

Nintendo GameCube Console Memory Battery Replacement Guide

Thank you for your purchase of a Nintendo GameCube console memory battery from Mortoff Games. We appreciate your business and hope to serve you again in the future. This guide is intended to take you through the steps involved in replacing your console's memory battery. If at any time you have questions please feel free to contact us at customerservice@mortoffgames.com

Things you will need

- A 4.5mm security screw bit that is at least
- A Philips head screw driver
- A soldering iron
- Soldering braid
- Solder
- Clean work area where small screws will not get lost
- About 15 minutes of free time

Warning

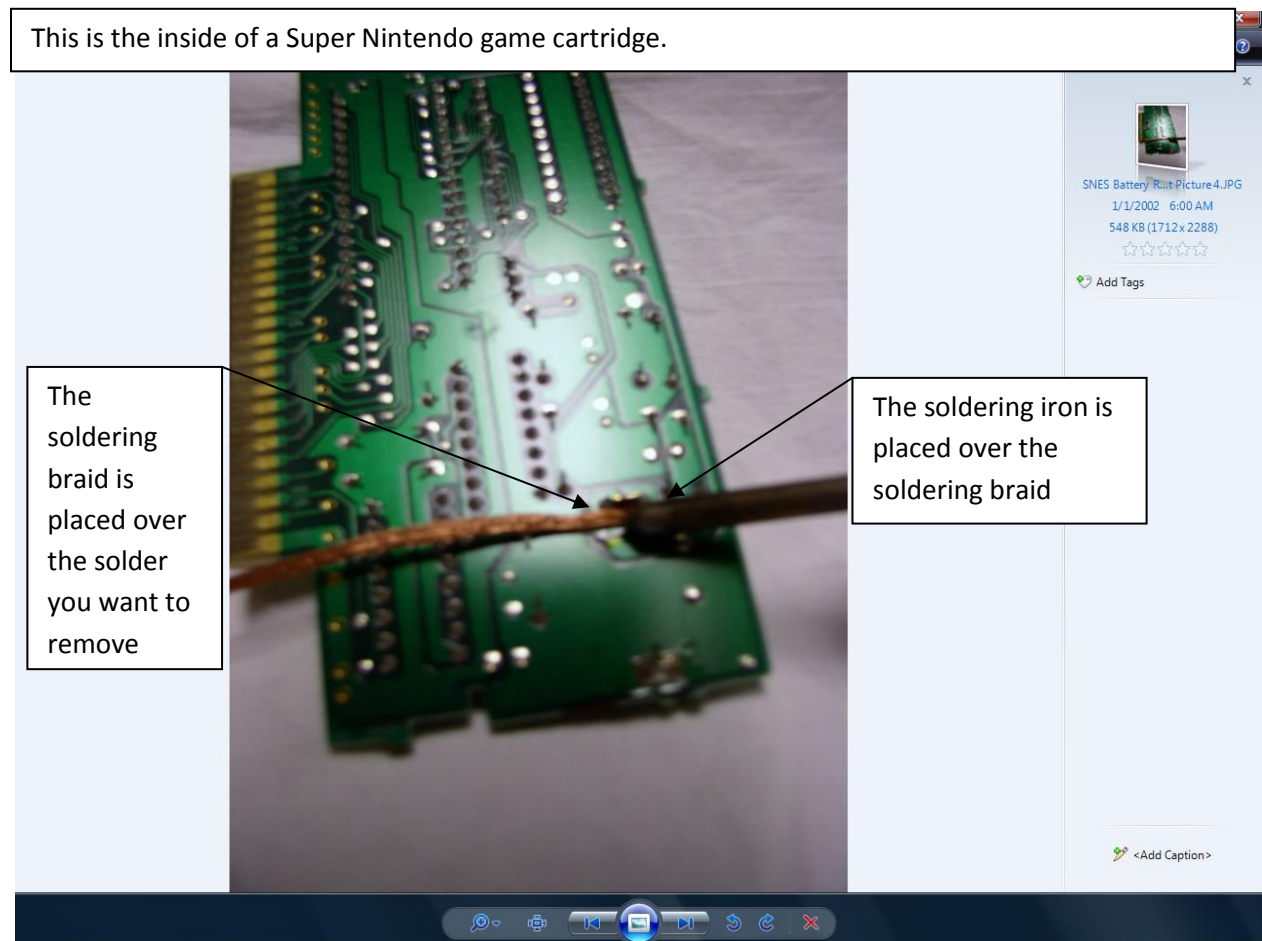
When dealing with solder it is important to realize that when vaporizing the material you are exposing yourself to gaseous forms of the material the solder is composed to. Some of these are harmful to living creatures. We recommend that you use a gas hood for all soldering and wear proper eye and hand protection at all time. If a gas hood is not available please solder in a well-ventilated area.

Soldering Techniques:

In order to solder and unsolder correctly you will need a soldering iron, solder and soldering braid. Once you have these items you can proceed forward. For the duration of this project it is not recommended that you use a cold heat or any other instantaneous heating soldering gun, since these guns use an electrical current to melt the solder. Passing a strong electrical current through your games is not recommended and as such should be avoided. We recommend that you use a typical soldering iron, the type that you have to plug in and wait to heat up. In addition it is recommended that you set your soldering iron to 30watts for the duration of this project.

Unsoldering-

Correctly unsoldering a joint is rather easy once you get the hang of it. In order to unsolder a joint place soldering braid over the solder you wish to remove and then place the soldering iron over the soldering braid. The soldering iron will heat the braid and in turn the solder will liquefy, which will be sucked up by the braid. Please see picture one



Picture Introduction

Although it might take a little while to completely remove all of the solder, patience and persistence will pay off in this case. Every 10-15 seconds remove the soldering braid and check to see if the solder has been fully removed. Take note to notice that the solder is accumulating on the soldering braid as it is

being sucked up you should periodically keep cutting off the used portion of the soldering braid and use fresh braid as needed.

Soldering-

Now that the solder has been removed you can now remove the object that the solder was holding in place and you are now ready to solder something new into place.

The two most important things to keep in mind are:

- 1) Never allow patches of solder to overlap or touch, doing so creates a short, thereby rendering the circuit inoperable.
- 2) Make sure to use enough solder to securely attach whatever it is you are soldering, do not be afraid to test the joint out.

Keeping these items in mind lets continue with our demonstration. To apply the solder take it and place it over the soldering joint and then lightly place the soldering iron over the solder. This is just like unsoldering, although this time you are soldering and not unsoldering. This part is a little tricky when you first start and is hard to describe with words alone. It is recommended that you test out melting solder first to get an idea of how it behaves.

One ideal exercise you might want to try is to attempt to solder together two pieces of wire. Take two pieces of wire, strip the ends, twist the ends together and then practice applying solder over this twisted joint. During the course of this project if you run into trouble remember you can always back track and remove the solder and try again, using the soldering braid. Soldering braid and solder are very cheap and as such are worth playing around with to get comfortable with before you go ahead and try to solder in a replacement battery. Now that we have covered the basics of soldering and unsoldering, let's get started with the replacement of that battery.

Step One

First please flip your Nintendo GameCube system over and locate the four 4.5mm security screw bits that are holding the casing together as seen in picture one below.



Picture One: Bottom side of the Nintendo GameCube system

Once the screws have been removed please separate the two halves of the Nintendo GameCube system and proceed to step two.

Step Two

Now that the system it should look like picture two below. You might notice that there is a great deal of dust in the system at this time. Since you are already here now is a great opportunity to use some duster spray to clean out the dust. Excessive dust in your system can lead to overheating because it impairs ventilation.



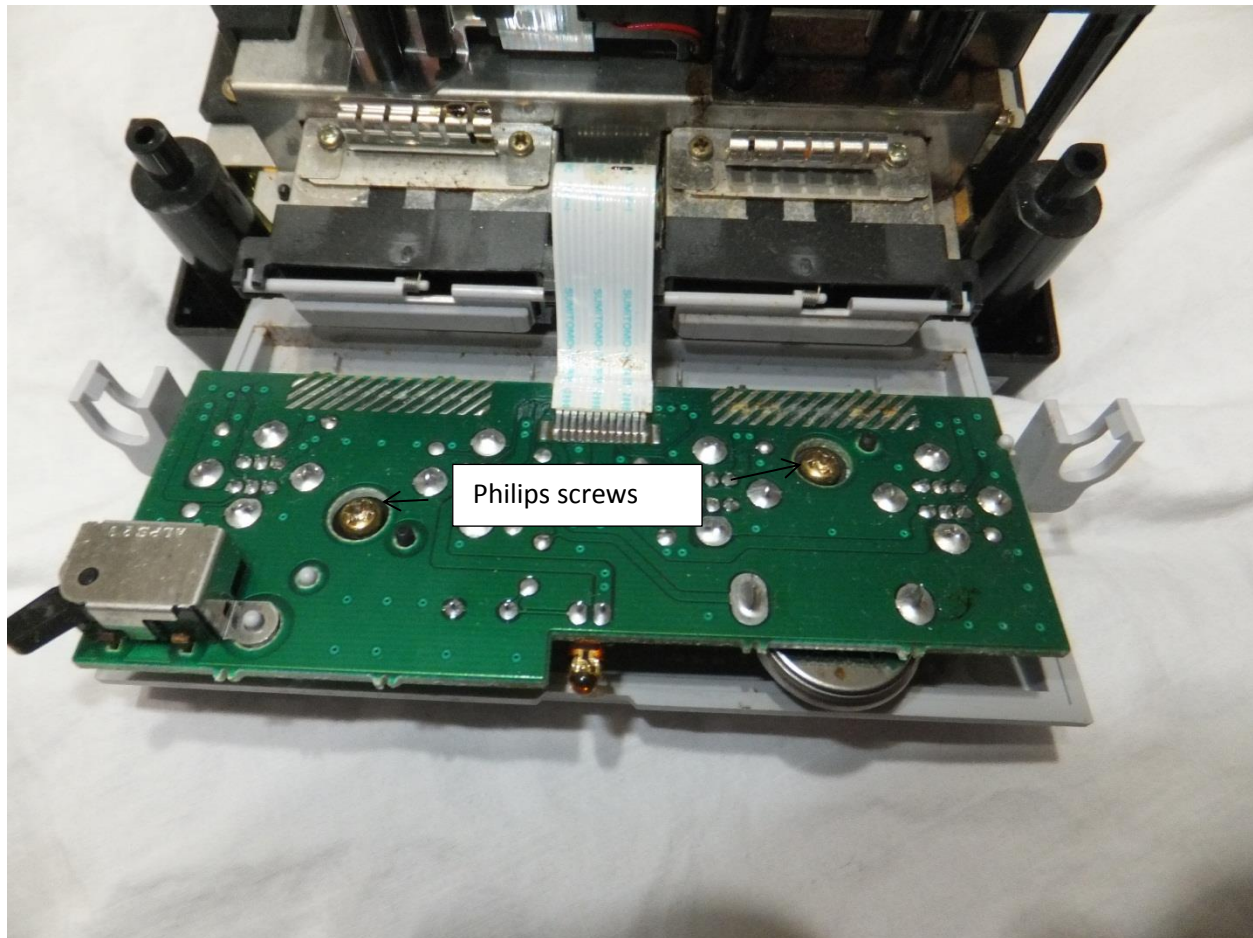
Picture Two: Inside of the Nintendo GameCube system

In picture two above the CR2032 coin cell battery is indicated in picture two above. Simply take the controller port assembly and lift it out of the system. The controller port is attached by a small ribbon cable to the rest of the system. Simply pull it upwards to release it.

Once the controller port has been separated from the rest of the system please proceed to step three.

Step Three

Now that the controller port has been detached you will notice two Philips screws on the controller port circuit board as noted in picture three below. Please unscrew them to release the plastic faceplate from the circuit board.

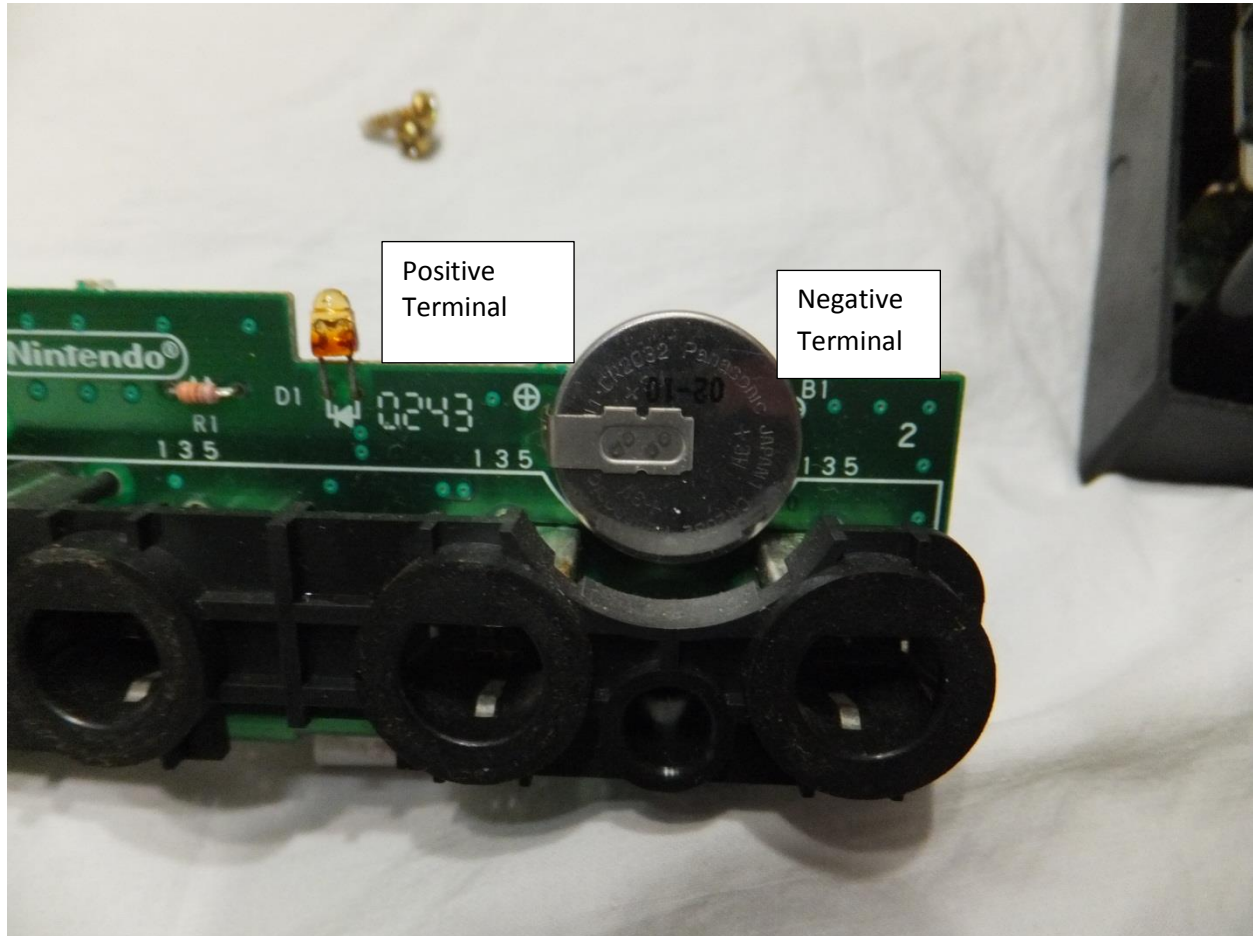


Picture Three: Controller port circuit board Philips head screws

Once the screws are removed please remove the plastic faceplate and proceed to step four.

Step Four

Now that the faceplate is off the battery should be exposed as seen in picture four below. Now it is time to remove the battery using your soldering skills learned previously.

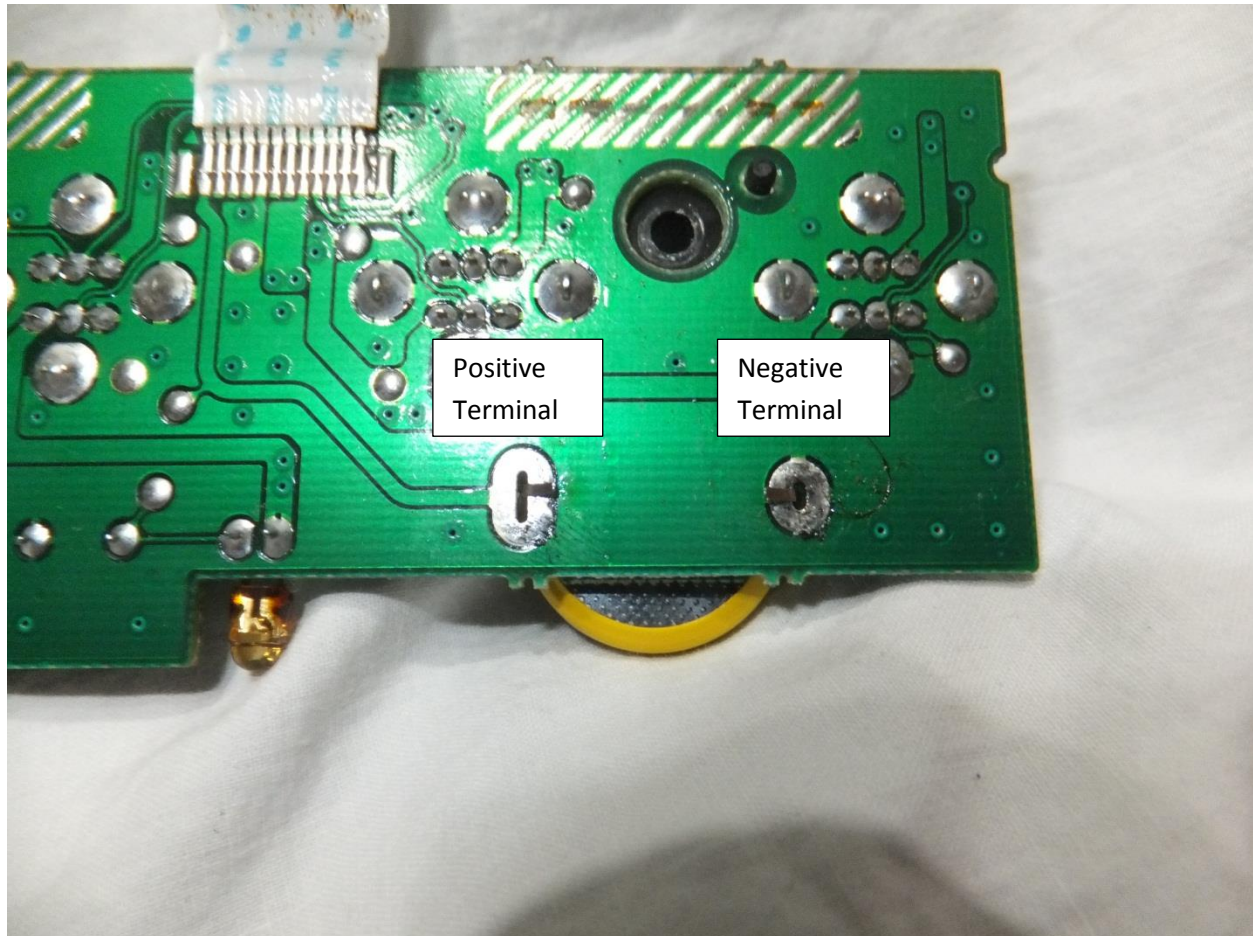


Picture Four: CR2032 Battery

Once the battery has been removed please proceed to step five.

Step Five

We recommend that you insert the tabs into the holes and then bend the tabs as seen in picture five below. This will not only keep the battery in place, although will make the solder joint stronger. Please make sure that you are inserting the positive battery terminal into the positive terminal on the circuit board and vice versa. The board is marked below and in picture four previously.

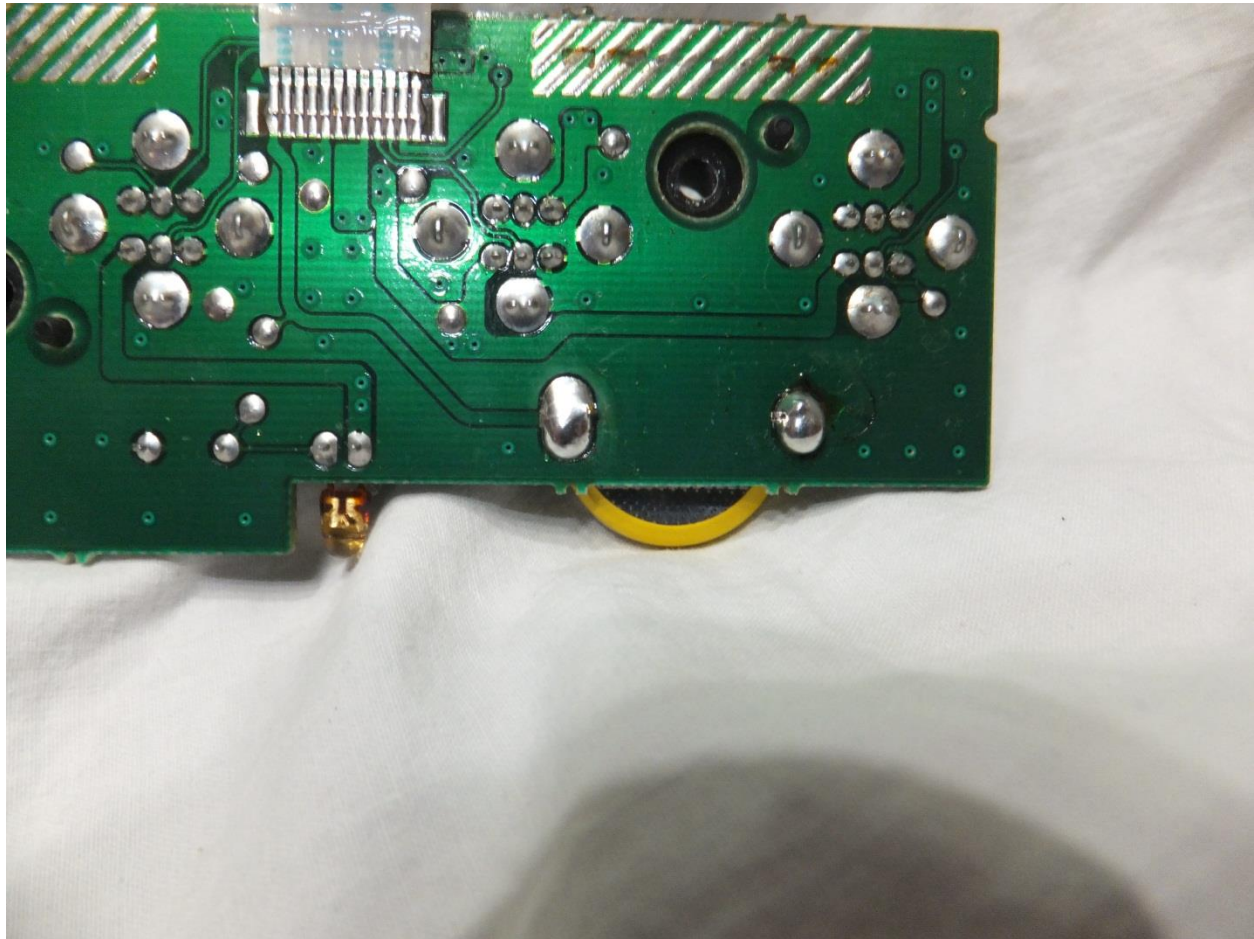


Picture Five: Bending the pins on the CR2032 battery

Now that the battery is ready to solder on using your skills learned earlier please solder on the battery and proceed to step six.

Step Six

Now that the terminals are soldered on your circuit board should look something like picture six below.



Picture Six: Proper terminal soldering

Notice how the terminals have enough solder on them to make a firm connection, although not so much that it bridges to solder joints? This is what you are aiming for. Once finished please reassemble your system and try out your system. You will have to re-enter the date and time on last time, although the battery should last for many years to come.

If your system is not operating like it should after you reassemble the system please see our troubleshooting section at the end of this guide.

Troubleshooting Guide

We are sorry to hear that everything didn't go as planned; although this section of the guide is intended to help you troubleshoot and hopefully repair the problem you are experiencing. If you have other questions please email us at customerservice@mortoffgames.com

1) My controllers do not work

- a. Did you plug the controller assembly back into the system during reassembly?

2) I still have to reenter the date and time every time I start the system

- a. Did you make sure to arrange the battery terminal to match the positive to the positive and the negative to the negative?