



# Sony Xperia XA1 Ultra Motherboard Replacement

A replacement guide for the Sony Xperia XA1 Ultra motherboard.

Written By: Jacob Jung



## INTRODUCTION

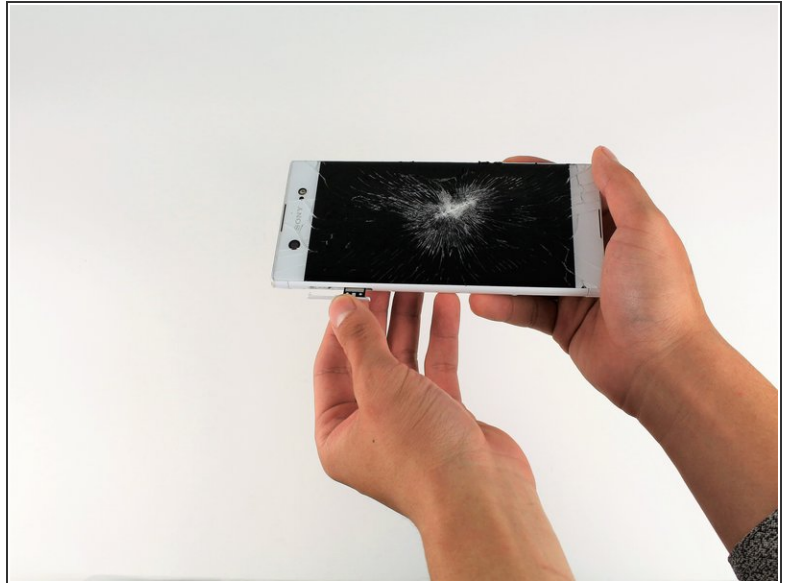
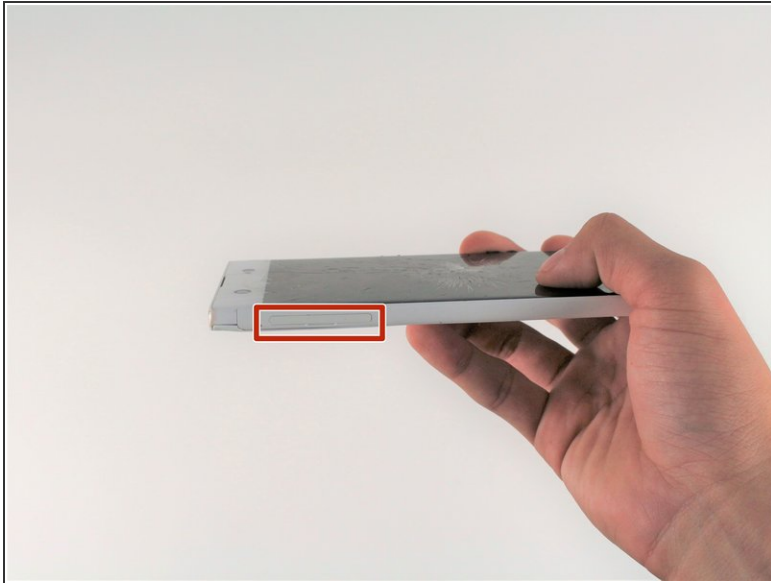
This guide will show you how to remove the motherboard from your Sony Xperia XA1 Ultra. The motherboard may need to be replaced if basic functions of the phone no longer run. A heat gun or hairdryer is needed to open the back panel, which can become hot and potentially damage the phone. Additionally, a T5 screwdriver is needed to remove screws while a spudger is needed to disconnect parts of the phone.



### TOOLS:

- [Heat Gun](#) (1)
  - [iFixit Opening Tools](#) (1)
  - [Plastic Cards](#) (1)
  - [Suction Handle](#) (1)
  - [T5 Torx Screwdriver](#) (1)
  - [flat head tweezer](#) (1)
-

## Step 1 — Back Assembly



- Wedge your finger under the bottom ridge of the SD card insert.
- Pull outwards with your fingers to remove the SD card from the left side of device.

## Step 2



- Use a hair dryer to heat each corner of the phone.
  - Alternate heating each corner for a minute to loosen the adhesive binding the back cover to the phone.
- ⚠ Don't heat one area for too long; the phone may get damaged from overheating.

## Step 3



- Press a suction cup on a heated corner of the device.
- Hold the phone down and gently lift the suction cup to create a small gap.
- ❗ You may hear crunching or popping sounds when you lift up the back cover.

## Step 4



- Insert your iFixit Opening Tool in the small gap between your phone and the back cover.
- Lift up on the iFixit Opening Tool and insert your plastic card in the small gap between your phone and the back cover.

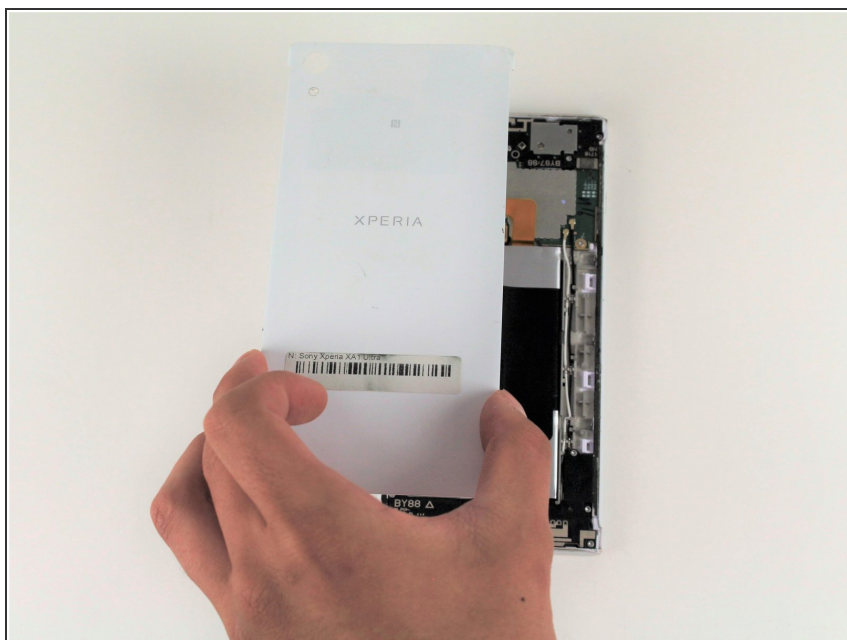


## Step 5



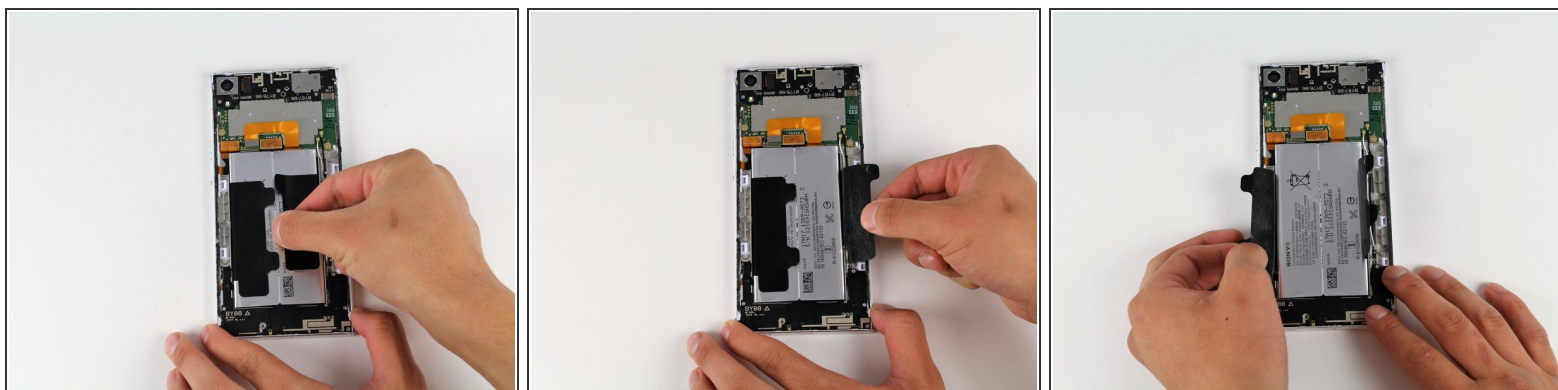
- Slide your plastic card along the side of your phone to loosen the adhesive.
- Move the card along the sides of the phone to lift all of the corners.

## Step 6



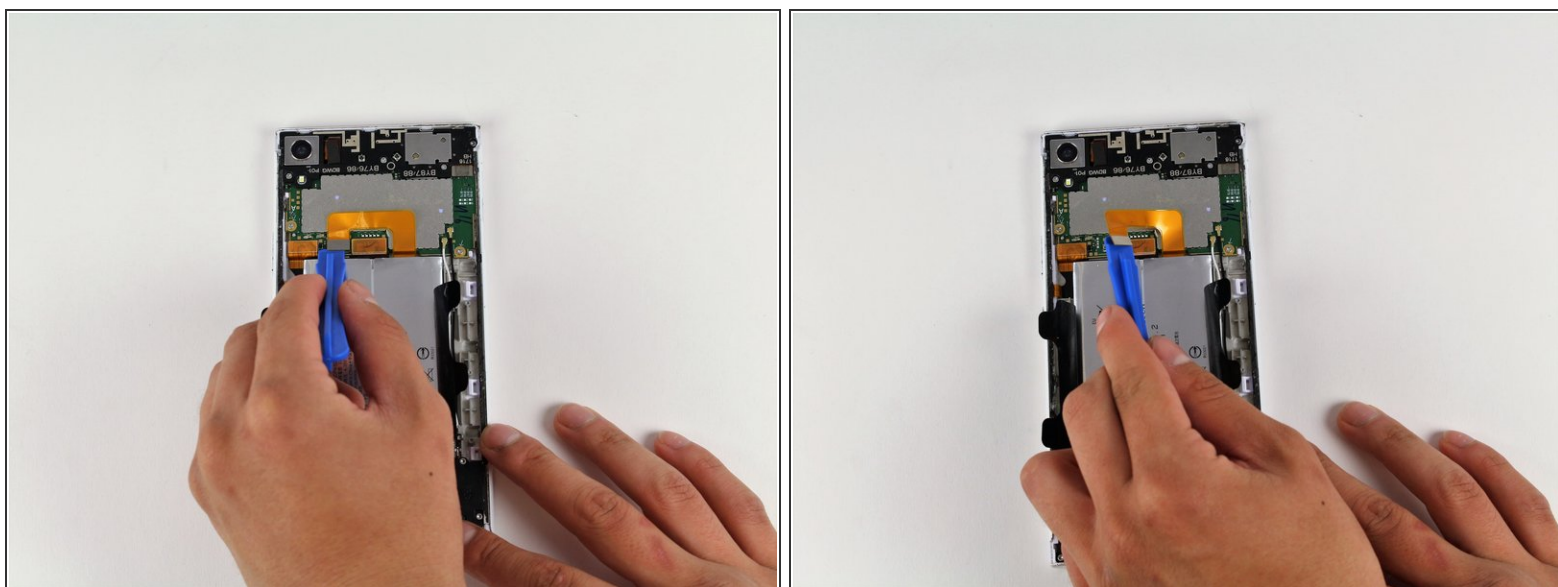
- Lift up the back cover by lifting up the sides of the phone with your hand.
- ✦ Apply a new strip of adhesive for reassembly.

## Step 7 — Battery



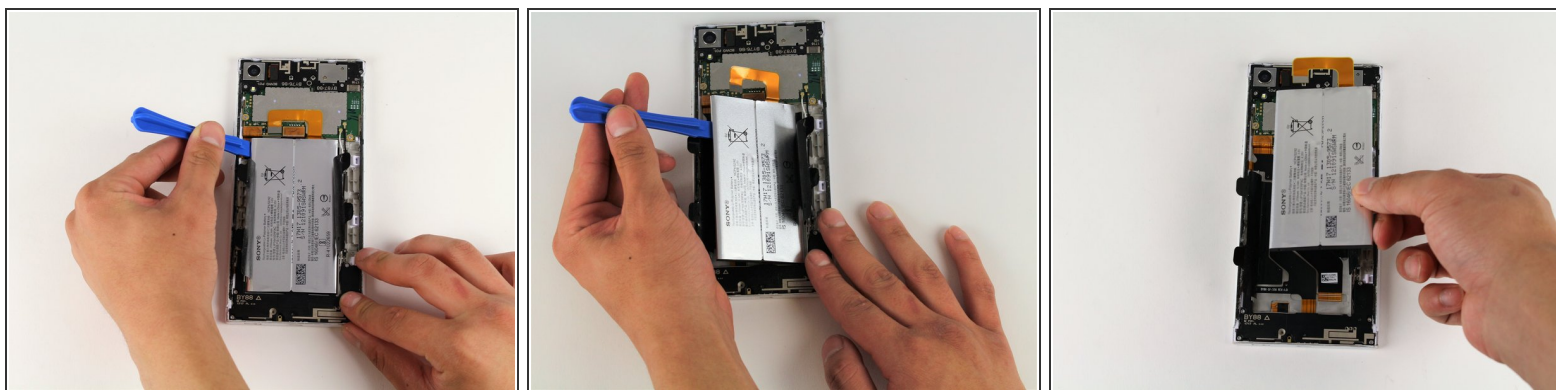
- Peel off the two pieces of black tape covering the battery with your hands.

## Step 8



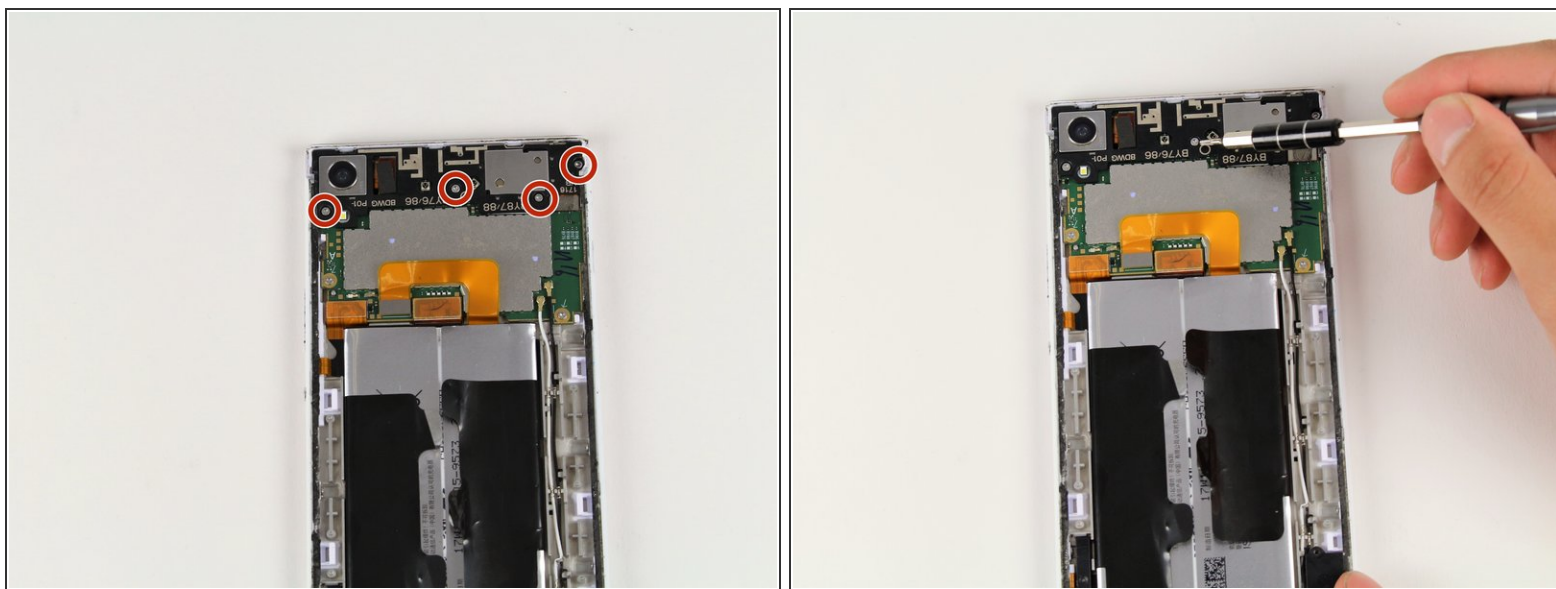
- Use the iFixit Opening Tool to remove the flexible orange strip which connects the battery to the motherboard.

## Step 9



- Wedge the iFixit Opening Tool underneath the battery.
- Remove the battery by pulling up on the iFixit Opening Tool.

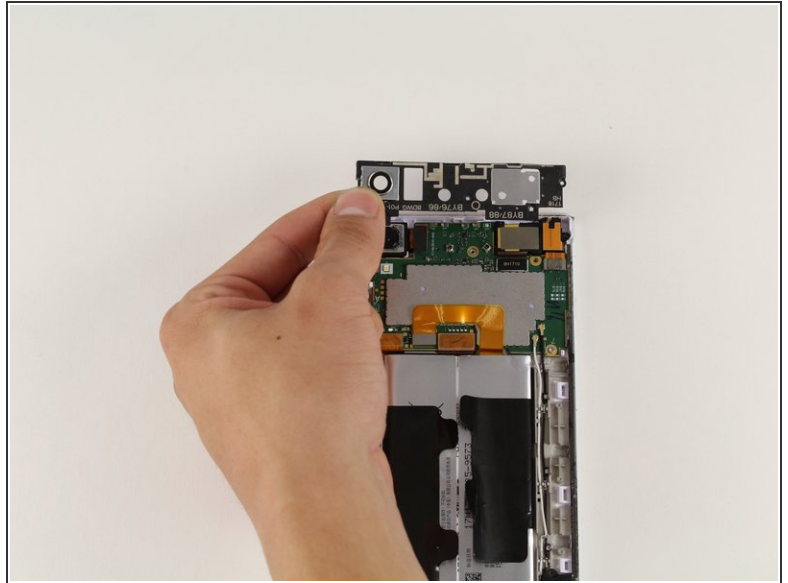
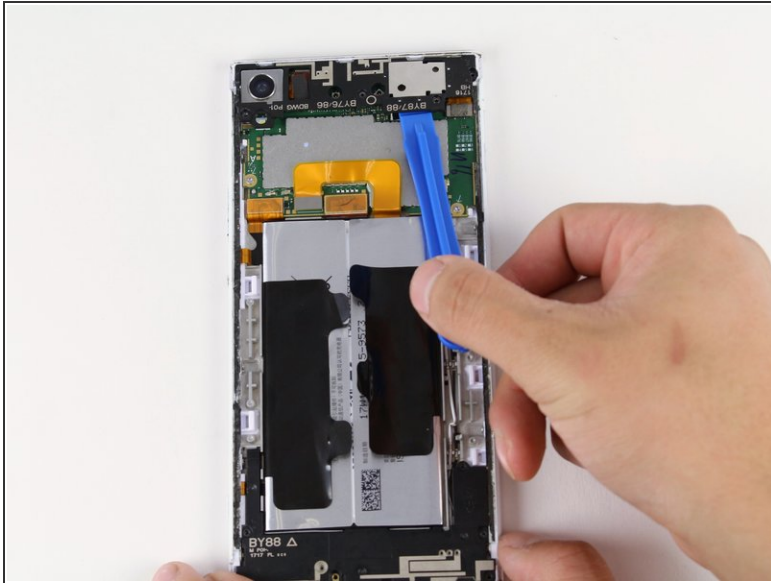
## Step 10 — Antenna Module



- Remove the four 4mm T5 screws on the top of the black panel securing the antenna module to the device.



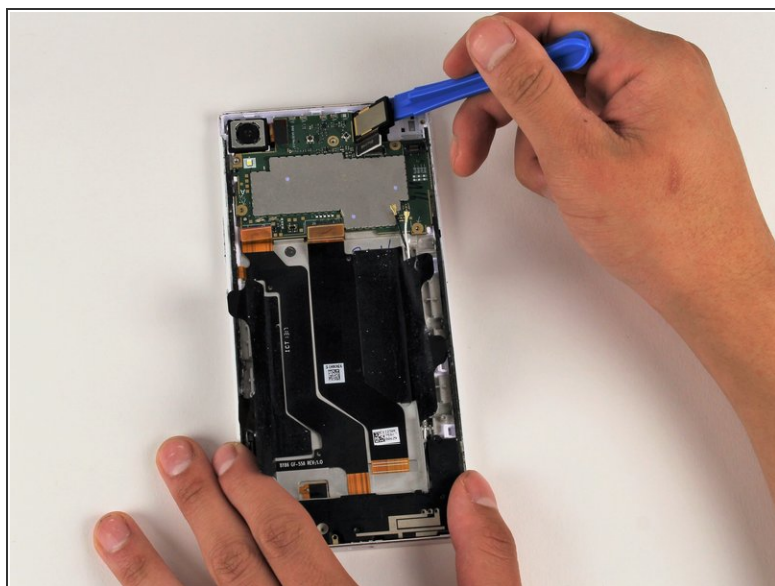
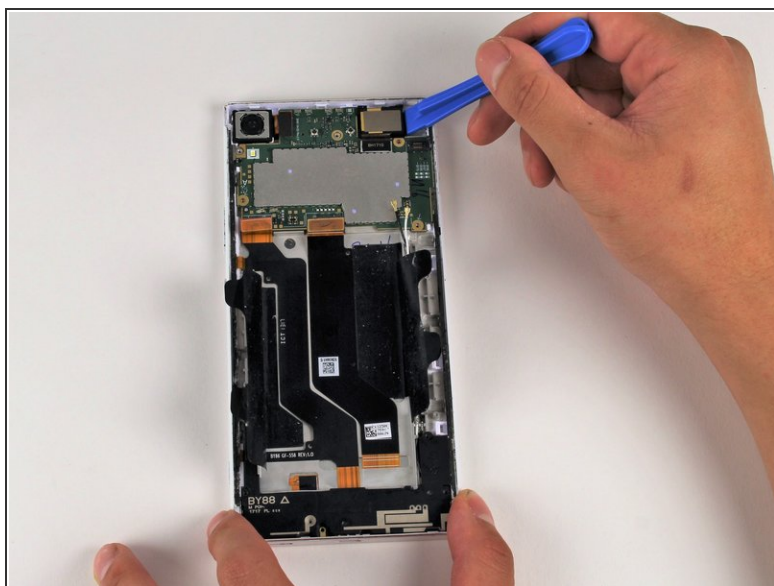
## Step 11



- Insert your iFixit Opening Tool underneath the antenna module.
  - Lift up gently with the iFixit Opening Tool to remove the antenna module.
- i** The antenna module may be difficult to remove.

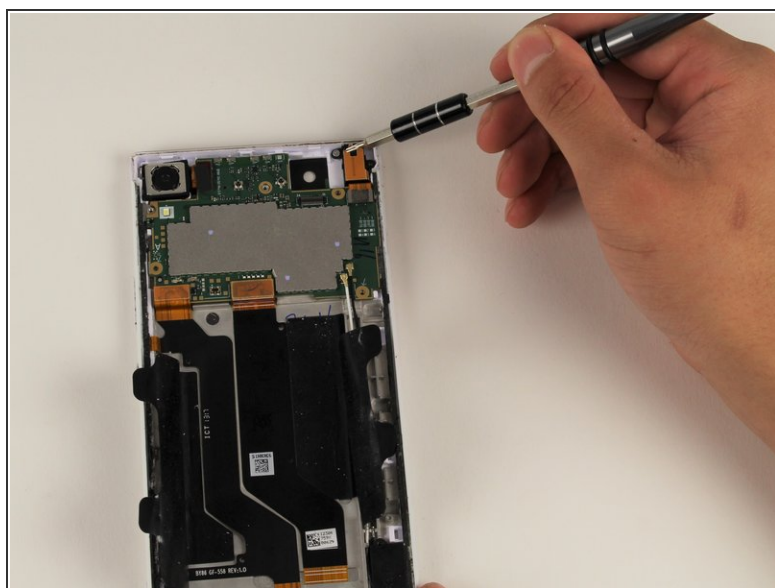
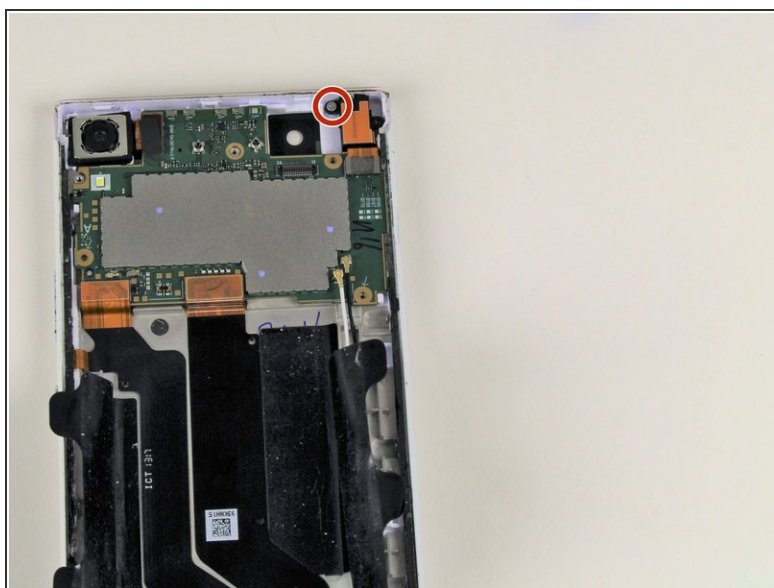


## Step 12 — Front Camera



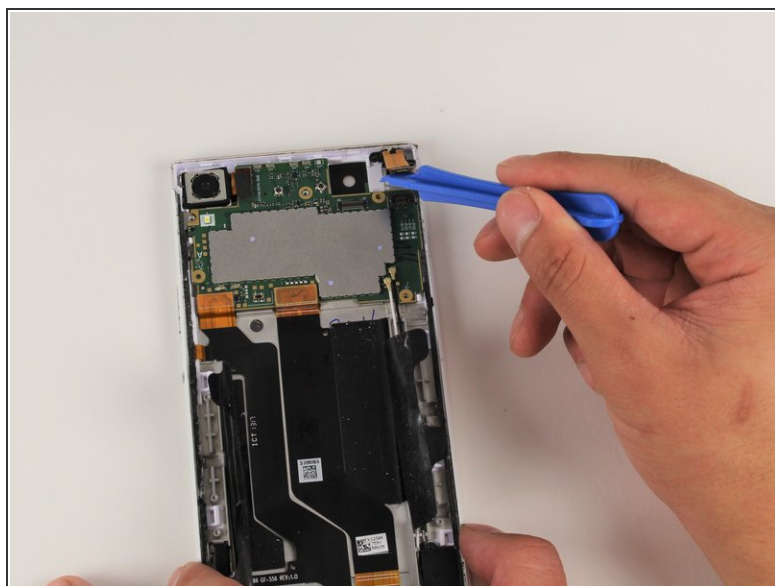
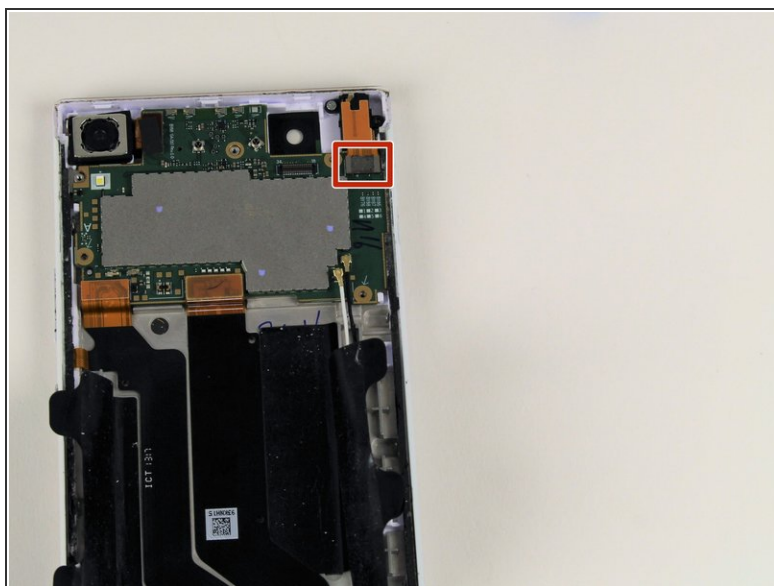
- Insert your iFixit Opening Tool underneath the front camera and gently lift up.
- Remove the front camera by lifting the front camera up with your hands.

## Step 13 — Headphone Jack



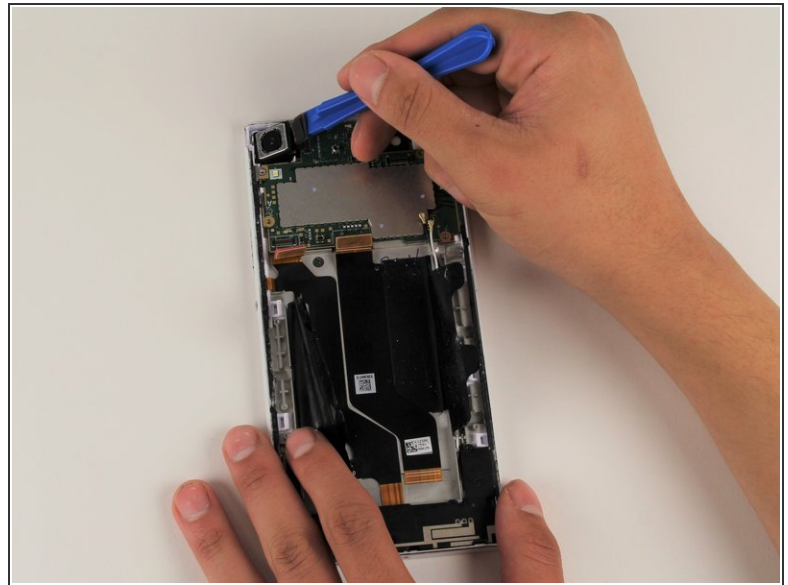
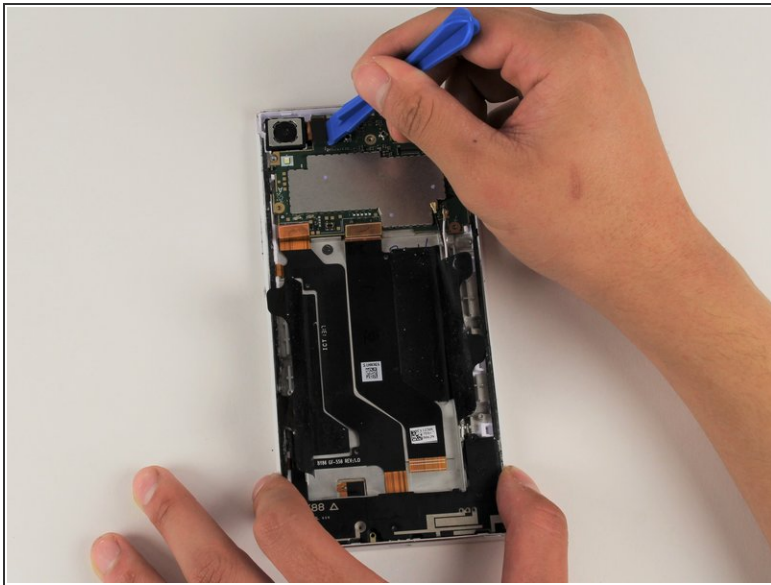
- Remove the 4mm T5 screw connecting the headphone jack to the panel.

## Step 14



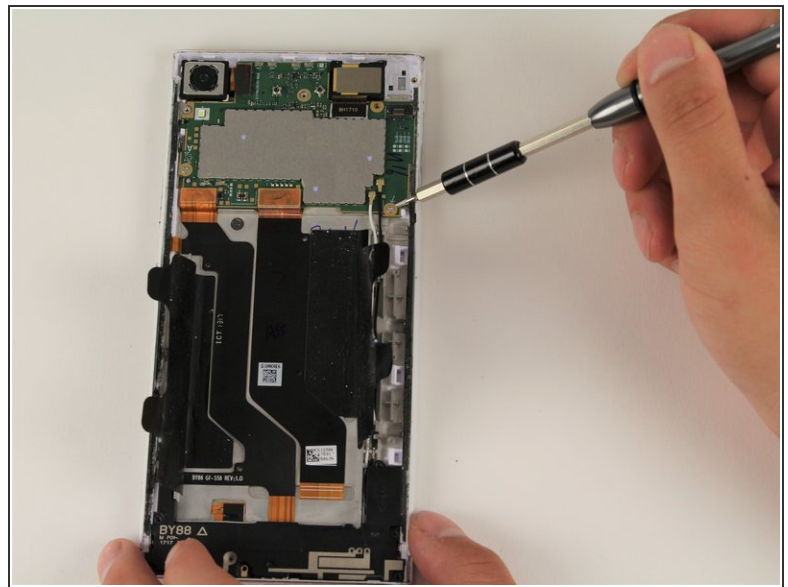
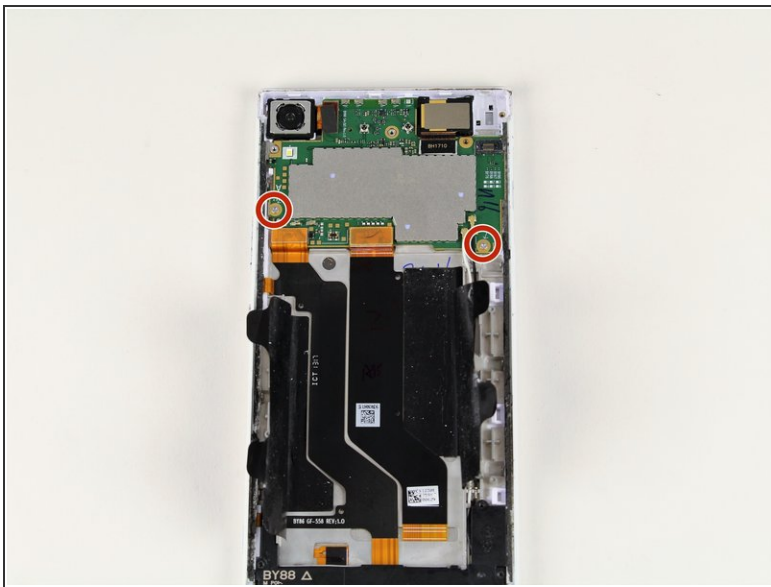
- Use your iFixit Opening Tool to lift and disconnect the headphone jack connector piece.
- ⓘ The small black piece connected to the headphone jack that is holding the single screw in place has broken off in the device shown.

## Step 15 — Back Camera



- Insert your iFixit Opening Tool between the back camera and the motherboard and gently lift up.
- Lift up with the iFixit Opening Tool until the back camera is removed from the device.

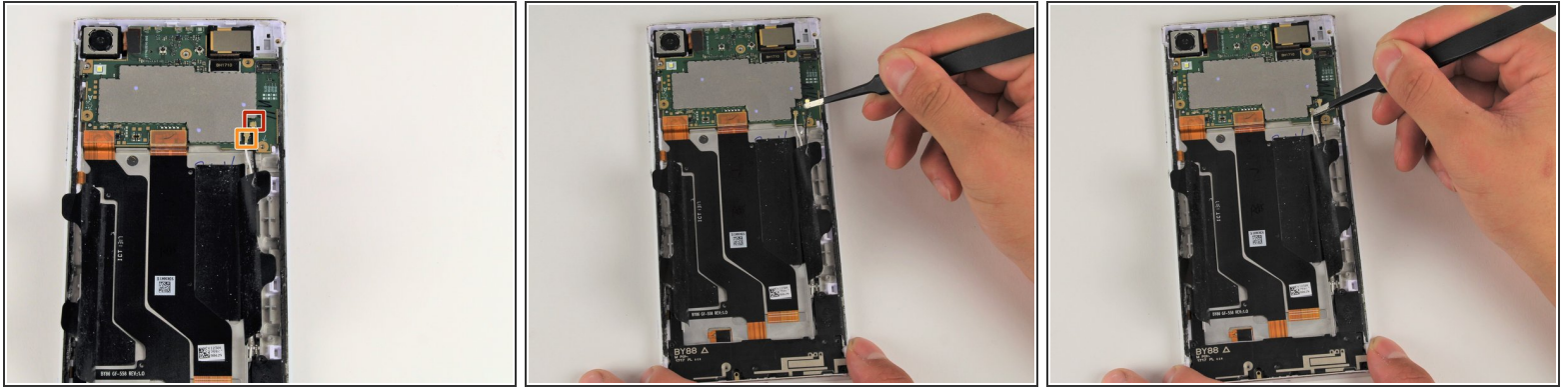
## Step 16 — Motherboard



- Remove the two 4mm T5 screws connecting the motherboard to the device.

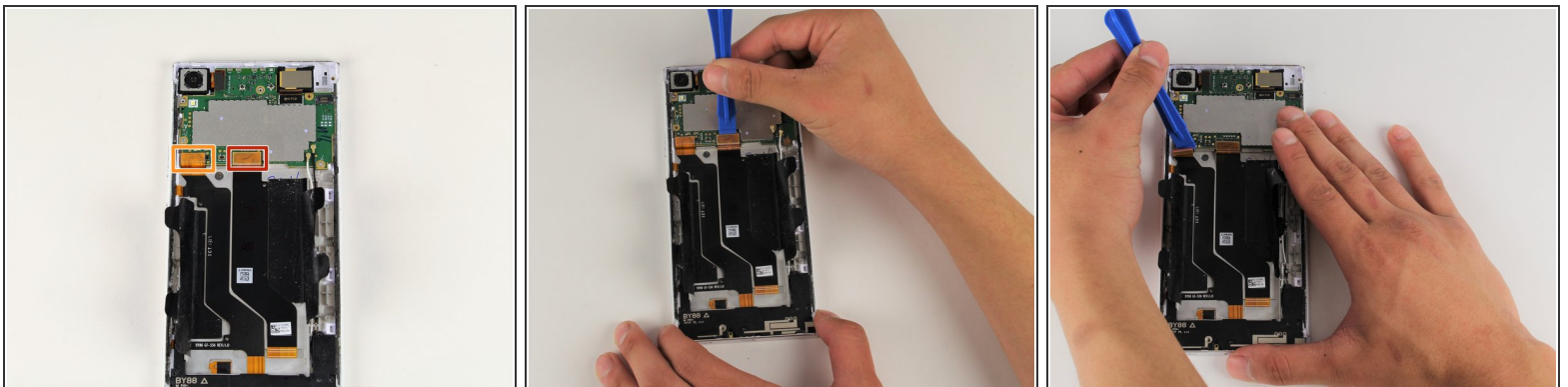


## Step 17



- Use your flat head tweezers to remove the black wire connected to the motherboard.
  - Use your flat head tweezers to remove the white wire connected to the motherboard.
- i** There are only two wires connected to the motherboard.

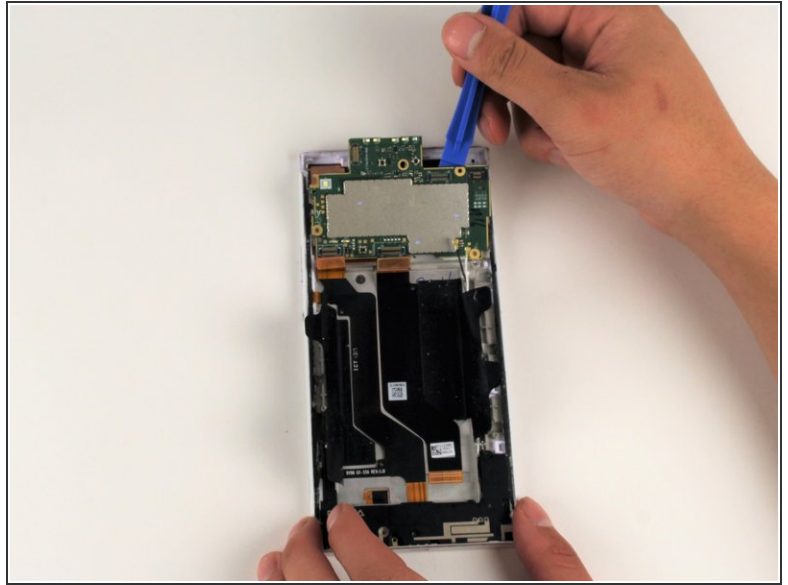
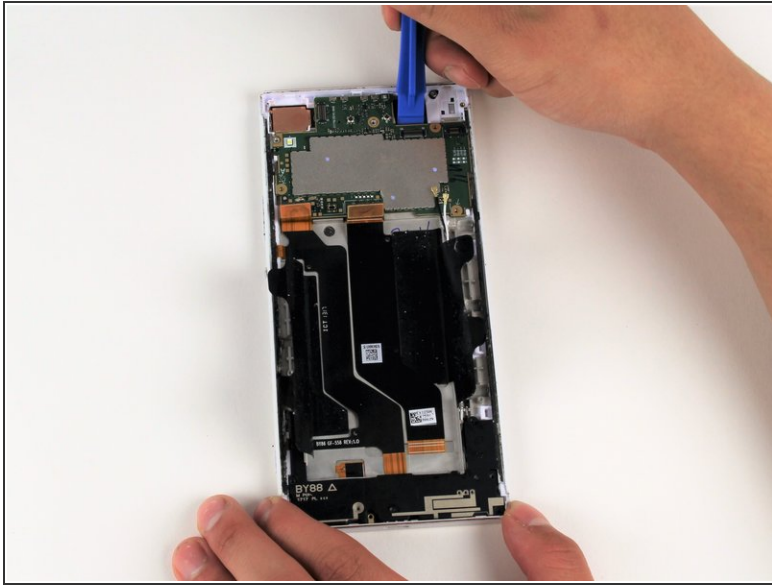
## Step 18



- Use your iFixit Opening Tool to remove the main flex (the middle orange tab) from the motherboard.
- Use your iFixit Opening Tool to remove the power button flex (the left orange tab) from the motherboard.



## Step 19



- Wedge your iFixit opening tool under the motherboard.
- Lift up with your iFixit Opening Tool to lift the motherboard from the device.

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