

Hello everybody.

So, you have decided to buy a nice and fancy mouse. You made your homework on searching the best mouse that suited your needs, went and bought one unit, unboxed it and started to use it. Only to be extremely annoyed by the clicking of the buttons! What to do?



Well you have a couple of options:

- suck it up! You bought it, it's like this, you don't want to lose the warranty and that's that.
- own it! You bought it, you own it and are a responsible user, fairly tech savvy with some tools (screwdriver, guitar pick(s), soldering iron/hot air station, desoldering wick/braid). Else, just get help from a suitable shop.

So you decided that the worst you can do taking it apart is just losing the warranty.

What can be done to quiet the buttons?

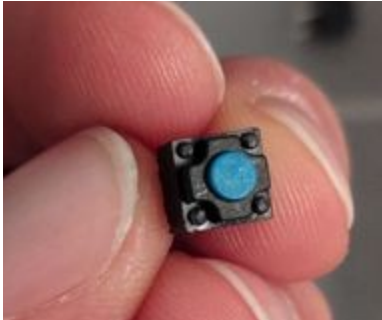
You searched the internet for similar instances, found this instructable.com link (<https://www.instructables.com/How-to-Modify-a-Mouse-to-Make-It-Completely-Silent/>) that involves taking apart the mouse and the buttons, which is fun but too much work.

Then, you find a CHEAP mouse with SILENT buttons!



7.5€ for a mouse? That's cheap. Silent buttons too? PERFECT. And a light bulb lights in your brain. Swap the buttons. Buy one mouse and start this little project.

Take the cheap mouse apart and be greeted with this sort of buttons.



But it has two pins on the back... Not the best, not the worst... but it's silent, so... Let's power through...

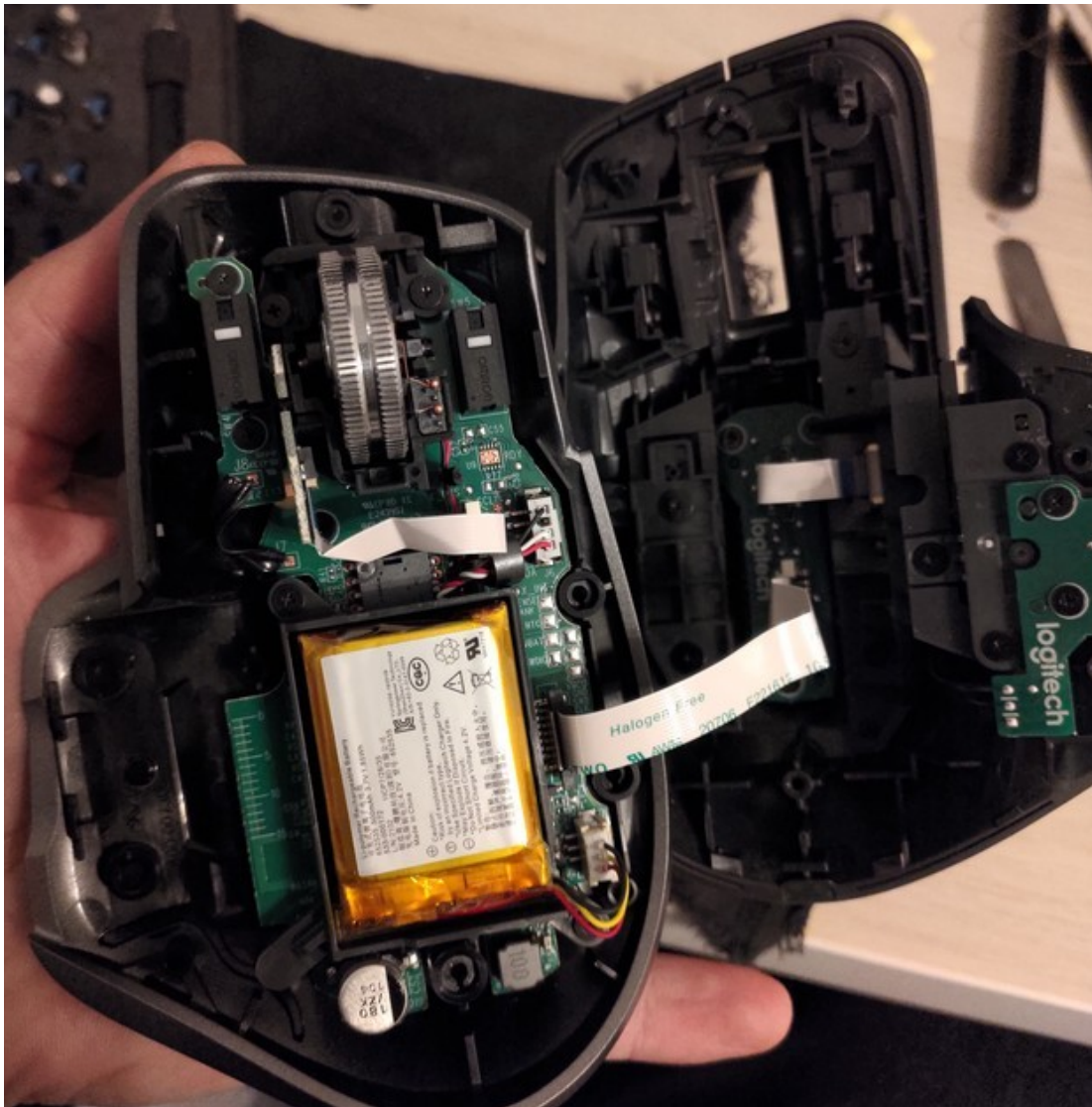
Let's take the fancy mouse apart. Unscrew all the screws. It's a 1xT5 screw and 5xPH00 screws.



Start prying apart the mouse. I started on the left side, prying the relative button off the base, then I continued on the back and right side. Then with a guitar pick pry the FWD/BWD laterally in order to take off the upper case.

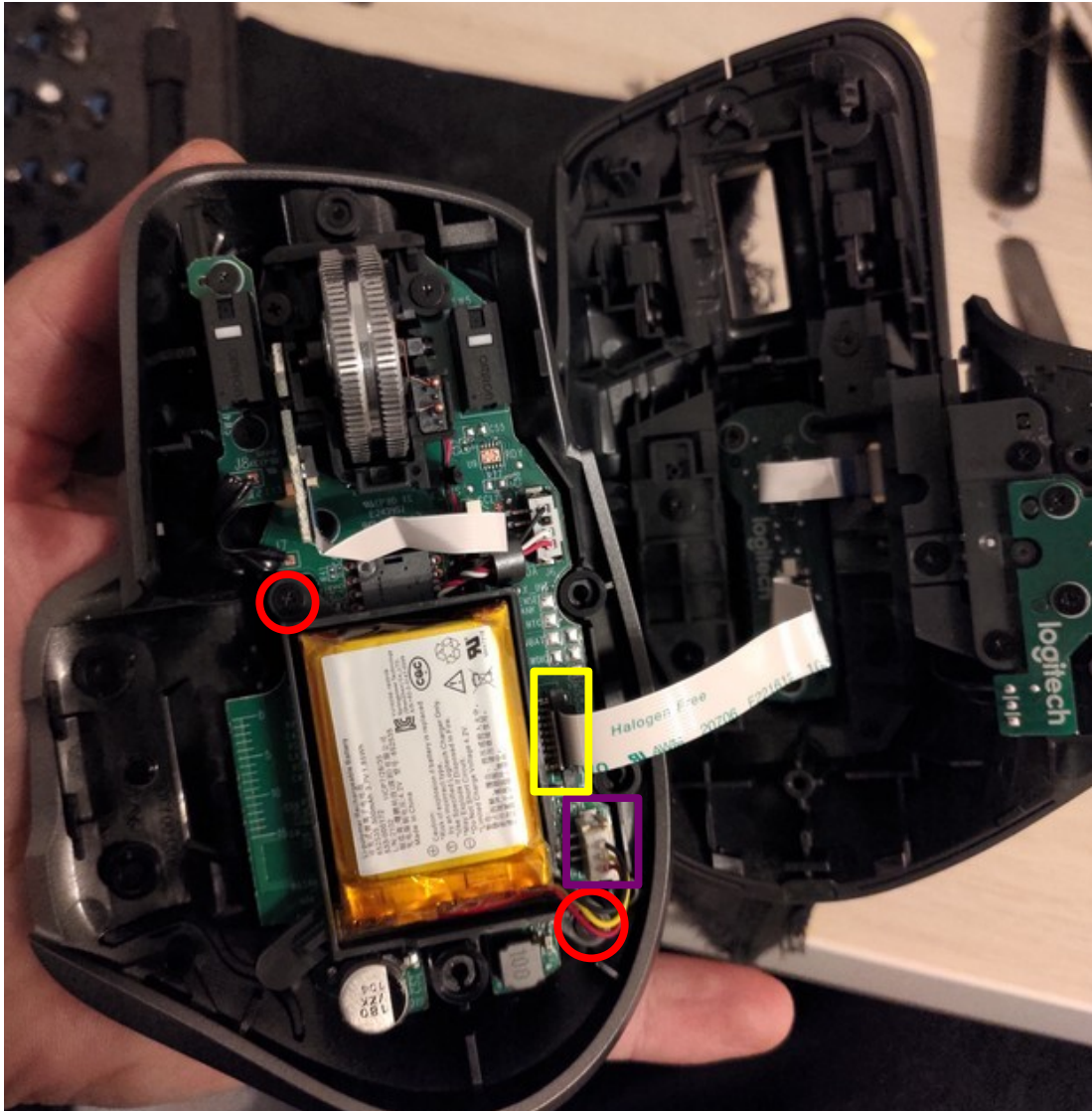


Voilà!





Now, let's analyze what we see.



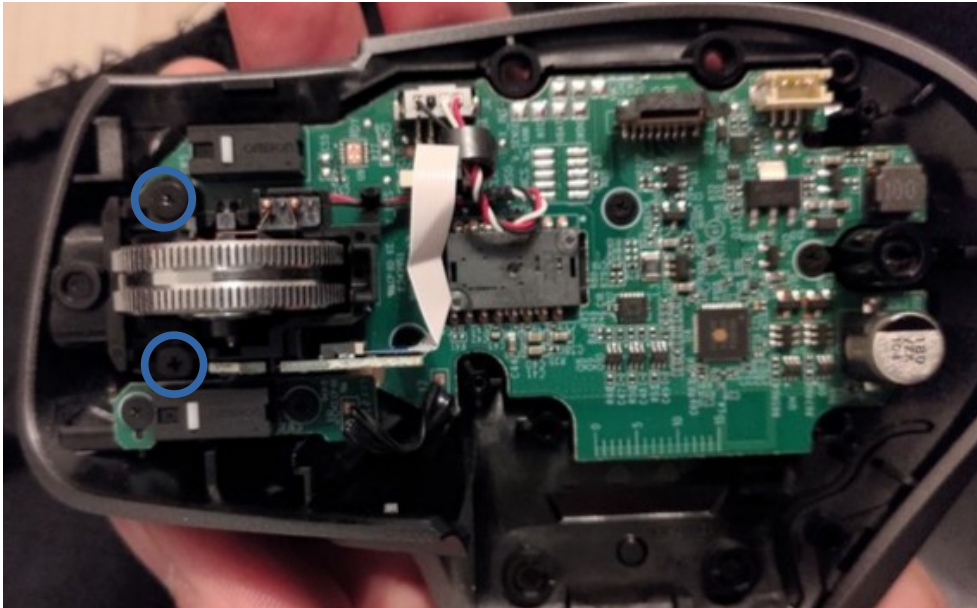
In **red** we have the screws for the battery and in **purple** we have the battery connector.

In **yellow** we have the connector and cable for the top case. By lifting the top part of the ZIF connector you can extract the cable and set the top part aside. Like that.

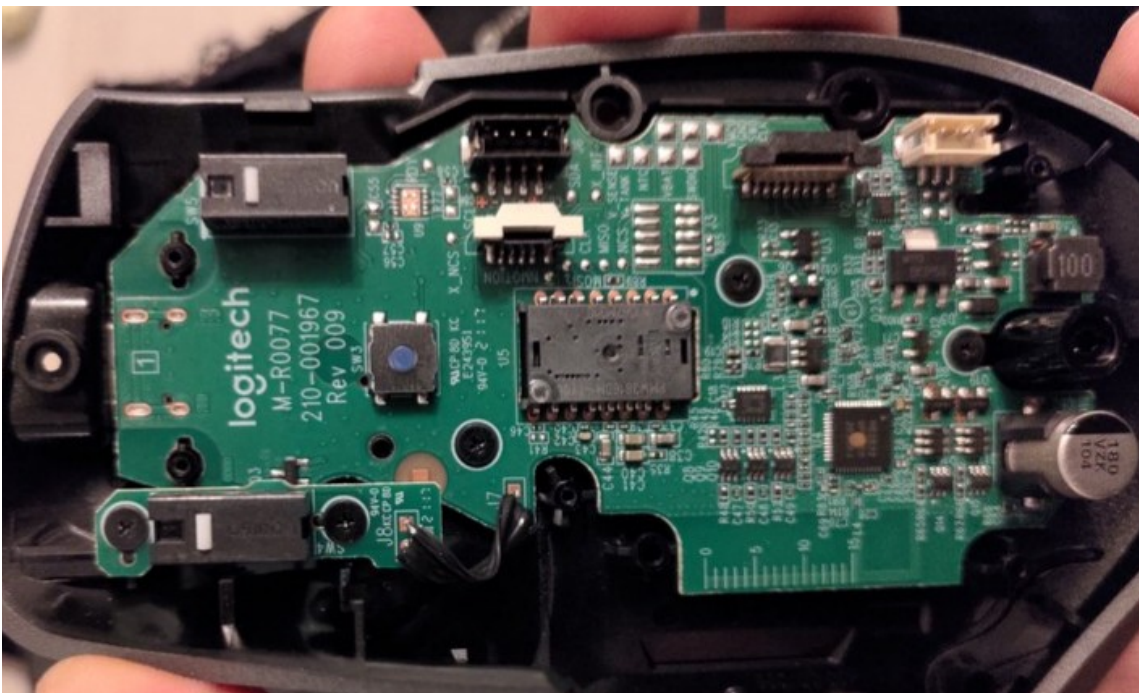
**IF YOU NEED MORE INFO ABOUT ZIF CONNECTORS, PLEASE RESEARCH HOW THEY WORK AND HOW TO DISCONNECT THEM.**



Now let's take the battery off, we don't want sparks or to let the magic smoke out. To do that, just unscrew the two red marked screws and unclip the purple connector. You should be left with something like this.

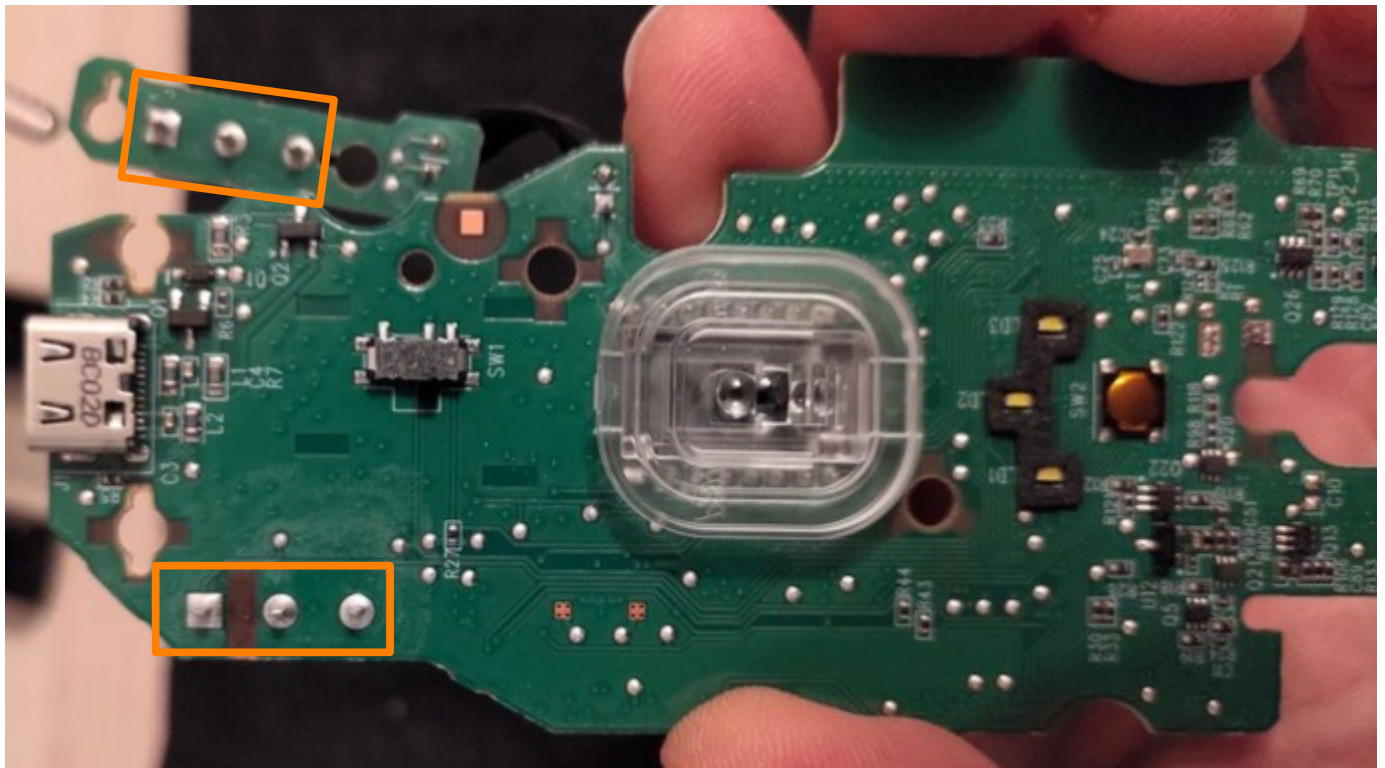


Next, let's remove the scroll wheel by disconnecting the ribbon from its ZIF connector and the 2 blue marked screws.

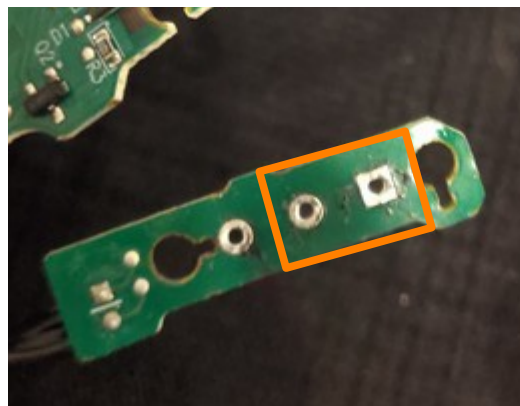
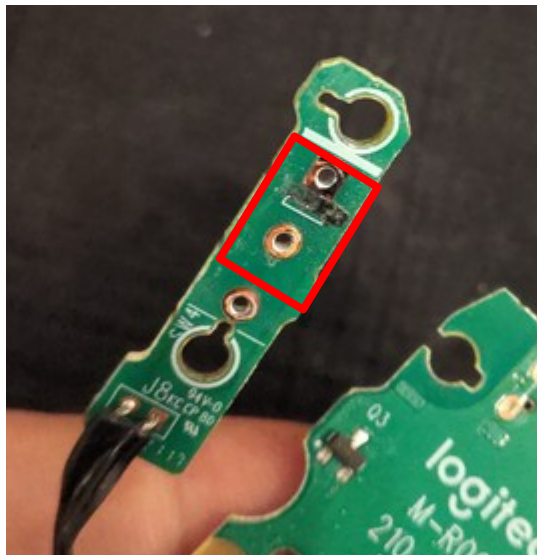




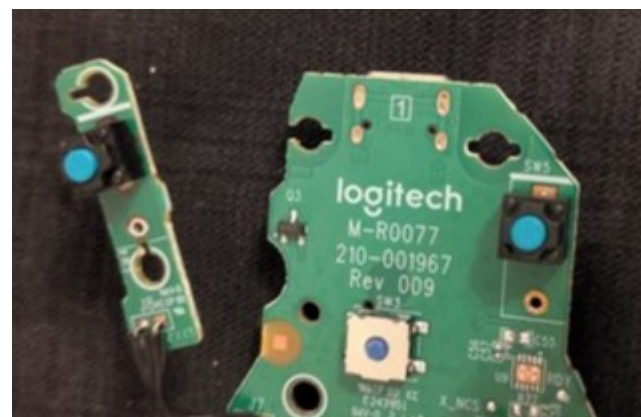
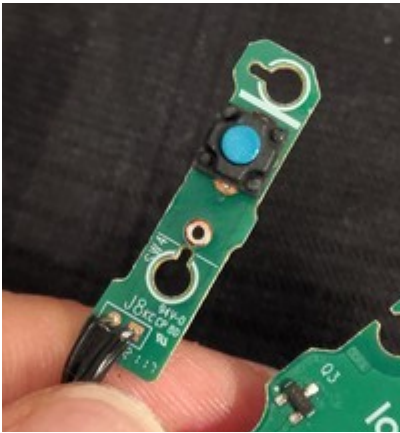
Last 5 screws and we can start swapping buttons!



Marked in **orange** are the pins for the two buttons to be desoldered. Expect some difficulty while desoldering, due to the massive copper traces the two buttons are soldered to (here comes into play the advice to have it done by a shop, but it's manageable with some hot air or desoldering wick).



In **red** you have the position of the silent button, in **orange** the traces to be soldered to.



This is how the buttons should look once the swap is over; you can clean the flux residue with IPA – IsoPropylAlcohol 99% and this will give it a clean and professional look.

Now the tricky part – reassembling the mouse. After screwing the bottom plate to the housing, screwing in and connecting the scrolling wheel and battery and reconnecting the top case, the best way to reassemble MY mouse was to start from the back, clipping it in place. Next positioning the FWD/BWD buttons in their place along with the side button and clipping it in place. Last is the front clips which I found they can be best clipped in with a guitar pick, first on the right side then the left side. If you see weird spacing between parts, open it back up and start over again, I, too, struggled with putting the two halves back together but with some attention to detail I successfully joined them back together.

Project complete! You should have two OMRON switches, no spare screws and a donor mouse with its silent switches removed.

Enjoy your silent mouse and new-acquired knowledge on silent mice(?).