



# Asus ZenFone 2 Display Replacement

Replace your display if it isn't functioning correctly or if it is cracked or broken.

Written By: Jessica Nguyen



## INTRODUCTION

Replacing the display will take patience and time as you will have to heat up the display to detach it from the adhesive sticking it to its housing. You will also have to unplug the entire antenna, take out the battery, and motherboard before being able to get to the display.

### TOOLS:

- [64 Bit Driver Kit \(1\)](#)
- [JIS Driver Set \(1\)](#)
- [iFixit Opening Tools \(1\)](#)
- [Heat Gun \(1\)](#)

## Step 1 — Removing the Back Cover



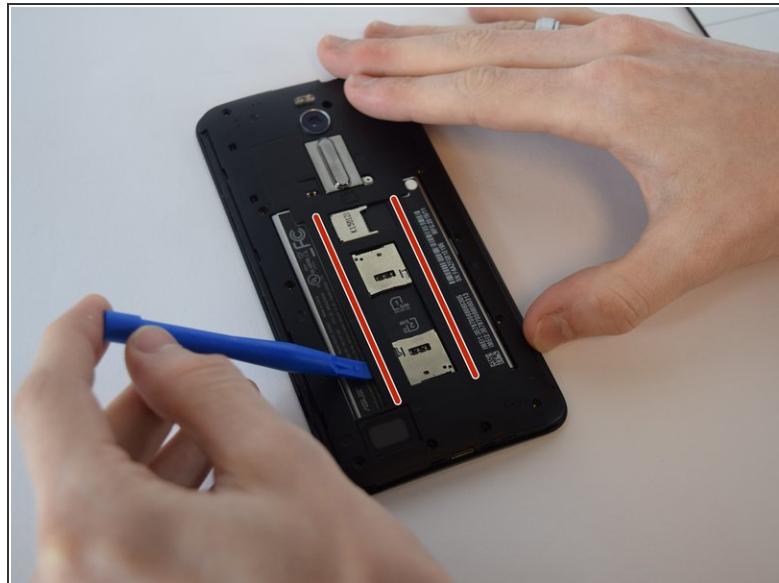
- Use your fingernail to gently pry off the phone's back cover at the indicated location. While your fingernail is under the back cover slide your finger around the edges of the phone until the cover pops off.

## Step 2 — Remove the Inner Cover Screws



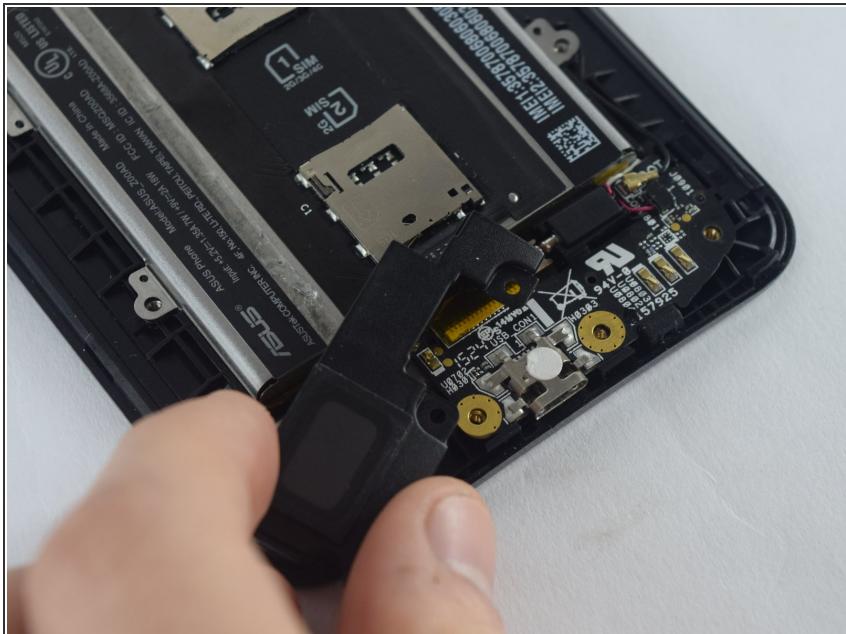
- Remove the thirteen black screws and the single silver screw from the back of the phone with a JIS size 00 screwdriver.
  - The black screws are 2.8 mm in length.
  - The silver screw is 5.5 mm in length.
- *i* The black screw next to the camera and the flash is covered by a sticker. This screw can be easily removed as if there were no sticker on top of it. The point of the screwdriver should be able to pierce through the sticker easily.

## Step 3 — Remove the Inner Cover



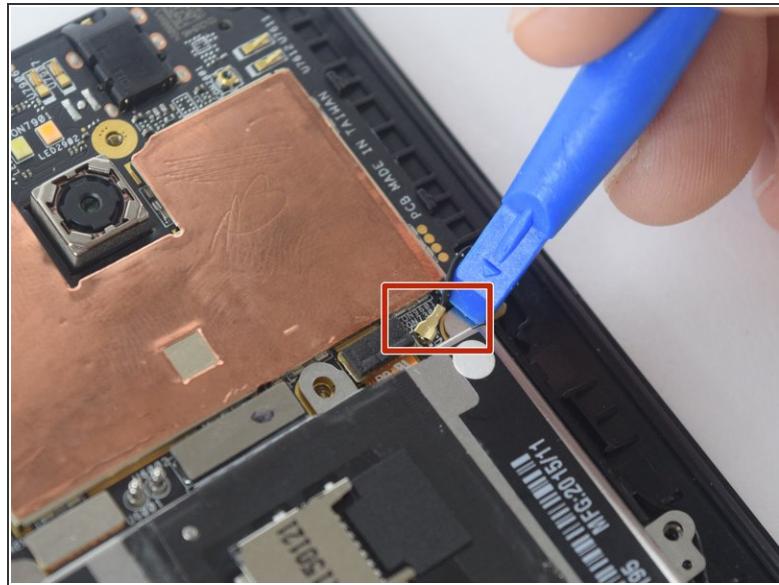
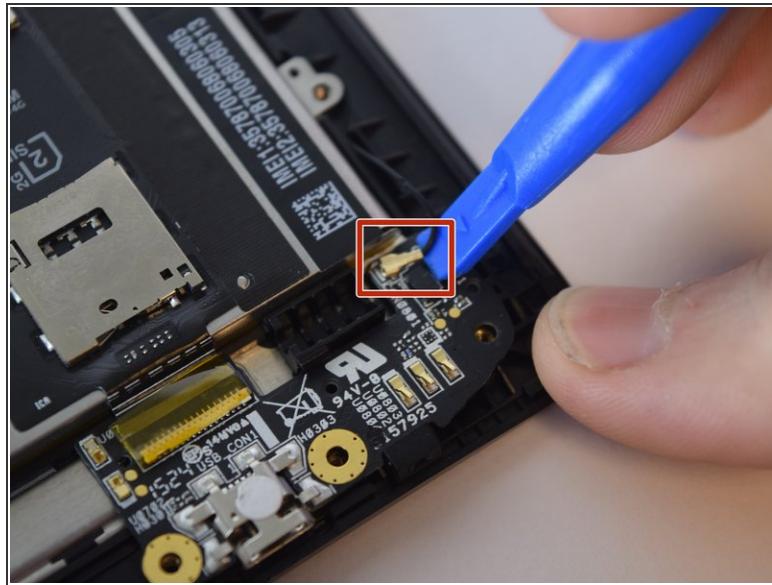
- Use a plastic opening tool to remove the inner phone backing.
- *(i)* The parts of the inner backing held down by two strips of double sided tape can be easily loosened by inserting the plastic opening tool underneath it and gently lifting it up.

## Step 4 — Remove the Speaker



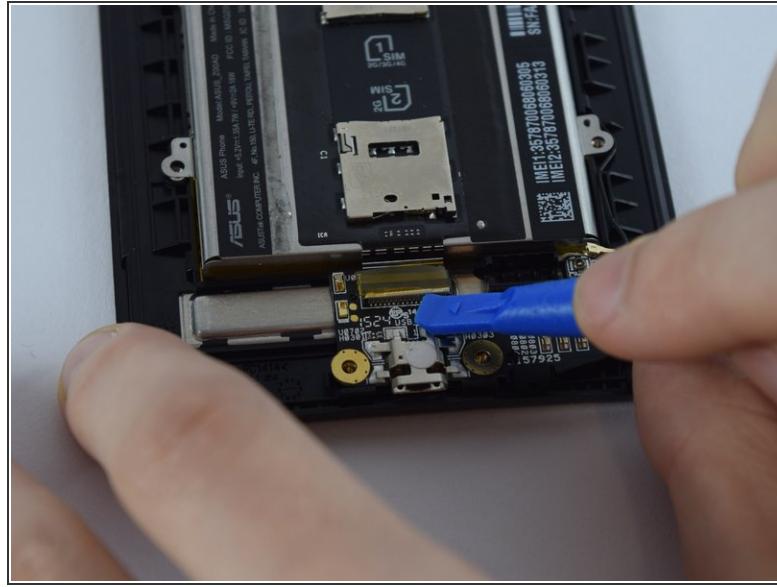
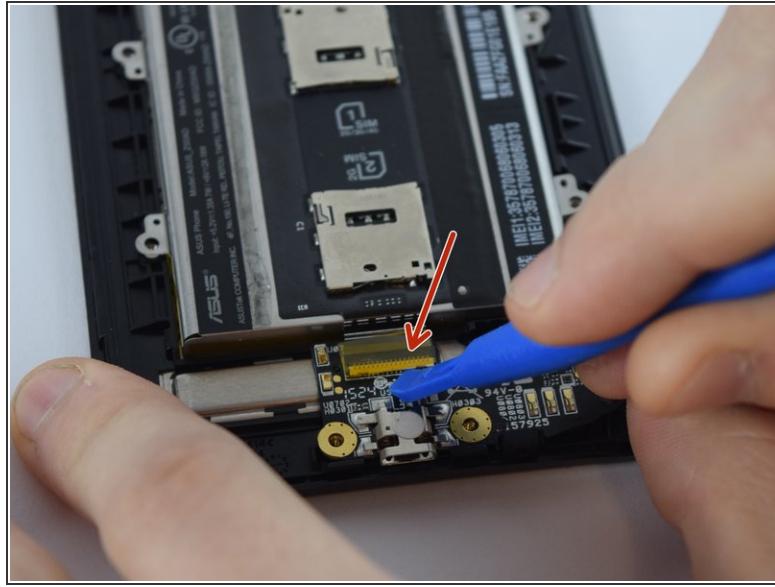
- *(i)* Note the position of the speaker unit so you can replace it in the correct place during reassembly.
- Take the speaker out of the back of the phone. It should come out easily as soon as the inner back is removed because nothing is holding it down in place anymore.

## Step 5 — Remove the Antenna



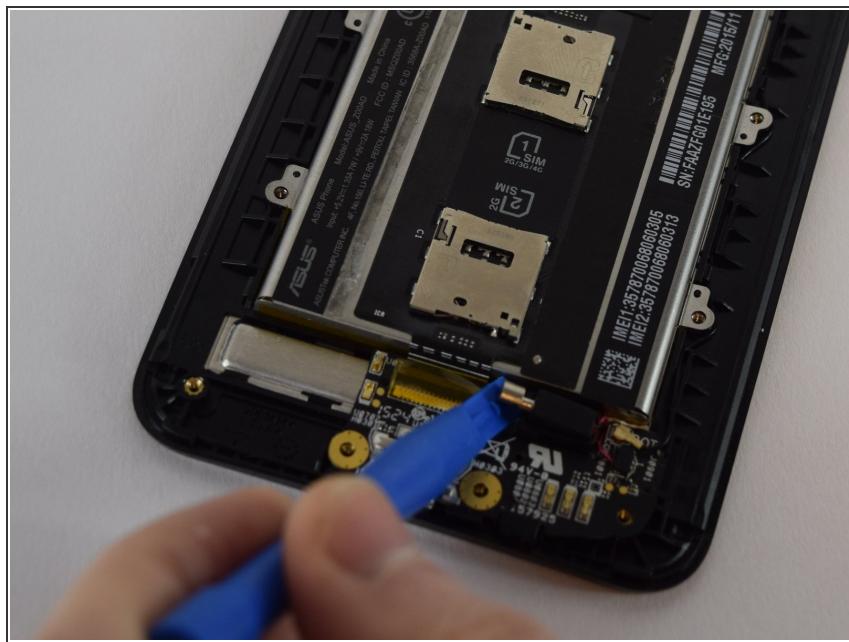
- Use a plastic opening tool to gently pry up both ends of the antenna.
  - Carefully remove the antenna wire from the plastic keepers along the side. Note their position for reassembly.
- ⚠** The antenna connections can be easily bent out of shape. Be sure to lift from underneath the cable as shown.

## Step 6 — Unlock Circuit Board Ribbon Cable



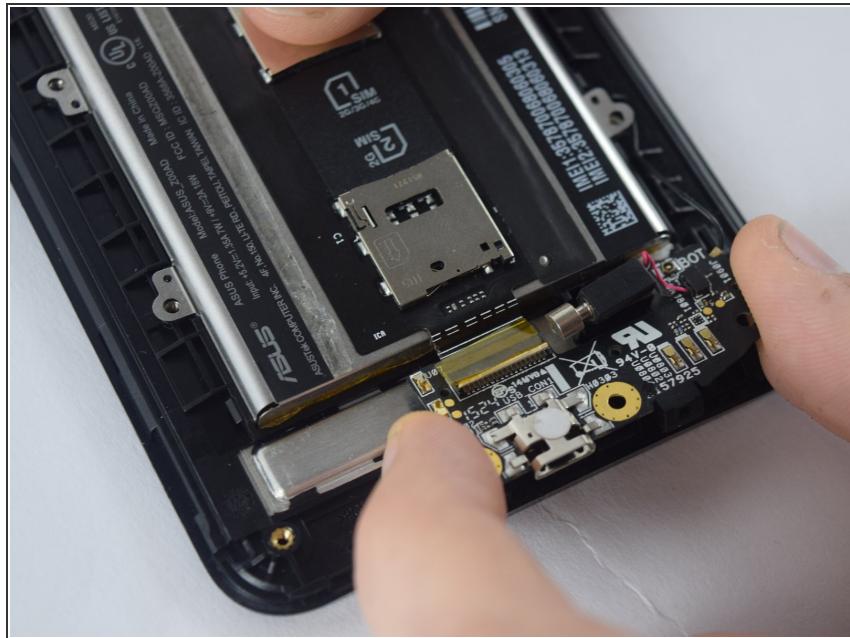
- Using the plastic opening tool, unlock the ribbon cable attaching the battery to the circuit board by prying up the yellow tab.

## Step 7 — Remove Vibration Motor



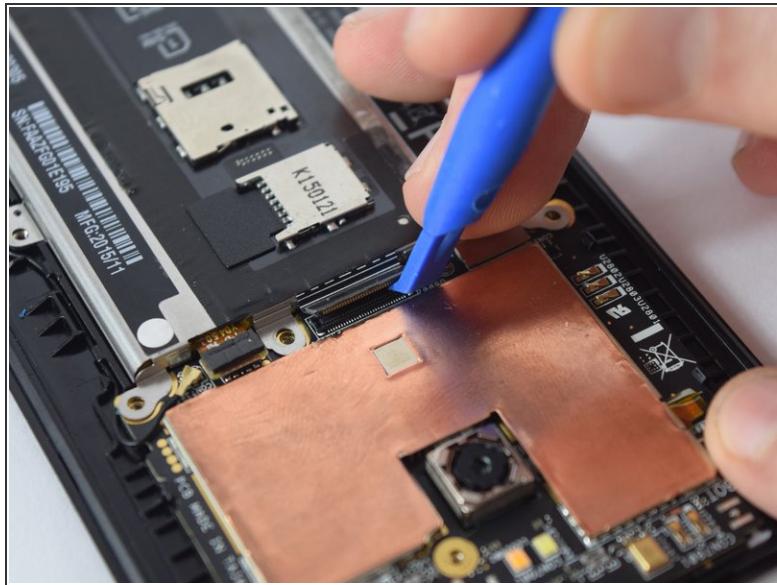
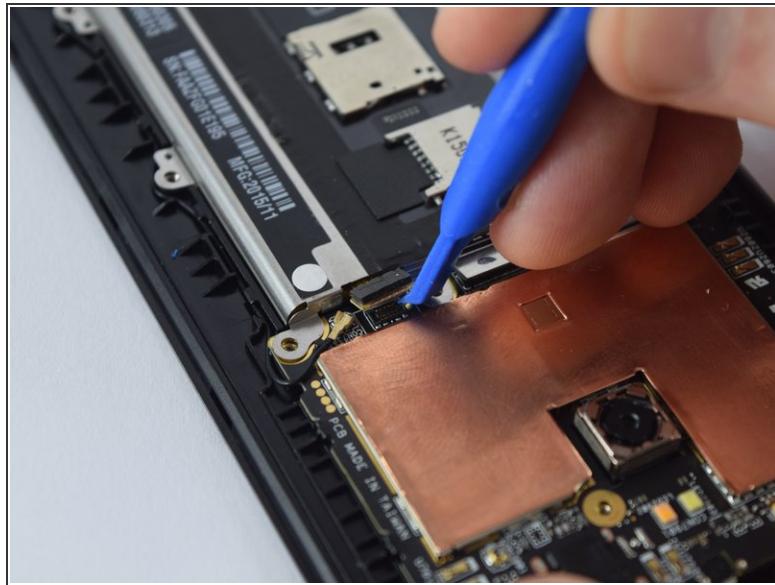
- Using a plastic opening tool, gently pry the vibration motor from its mount.

## Step 8 — Remove Circuit Board



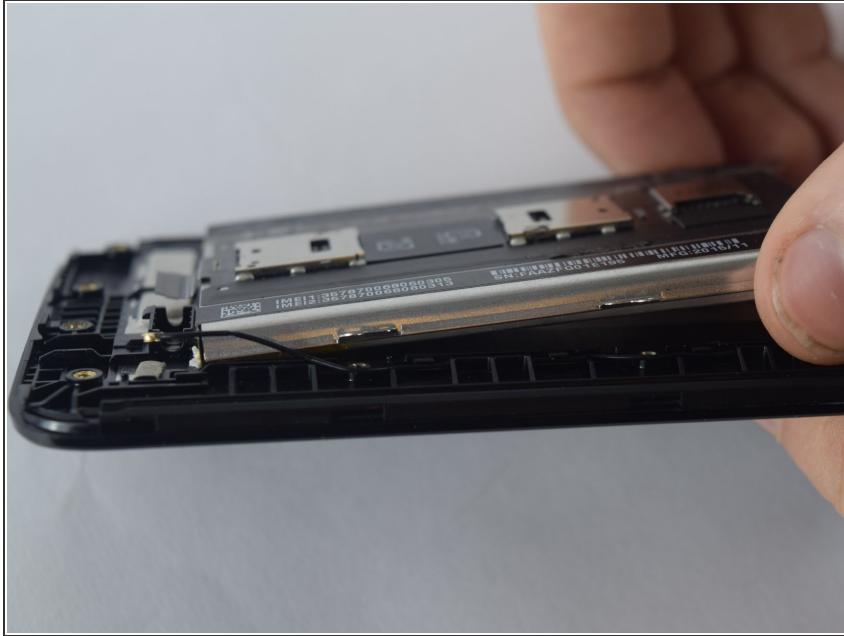
- Gently remove the circuit board from the phone by gently pulling it away from the bottom of the phone.

## Step 9 — Disconnect Ribbon Cables



- Using the plastic opening tool, disconnect the ribbon cables from their connectors by gently prying them up.

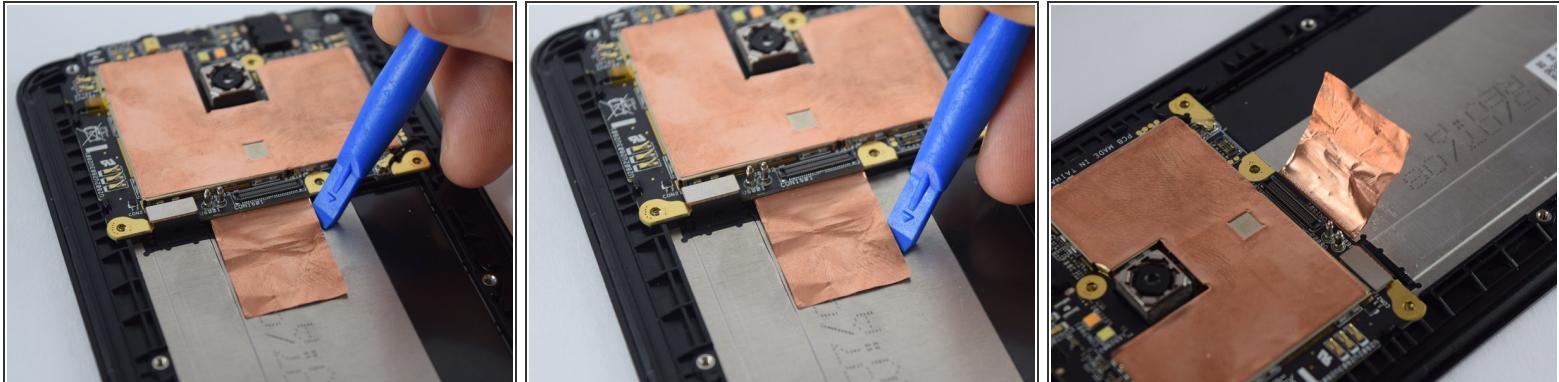
## Step 10 — Remove the Battery



- Carefully remove the battery pack from the phone using your hand. The battery is glued in place by a strip of adhesive on the top side so some force may be necessary.

 There are fragile tabs on the left and right side of the battery, be careful not to break them off.

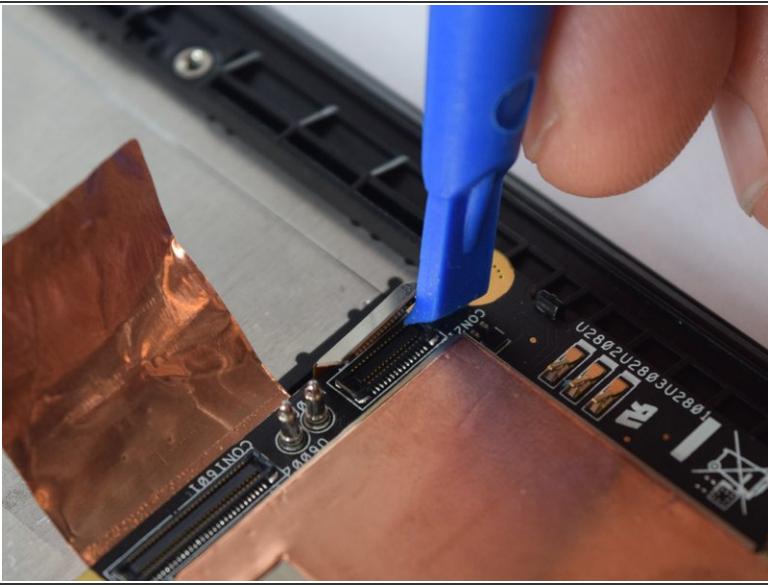
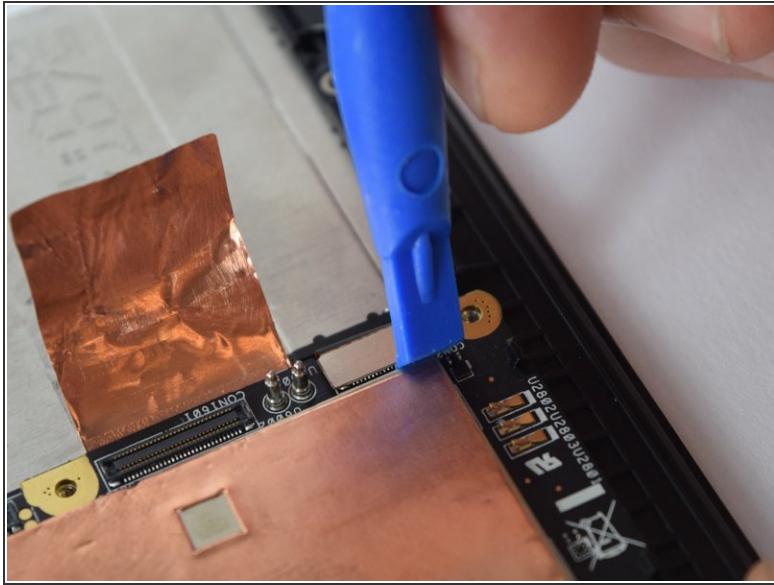
## Step 11 — Lift up the Copper Heat Strip



- Using a plastic opening tool, lift the copper sheet heat strip from the body of the phone by sticking the tool into one of the upper corner of the copper sheet and slowly sliding it along the edges.

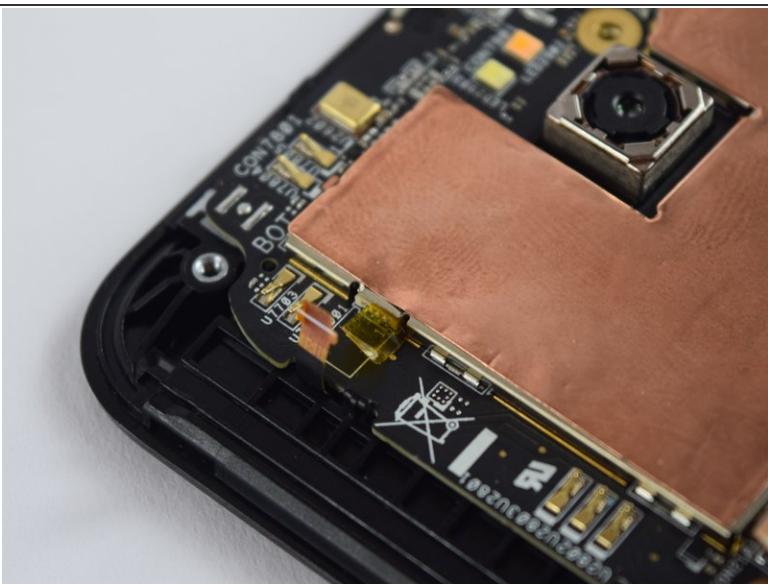
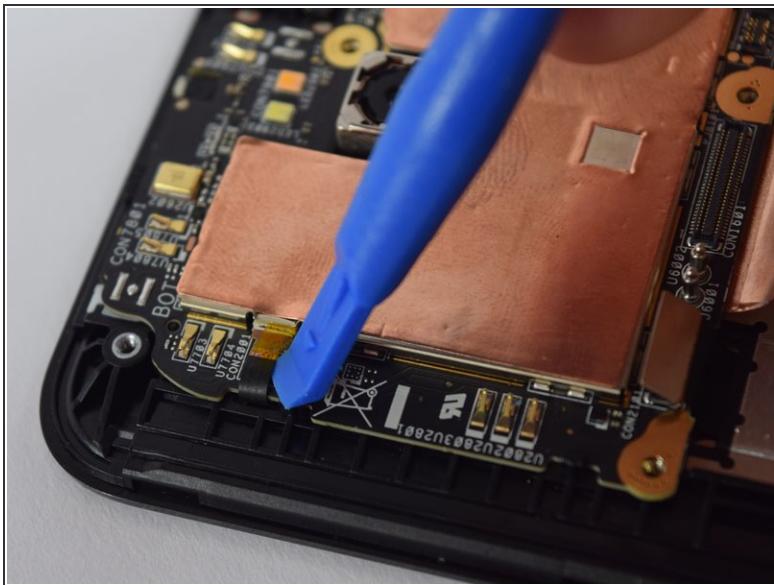
 Be careful not to rip the copper sheet.

## Step 12 — Detach the Motherboard Ribbon Cable



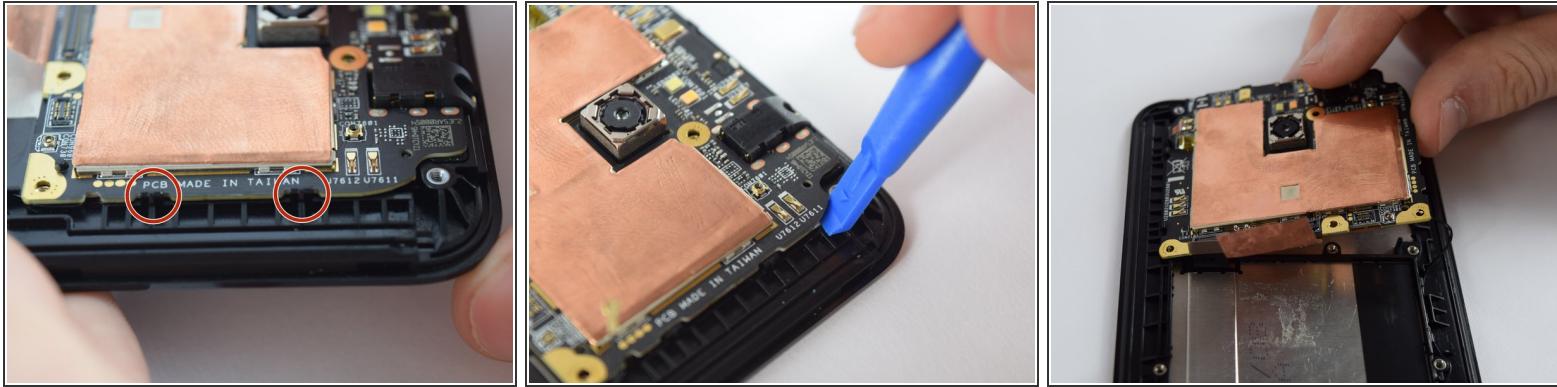
- Using a plastic opening tool, unplug the ribbon cable indicated in the picture.

## Step 13 — Detach the Screen Connector Ribbon Cable



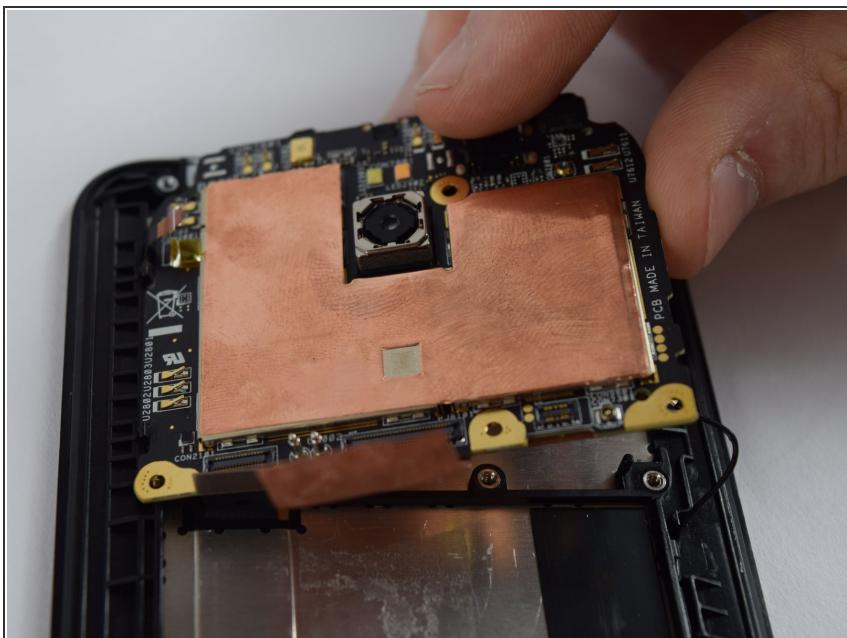
- Using a plastic opening tool, disconnect the display cable from the side of the motherboard by carefully sticking the tool underneath the display cable and gently pulling outward.

## Step 14 — Remove the Motherboard from the Retaining Clips



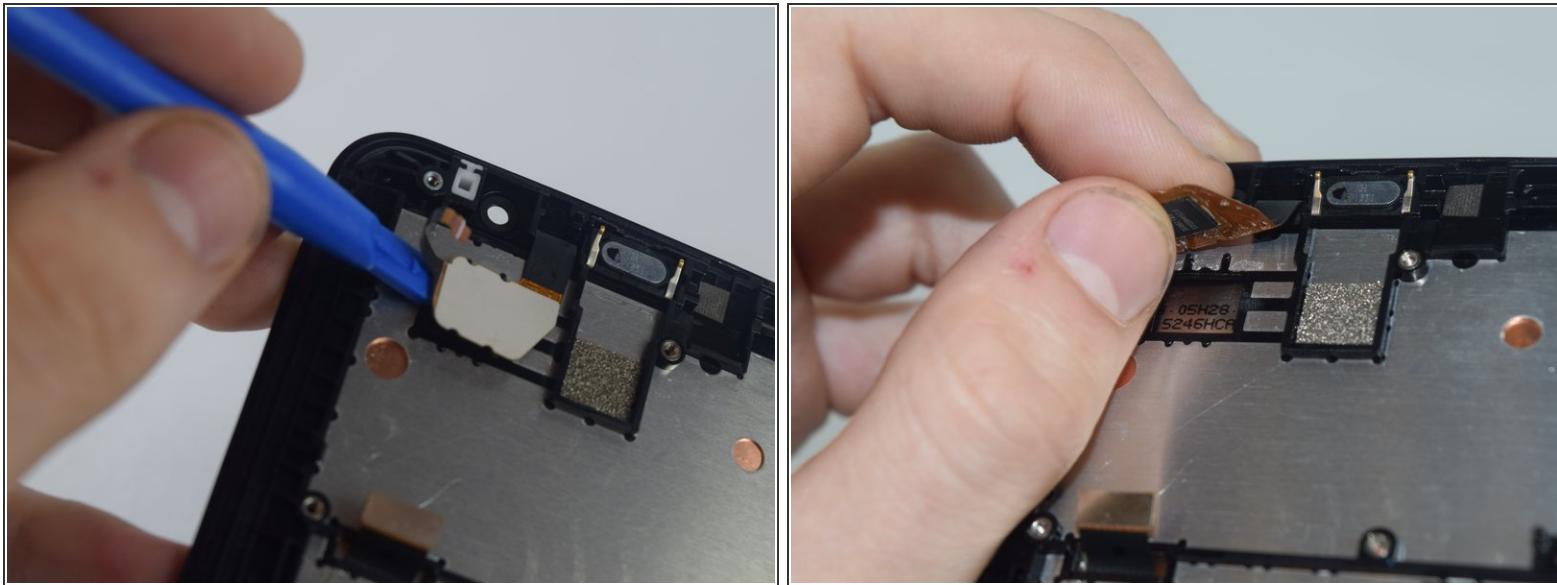
- There are four black plastic retainers, two on each side, that keep the motherboard fix in place. To get the motherboard out, stick a plastic opening tool under one top corner of the motherboard and carefully lift upward using a small amount of force to pop this side of the motherboard out of the plastic retainers.
- ⚠** Be careful not to break the black plastic retainers as these are needed to put the motherboard back in place.

## Step 15 — Finish Removing the Motherboard



- Once one side of the motherboard is out of the black plastic retainers, remove the whole motherboard from the phone.
- i** The motherboard should come out easily once one side of it is freed from the black plastic retainers.

## Step 16 — Display



- Using the plastic opening tool, pry the display cable from the body of the phone.

## Step 17



- Using a hair dryer or a heat gun, heat up the adhesive that attaches the display to the housing. The

adhesive lies around the edges of the display.

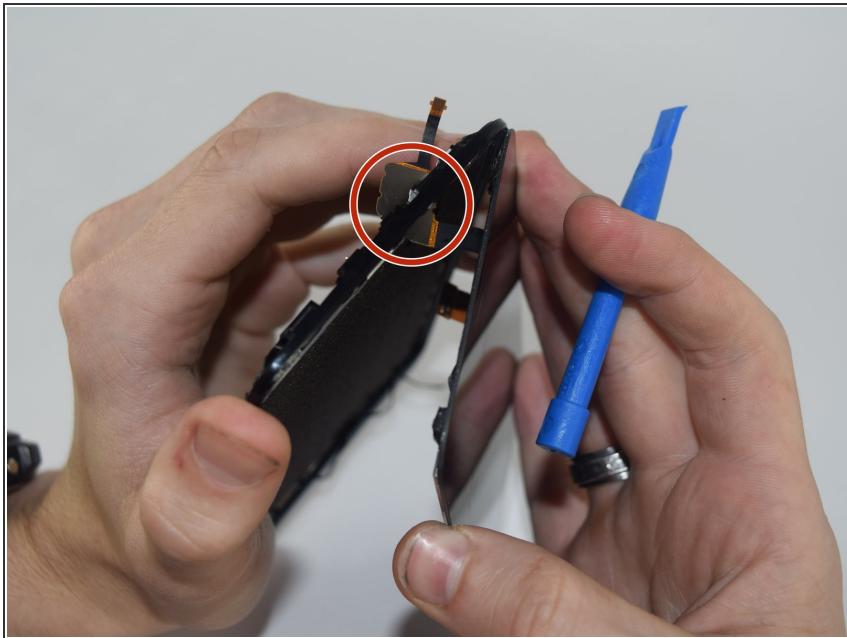
ⓘ Using a heat gun will allow you to melt the adhesive in about 30 seconds; whereas a hair dryer will take about 3-5 minutes to melt the adhesive.

## Step 18



- Using the plastic opening tool, pry off the display by inserting the tool in between the display and the housing at the edges of the phone.
  - Once the screen comes away from the backing, gently slide the opening tool around the edges while prying the rest of the screen away.
- ⚠ Be careful not to bend the screen too much, or it might break.

## Step 19



- Once the screen has been separated from the backing, remove the display cable out of the hole in the top of the phone body.

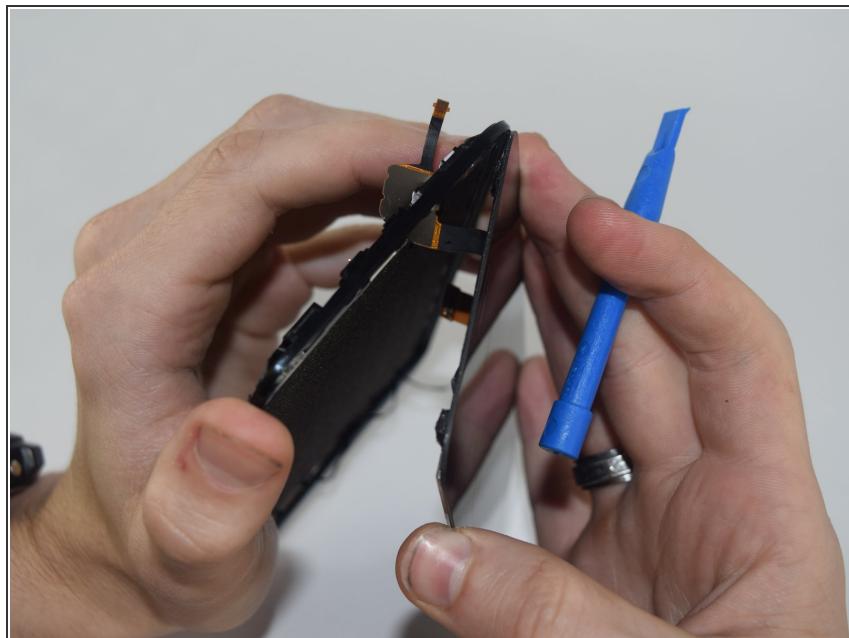
**i** You don't need to be careful removing this cable because it will be replaced by a new cable along with the new display. If you want to save it, rotate the display as you separate the display from the backing.

## Step 20



- Using a plastic opening tool, remove the speaker grill from the display.
  - Place it in its designated spot on the body of the phone.
- i** We recommend attaching the speaker grill to the actual body of the phone rather than the display.

## Step 21



- Carefully feed the antenna cables of the new display through the appropriate holes in the housing.
- Reattach the phone display with adhesive. You can either use the old adhesive (if it is in good enough condition), or newly purchased adhesive (2 mm thick, double sided).

Reassemble your device by following these instructions in reverse order.