



GV30 Teardown

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INTRODUCTION

Inside the GV30.



TOOLS:

- [Essential Electronics Toolkit](#) (1)
-

Step 1 — GV30 Teardown



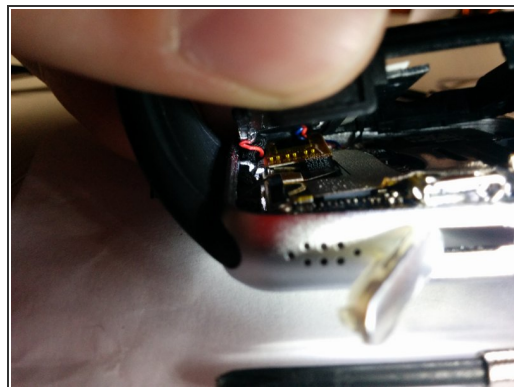
- Unscrew the screws on the back side

Step 2



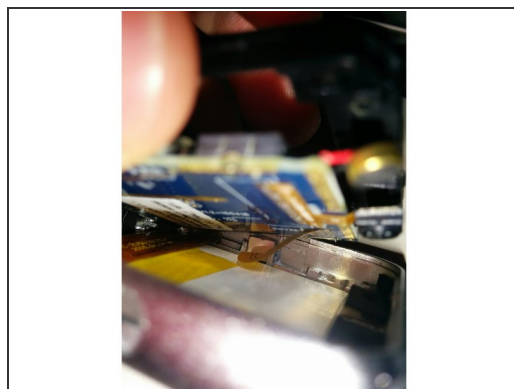
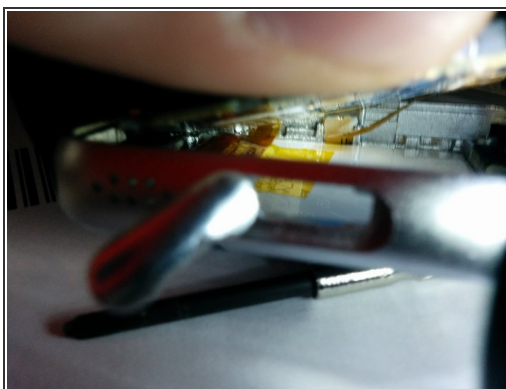
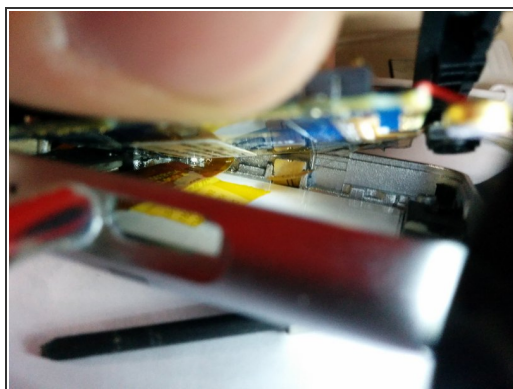
- Move the microusb port to release the circuit

Step 3



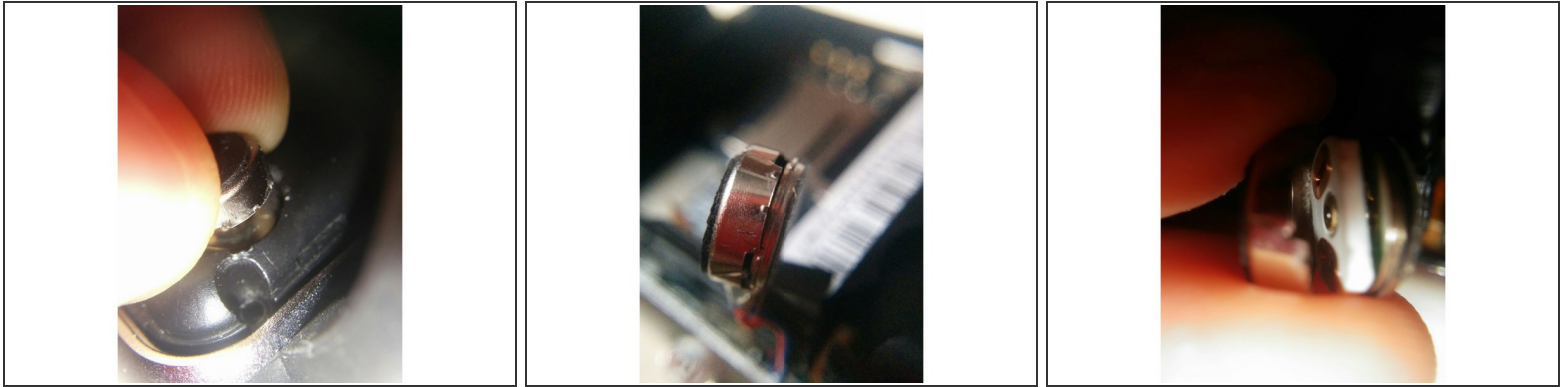
- The cables don't consent to separate the parts

Step 4



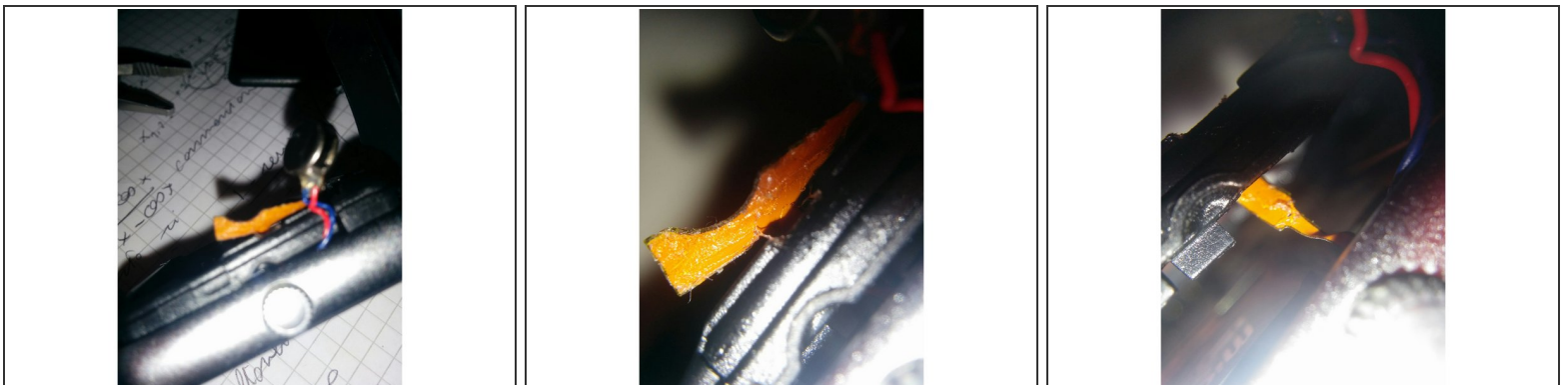
- Neither the yellow flat cables from the screen.

Step 5 — Remove the speaker



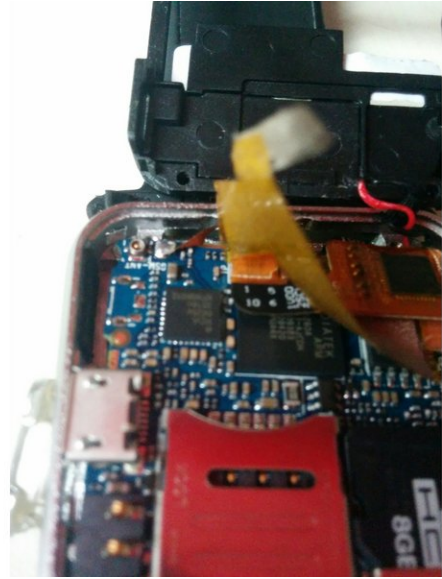
- Levering the speaker with something sharp from its location, it's glued to the base and I damaged it

Step 6 — Remove the black tape



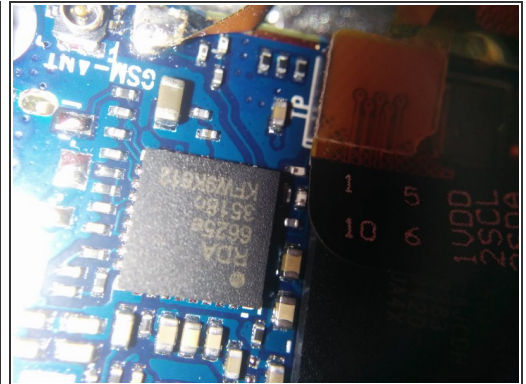
- Remove the black/yellow tape from the plastic frame with something

Step 7 — Now only the red&black cables are connected



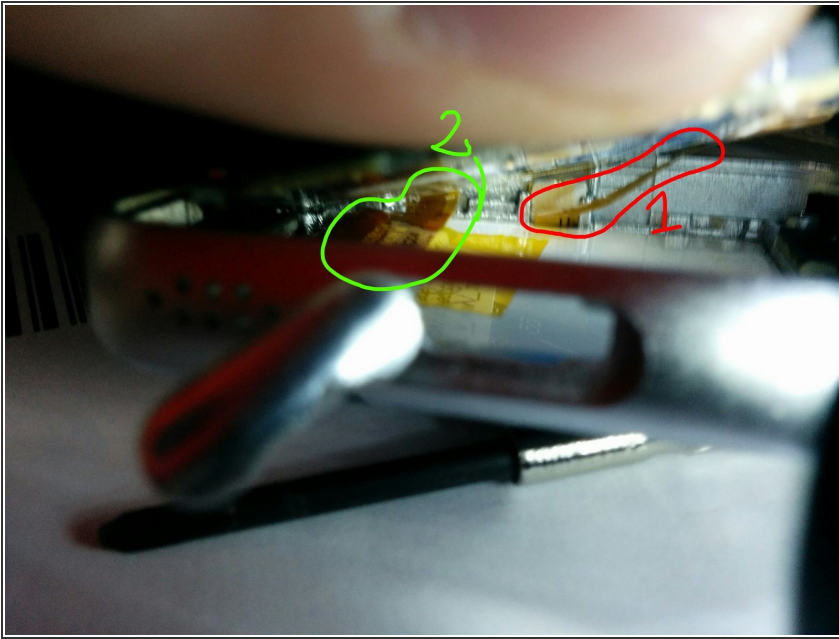
- Lift the plastic frame to view the circuit
- The gray wire cloth used for cooling or shielding blocks the view of the chip below it, so remove it

Step 8 — Look at the elements of the circuit



- Mediatek mt6260a processor
- ??

Step 9 — Have a look under the circuit at the flex or flat cables

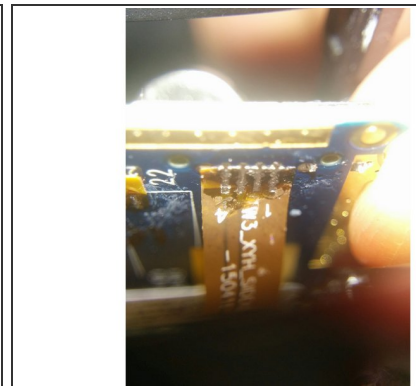
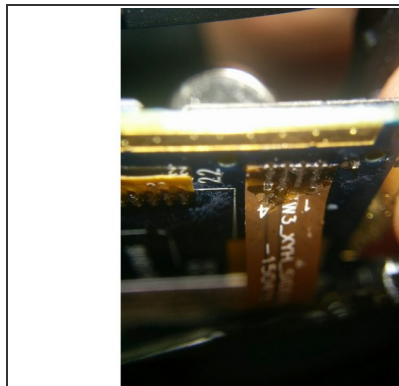
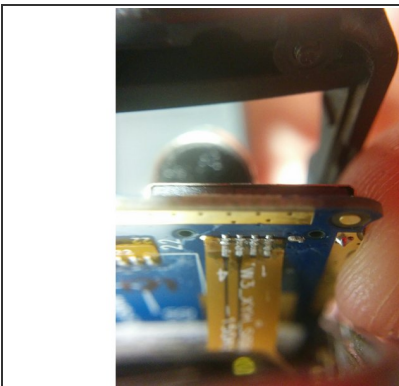


● There are 2 cables :

● 1

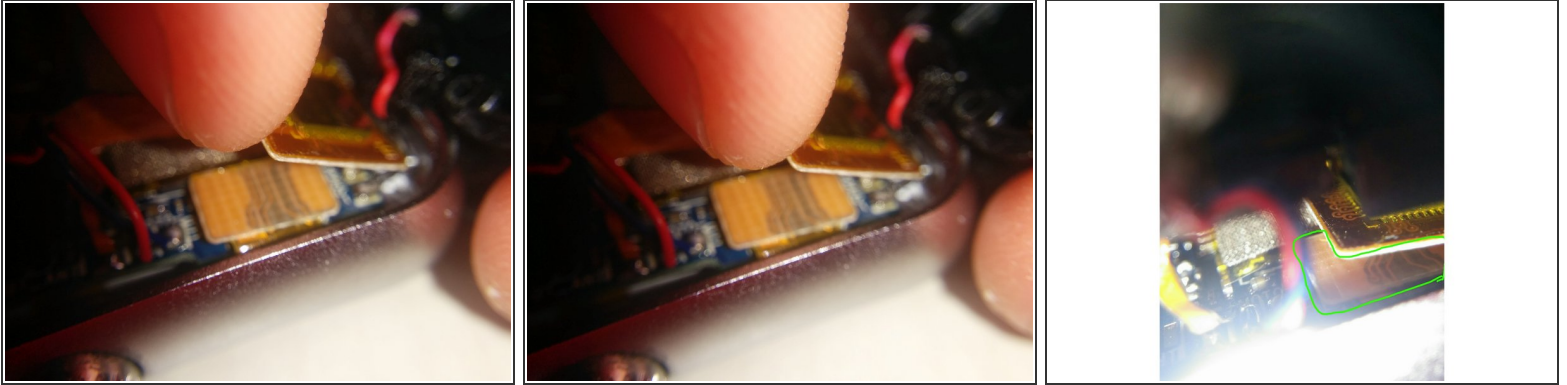
● 2

Step 10 — Cable 1



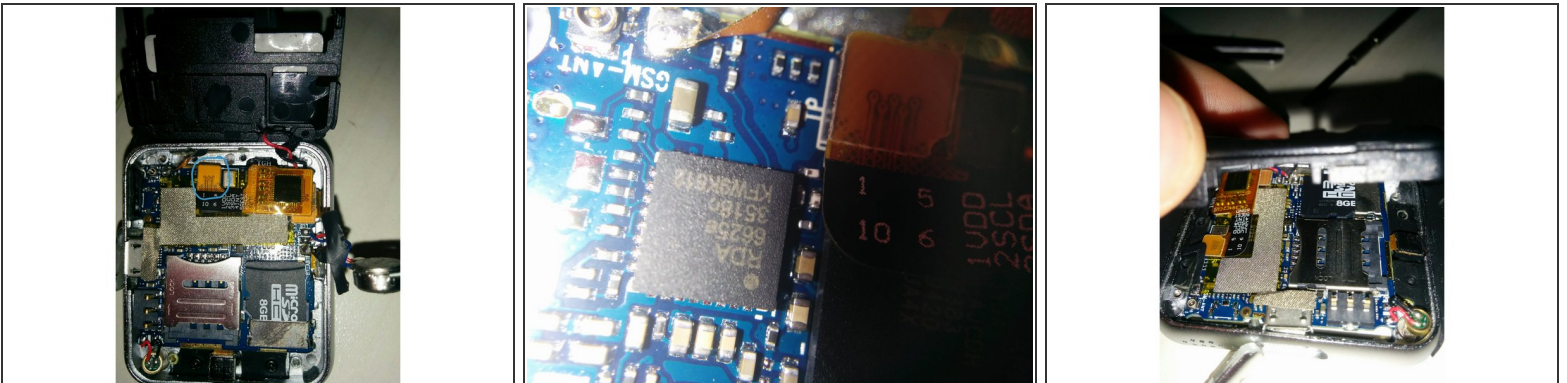
- Seems to be soldered to the board, applying a slight pressure nothing happens. Maybe there's some glue

Step 11 — Cable 2



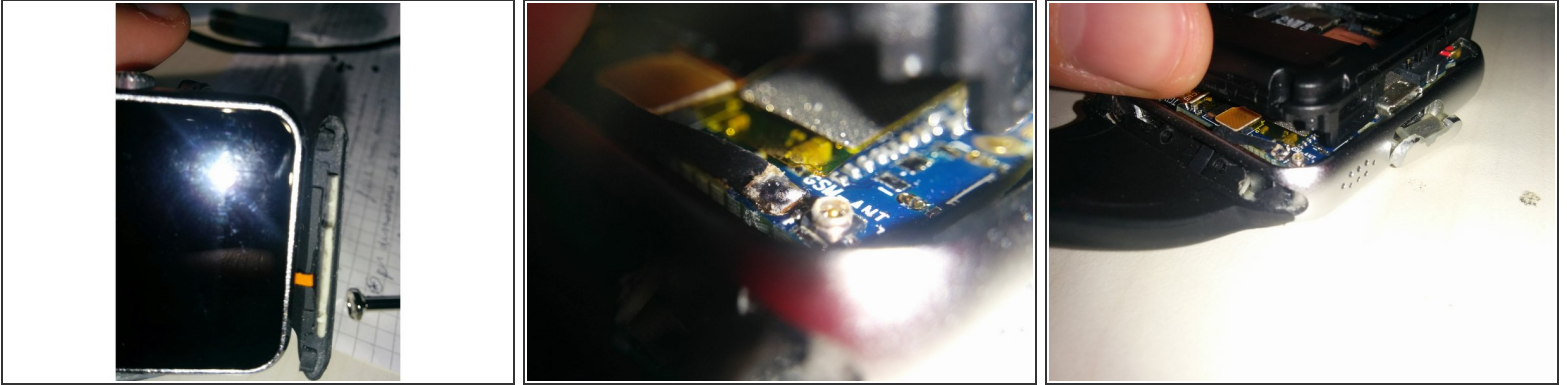
- This cable seems to have the locking bar, but trying to move it sliding or leveraging it with a screwdriver it doesn't move. How can I remove it ?

Step 12 — Cable 3



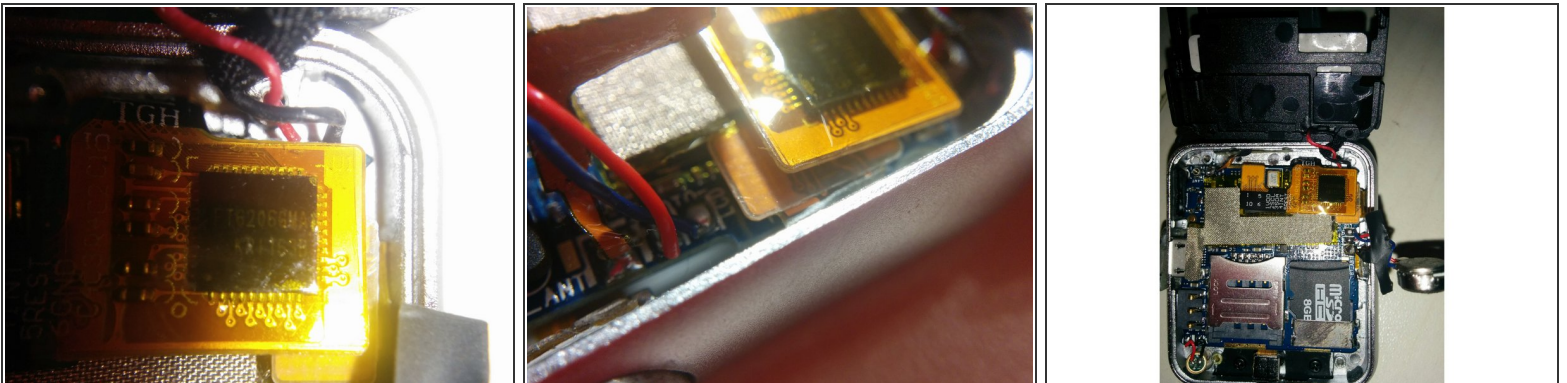
- Another cable having a locking bar. I tried to move this cable too and having more space I forced it more than the previous one but nothing moved.

Step 13 — Another cable going into the strap



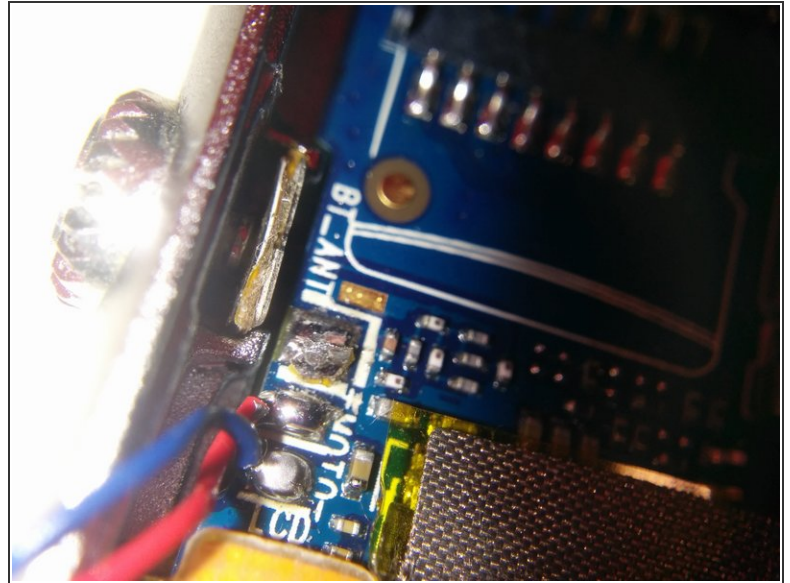
- I don't know what cable is it , the watch don't measures heartbeats but only steps and monitores sleep. However this cable is soldered and i don't want to desoldering it if not necessary

Step 14 — The last thing i notice is this chip



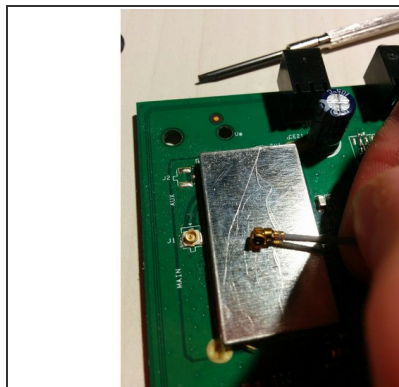
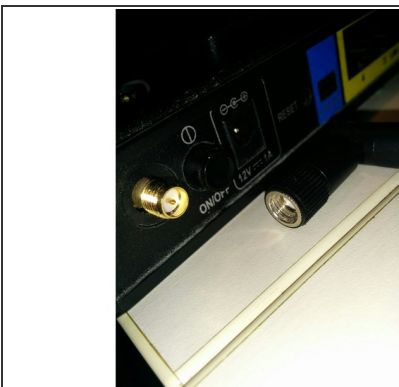
- The chip is connected with the third cable

Step 15 — See the bt_ant near the on/off button



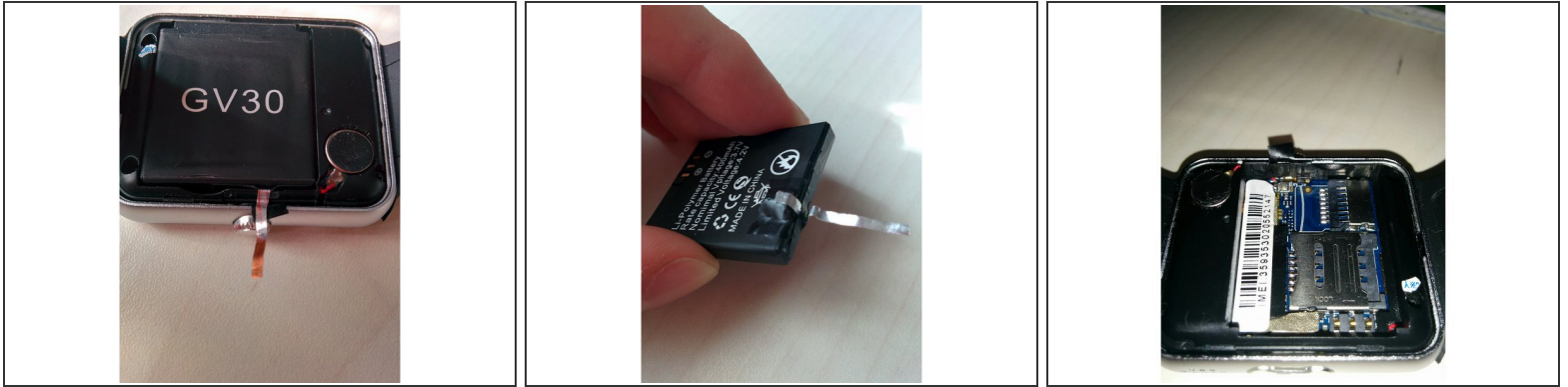
- I had to remove the micro sd to see it, also if i described the same antenna in 6th step whitout realizing. It seems to have only 1 connection to the board and seems to be 1 thin copper plate all united. Unfortunately i ripped the antenna in the 2nd photo ! Now i need to replace the antenna with another.

Step 16 — The antenna i have is a simple wifi's one (i think



- The problem is that this antenna have 2 connections while the previous had only 1 ! I don't know what are these connections. Maybe one connects simply to ground, but i don't know. I think it's a SMA connector. I expect if i peel the cable to get 2 cables.

Step 17 — Completed !



- The cable is about 2cm long and wide 2mm , i not measured it but works very well. I don't know even if it touches the contact or is only near it.
- If i connect another piece of wire on the antenna the range of the bluetooth remain practically the same. Maybe to increase further the range, i need a determinate-length wire , for example with a online calculator the length of the ideal antenna results a quarter of wave of 2,450 ghz but i don't know how much is important