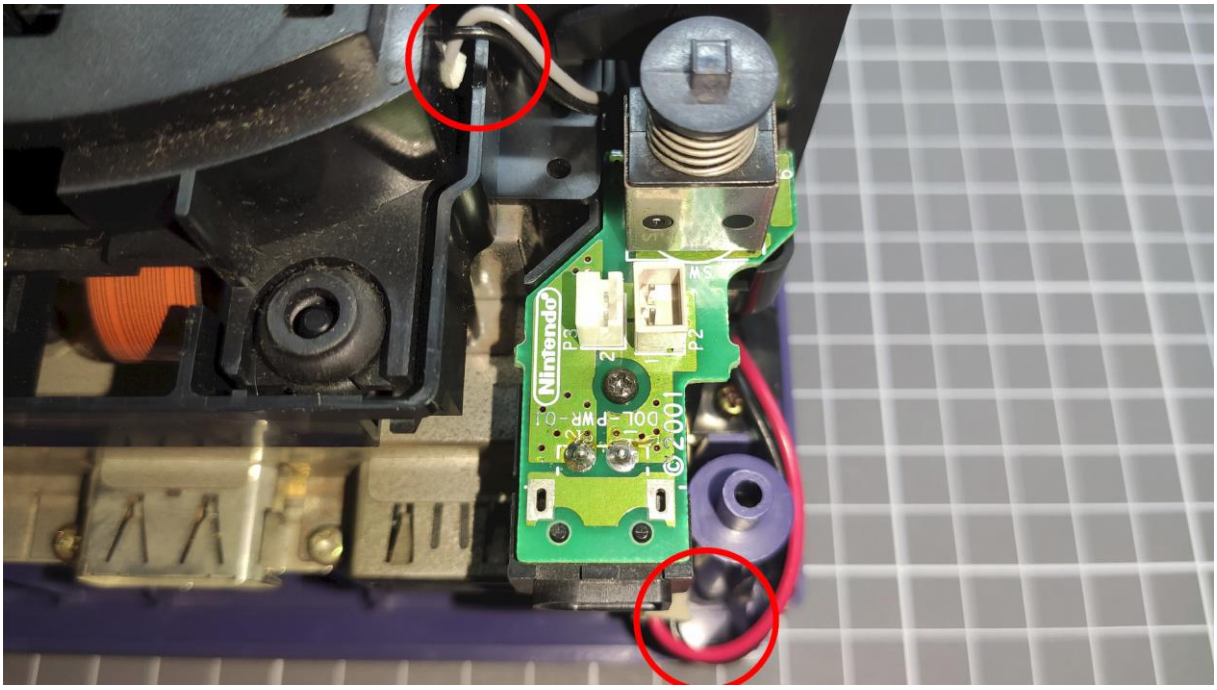
First, we remove the rear plastic part, which comes off very easily. You just need to apply some force backward to release the side clips.



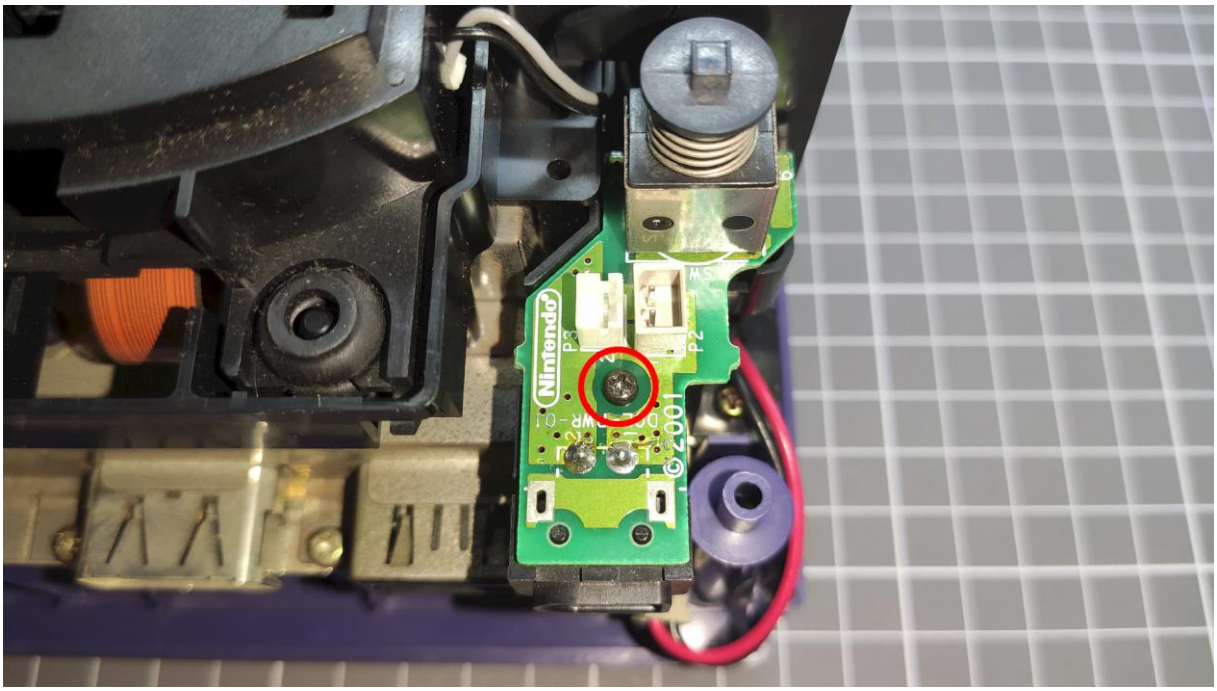
Now we can disconnect the fan power connector and the console power connector. We can secure them to the nearby plastic to keep them out of the way.



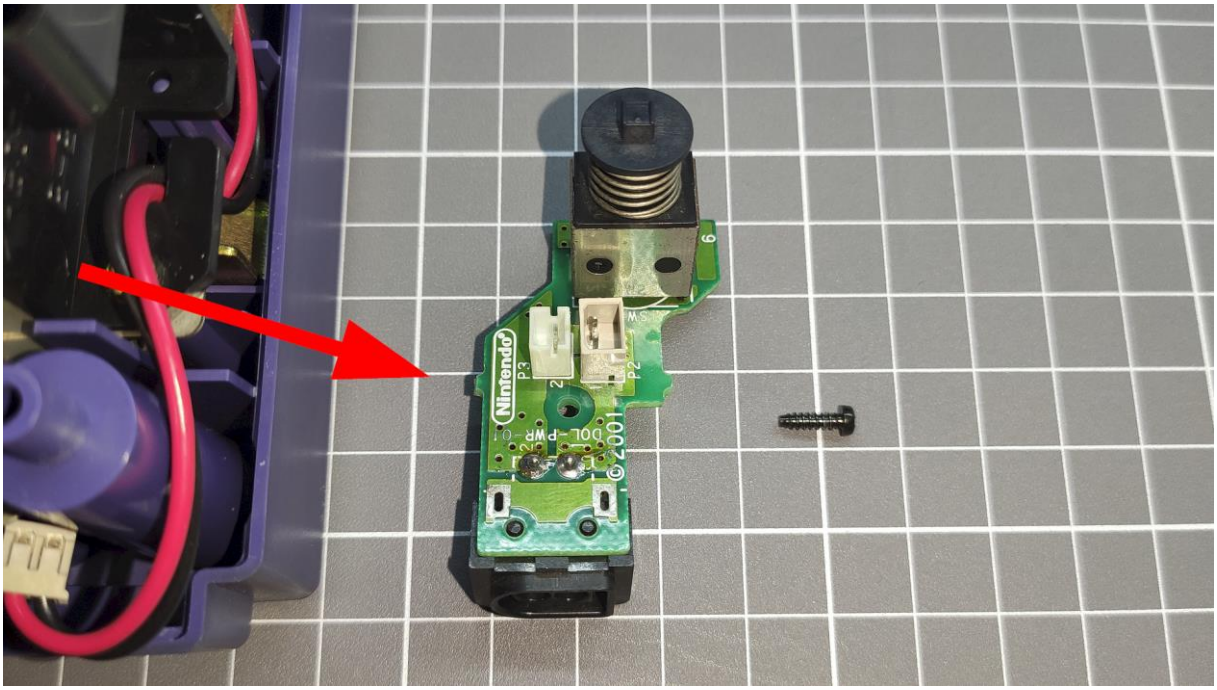
By placing the cables here, they won't bother us until we need to reconnect them again.



This screw is the only one securing the original board to the console.

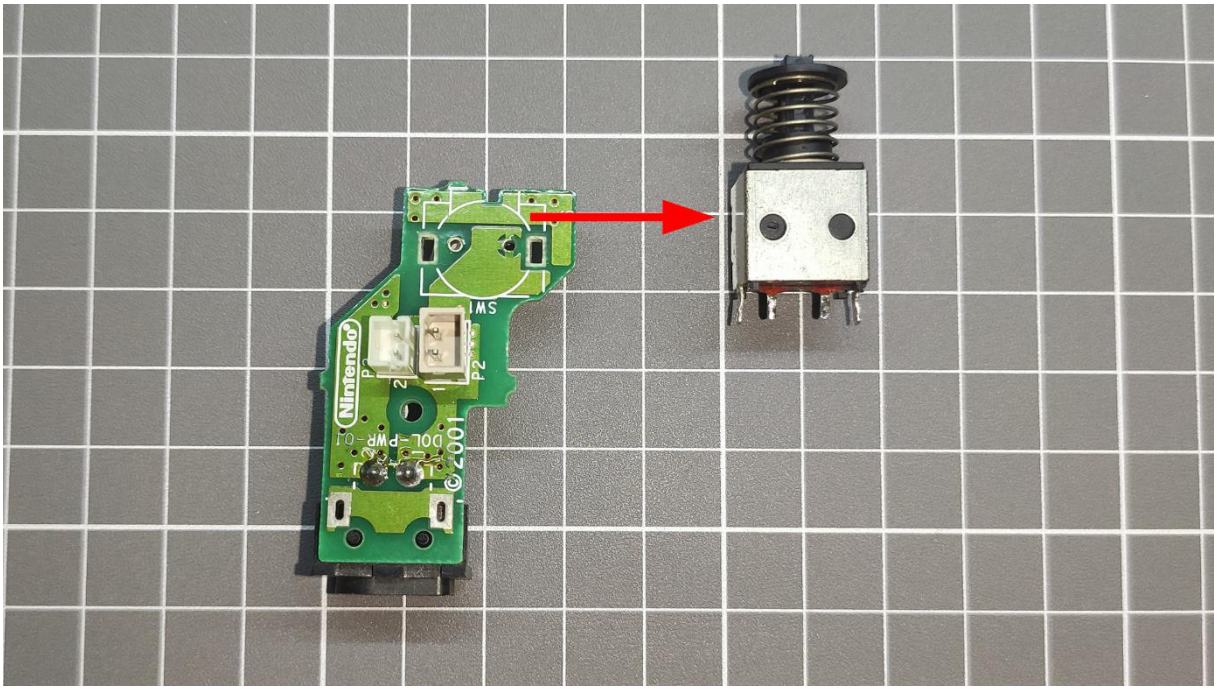


Unscrew it and don't lose it. We'll need it later.



2. RETRIEVE THE BUTTON FROM THE ORIGINAL BOARD

The power button from the original board needs to be retrieved for the new board. Use a soldering iron and a desoldering pump to extract it. Once done, keep it for later use.



INSTALLATION STEPS

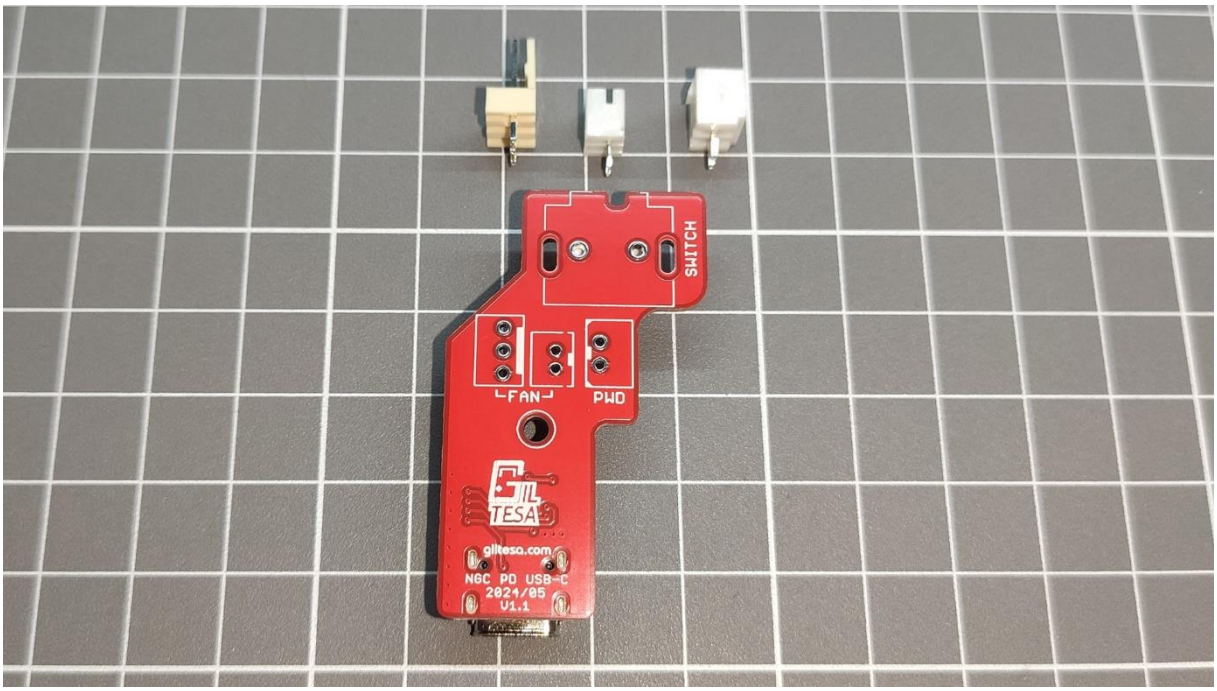
1. BOARD ASSEMBLY

Now it's time to finish assembling the new board. The kit includes 3 connectors as well as the plastic cap.

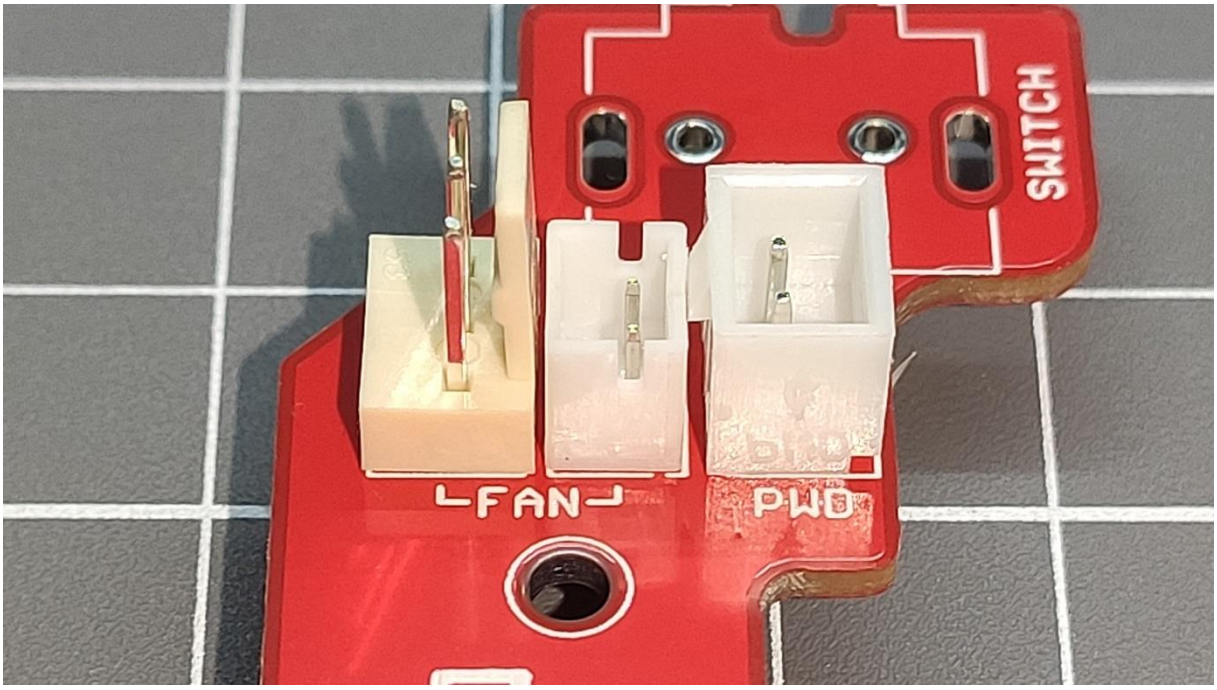
The plastic is separated from the rest to prevent scratching with the connectors. You can keep it in the bag until you need it.

Once you need it, You will need to tear the bag to take it out as it is thermally sealed.

Begin by soldering the connectors in place, ensuring that you position and solder them correctly.

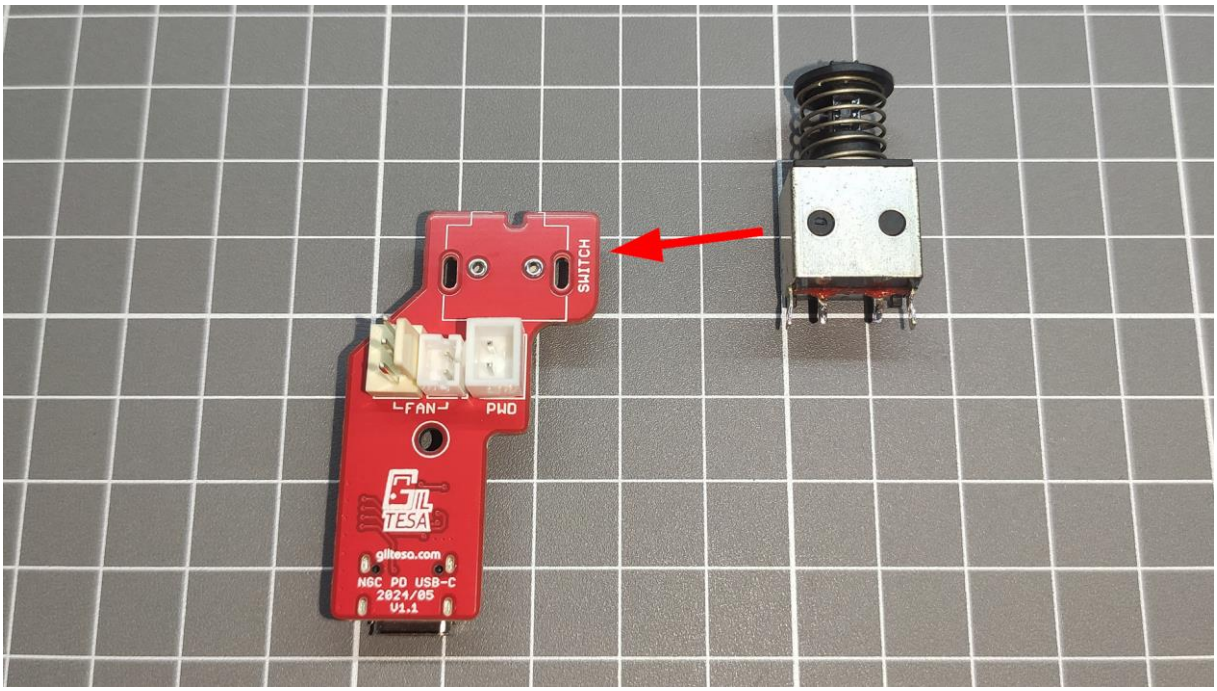


Close-up of the position of each connector:

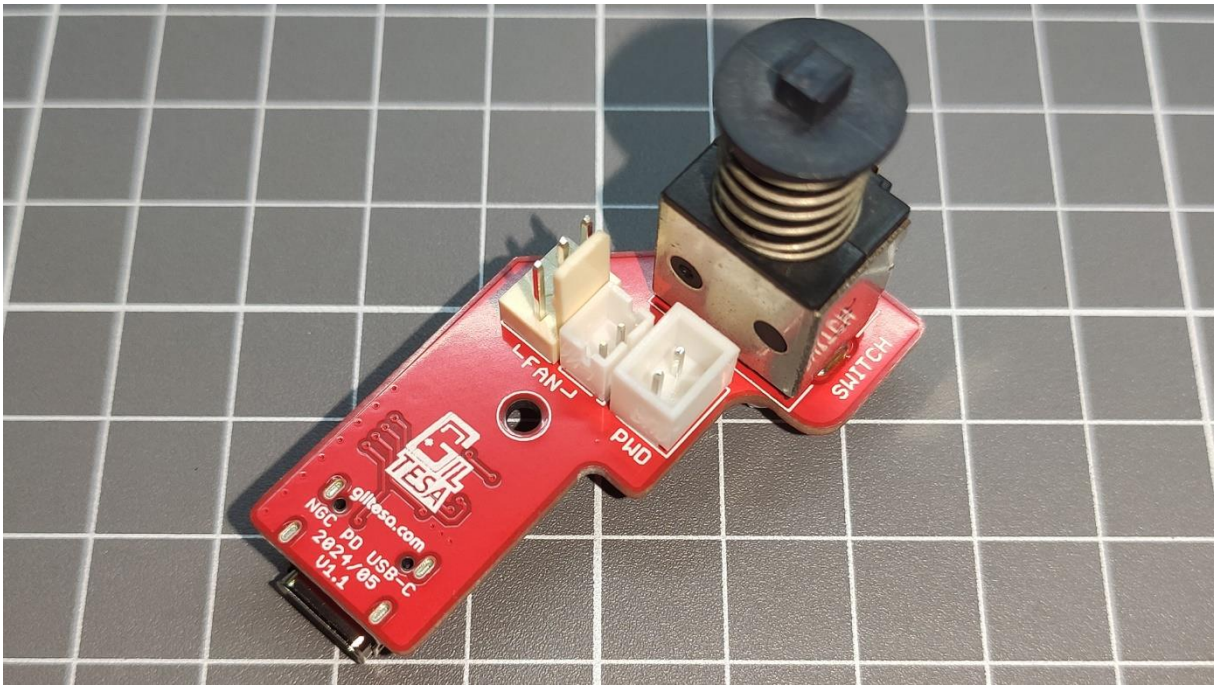


The power connector provided for the GameCube is not identical to the original. However, it can be used, and you shouldn't have any problems.

To finish assembling the board, all that's left is to solder the original power button in place. Do it in the correct position as shown in the photos.



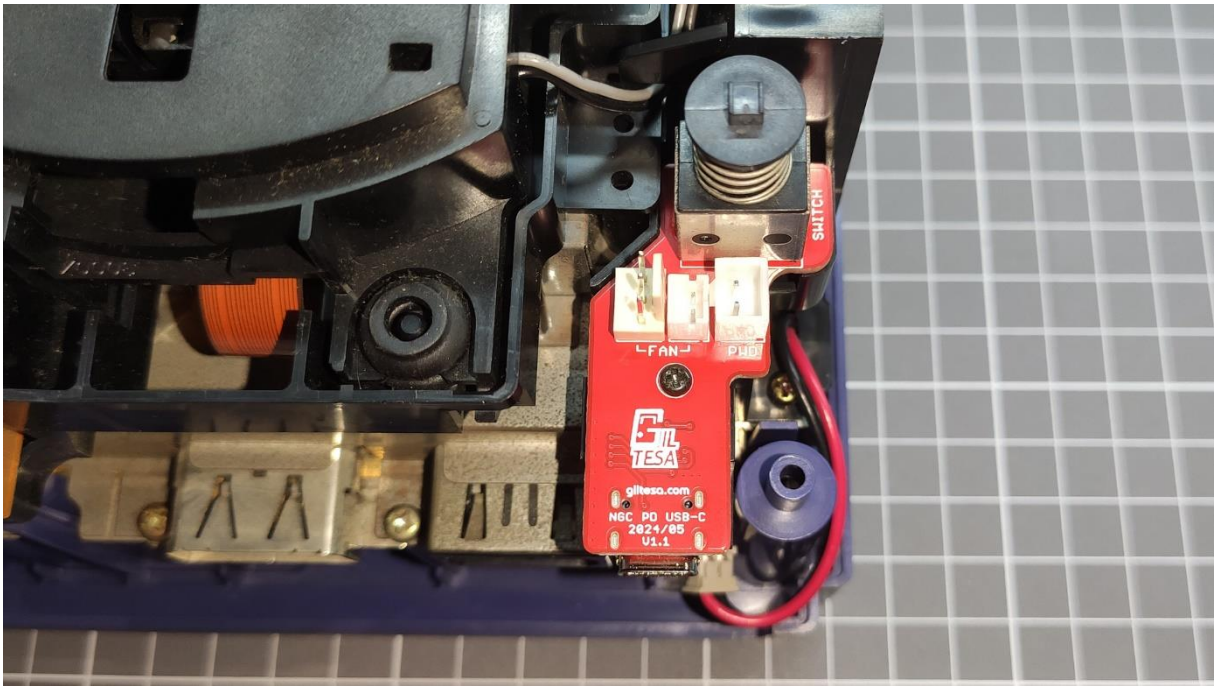
The two black circles on the side of the button point towards the connectors.



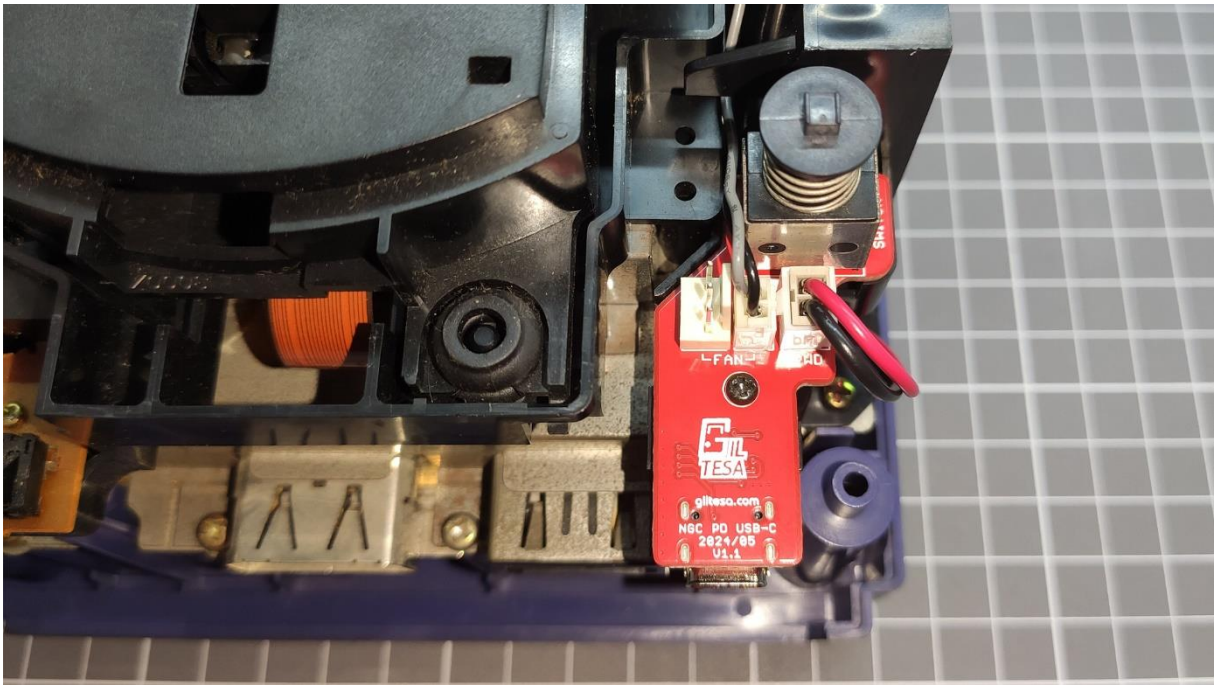
2. CONNECT THE NEW BOARD TO THE GAMECUBE

All that's left is to reassemble the console as it was.

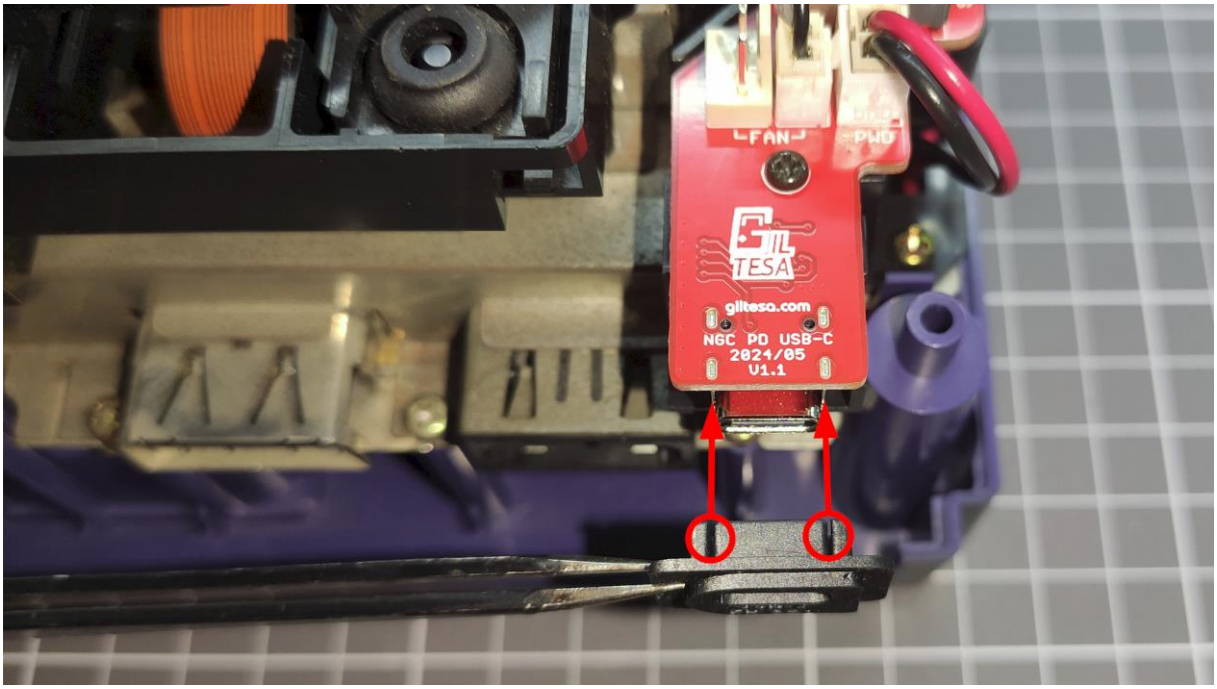
First, place the new board in its place and secure it firmly with the black screw.



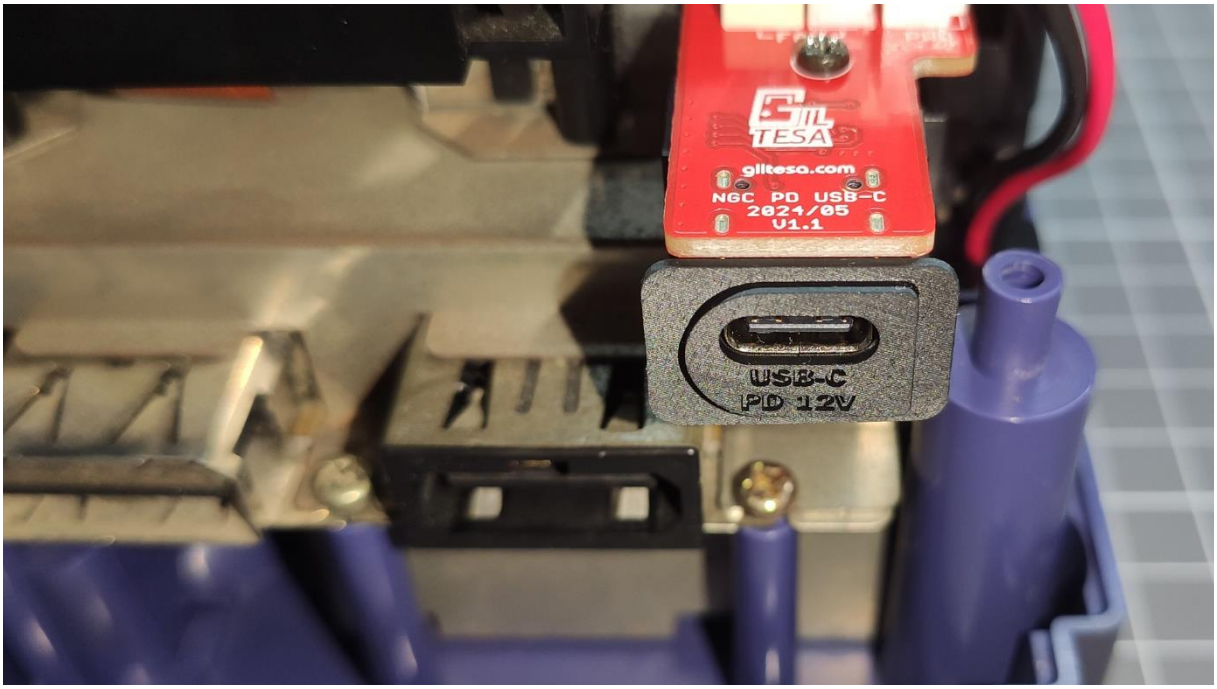
Then, connect the cables. If you're using a computer fan in your console, you can connect it directly to the left connector without the need for adapters.



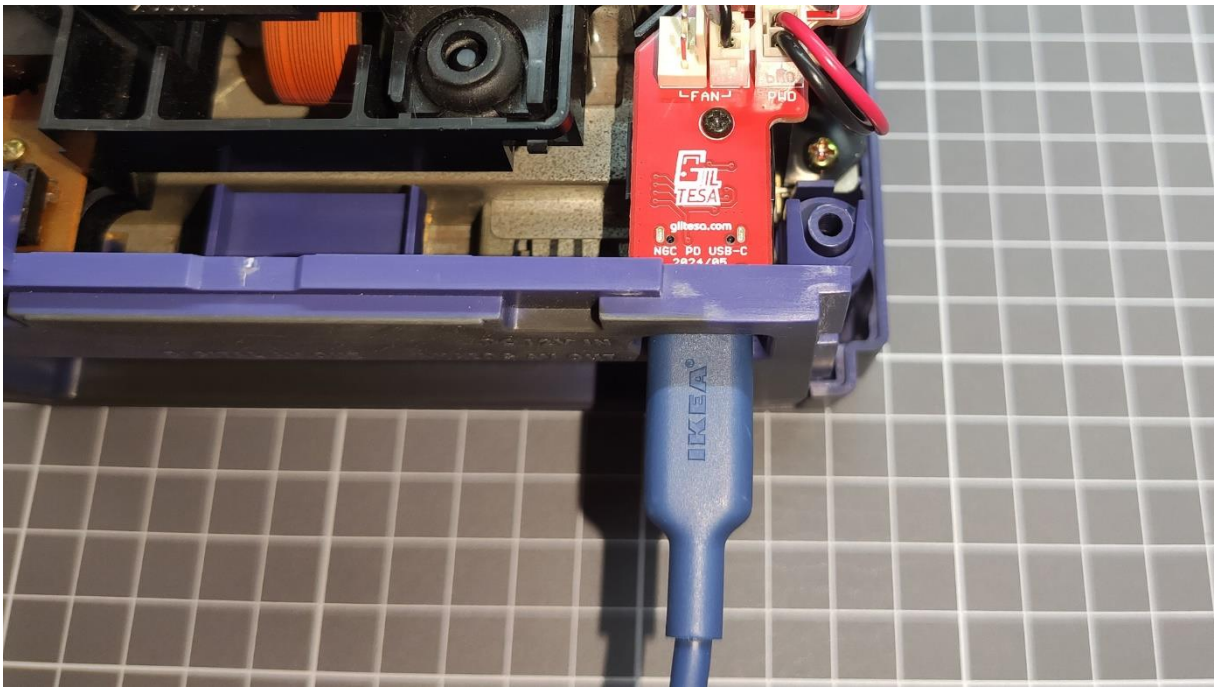
Now take the plastic cap out of the bag and place it in position. You'll see it has two notches in the plastic that need to align with the metal casing of the USB-C. This will hold it firmly in place.



This is how it looks once it's in place.



And this is how it looks once the rear plastic cover of the console is in place and the USB-C cable is connected.



You can now put the top part of the case back in place and secure it with the screws.

IMPORTANT NOTE: **When putting back the top shell, always do so with the disc door open;** otherwise, you may damage the internal sensor that detects whether the door is open or closed.

3. *DONE!*

The installation is complete. You can now enjoy your GameCube powered by USB-C!

FREQUENTLY ASKED QUESTIONS – FAQ

IS THERE A RECOMMENDED POWER SUPPLY?

Any USB-C Power Delivery charger with a 12V 3A output is more than sufficient. We used the Ikea SJÖSS 45W (12V 3A) for all our tests.

THE GAMECUBE DOESN'T TURN ON.

Make sure you are using a USB-C power supply that can provide an output voltage of 12V and an electric current of at least 3A.

MY POWER SUPPLY DOESN'T HAVE A 12V OUTPUT.

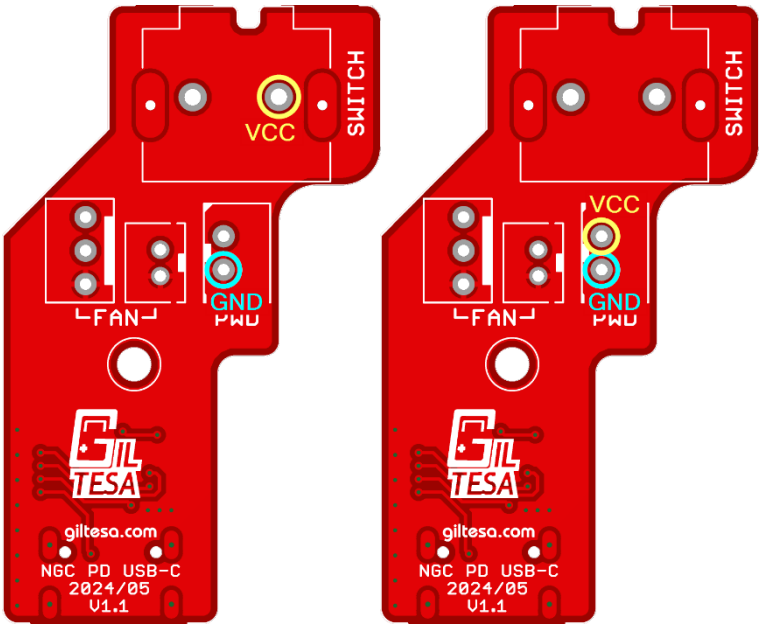
Power Delivery chargers can supply a wide range of voltages: 5 V, 9 V, 12 V, 15 V, and 20 V. However, they're not required to support all of them, a charger might offer 5 V, 9 V, and 15 V but not 12 V or 20 V, or it might support everything except 12 V.

That's why it's important to check whether your charger actually supports 12 V output.

THE GAMECUBE STILL WON'T TURN ON.

If it still doesn't work, you will need to use a multimeter to check that power is reaching the circuit and that the original GC button you used is not faulty.

1) Connect the power supply and USB-C cable to the board, then use the multimeter in continuous voltage measurement mode to check if you have 12V here. (*First image*)
2) Now perform the same test at the button's output. This way, you can check if the button opens and closes the circuit correctly. (*Second image*)



CAN THIS KIT BE USED WITH OTHER MODS?

Of course, as long as you use the appropriate power supply, 12V and 3A, then you can use any other mod or accessory you would normally use with the original power supply.