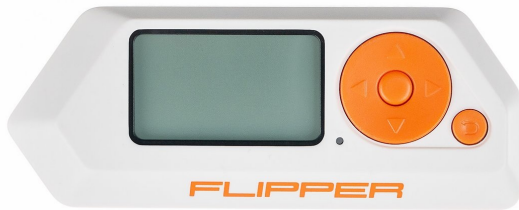




Flipper Zero Teardown

Flipper Zero is a portable multi-tool for...

Written By: Flipper Devices



INTRODUCTION

Flipper Zero is a portable multi-tool for pentesters and geeks in a toy-like body. It loves hacking digital stuff, such as radio protocols, access control systems, hardware and more. It's fully open-source and customizable, so you can extend it in whatever way you like.

TOOLS:

[Phillips #0 Screwdriver](#) (1)
[iFixit Opening Picks \(Set of 6\)](#) (1)
[Desoldering Pump](#) (1)
[Soldering Iron](#) (1)
[Flathead 1.5 mm Screwdriver](#) (1)

Step 1 — Caution



 Do not use alcohol or alcohol containing cleaners, tissues, wipes, or sanitizers on the acrylic window! It can permanently damage it.

- The top shell, the IR cover and the acrylic window are one solid part and can't be disassembled. (They pop out with a bit of force but won't go back in as well without some sort of glue)
- The Flipper Zero only uses two types of screws:
 - Long screw size is M1.7x8
 - Short screw size is M1.7x4

Step 2 — Remove the microSD card



- Eject the microSD card (if present) by pressing it with your fingernail.

Step 3 — Remove the screws



- Use a [PH0 screwdriver](#) to unscrew the four long screws holding the back cover.

Step 4 — Open the back cover



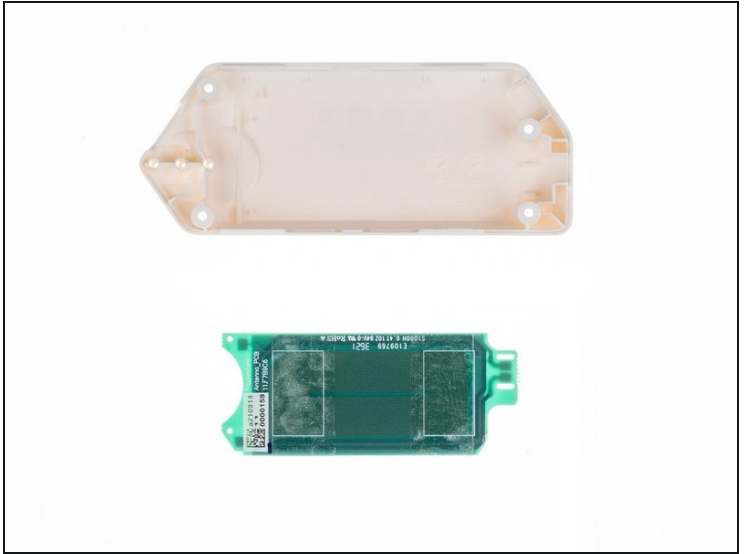
- Press the middle of the top cover on both sides, one by one, to release the latches that hold the back cover in place.
- Once the latches are released, you can remove the bottom cover.

Step 5 — Lift the NFC antenna



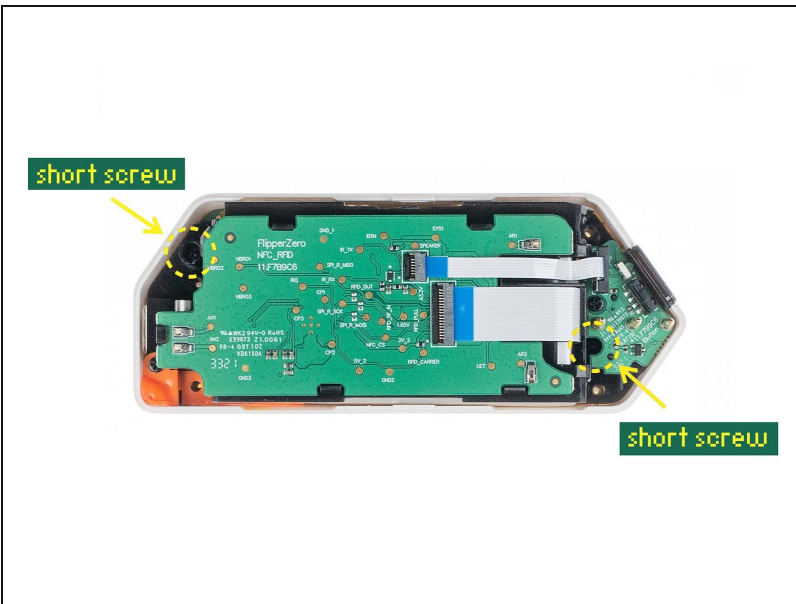
- The board with the NFC antenna is glued to the bottom cover with adhesive tape.
- To remove the board, gently pry one of the edges of the board with a [plastic pick](#) to peel off the adhesive tape.

Step 6 — Pull out the NFC antenna



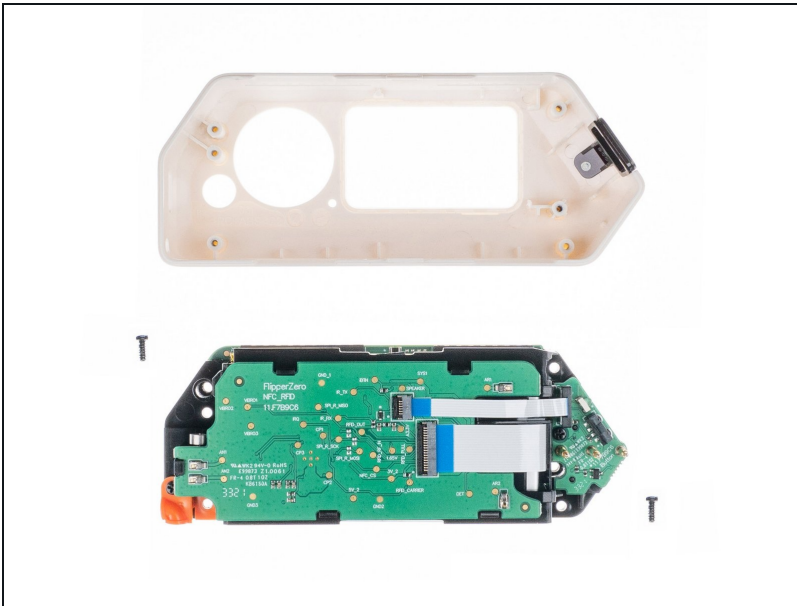
- Gently pull out the rest of the board.

Step 7 — Unscrew the chassis



- Use a [PH0 screwdriver](#) to unscrew the two short screws that are holding the chassis and top cover together.

Step 8 — Separate the chassis from the top cover



- Take the chassis out of the case.

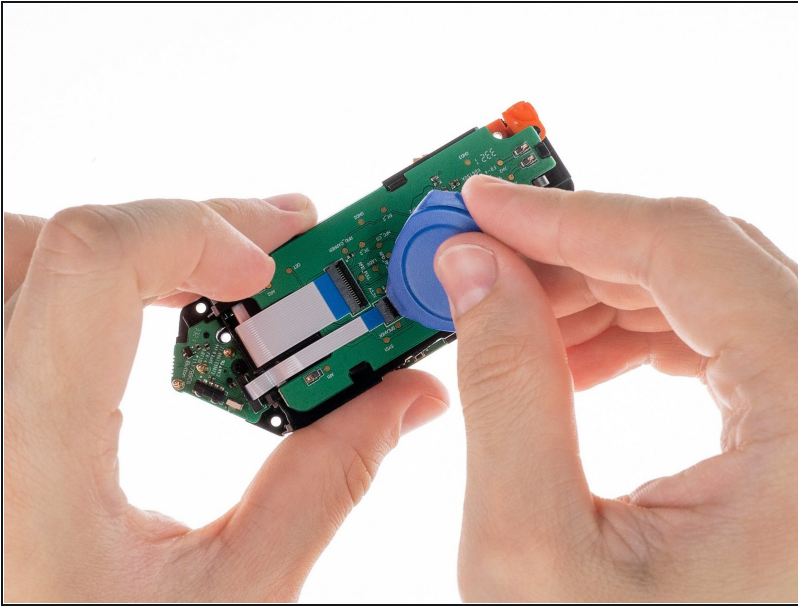
Step 9 — Disconnect the battery



- Disconnect the battery by prying the connector with a plastic pry tool and pulling it out.

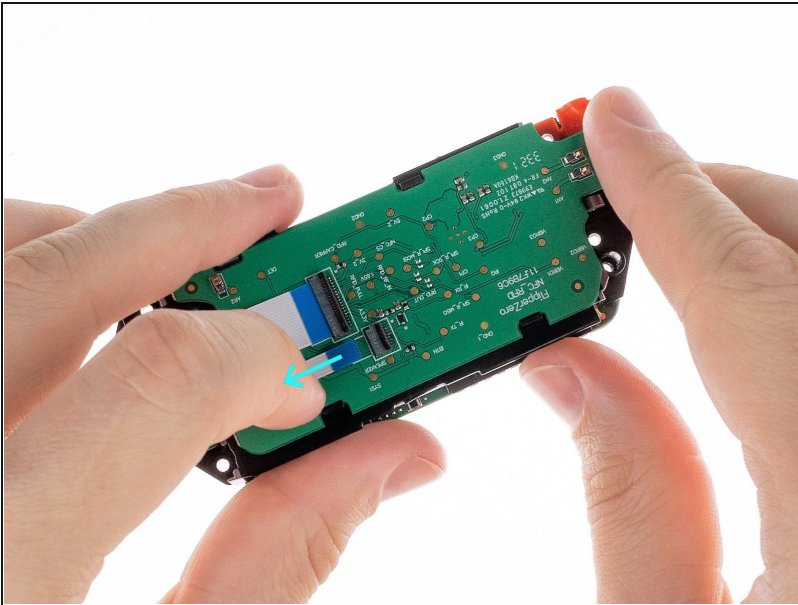
⚠ Do not use a metal screwdriver when prying out battery connectors, if you do it may short the battery terminals and cause damage to the battery.

Step 10 — Disconnect the ribbon cables



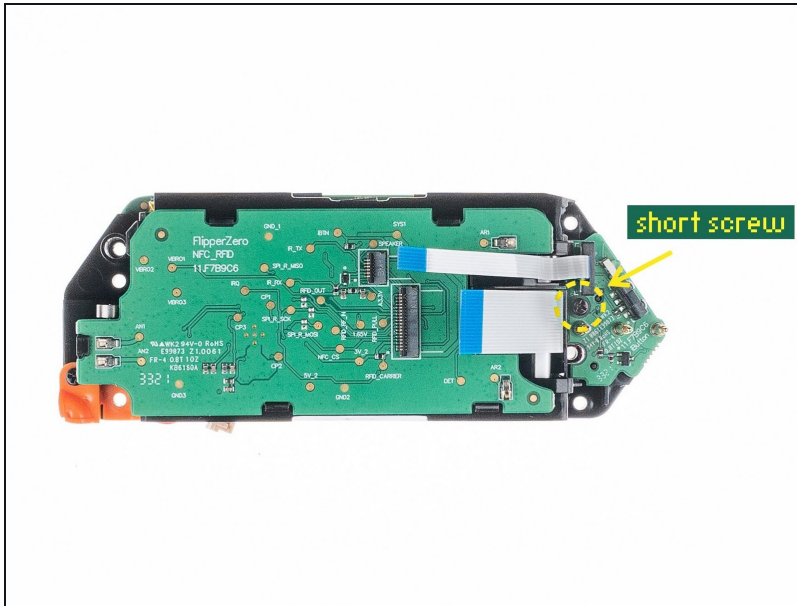
- Disconnect the large ribbon cable from the board. Use a [plastic pick](#) to lift the latch up to release the locks.

Step 11 — Disconnect the ribbon cables



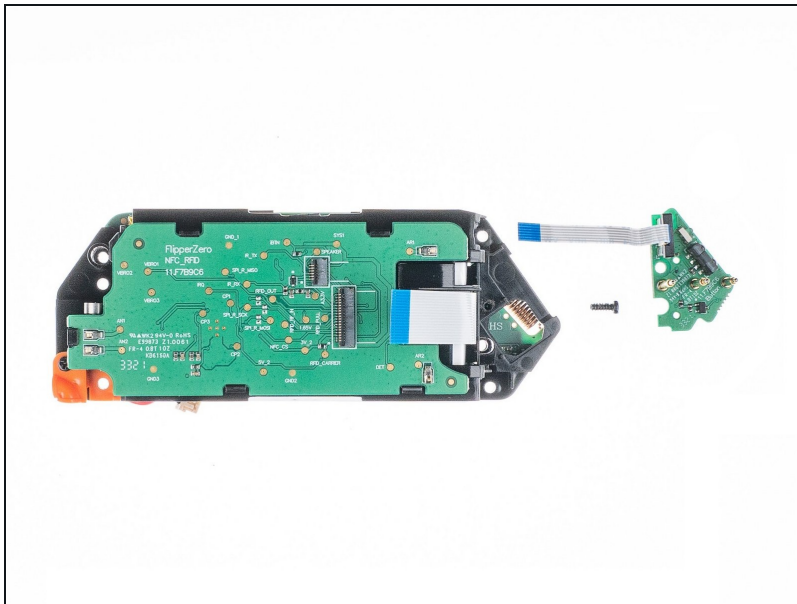
- Once the connectors are unlocked, carefully pull out the ribbon cables.

Step 12 — Unscrew the iButton board



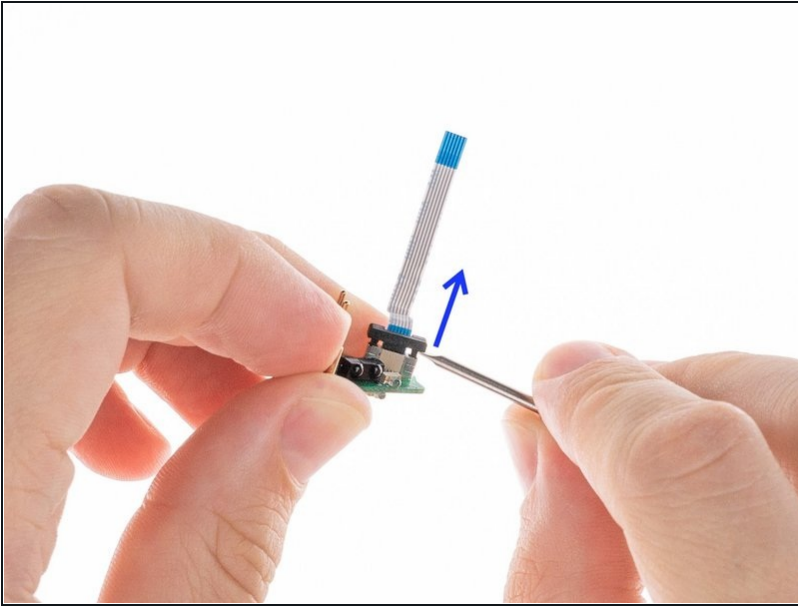
- Unscrew the short screw holding the iButton board in place using a [PH0 screwdriver](#).

Step 13 — Remove the iButton board



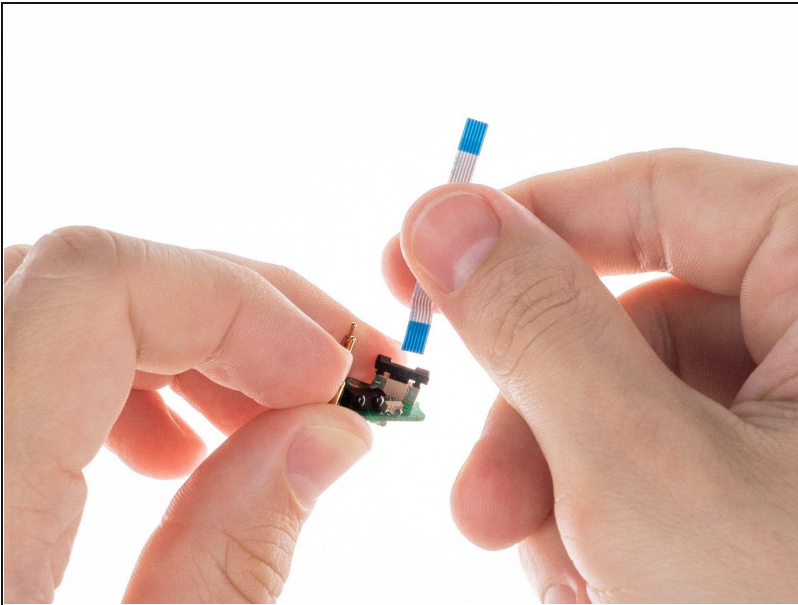
- Once the screw is removed, carefully remove the iButton board.

Step 14 — Remove the cable from the iButton board



- To disconnect the flat cable from the iButton board, use a [flat screwdriver](#) to carefully release the lock by pulling the latch up, then pulling gently on the ribbon cable.

Step 15 — Remove the cable from the iButton board



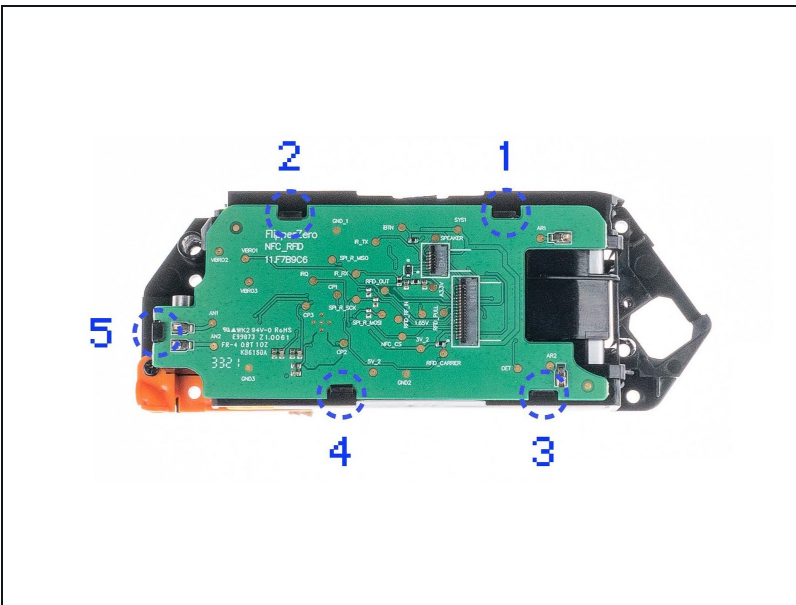
- Once the connector is unlocked, gently pull the cable out of the connector.

Step 16 — Release the battery chassis



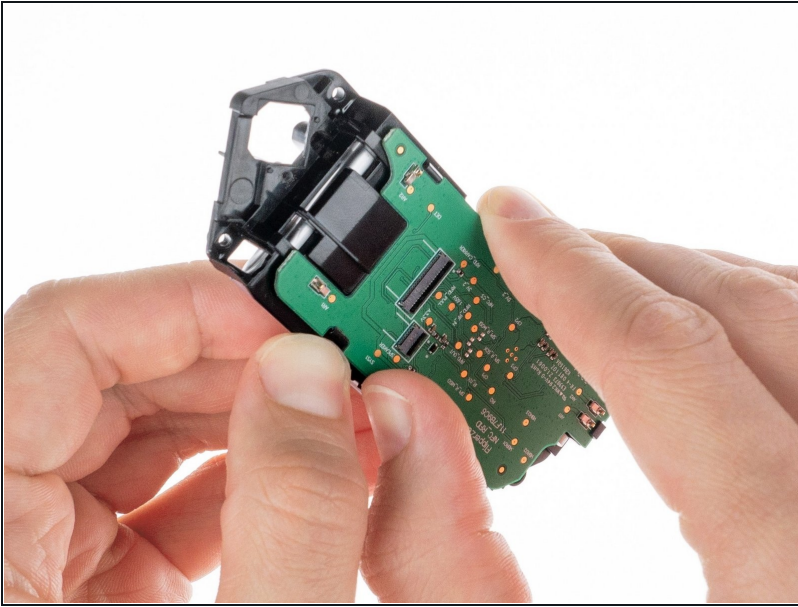
- To release the battery chassis, gently rock it back and forth while pulling the two parts apart.

Step 17 — Remove the NFC RFID board



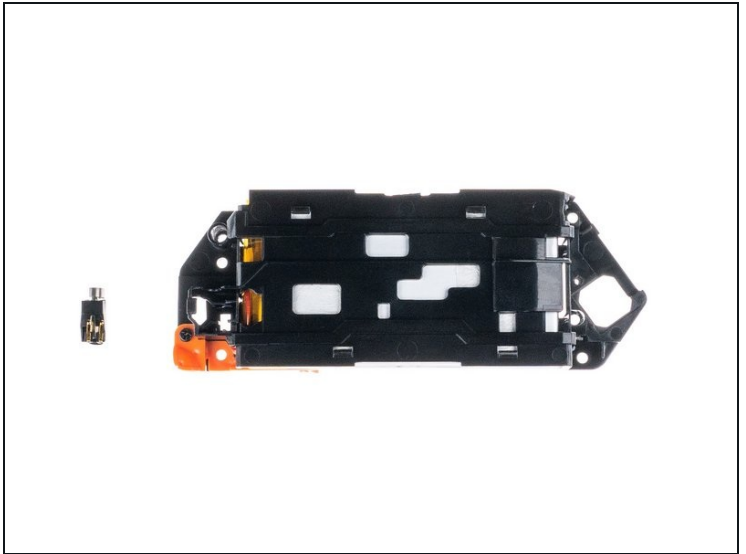
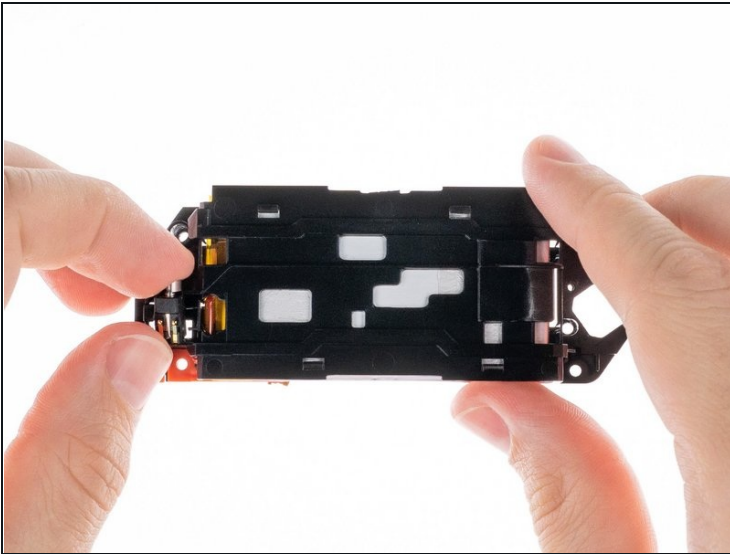
- To remove the NFC RFID board, release it from the latches in the sequence shown.

Step 18 — Remove the NFC RFID board



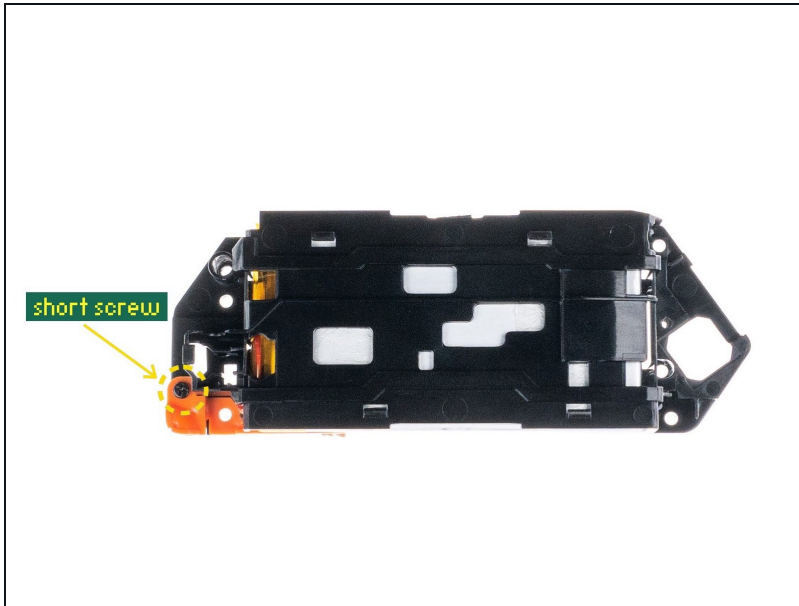
- Release the board from the latches by pressing on the edge of the chassis near the specific latch in the specified sequence.

Step 19 — Remove the vibration motor



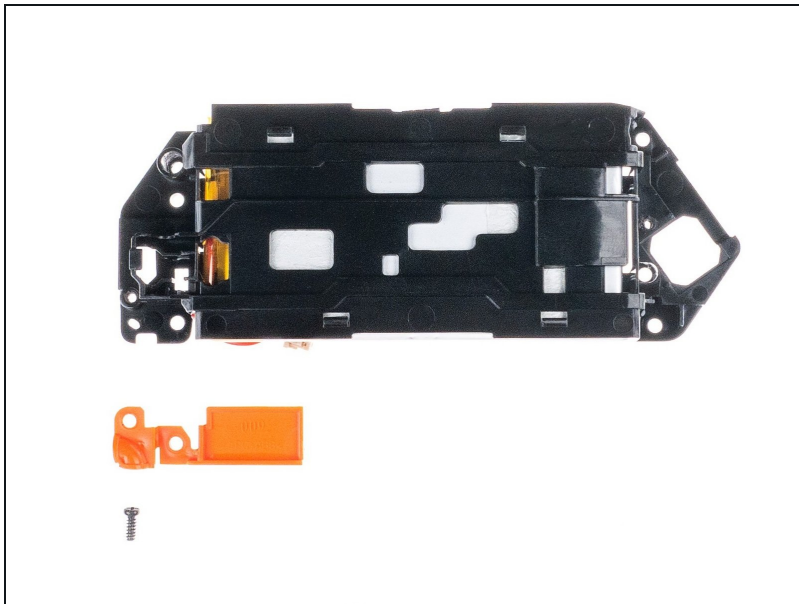
- Take out the vibration motor.

Step 20 — Unscrew the lace mount



- To remove the lace mount, use a [PH0 screwdriver](#) to unscrew the short screw that is securing it in place.

Step 21 — Remove the lace mount



- Remove the lace mount from the chassis.

Step 22 — Remove the battery



- The battery is attached to the chassis with double-sided tape. To remove it, use a [plastic pick](#) to gently peel the battery off the chassis.

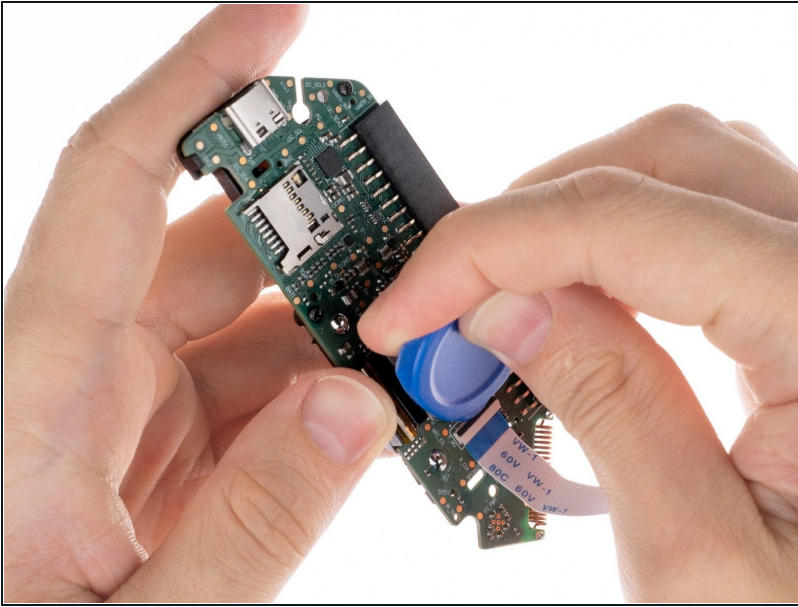
⚠ Caution: Don't jab the battery with any sharp tools. A punctured battery may leak dangerous chemicals or catch fire.

Step 23 — Remove the battery



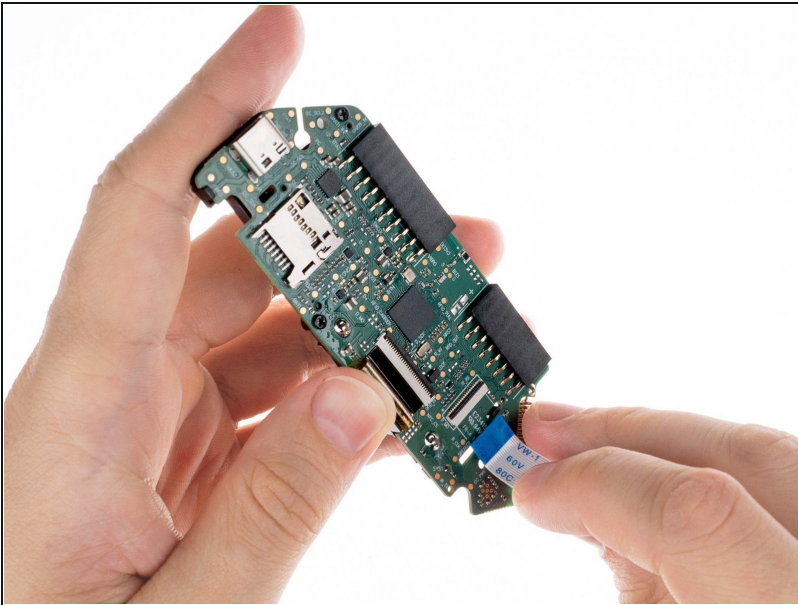
- Remove the battery from the chassis.

Step 24 — Remove the ribbon cable



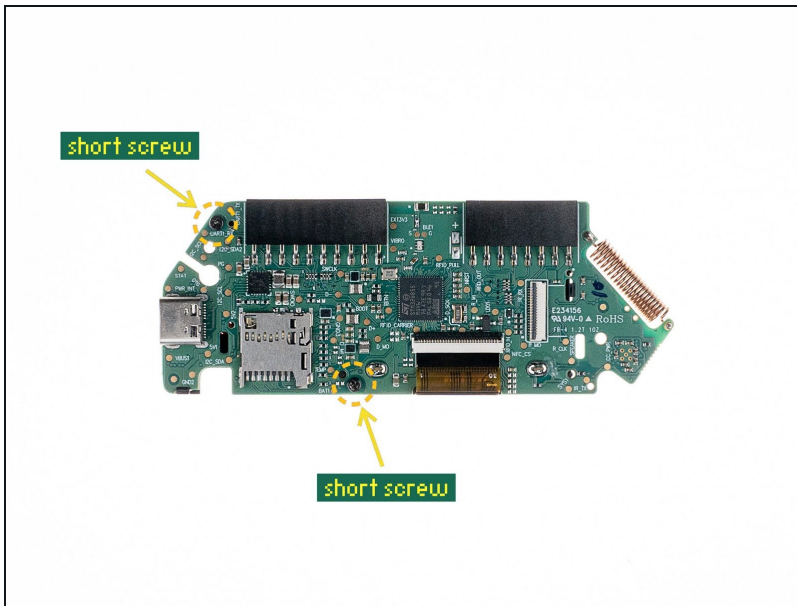
- Use a [plastic pick](#) to lift the latch up to unlock the connector.

Step 25 — Remove the ribbon cable



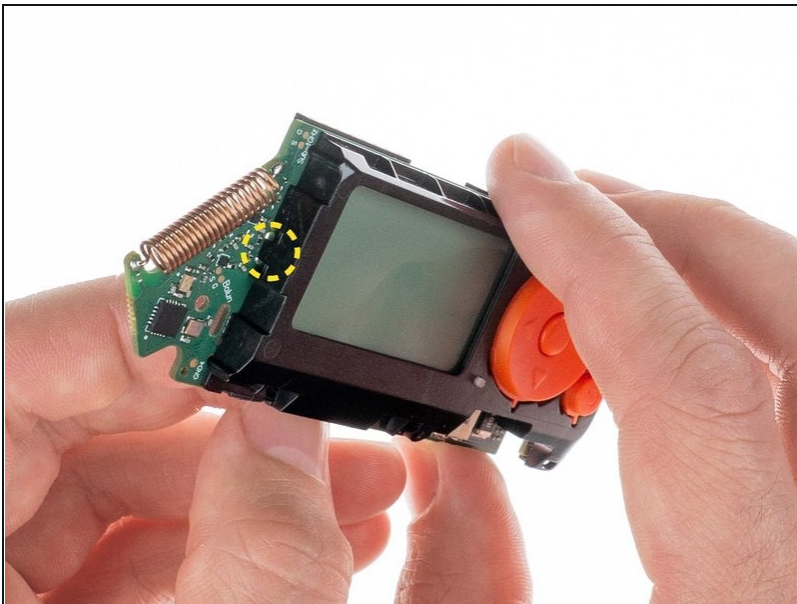
- Pull the flat cable out.

Step 26 — Unscrew the the button chassis



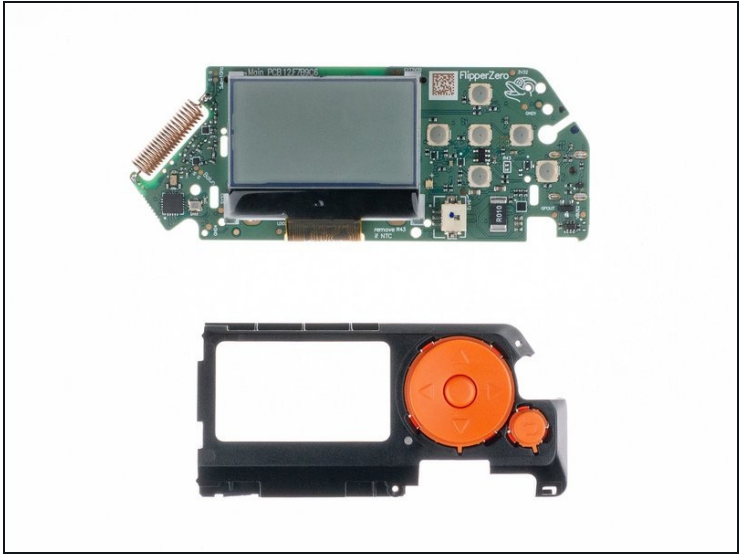
- Unscrew the two short screws holding the button chassis using a [PH0 screwdriver](#).

Step 27 — Separate the button chassis



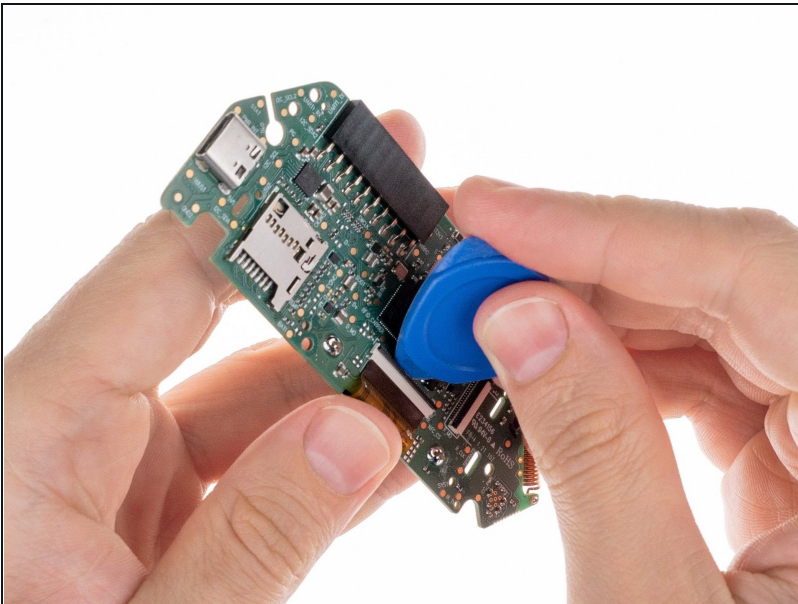
- To disconnect the button chassis and the board, press the latch on the side shown below.

Step 28 — Remove the button chassis



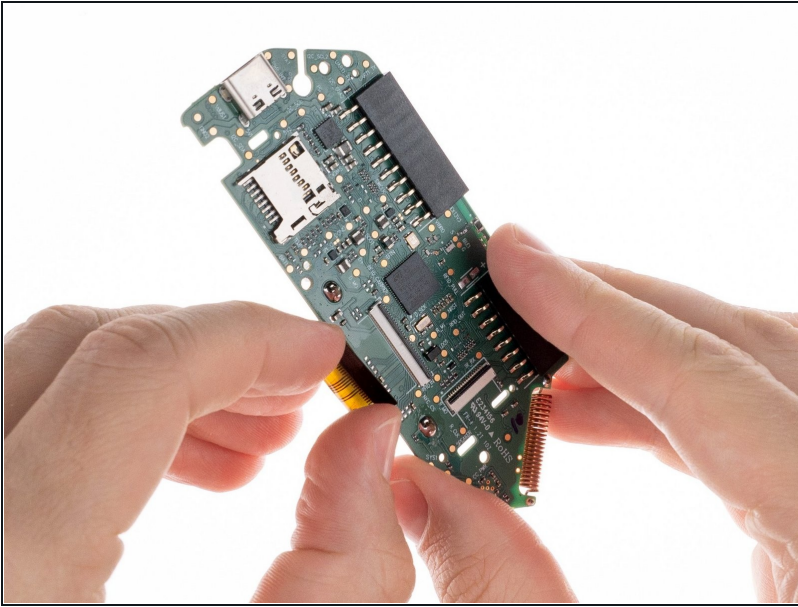
- Remove the button chassis.

Step 29 — Disconnect the screen



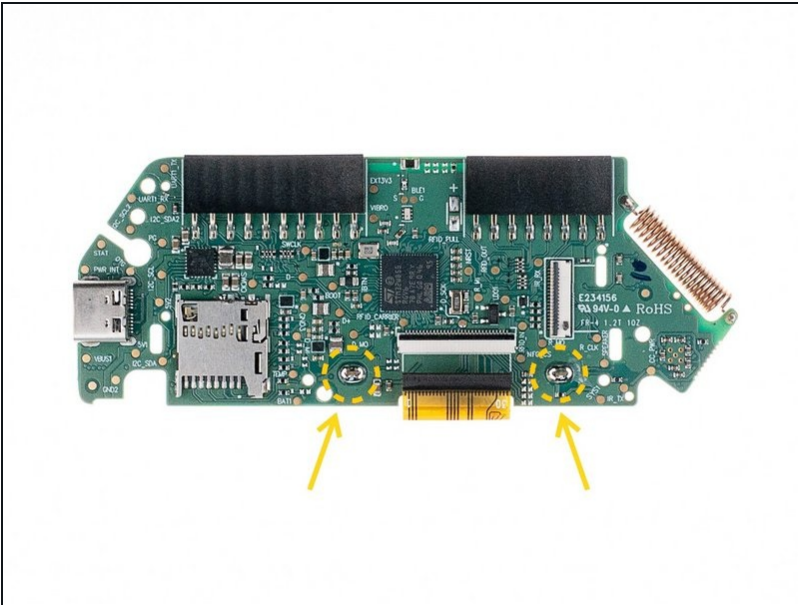
- Disconnect the screen ribbon cable from the board. Use a [plastic pick](#) to lift the latch up to open the lock.

Step 30 — Disconnect the screen



- Remove the cable from the board.

Step 31 — Desolder the screen



- To remove the screen you need to desolder two contacts.

⚠ Be careful during this step not to accidentally melt or desolder other nearby components.

Step 32 — Remove the buttons



- To remove the buttons you need to release the latches.
 - OK
 - D-pad
 - Back
- ① The central button (OK) is removed after the navigation button (D-pad)

Step 33 — Remove the buttons



- Release the latches with a [flat screwdriver](#). You need to be careful with the springs under the buttons.

Step 34 — Remove the light guide



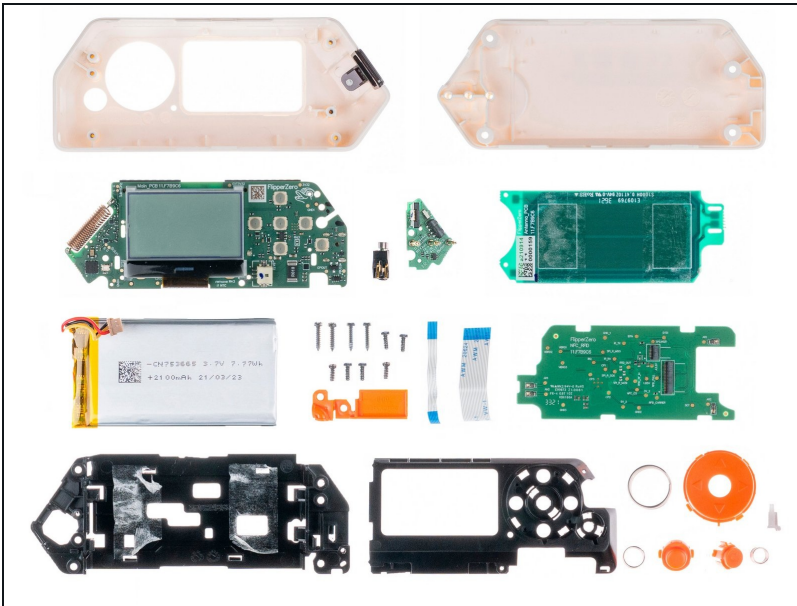
- Use a [flat screwdriver](#) to release the light guide from the chassis.

Step 35 — Remove the light guide



- Pull the light guide out from the inside of the chassis.

Step 36 — Finish



- Here you can see all the parts laid out together.

To reassemble your device, follow these instructions in reverse order.