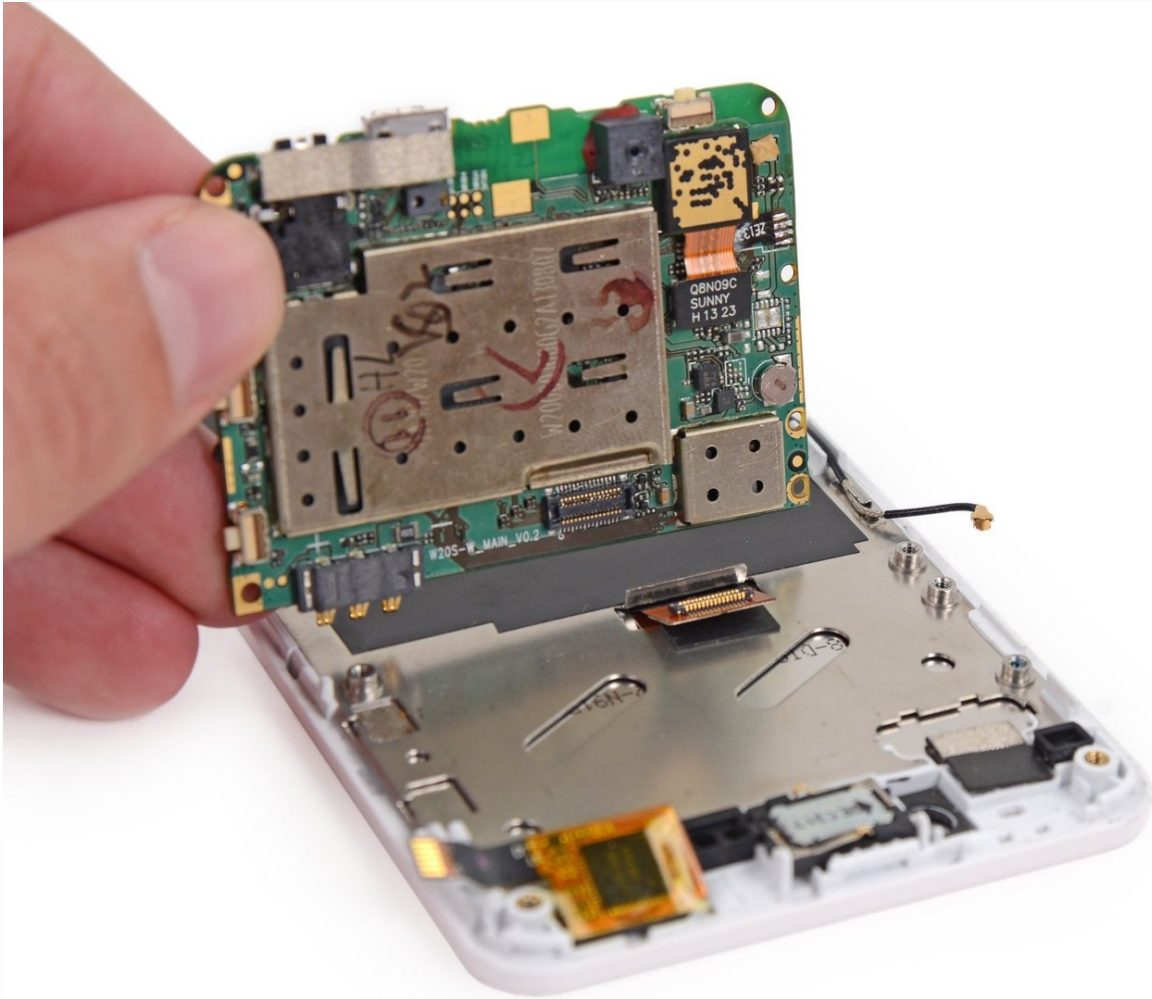




# Fairphone 1 Motherboard Replacement

Restore functionality to your Fairphone after...

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# INTRODUCTION

Restore functionality to your Fairphone after water damage, a nasty fall, or a lightning strike, by replacing your motherboard.

If it's still possible to do so, save your data to an SD card before disassembling your phone.

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## TOOLS:

[iFixit Opening Picks \(Set of 6\)](#) (1)

[Phillips #000 Screwdriver](#) (1)

[Spudger](#) (1)

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## Step 1 — Back Cover



- ① There is a small indentation in the side of the phone near the bottom of the back cover.
- With the indentation as leverage, use your fingernail to pry the bottom portion of the back cover from the phone.

## Step 2



- Slide the back cover down and remove it from the phone.

## Step 3 — Battery



- ① There is a small indentation in the back of the phone just below the battery.
- Use a fingernail in this indentation to push the battery toward the top of the phone
- Pull the battery out away from the phone.

## Step 4



- Remove the battery from your Fairphone.

## Step 5 — SIM and MicroSD Card



- Use your finger to slide the SIM card straight down out of its tray.
  - Remove the SIM card from your Fairphone.
- ① Repeat this procedure if you have a second SIM card.

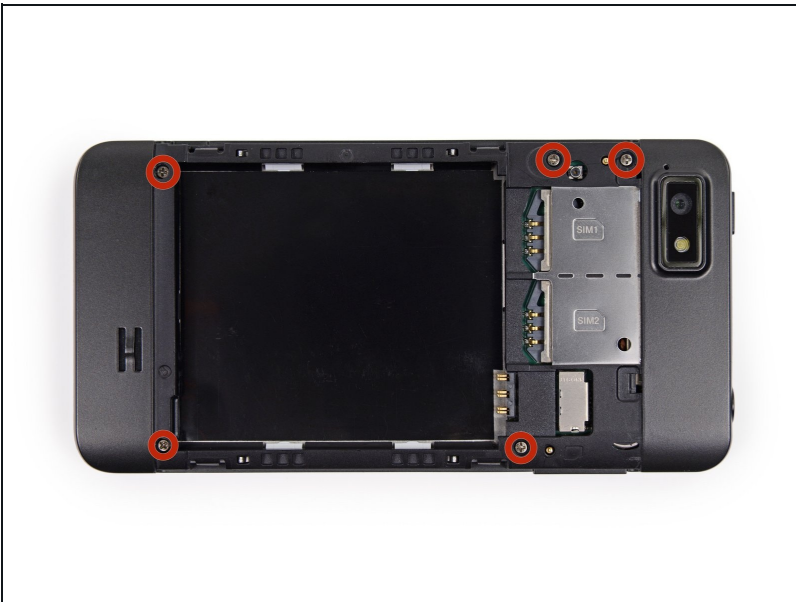
⚠ Be sure to remove all SIM cards before servicing your phone.

## Step 6



- If you have a microSD card, use your finger to slide it straight out of its slot.
- Remove the microSD card from your phone.

## Step 7 — Midframe Assembly



- Remove the five 3.9 mm Phillips #000 screws securing the midframe to the display assembly.



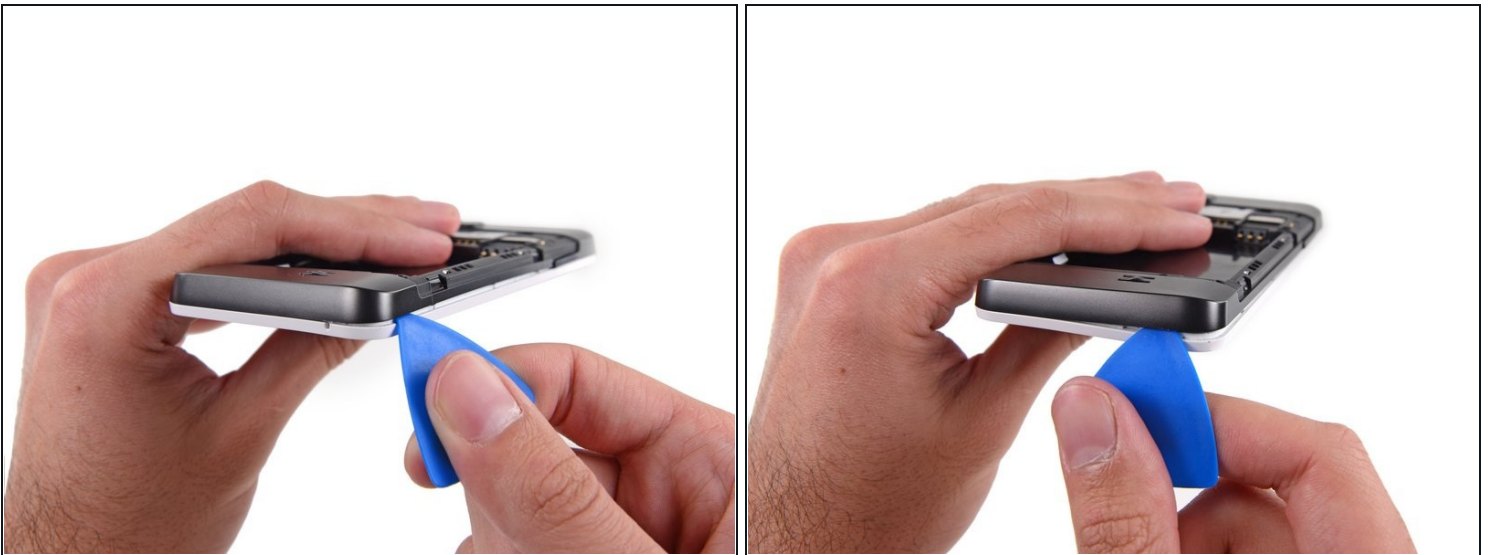
## Step 8



ⓘ The midframe is secured to the display assembly by several small plastic clips.

- Use an opening pick to carefully pry the midframe away from the display assembly.
- Start just below the volume rocker and work your way down toward the bottom of the phone, freeing the plastic clips along the side.

## Step 9



- Carefully round the corner, separating the midframe from the display assembly.

## Step 10



- ① After rounding the next corner, the midframe should be free along the bottom and the sides.

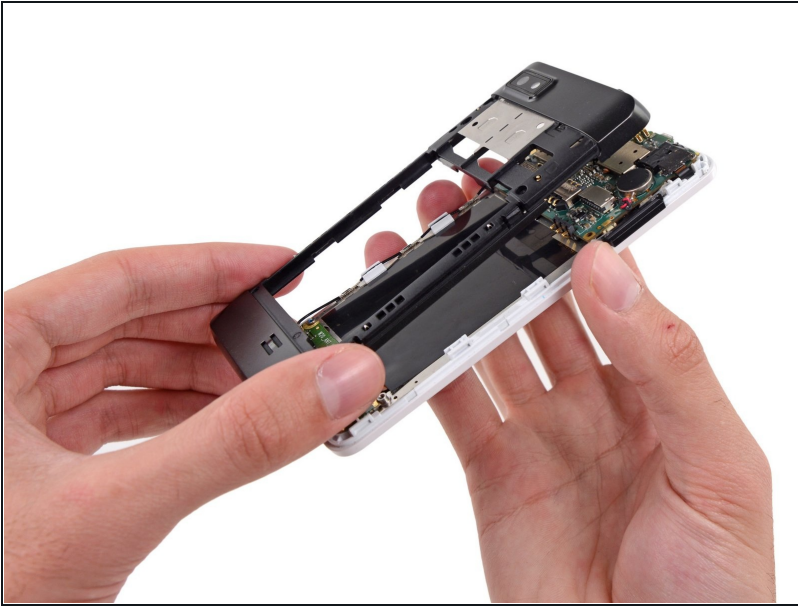
## Step 11



- Run the opening pick and pry along the top seam.

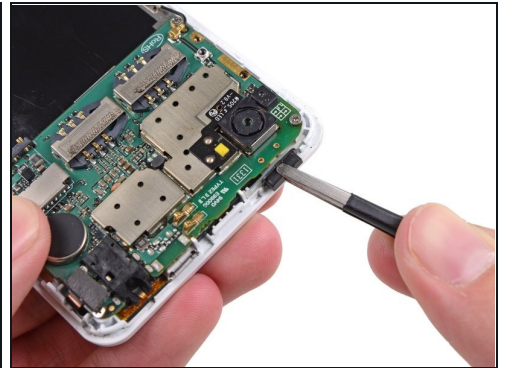
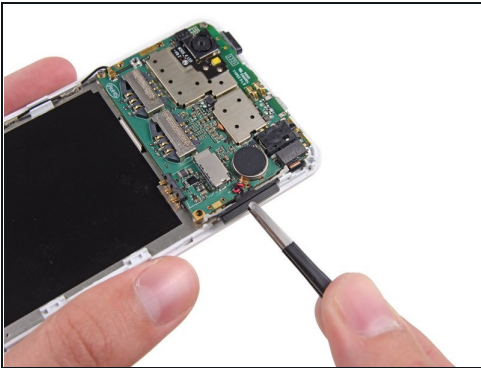
⚠ To avoid bending or damaging the opening picks, do not pry near to the power switch, USB port, or headphone jack.

## Step 12



- Separate any remaining clips and remove the midframe from the phone.

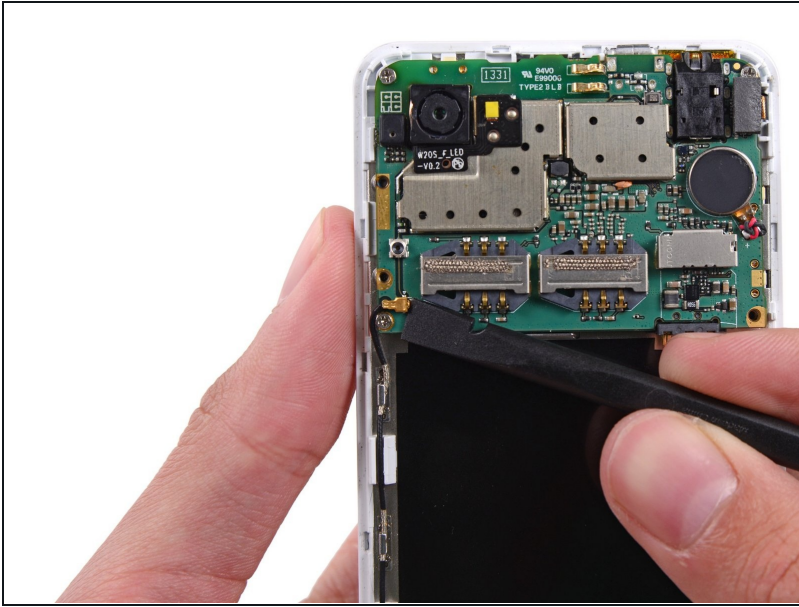
## Step 13 — Motherboard Assembly



- Use [tweezers](#) to remove the volume rocker and power buttons from the display assembly.
- ① During reassembly make sure the orientation of the buttons is correct. The rubber backings must fit into the channels in the assembly.



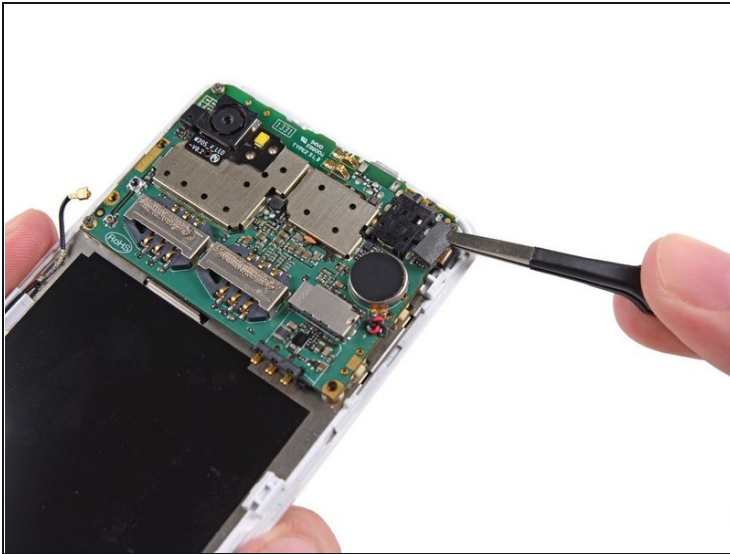
## Step 14



- Use the flat end of a spudger to disconnect the antenna cable connector.

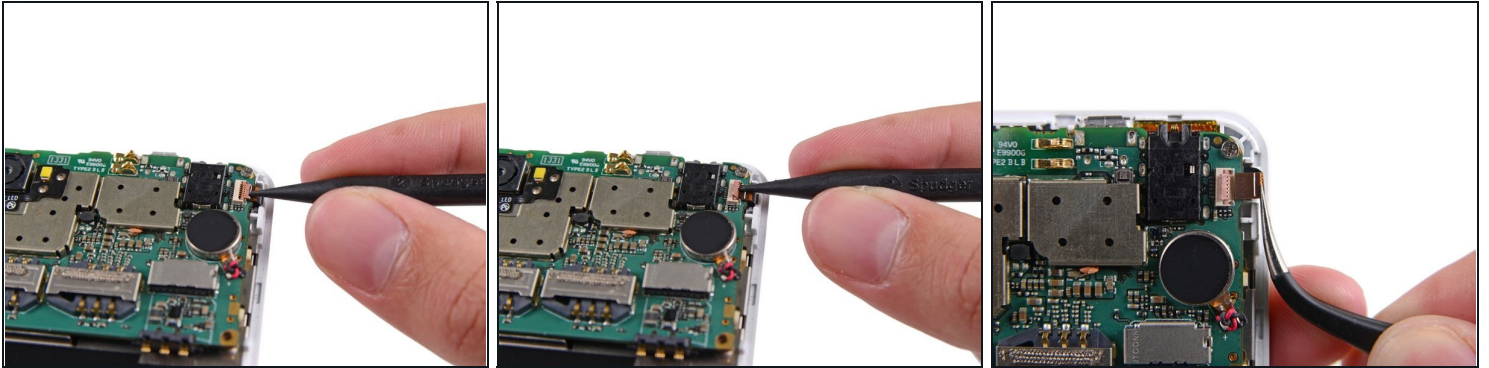
⚠ Make sure to only disconnect the connector from its socket, and **not** the entire socket from the board.

## Step 15



- Use tweezers to remove the adhesive foam tape from the top of the digitizer cable ZIF socket.

## Step 16



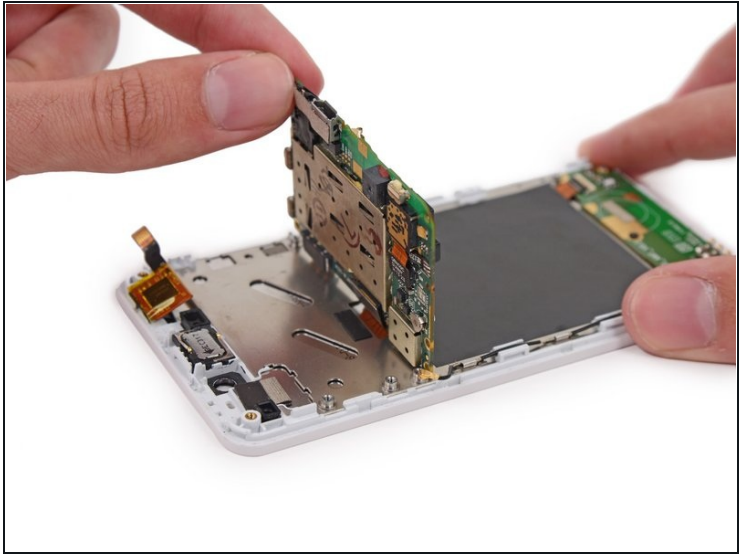
- Use the tip of a spudger to flip open the tab on the digitizer ZIF connector.
- Use tweezers to pull the digitizer cable away from its socket on the motherboard.

## Step 17



- Remove the three 2.5 mm Phillips #000 screws securing the motherboard to the display assembly.

## Step 18



⚠ Do **not** try to remove the motherboard just yet, as it is still connected to the display assembly by the display data cable.

- Gently lift the top end of the motherboard up to expose the display data cable.
  - ⓘ The rear-facing camera may be adhered to the display assembly. Try to pry it and the motherboard up together.

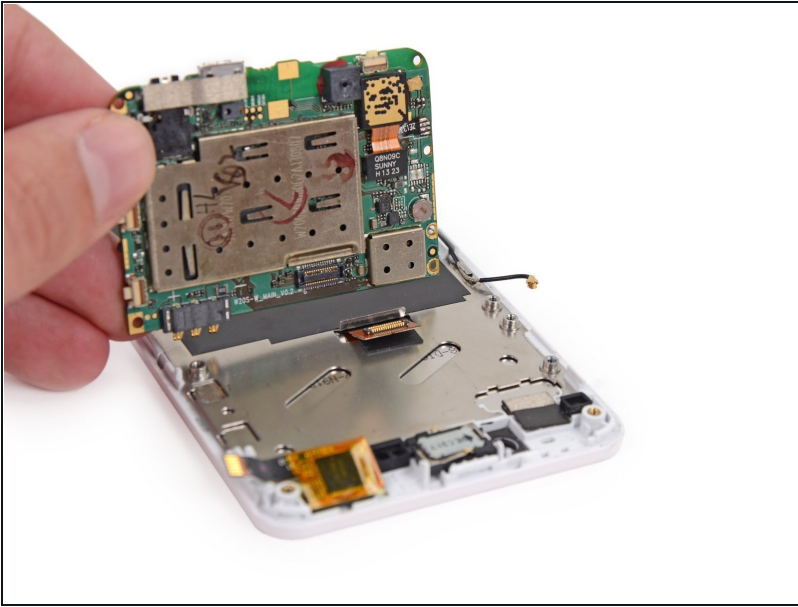
## Step 19



- Use the tip of a spudger to disconnect the display data cable from the back of the motherboard.

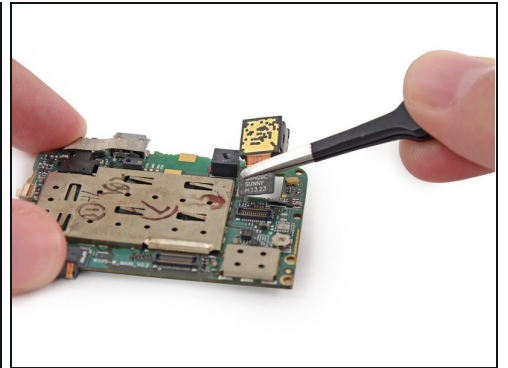
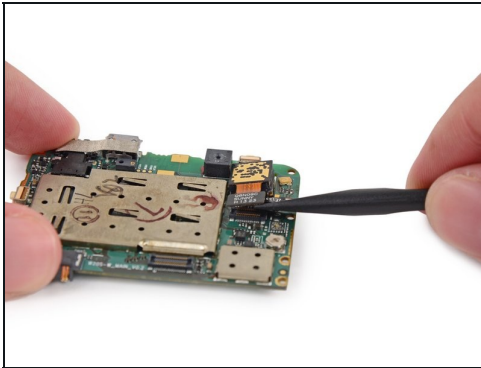
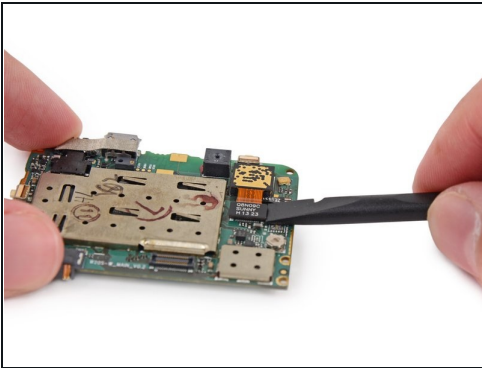


## Step 20



- Remove the motherboard from the display assembly.

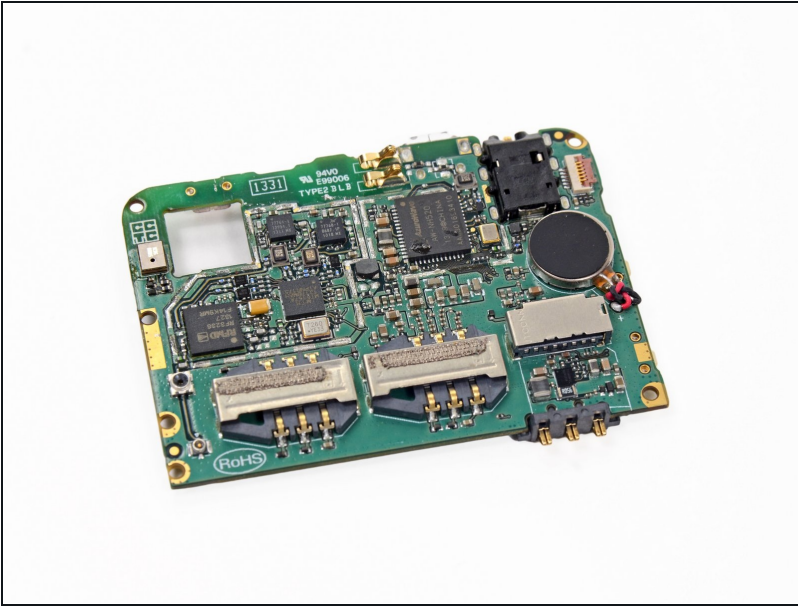
## Step 21 — Rear Camera



- Use the flat end of a spudger to disconnect the rear-facing camera cable connector from its socket on the motherboard.
- Remove the rear facing camera from the motherboard.



## Step 22 — Motherboard



- Motherboard remains.
- ☑ Remember to remove all the plastic seals of the new motherboard. You will find at least one covering the microphone for dust protection.

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