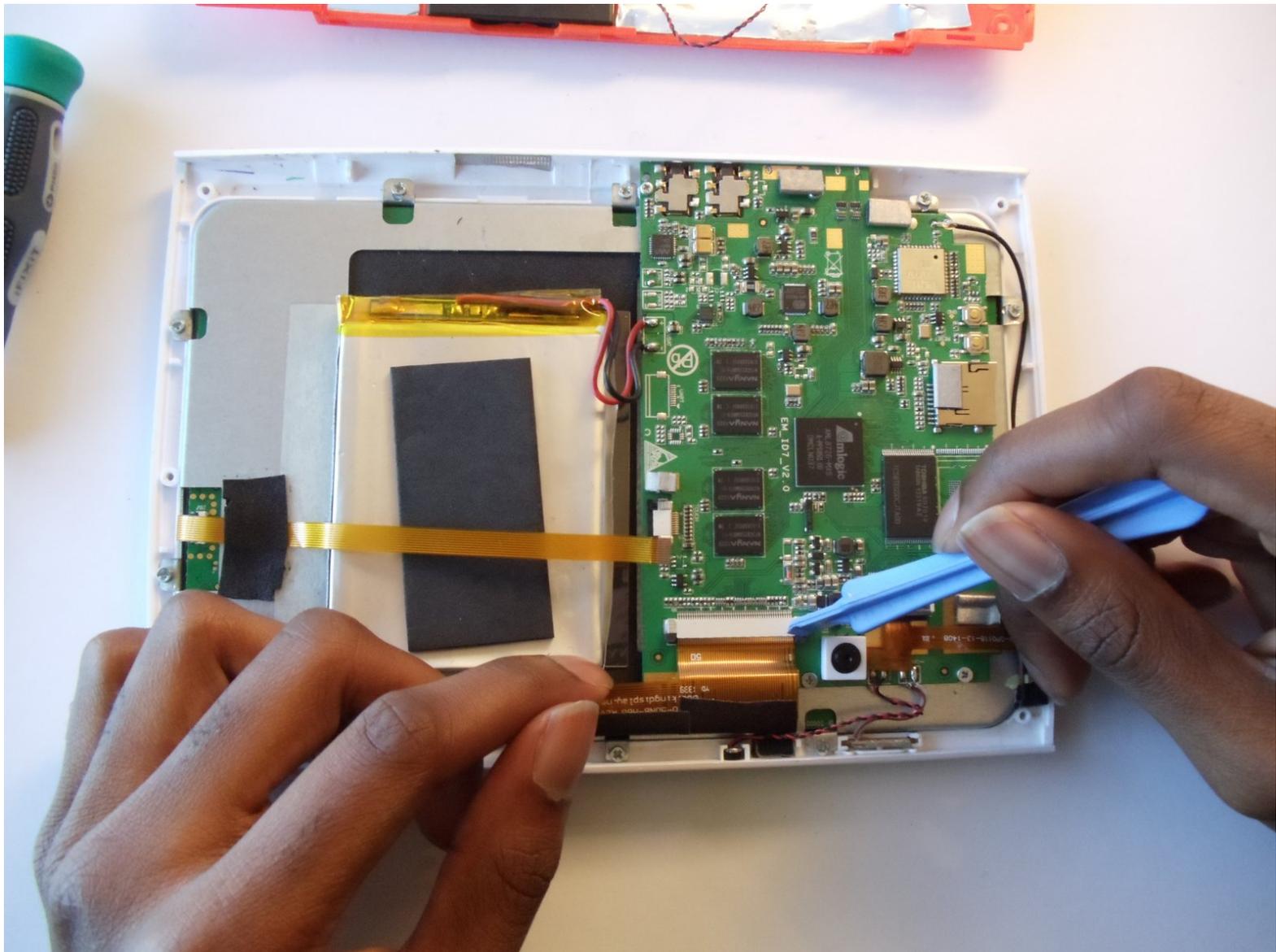




# Oregon Scientific Meep! X2 Motherboard Replacement

This guide will show you how to replace the motherboard in the Meep! X2 tablet.

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## INTRODUCTION

Use this guide in order to replace the motherboard within the Oregon Scientific Meep! X2.

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### TOOLS:

- [Phillips #00 Screwdriver](#) (1)
  - [iFixit Opening Tools](#) (1)
  - [Spudger](#) (1)
  - [Soldering Iron](#) (1)
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## Step 1 — Rear Casing



- Remove the orange covers from the left and right sides of the device by sliding up against the tabs.

## Step 2



- You can remove the rear casing by unscrewing all six phillips #00(3.5mm x 4.5mm)screws from the left and right side of the device.

### Step 3



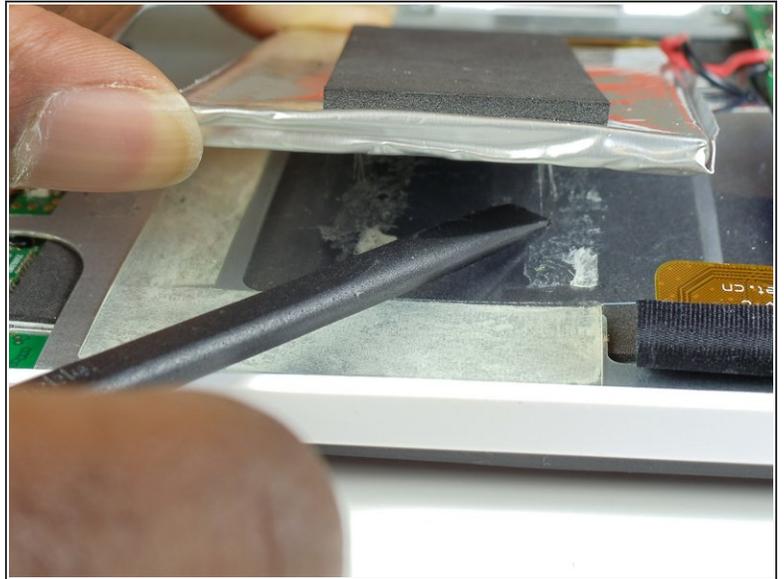
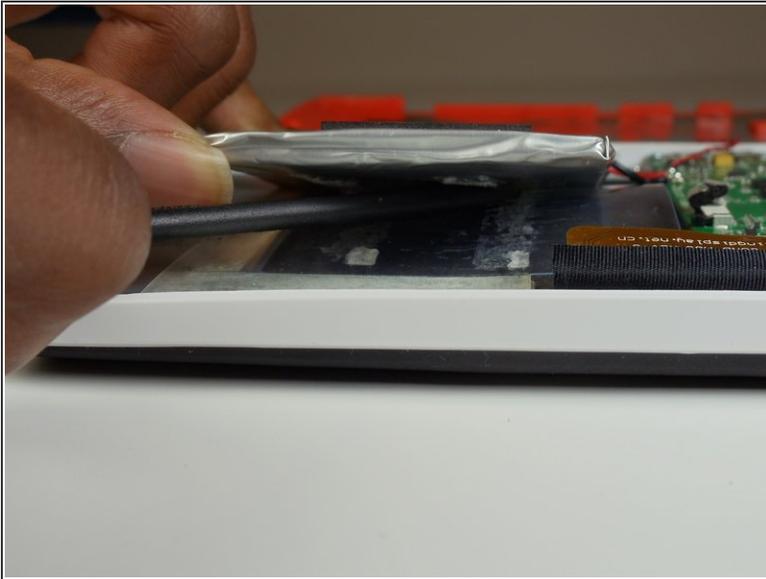
- Use the plastic opening tools to undo the clips around the edges of the device.

### Step 4 — Remove the ribbon cable.



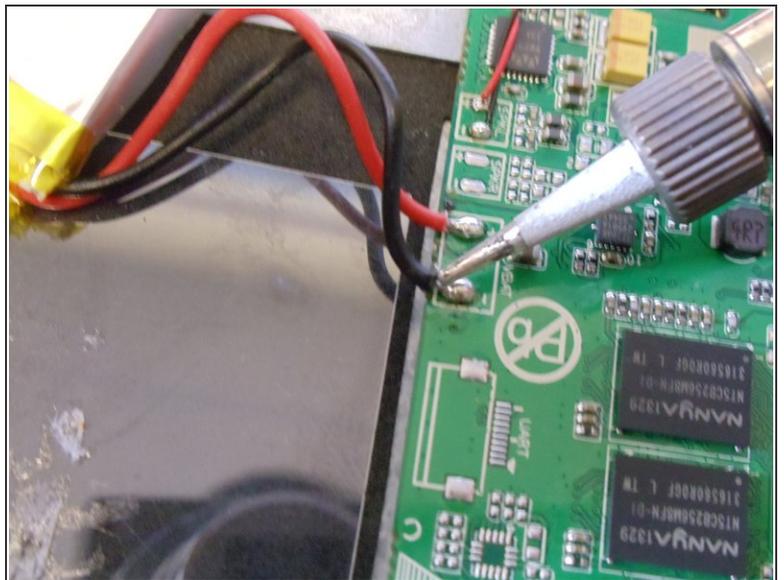
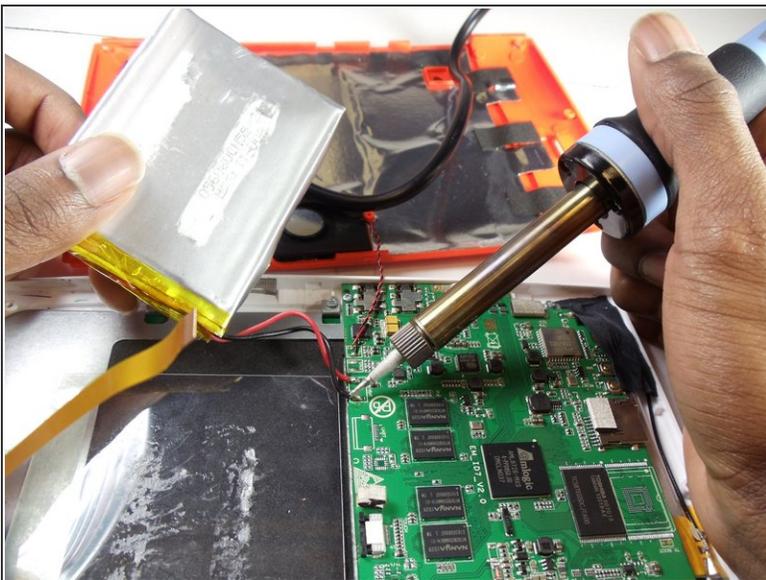
- Gently unhook the black security clips to loosen the ribbon cable. Use one of the plastic opening tools.
- Pull lightly on the ribbon cable to remove it.

## Step 5 — Sever the adhesive glue on the battery.



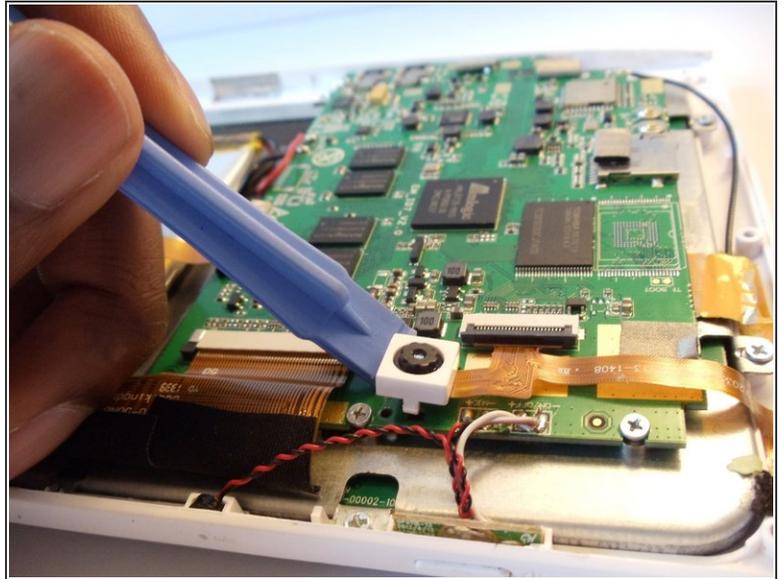
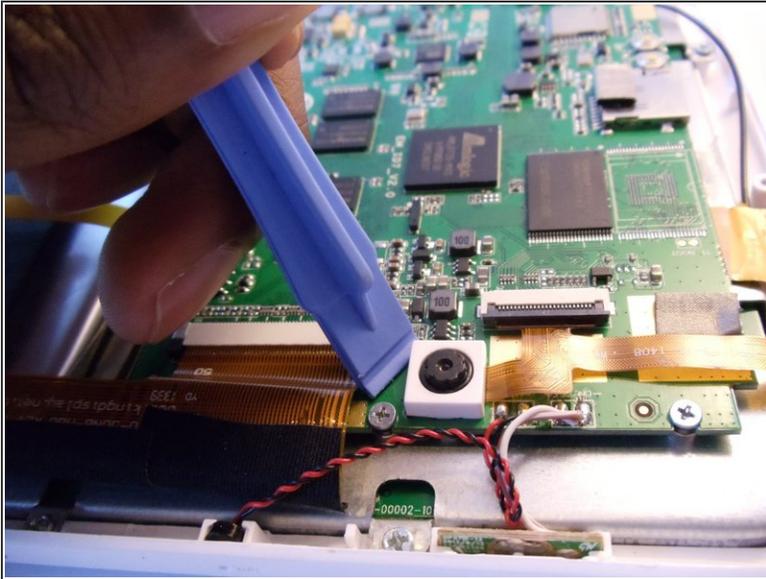
- Use your spudger to separate the battery from the adhesive glue strips and plastic film.

## Step 6



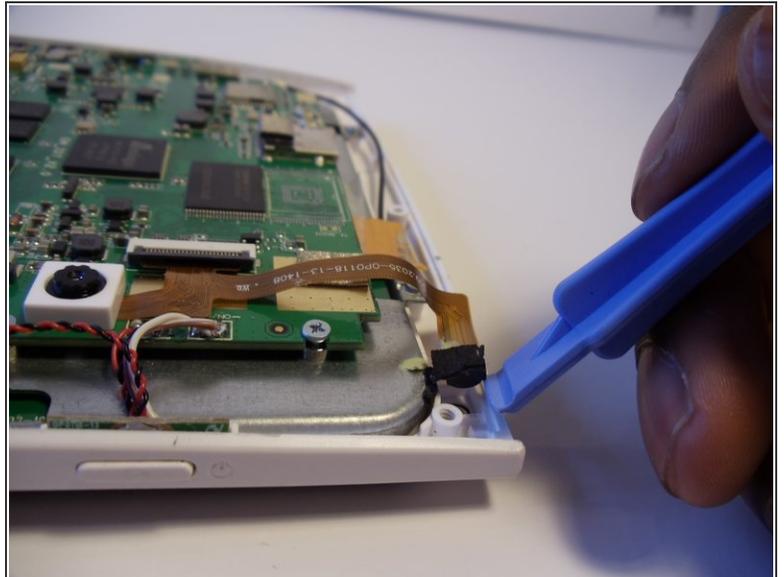
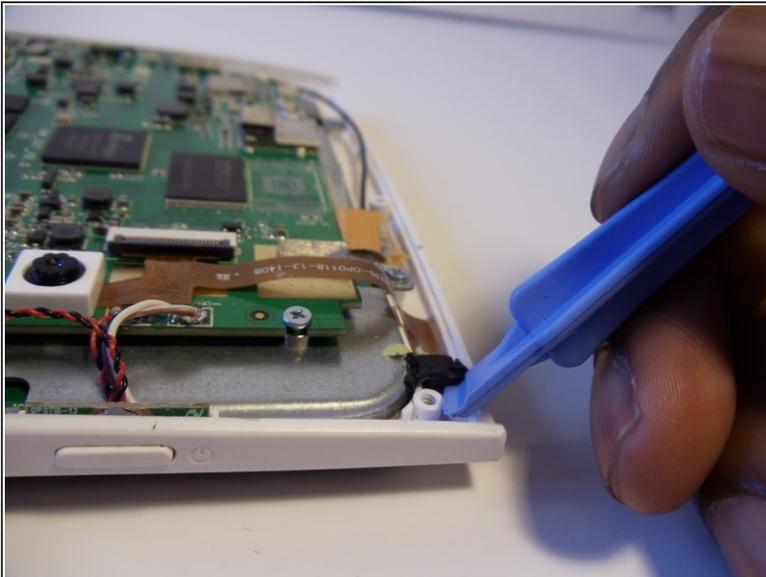
- Use a soldering station to unsolder the battery wires from the motherboard.
- ☑ In the case of screen or screen sensor replacement, disregard desoldering steps.

## Step 7 — Cameras



- Slip the plastic opening tool under the white, square enclosure of the camera and lift upward to unhook the camera unit from the motherboard.

## Step 8



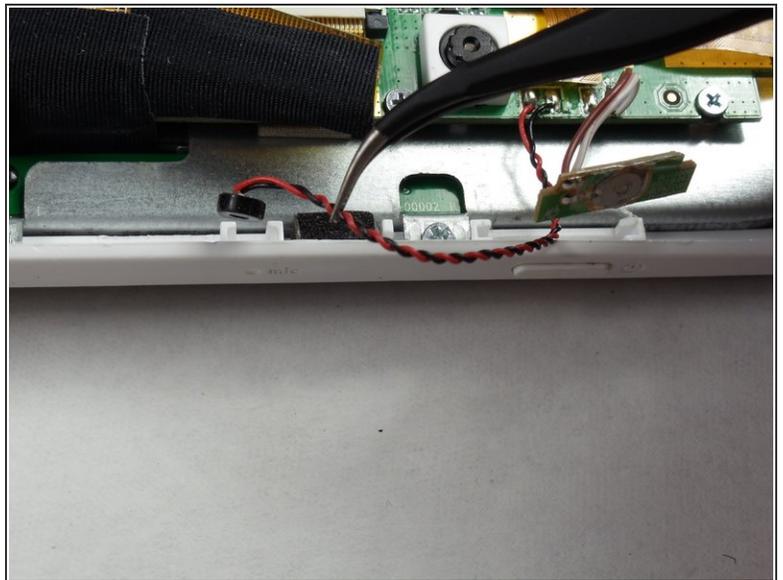
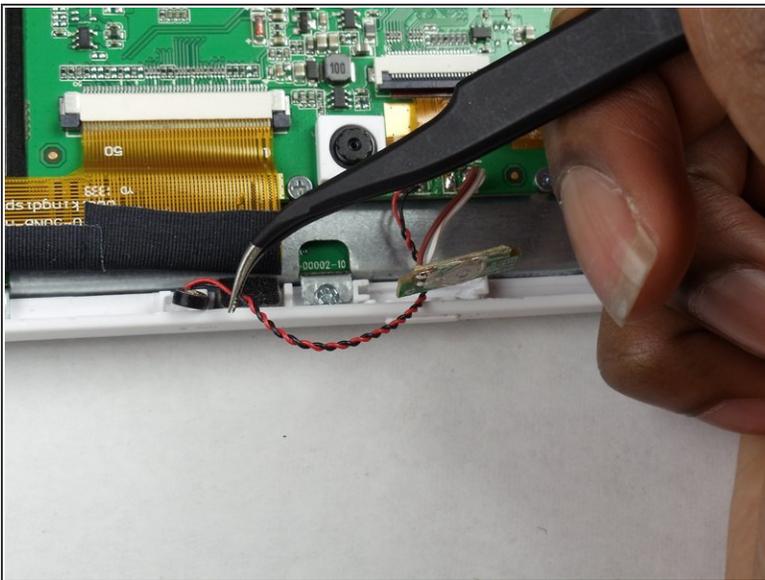
- Pry the second camera out of its slot with one of the plastic opening tools.
- ⓘ Be sure to undo the black adhesive foam from the metal casing in order to remove the camera properly.

## Step 9



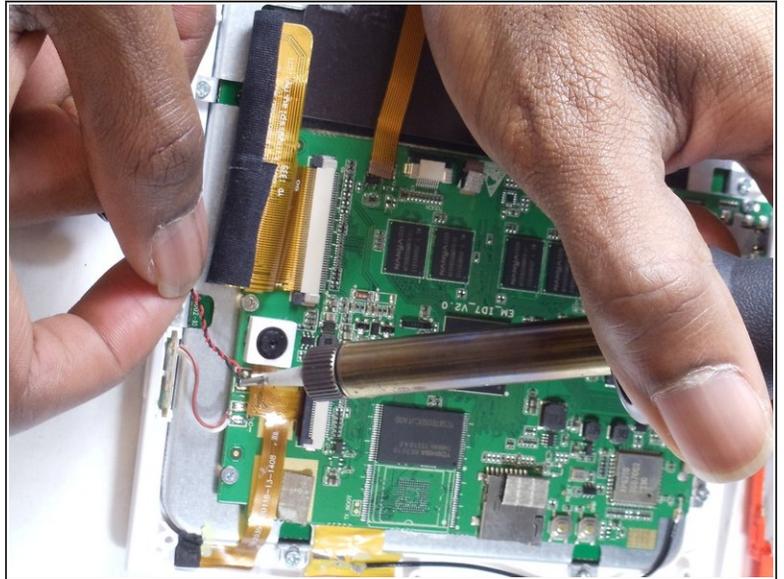
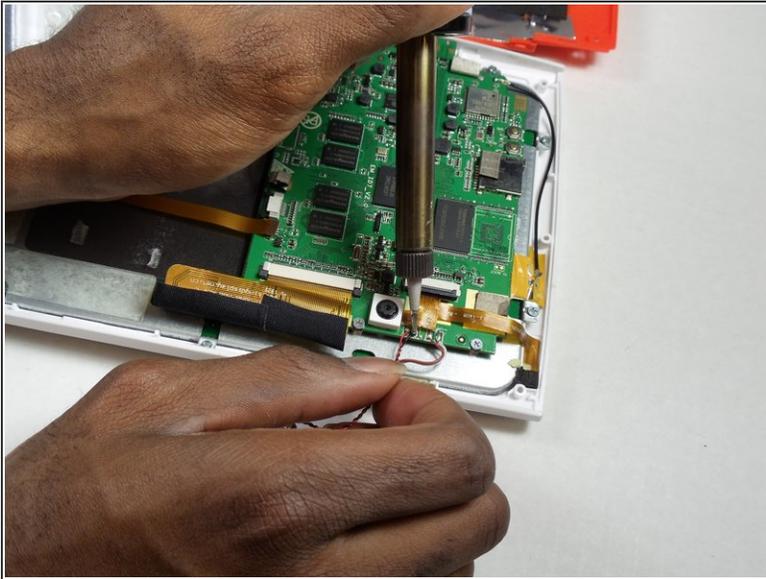
- Release the black security clip on the ribbon cable with your plastic opening tool.
- Gently disconnect the gold ribbon cable from the motherboard. The two cameras will remain attached to the ribbon cable.

## Step 10 — Microphone



- Use your tweezers to gently remove the microphone from the slot in the casing.

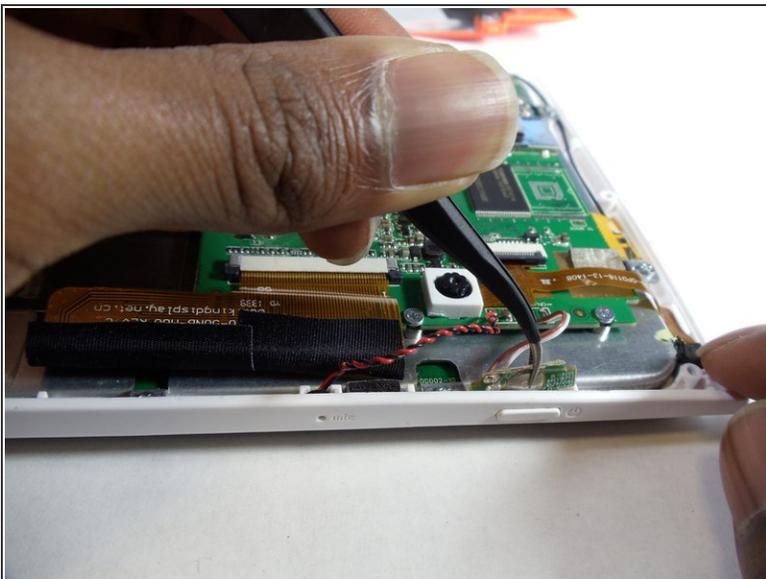
## Step 11



- Unsolder the microphone unit from the motherboard using the soldering station.

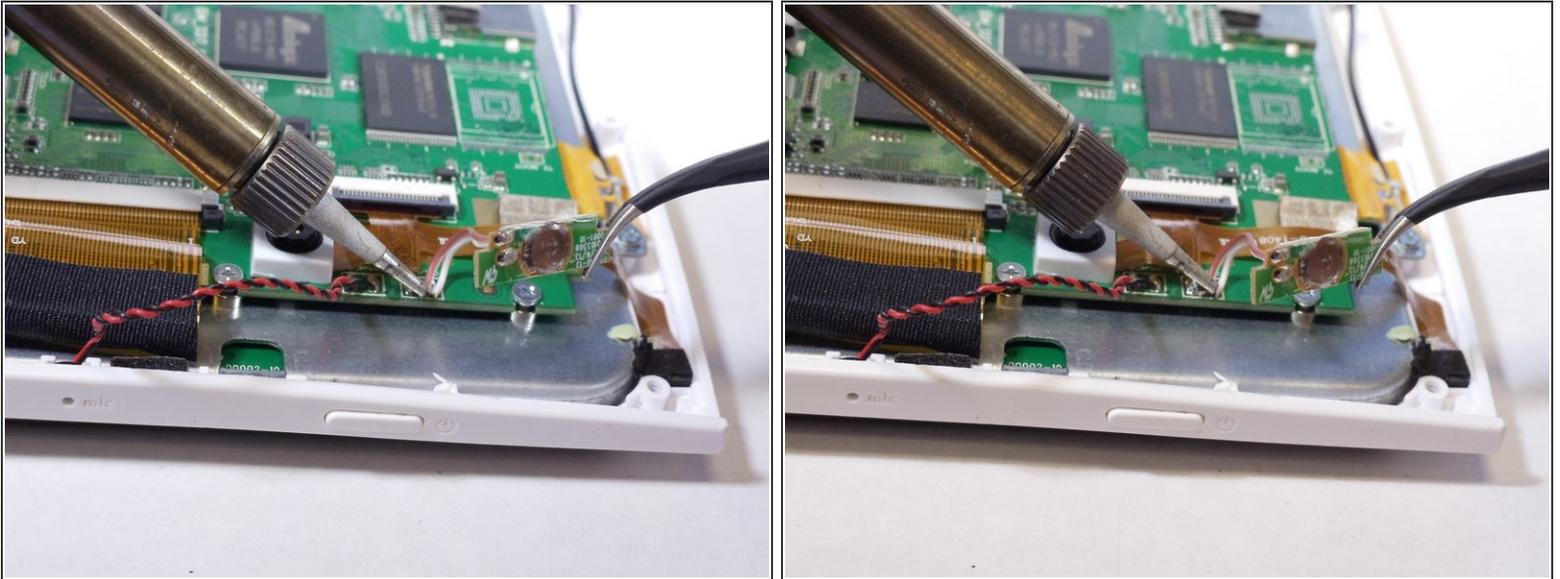
☞ In the case of screen or screen sensor replacement, disregard desoldering steps.

## Step 12 — Power Button



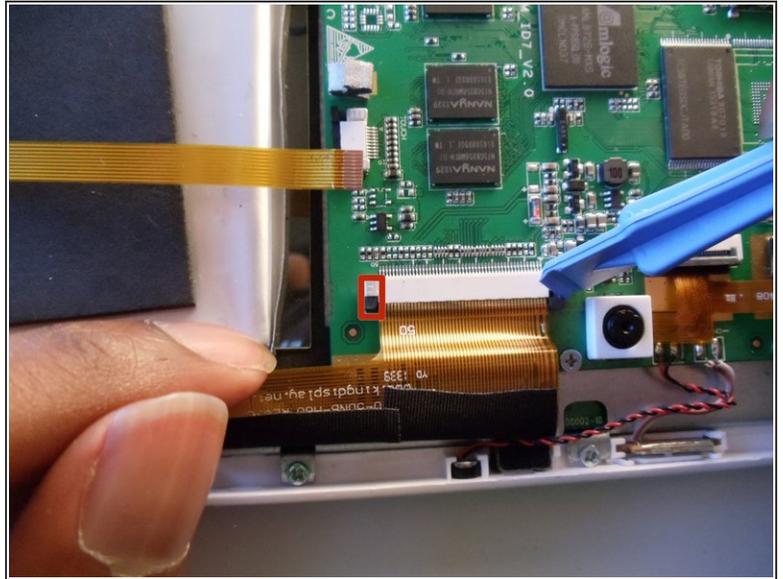
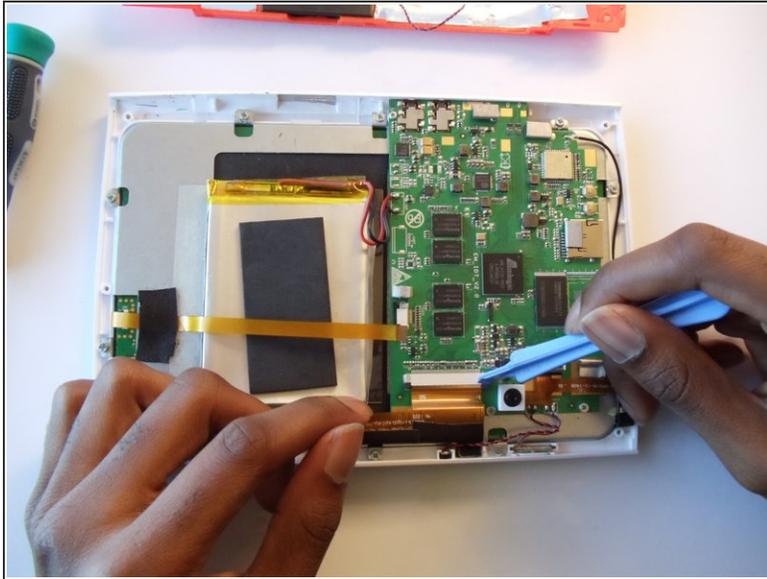
- Use a tweezer to gently pull the power button sensor out of the case's slot.

## Step 13



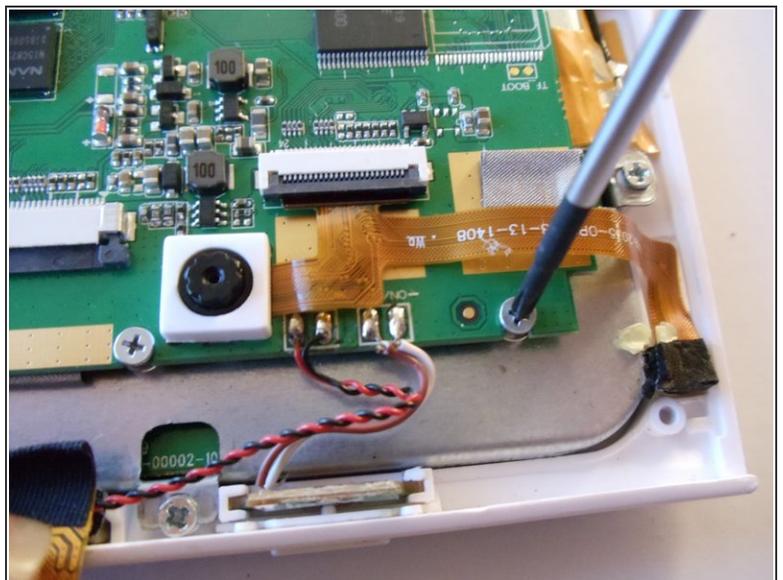
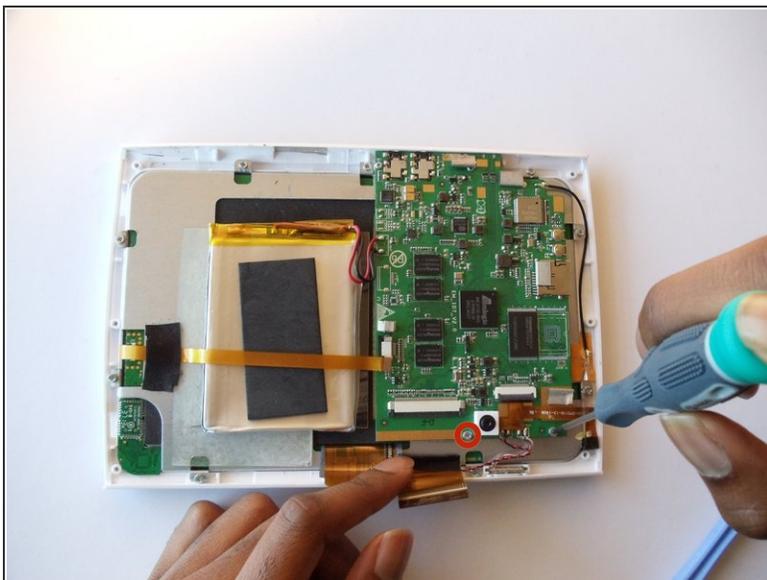
- Use the soldering station to unsolder and remove the power button from the motherboard.
- ☞ In the case of screen or screen sensor replacement, disregard desoldering steps.

## Step 14 — Motherboard



- Undo the security clips on the ribbon cable connection by placing the plastic opening tool between the black and white parts of the clip. Pull downward toward the gold ribbon cable.
- Once the left and right clips are undone, remove the gold ribbon cable from that connection by gently pulling it out.

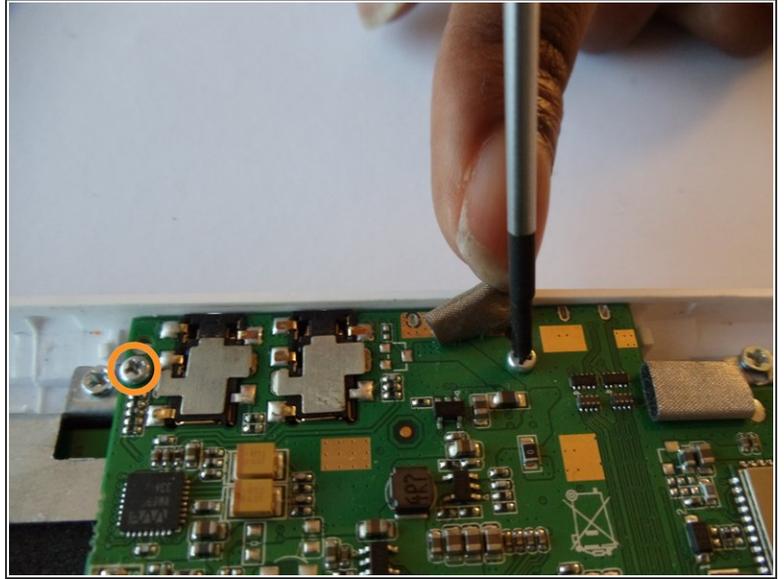
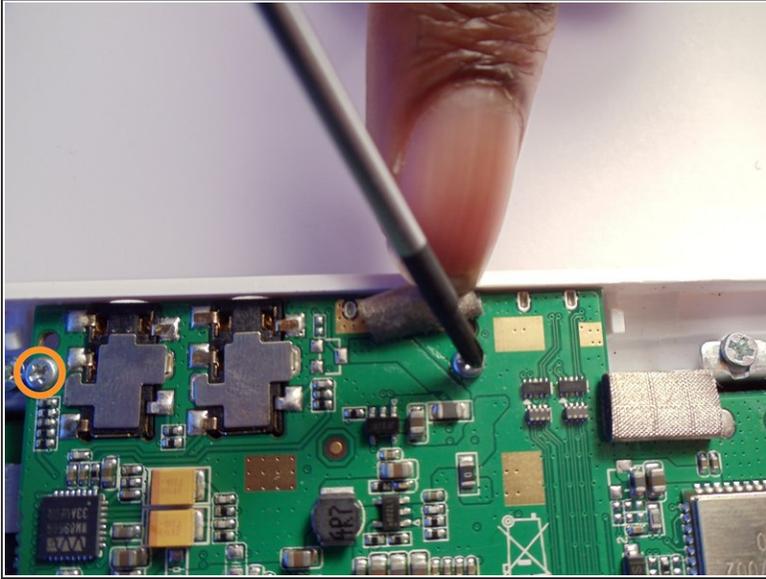
## Step 15



- Remove the two phillips #00 (4.5mm x 3mm) screws located on the motherboard.

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## Step 16



- Lift the silver, rectangular blocker in order to expose the right phillips screw #00 (4mm x 3.5mm).
- Unscrew the left and right phillips #00 (4mm x 3.5mm)screws.
- Once unscrewed, gently lift the motherboard from the rest of the device.

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