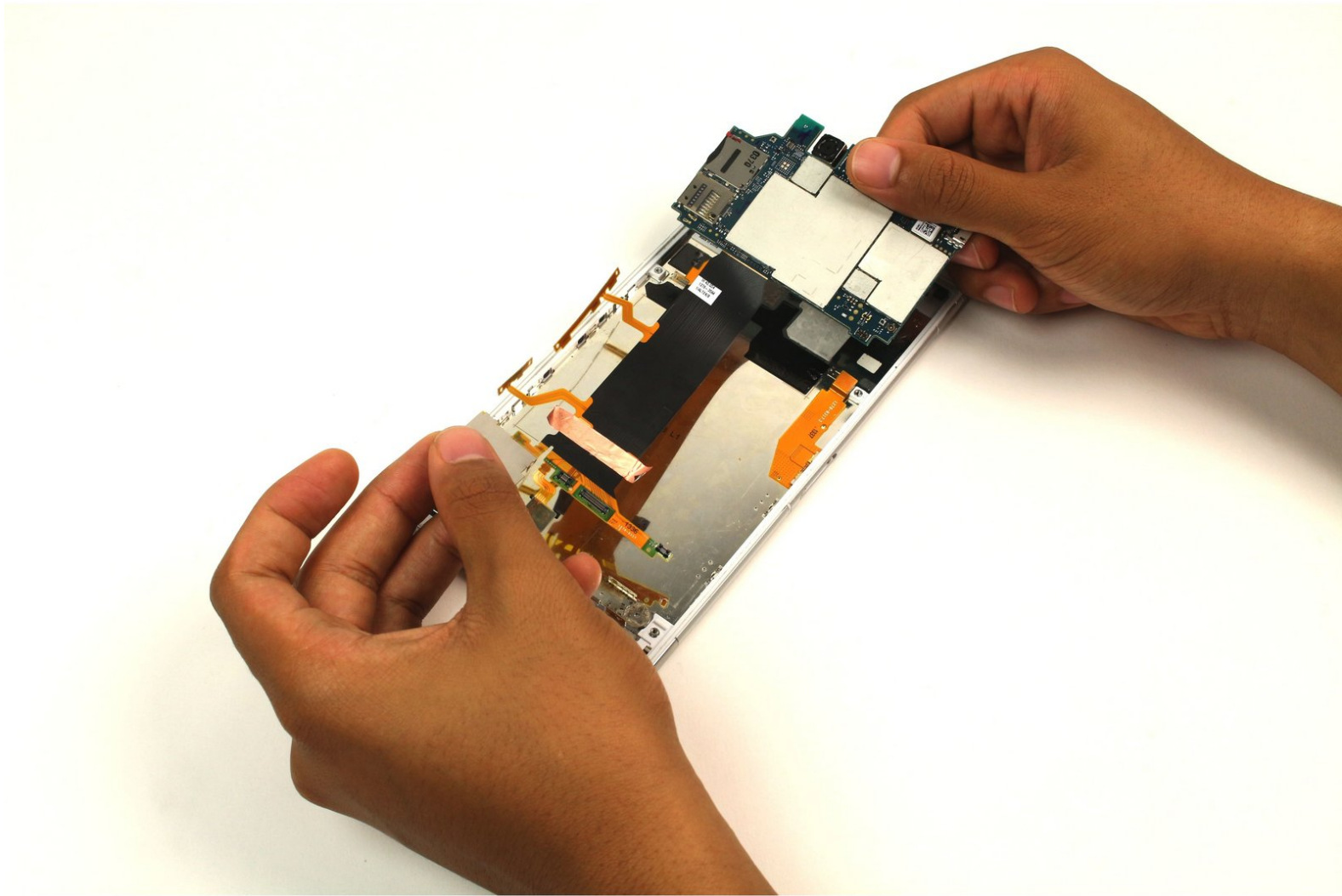




# Sony Xperia Z Ultra Motherboard Replacement

In this guide, you will learn the necessary steps to replace the motherboard of the Sony Xperia Z Ultra.

Written By: Omar Herrera



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## INTRODUCTION

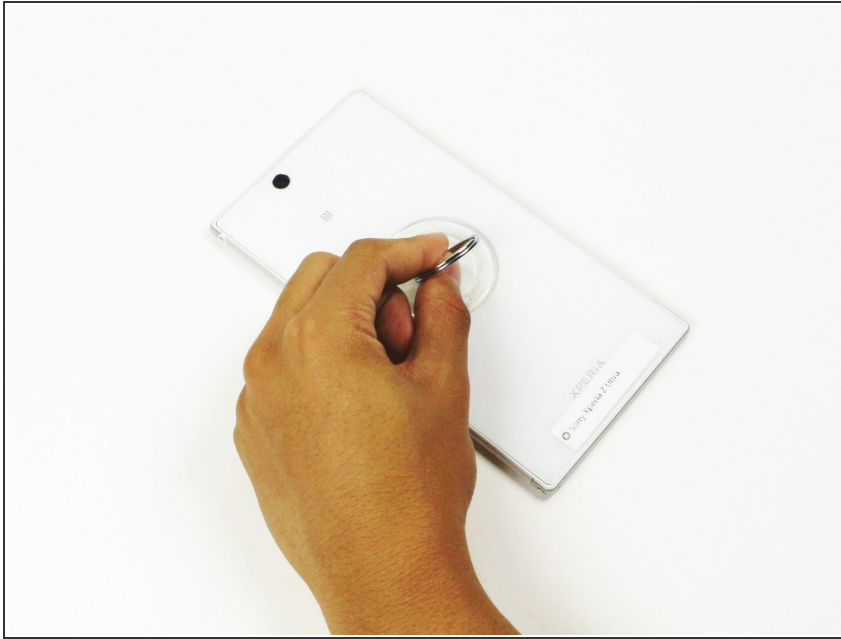
Does your power button not respond? Does your screen remain off even after you press the power button many times? Replacing the motherboard may solve these problems.

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### TOOLS:

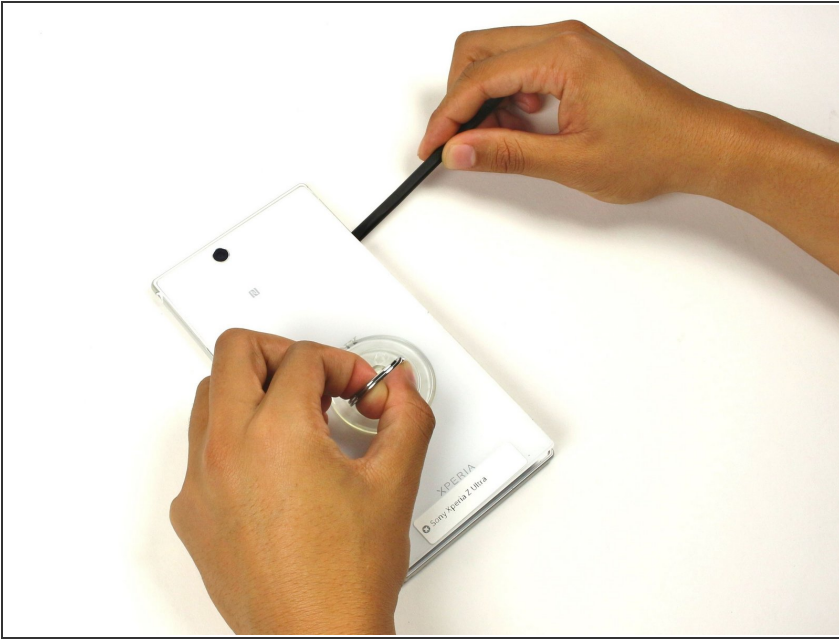
- [Tweezers](#) (1)
  - [Phillips #000 Screwdriver](#) (1)
  - [Suction Handle](#) (1)
  - [Spudger](#) (1)
  - [Magnetic Project Mat](#) (1)
-

## Step 1 — Battery



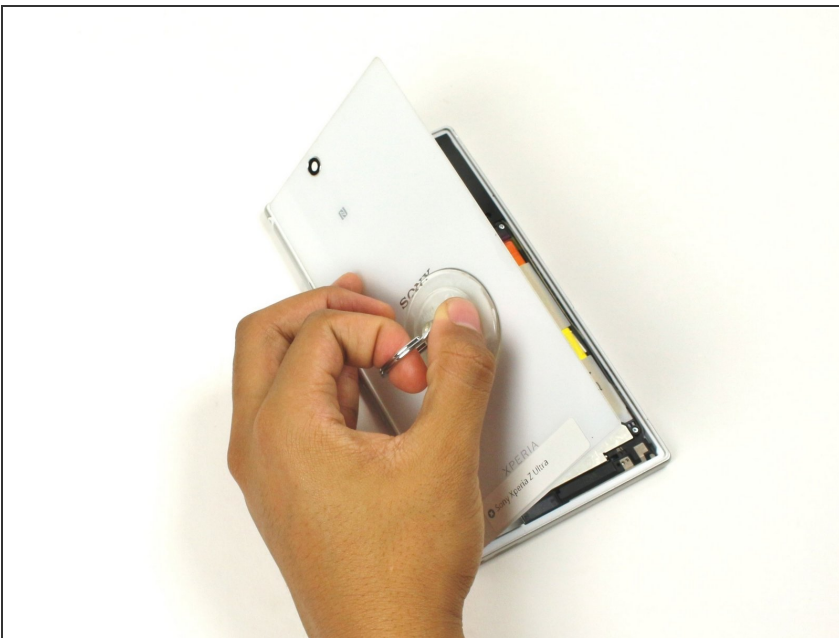
- Use the small suction cup to lift the back panel:
- Press the small suction cup on to the middle of the back panel.

## Step 2



- While holding the Sony Xperia Z ultra down with your left hand, slightly pull the small suction cup upwards to create a small opening between the back panel and the front panel.
- While continuing to pull the small suction cup upwards, insert the spudger in the small opening.
- Pry the front panel downwards with the spudger while continuing to pull the small suction cup upwards.

## Step 3



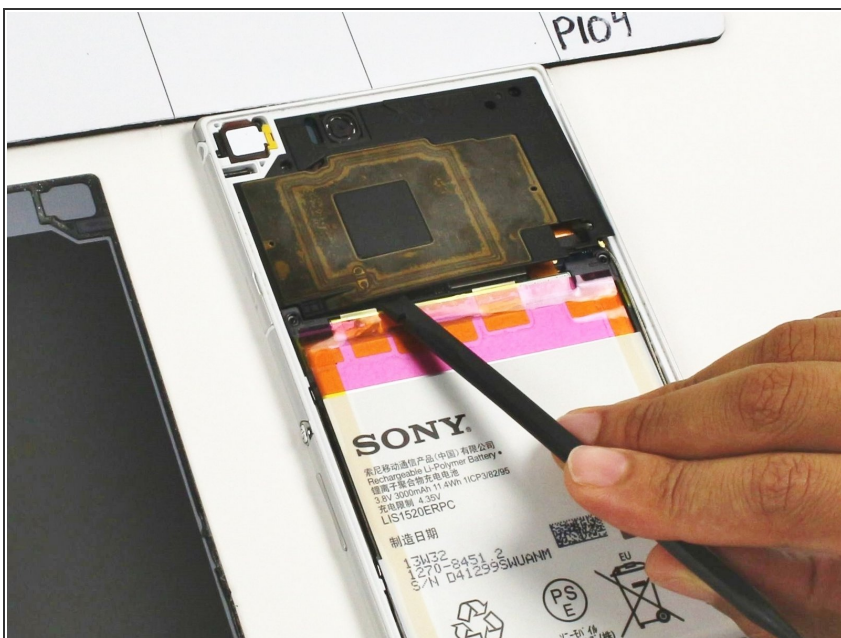
- Remove the back panel by pulling the small suction cup upwards.

## Step 4



- Remove the following six screws with a Phillips #000 screwdriver:
  - five silver 2.1 mm screws
  - one gold 3.1 mm screw

## Step 5



- Pry the plastic motherboard shield open by placing the spudger under the shield and running it along the edges.



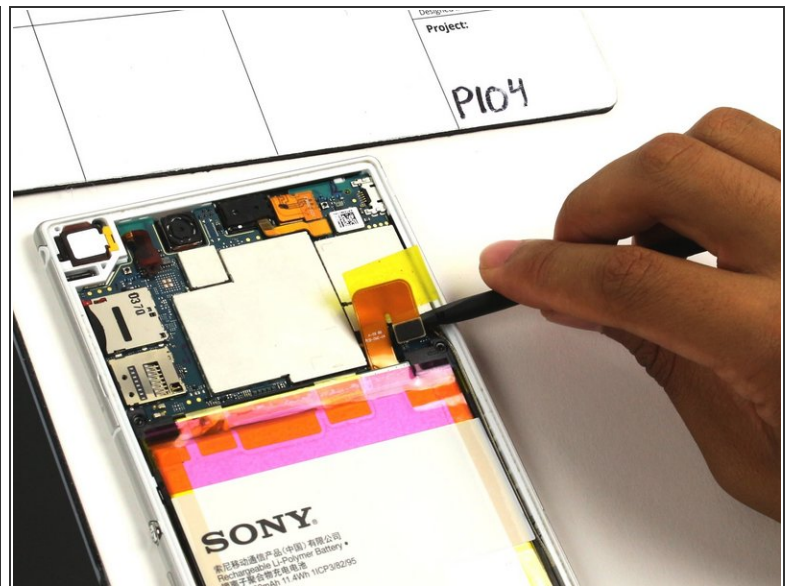
## Step 6



⚠ Use care to remove the motherboard shield, as it may break. The motherboard shield is made of a very thin plastic.

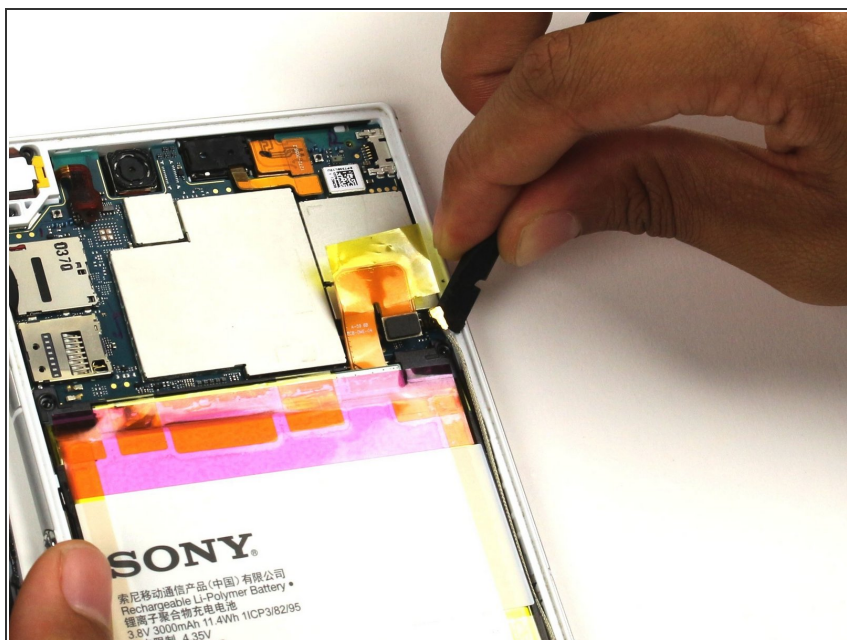
- Remove the motherboard shield by lifting the lower end upwards first.

## Step 7



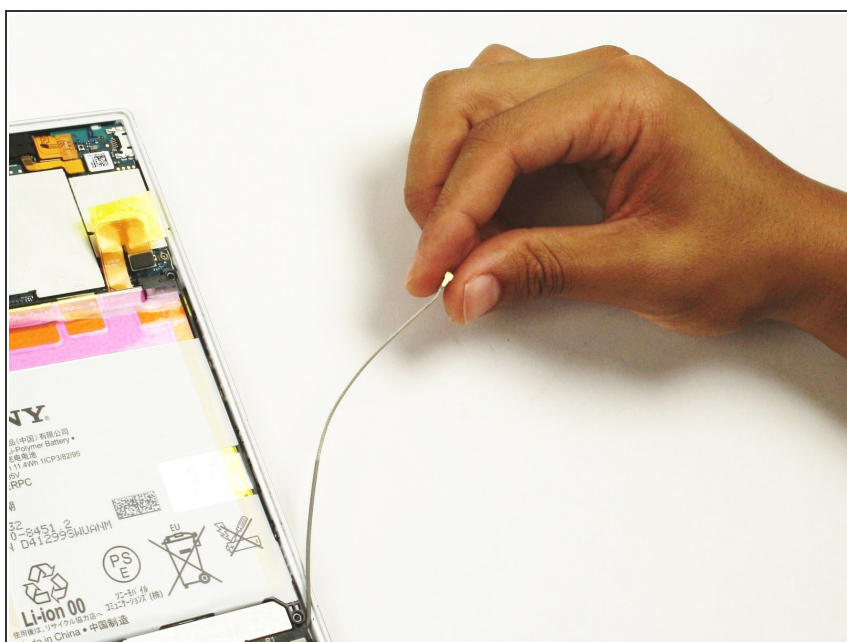
- Detach the battery connection cable by prying it upward with the spudger.

## Step 8



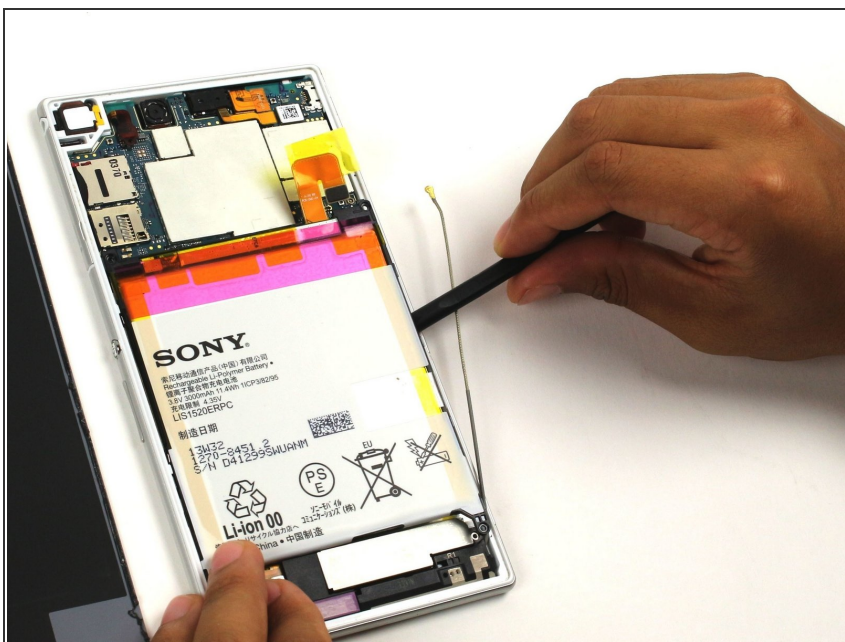
- Pry the upper end of the antenna upwards with the spudger.

## Step 9



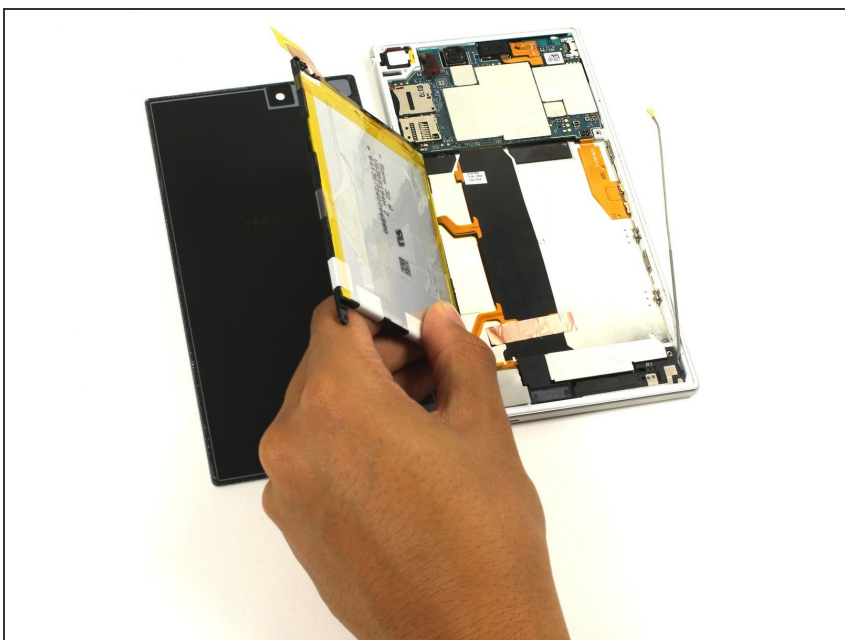
- Detach the antenna by pulling the upper end upwards and outwards.

## Step 10



- Insert the spudger underneath the battery and run it back and forth to remove any adhesive.

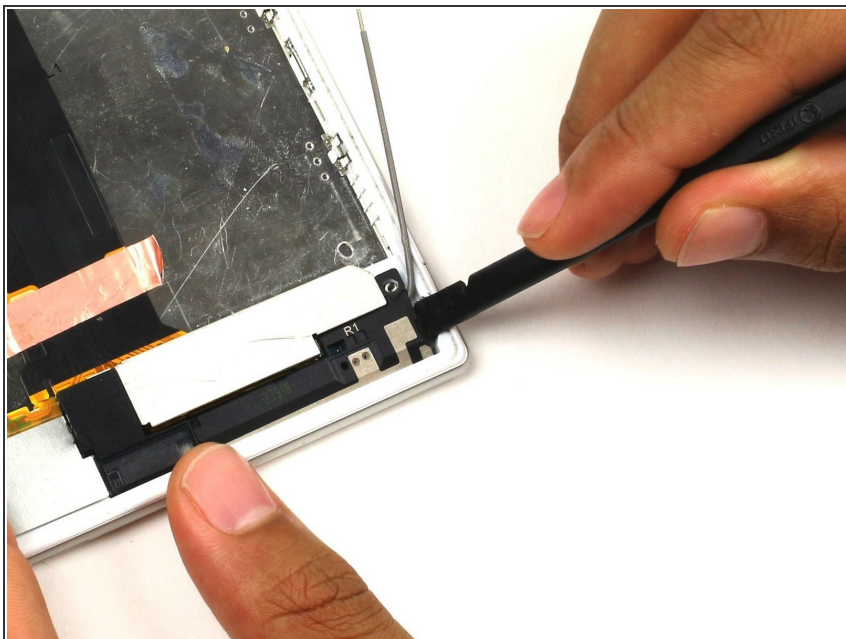
## Step 11



- Remove the battery from the phone.

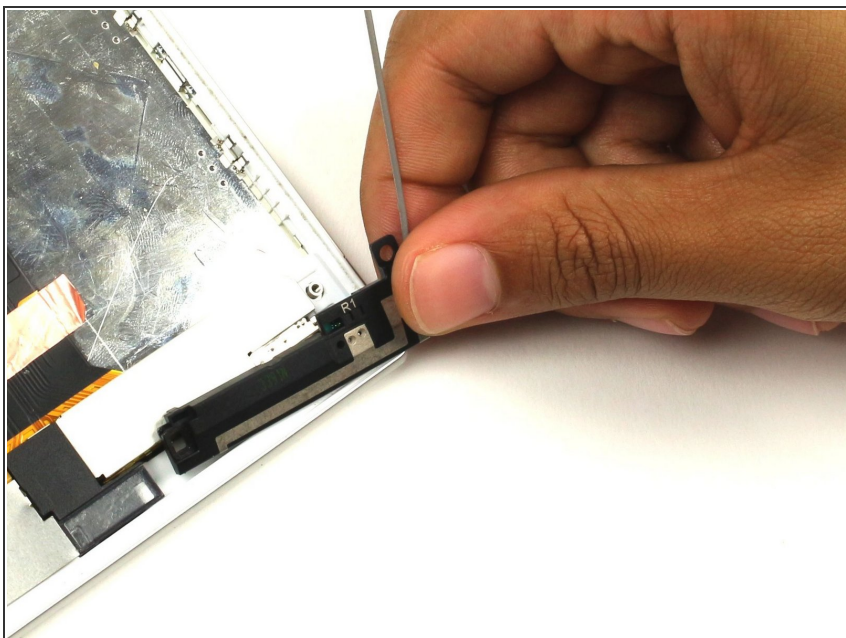


## Step 12 — Motherboard



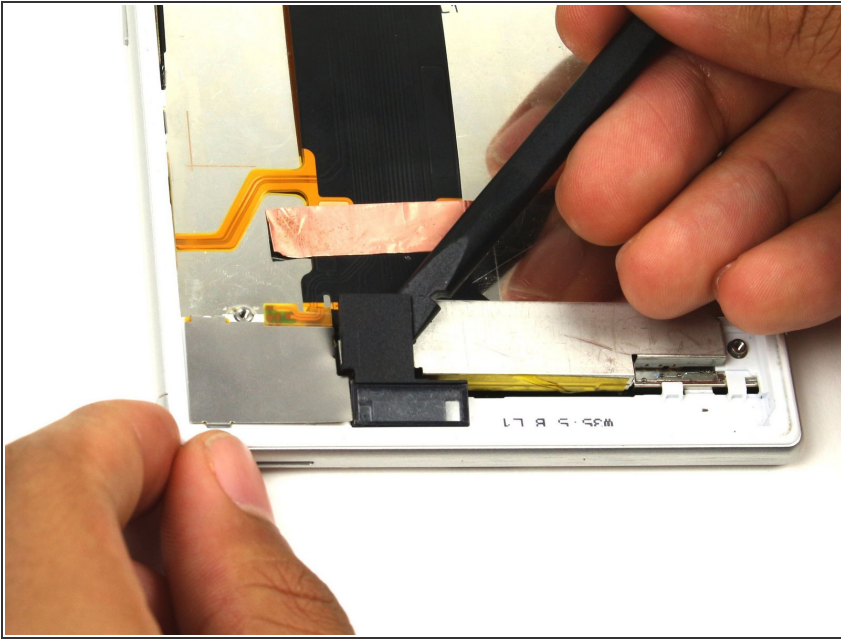
- Pry the antenna assembly upwards with the spudger.

## Step 13



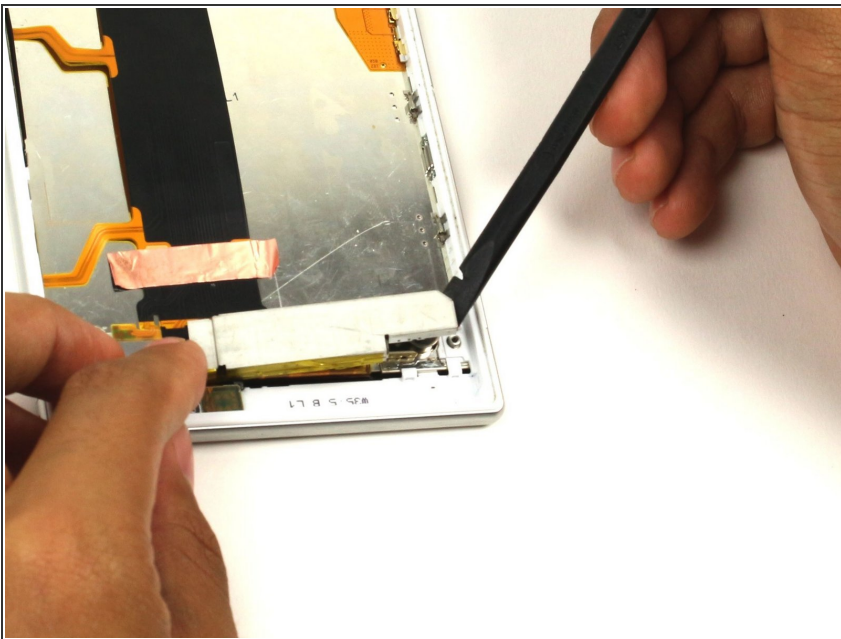
- ⓘ You should hear a slight "click" when the antenna assembly has been completely loosened.
- Remove the antenna assembly by pulling it upwards from the right end.

## Step 14



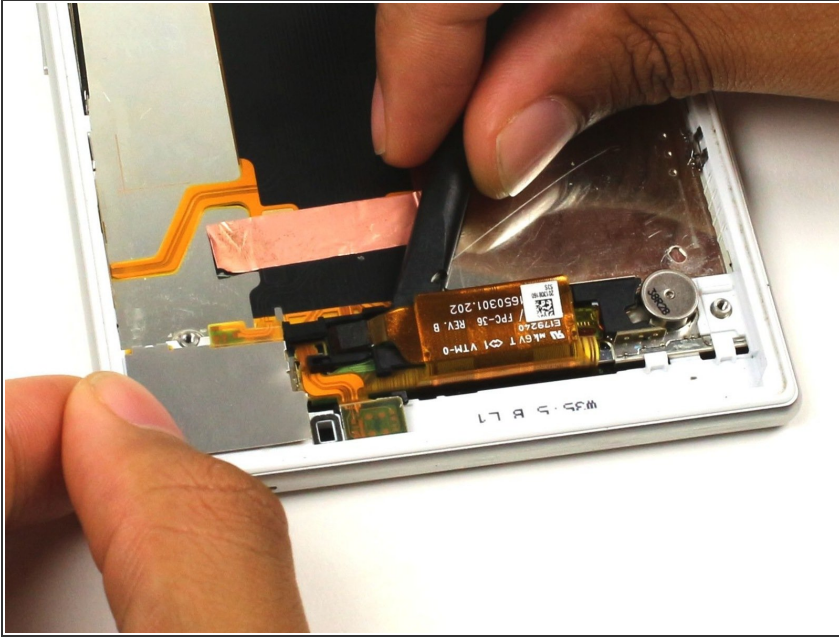
- Remove the mic cover by placing the spudger underneath the cover and prying it upward.

## Step 15



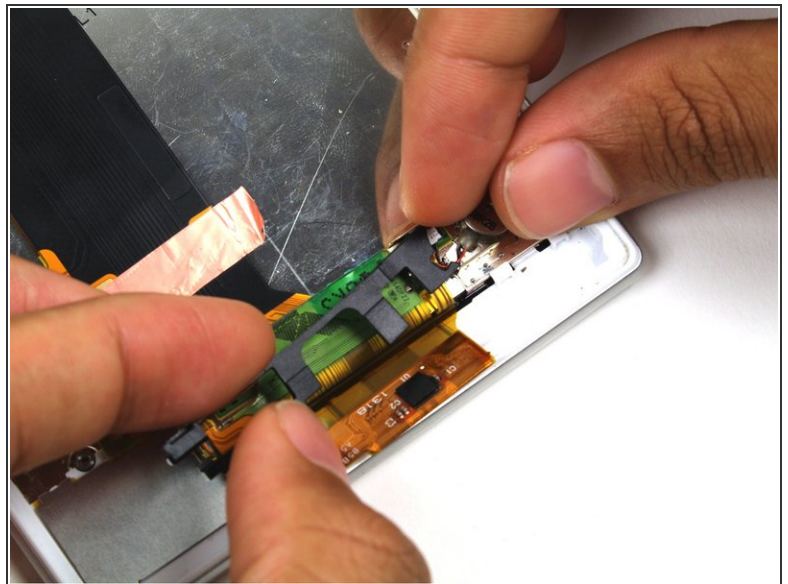
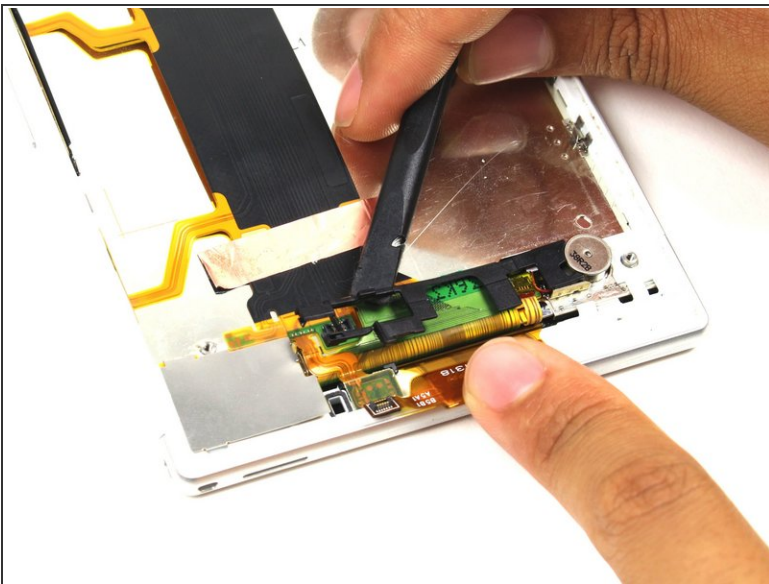
- ⚠ The metal shield is very thin, so use care to remove the metal shield as it can easily be bent.
- Remove the metal shield cover by prying its right end upwards with the flat part of the spudger.

## Step 16



- Remove the mic connection from the motherboard ribbon by prying it upwards with the spudger.
- ⓘ Once released, the orange ribbon will resemble a flap.

## Step 17



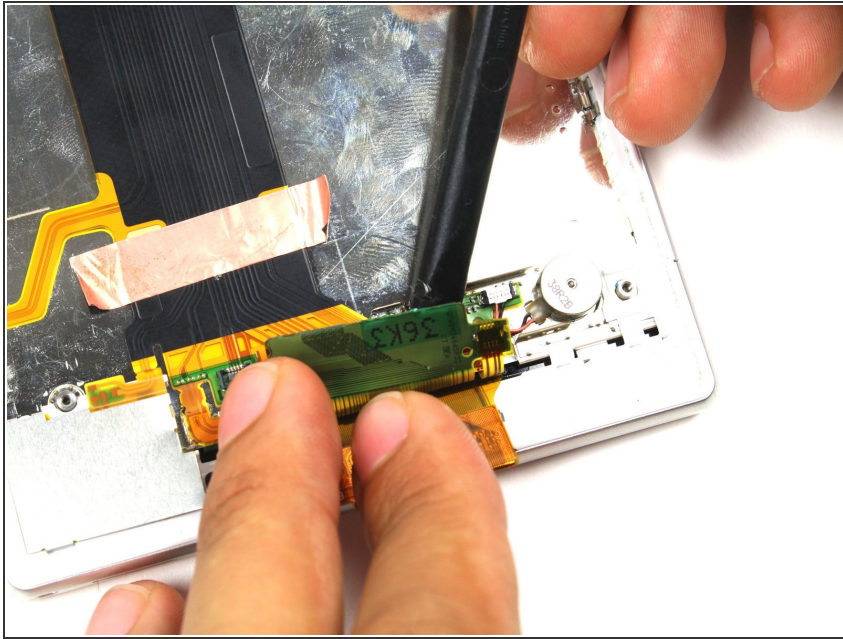
⚠ Use care to remove the black plastic spacer, as it may bend if excessive force is used. The black plastic spacer is very thin and extremely fragile.

- Gently pry the black plastic spacer upwards with the spudger.
- Remove the black plastic spacer from the phone by gently pulling it upwards.

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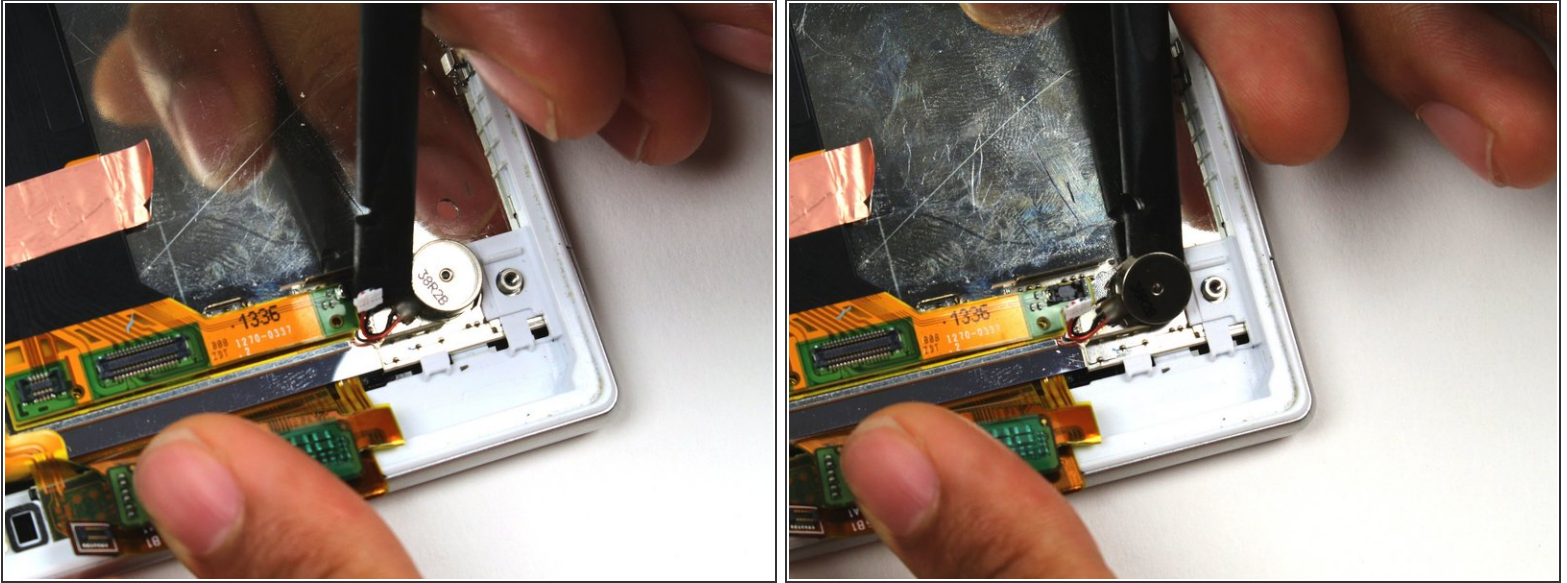
## Step 18




- Release the LCD digitizer connection by prying it upwards with the spudger.
- ⓘ The LCD digitizer is distinguished by a longer connection strip.



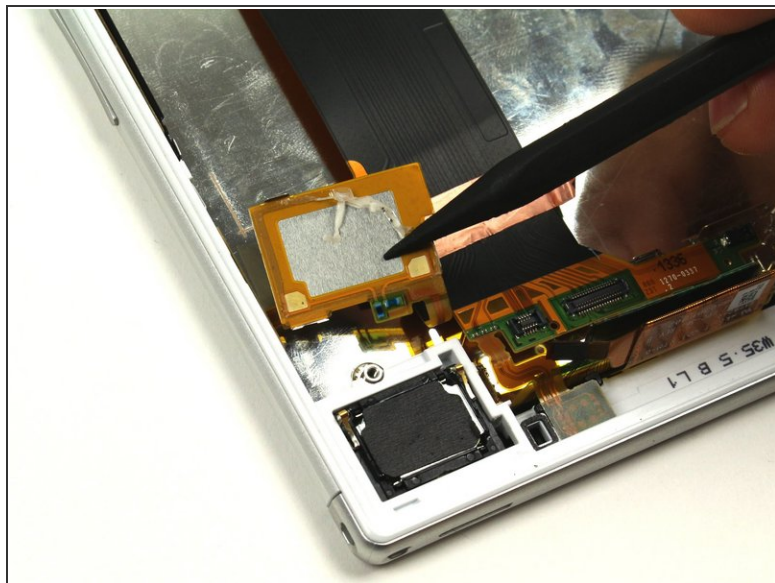
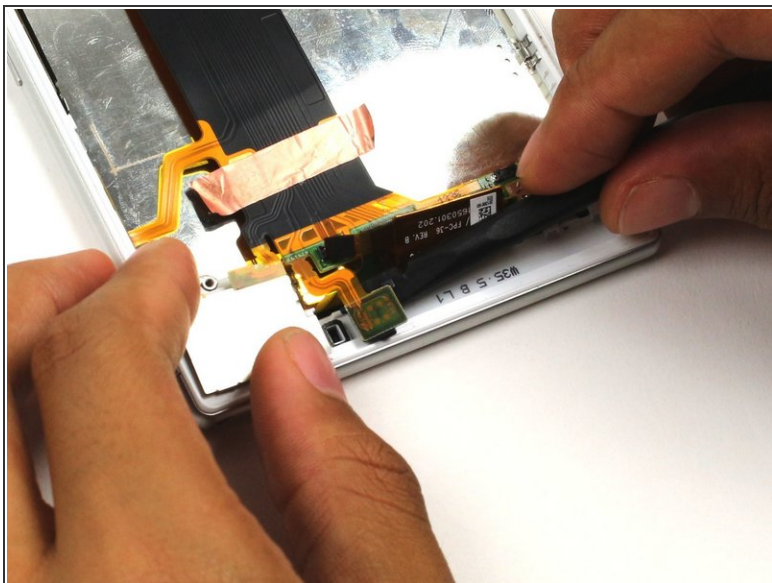
## Step 19



 Use care to detach the vibration motor connection, as it may break if excessive pressure is applied. The vibration motor connection is tiny and fragile.

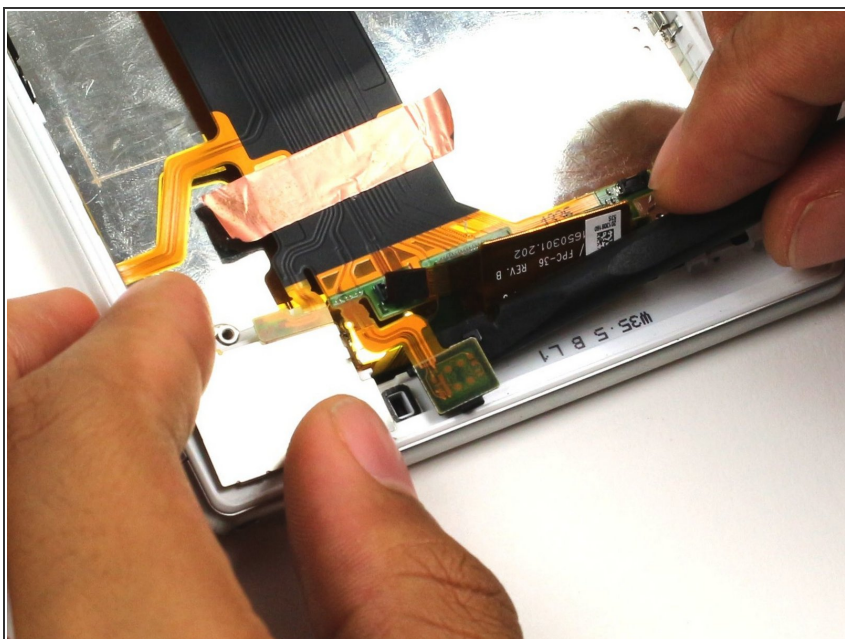
- Use the flat part of a spudger to detach the vibration motor connection. It is a tiny white box with red and black wires leading to the motor.
- Once the connection has been removed, slide the spudger underneath the vibration motor to release it from the adhesive.

## Step 20



- Remove the loudspeaker connection by prying it upwards with the spudger.

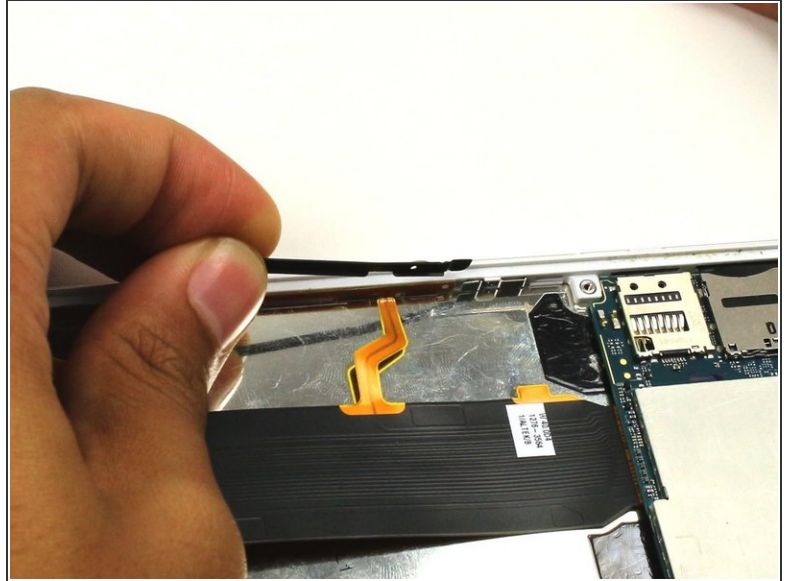
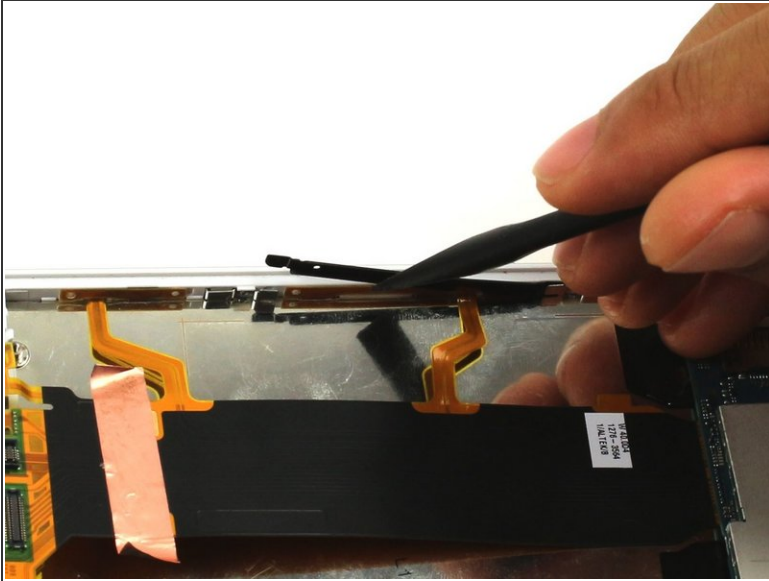
## Step 21



- Remove the orange ribbon connection by prying it upwards with the spudger.

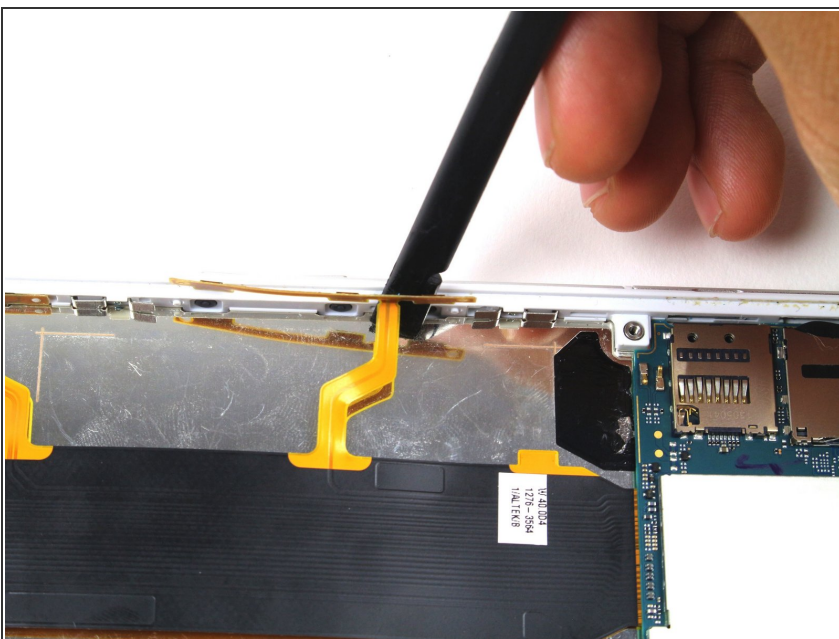


## Step 22



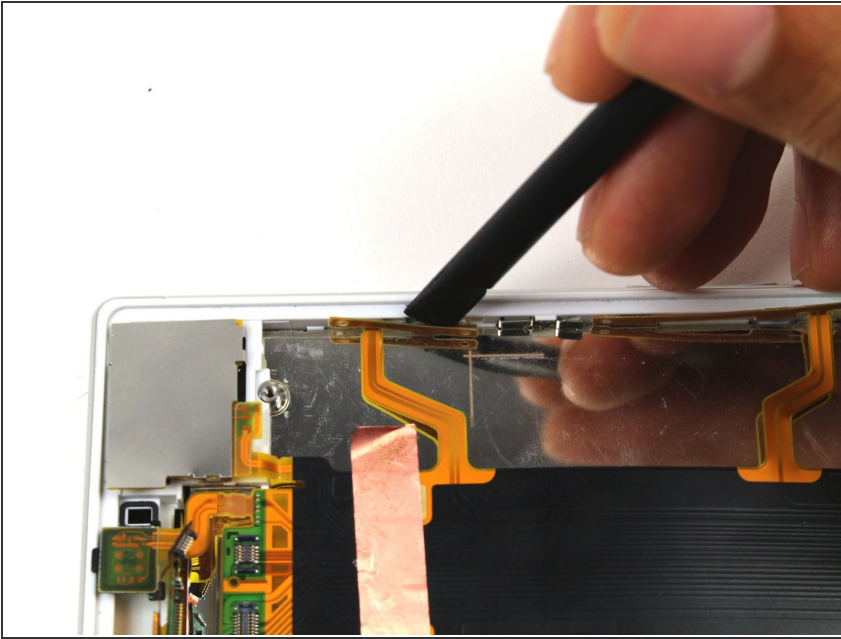
- Pry the small black metal bracket off with the spudger.
- ⚠ Gently remove the ribbons that are attached to the side of the phone to avoid cracking them.
- Remove the small black metal bracket by lifting it upwards and outwards.

## Step 23



- Detach the orange ribbon by wedging the spudger between the phone's casing and the ribbon. This will help prevent damage to the strip.

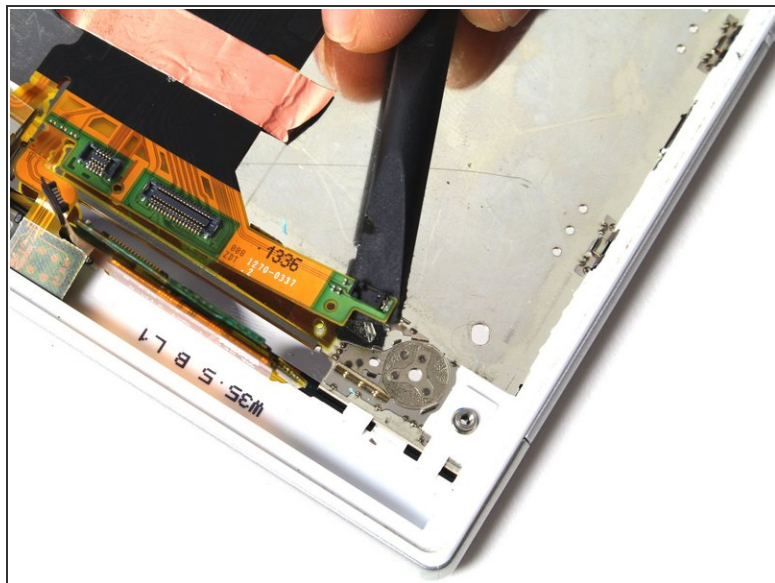
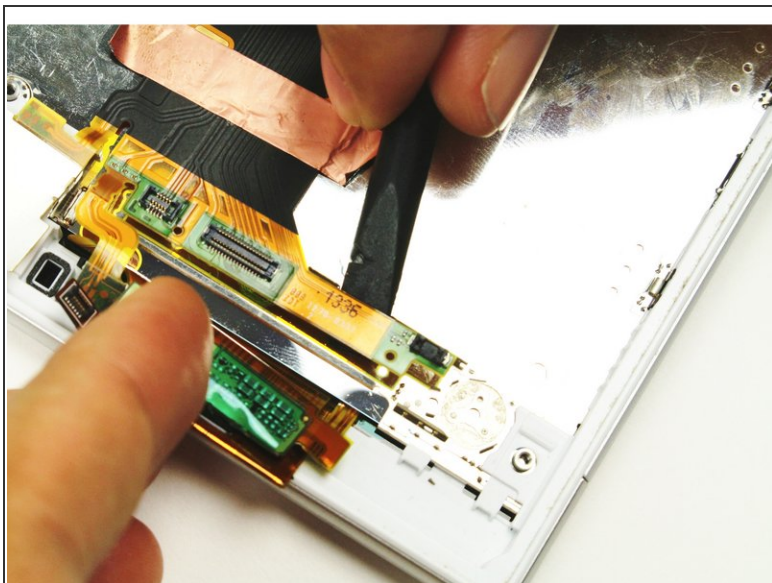
## Step 24





- Detach smaller orange ribbon by wedging the spudger between the phone's casing and the ribbon. This will help prevent damage to the strip.



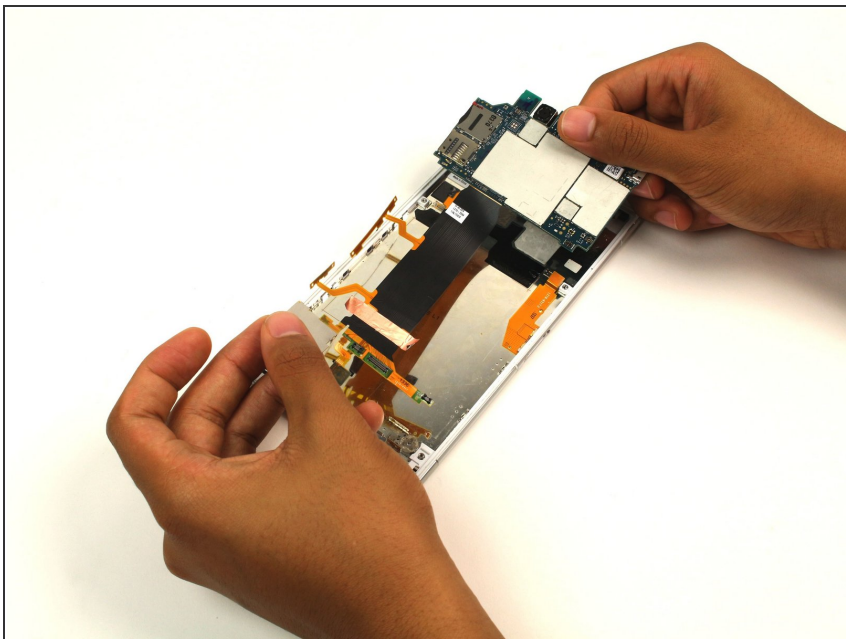
## Step 25



 All parts connected to the motherboard with an orange ribbon are fragile and should be treated with extreme care.

- Pry up the connection strip at the end of the motherboard using the flat part of the spudger to free the motherboard.
-  The connection strip has adhesive underneath.

## Step 26



- Manually remove the copper tape anchoring the motherboard's black ribbon.
- ⓘ When removing the motherboard in its entirety, make sure all securing points have been released.

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