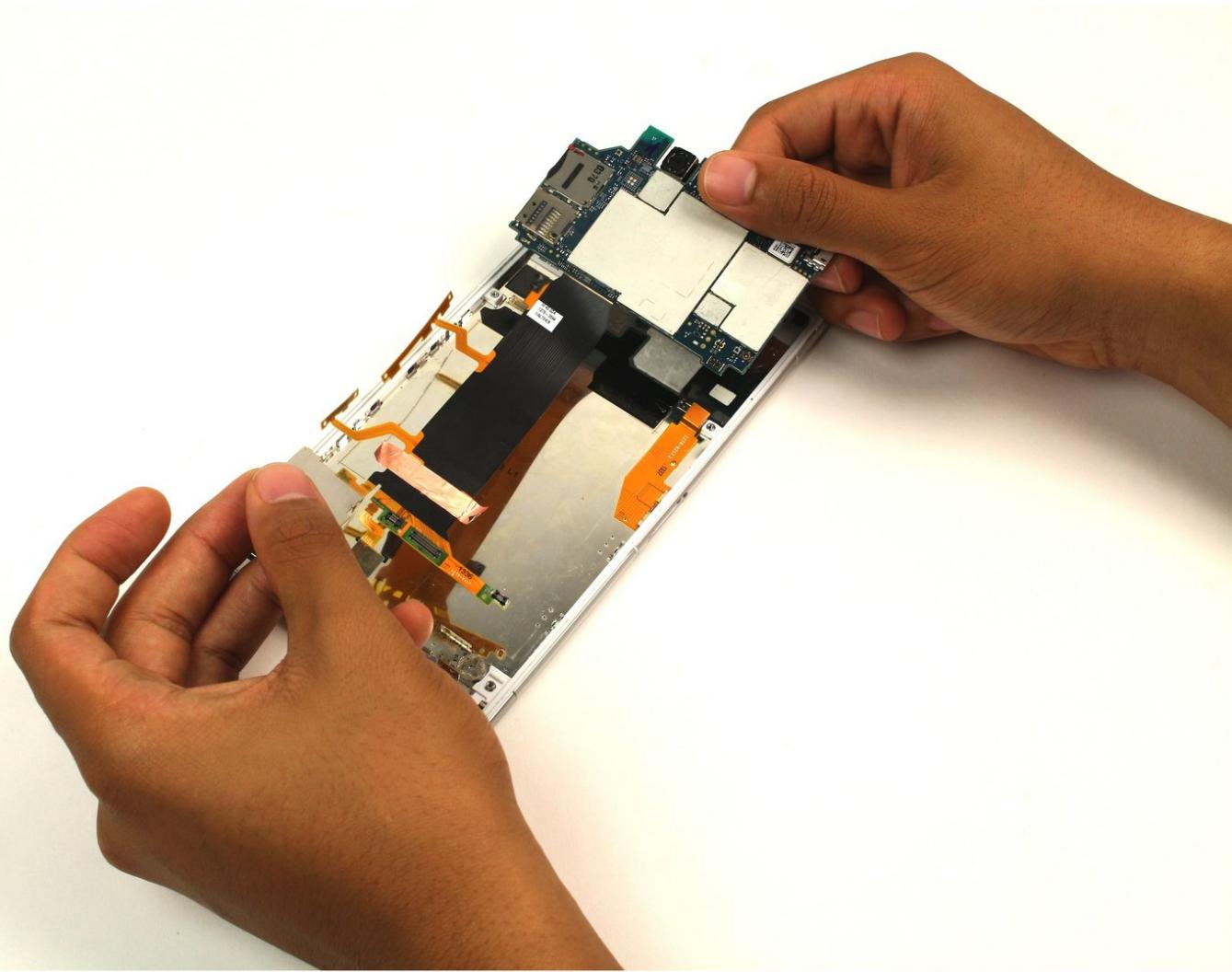




Sony Xperia Z Ultra Motherboard Replacement

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

Written By: Omar Herrera



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.

TOOLS:

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

Step 1 — Battery



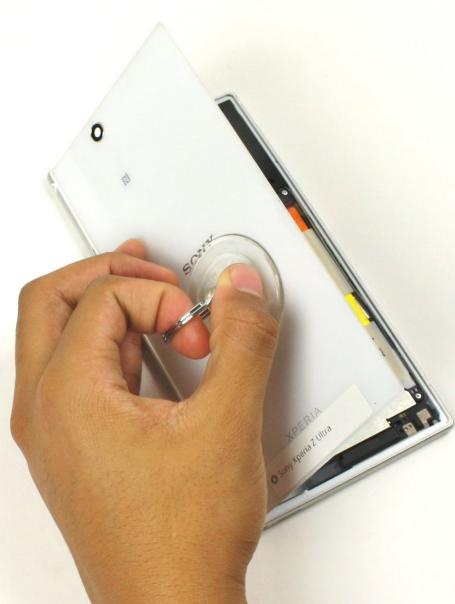
- Use the small suction cup to lift the back panel:
- Press the small suction cup on to the middle of the back panel.

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.

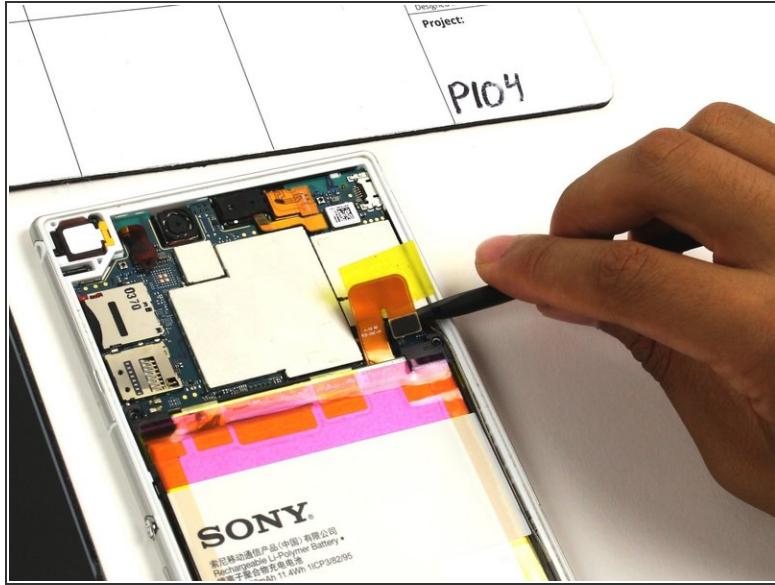
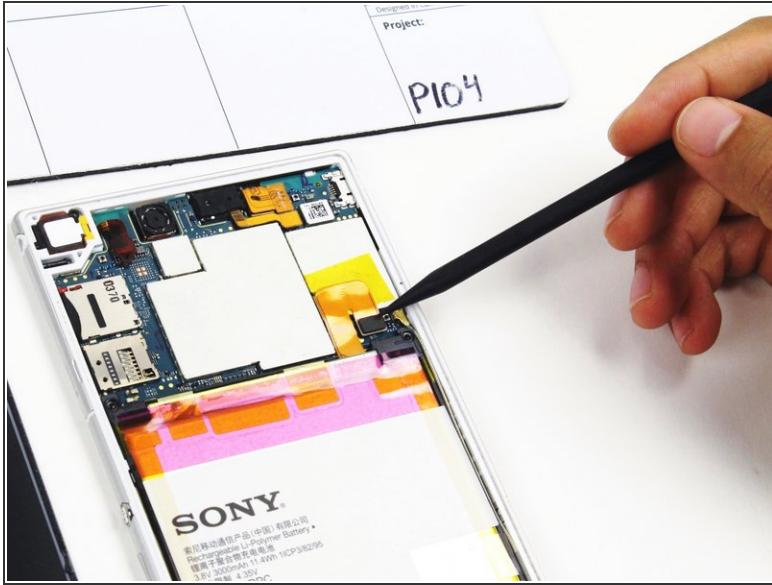
Step 6



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

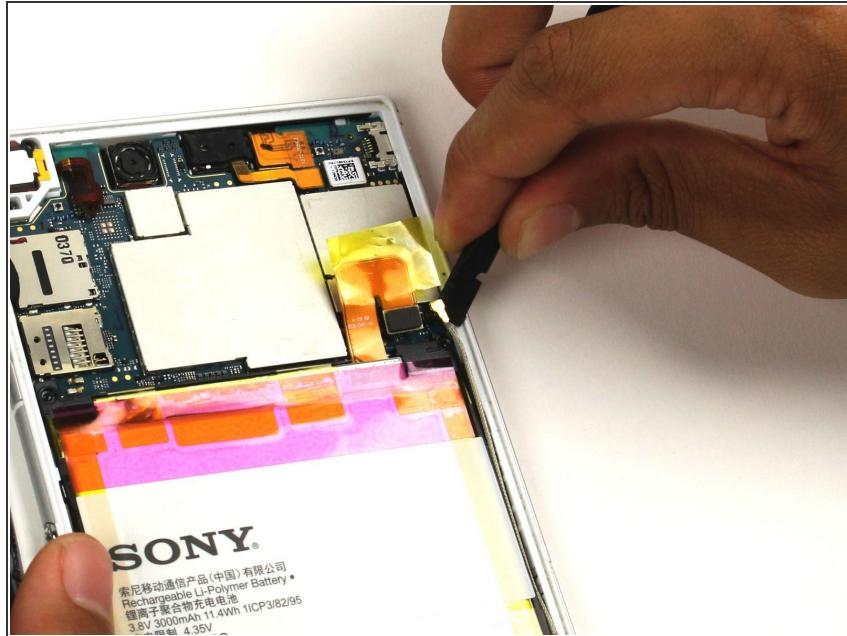
- Remove the motherboard shield by lifting the lower end upwards first.

Step 7



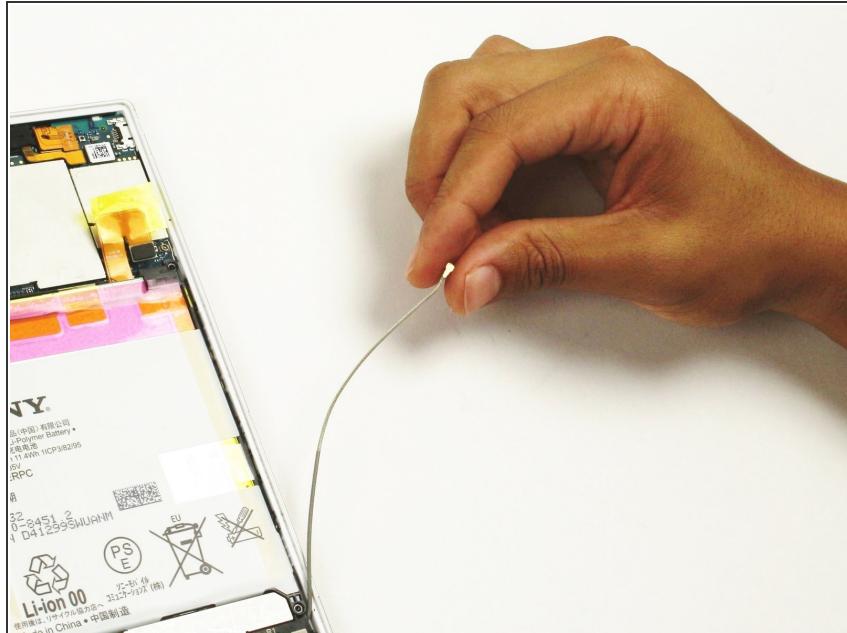
- Detach the battery connection cable by prying it upward with the spudger.

Step 8



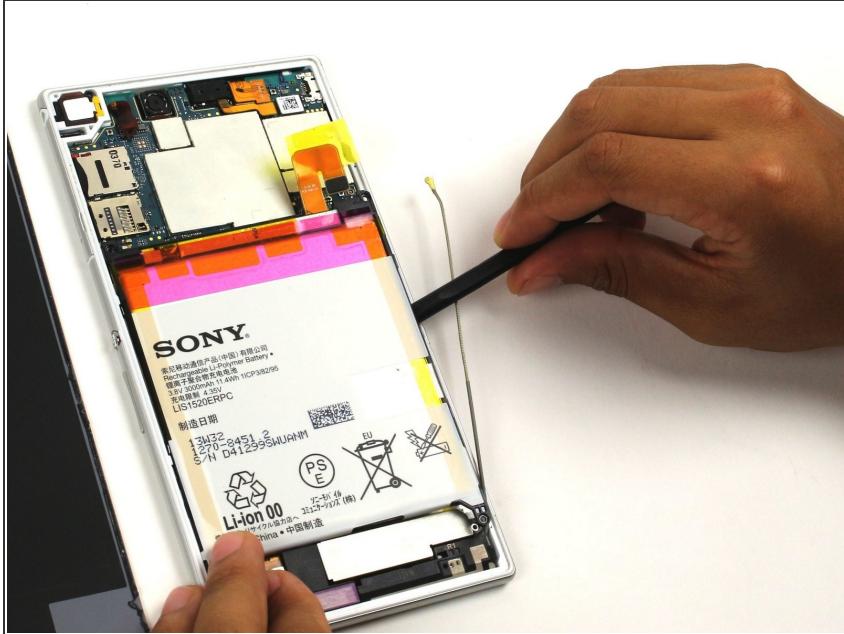
- Pry the upper end of the antenna upwards with the spudger.

Step 9



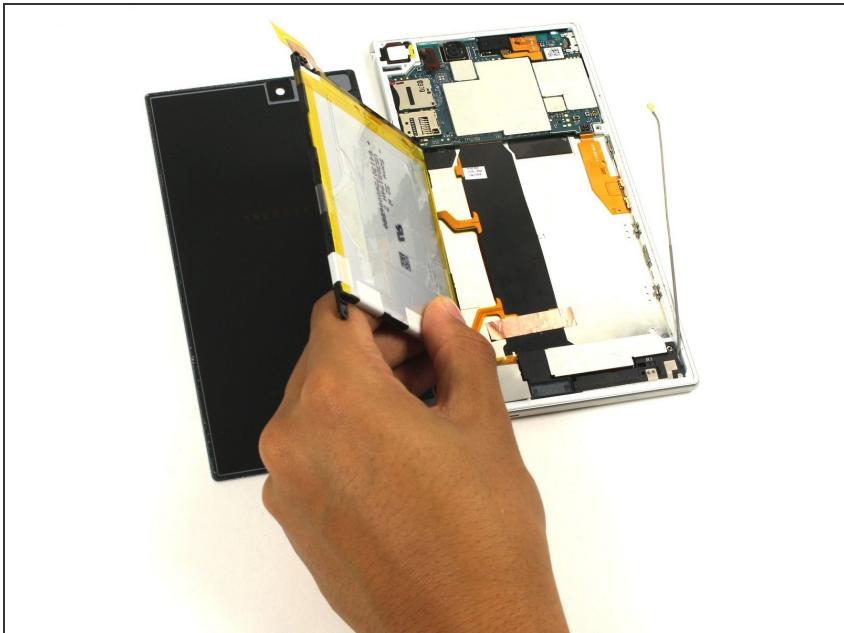
- Detach the antenna by pulling the upper end upwards and outwards.

Step 10



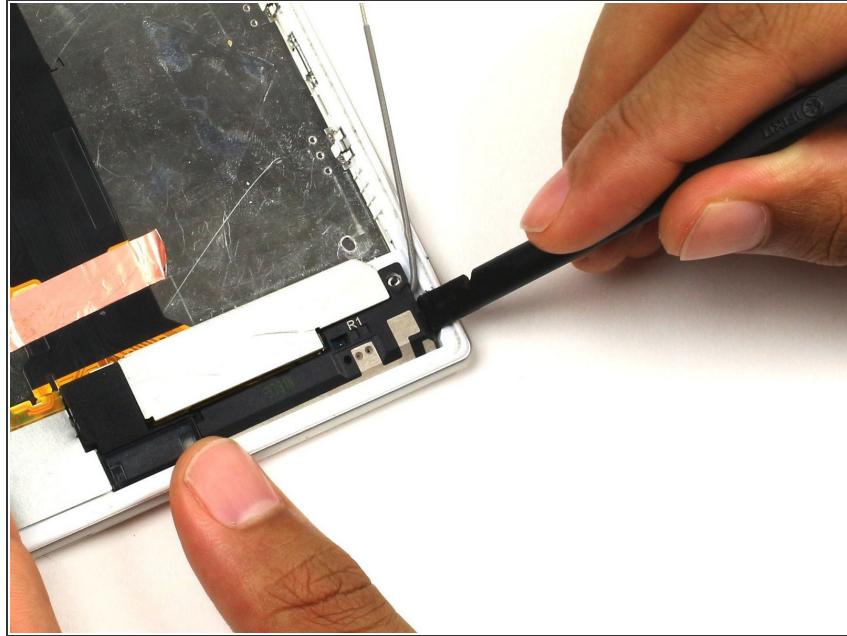
- Insert the spudger underneath the battery and run it back and forth to remove any adhesive.

Step 11



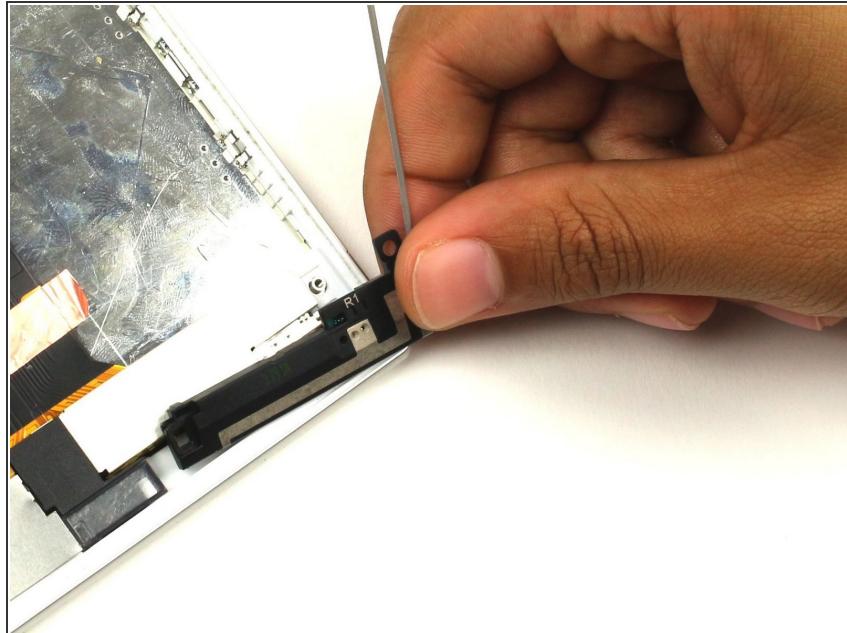
- Remove the battery from the phone.

Step 12 — Motherboard



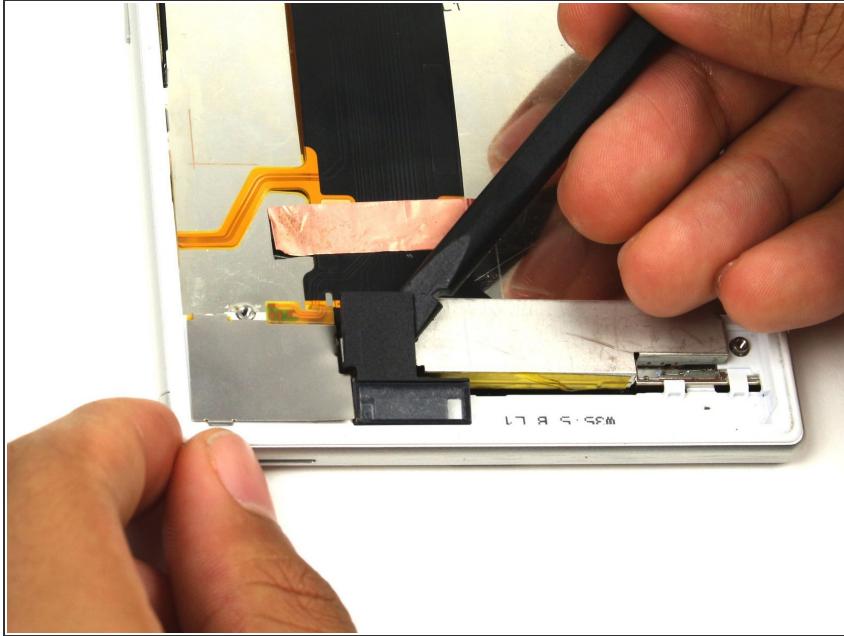
- Pry the antenna assembly upwards with the spudger.

Step 13



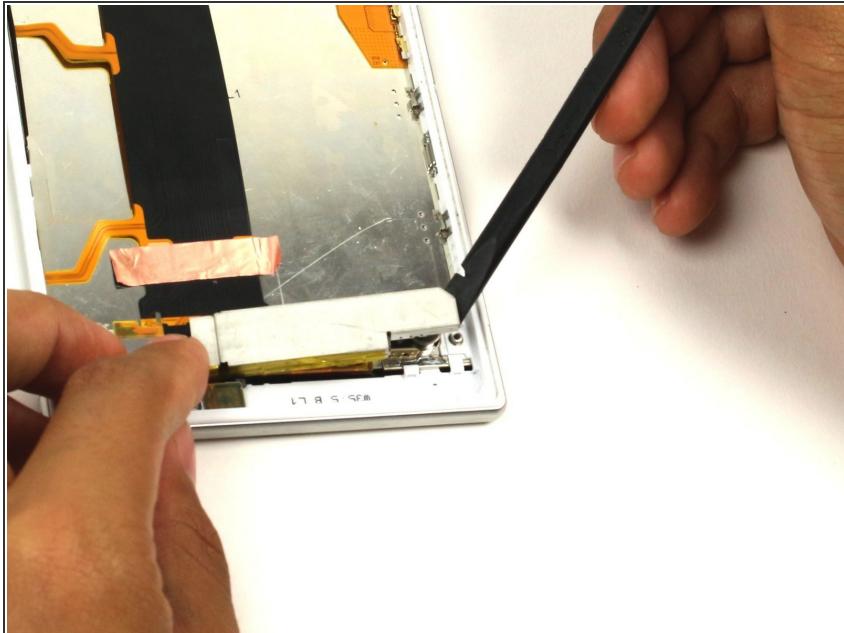
- You should hear a slight "click" when the antenna assembly has been completely loosened.
- Remove the antenna assembly by pulling it upwards from the right end.

Step 14



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

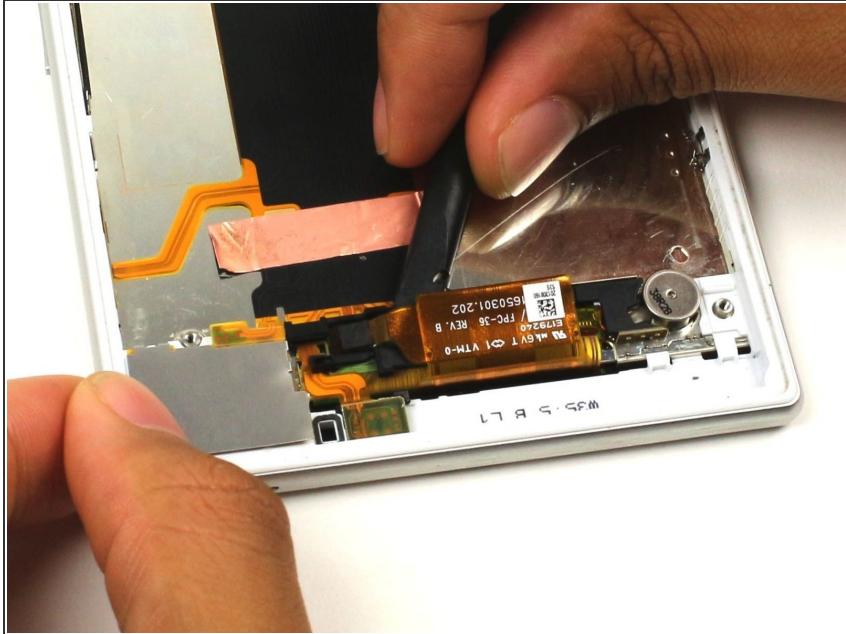
Step 15



⚠ 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.

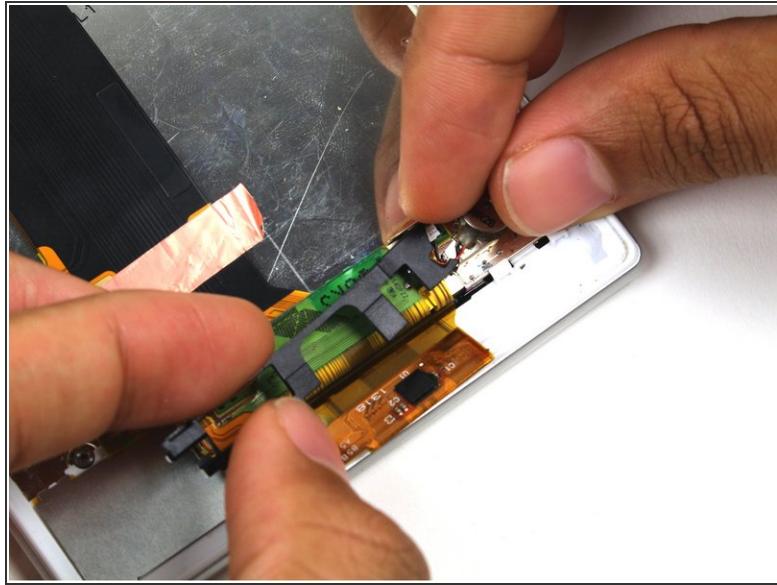
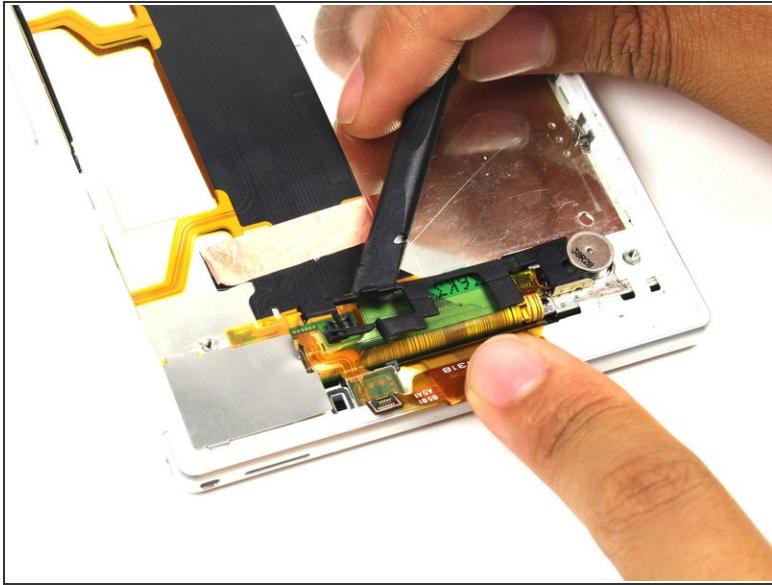
Step 16



- Remove the mic connection from the motherboard ribbon by prying it upwards with the spudger.

(i) Once released, the orange ribbon will resemble a flap.

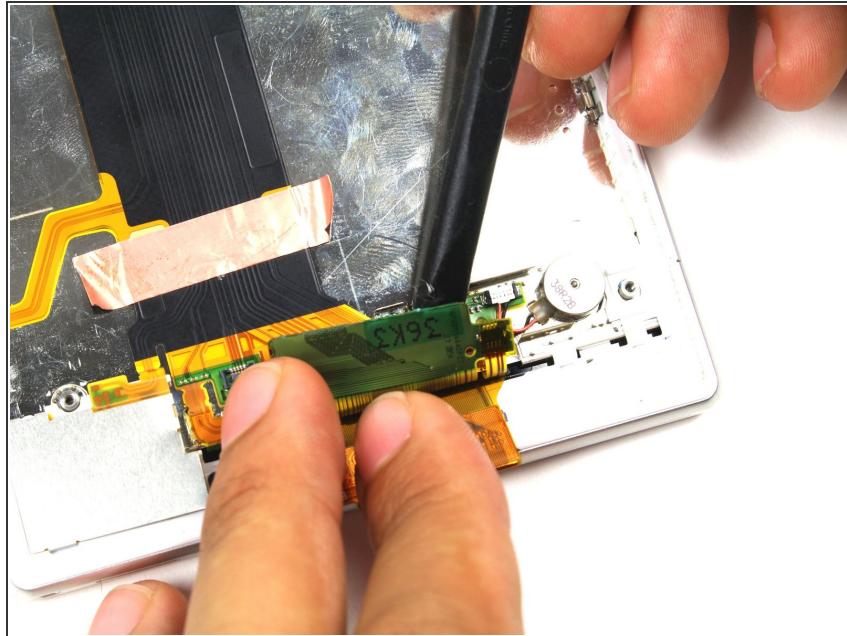
Step 17



⚠ 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.

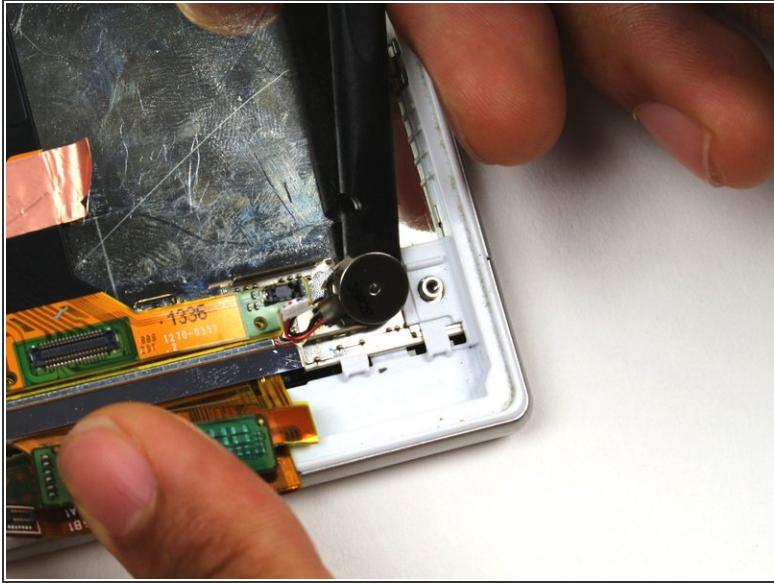
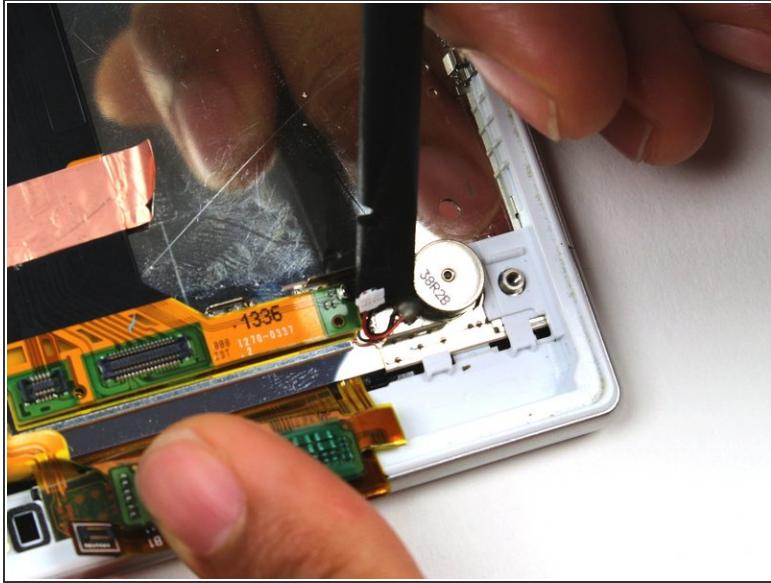
Step 18



- Release the LCD digitizer connection by prying it upwards with the spudger.

i The LCD digitizer is distinguished by a longer connection strip.

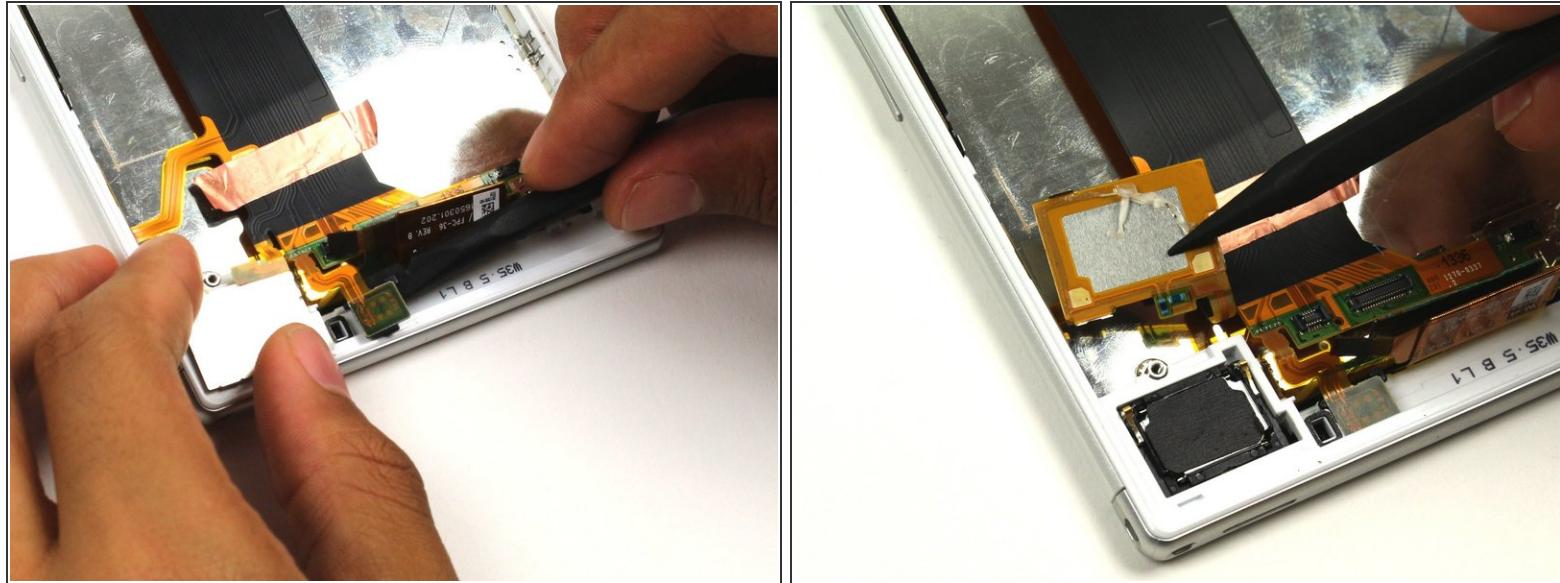
Step 19



⚠ 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.

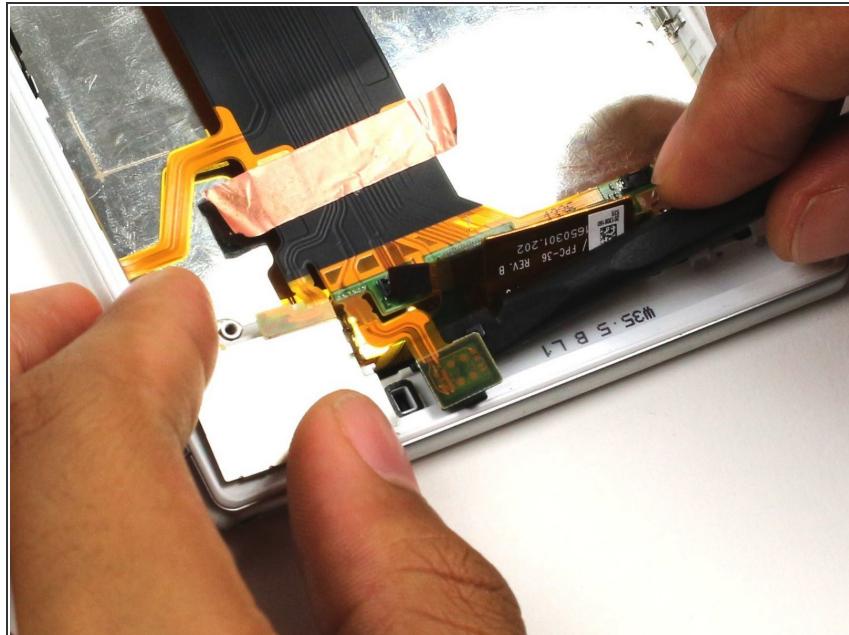
- Use the flat part of a spudger to detach the vibration motor connection. It is a tiny white box with red and black wires leading to the motor.
- Once the connection has been removed, slide the spudger underneath the vibration motor to release it from the adhesive.

Step 20



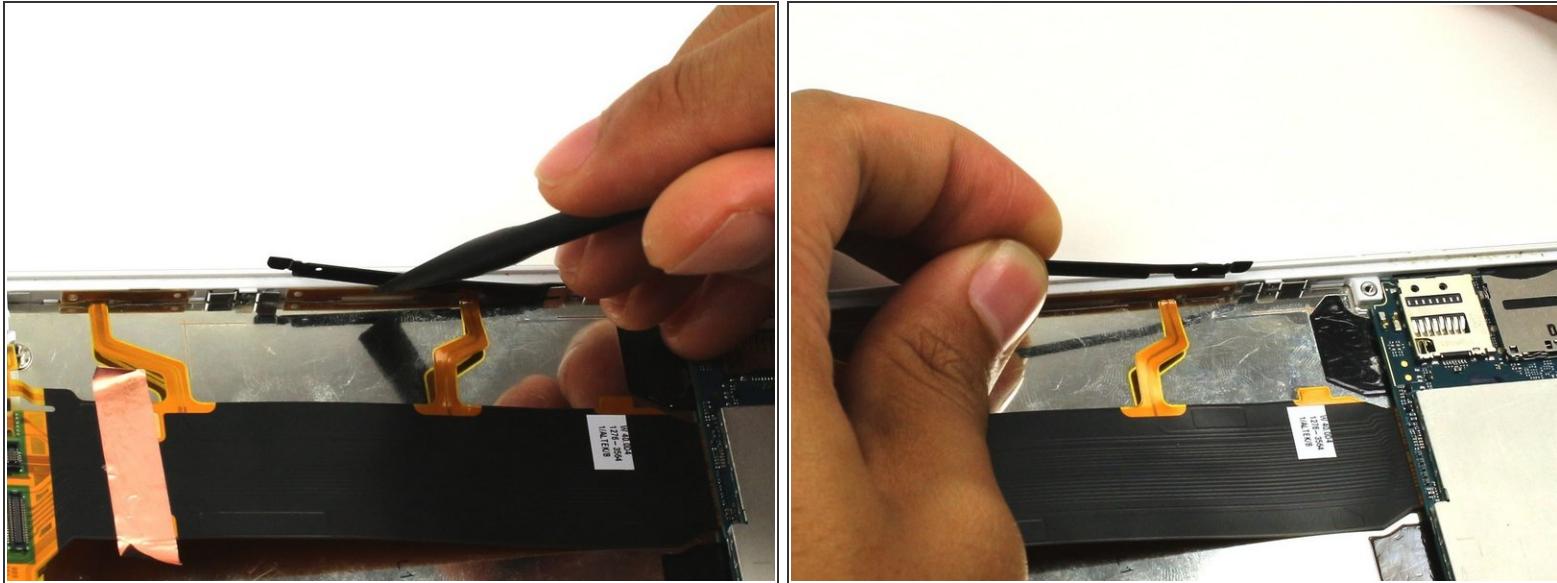
- Remove the loudspeaker connection by prying it upwards with the spudger.

Step 21



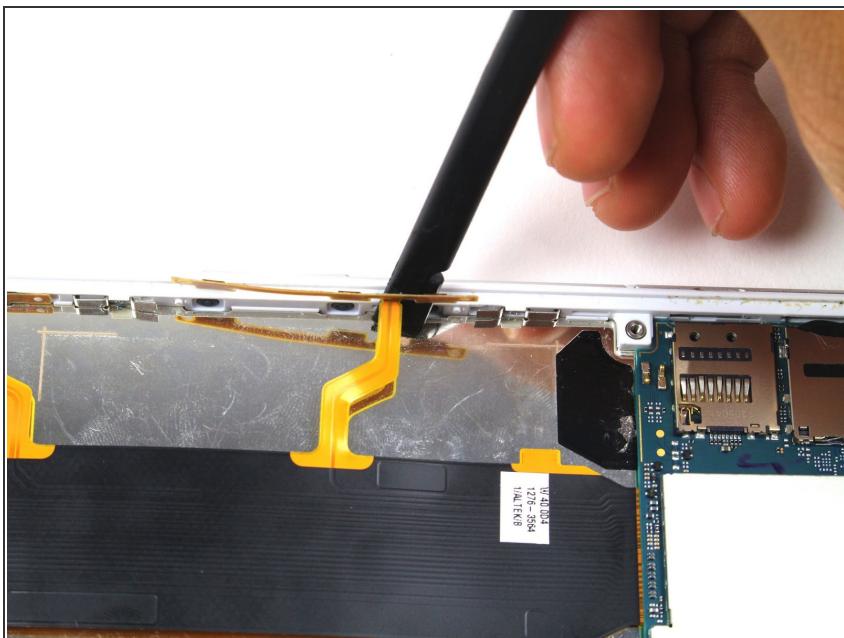
- Remove the orange ribbon connection by prying it upwards with the spudger.

Step 22



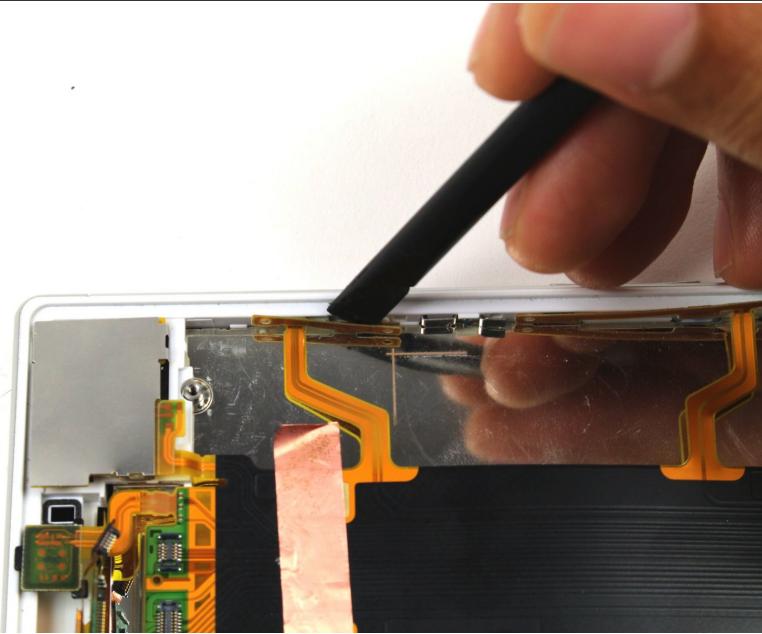
- Pry the small black metal bracket off with the spudger.
- ⚠ Gently remove the ribbons that are attached to the side of the phone to avoid cracking them.
- Remove the small black metal bracket by lifting it upwards and outwards.

Step 23



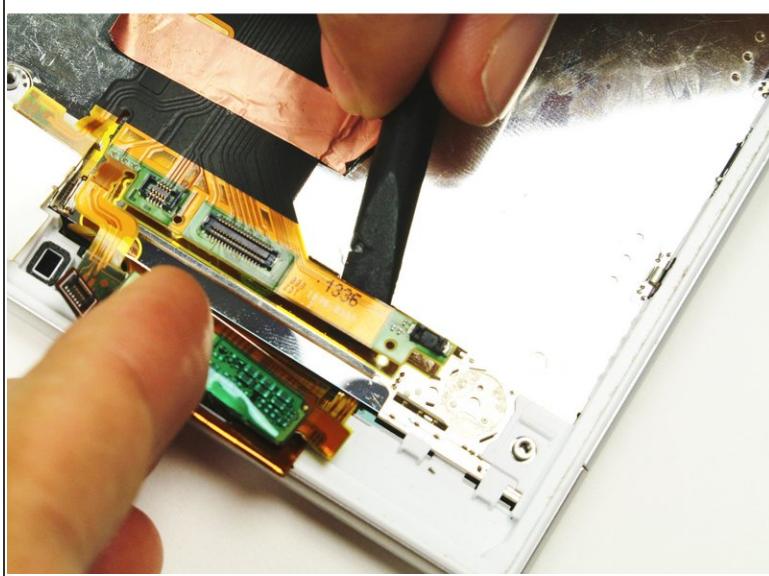
- Detach the orange ribbon by wedging the spudger between the phone's casing and the ribbon. This will help prevent damage to the strip.

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.

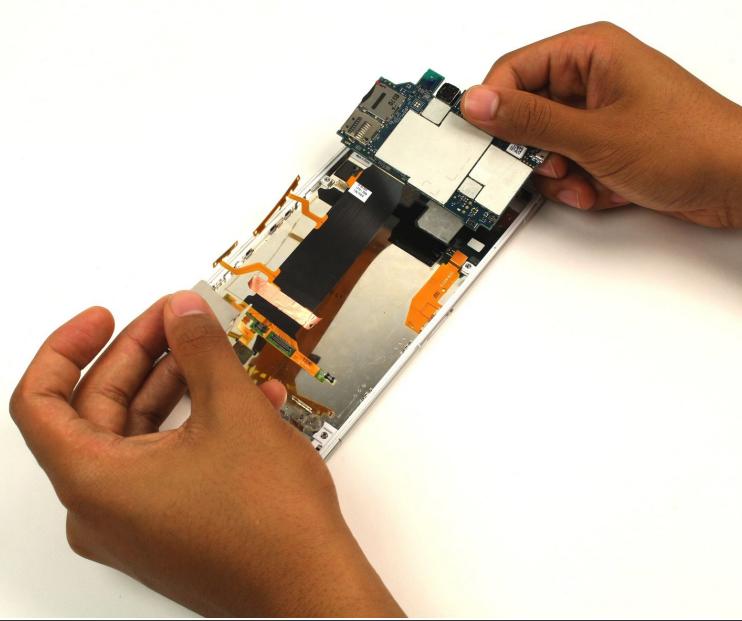
Step 25



⚠ 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.
- **(i)** The connection strip has adhesive underneath.

Step 26



- Manually remove the copper tape anchoring the motherboard's black ribbon.

i 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.