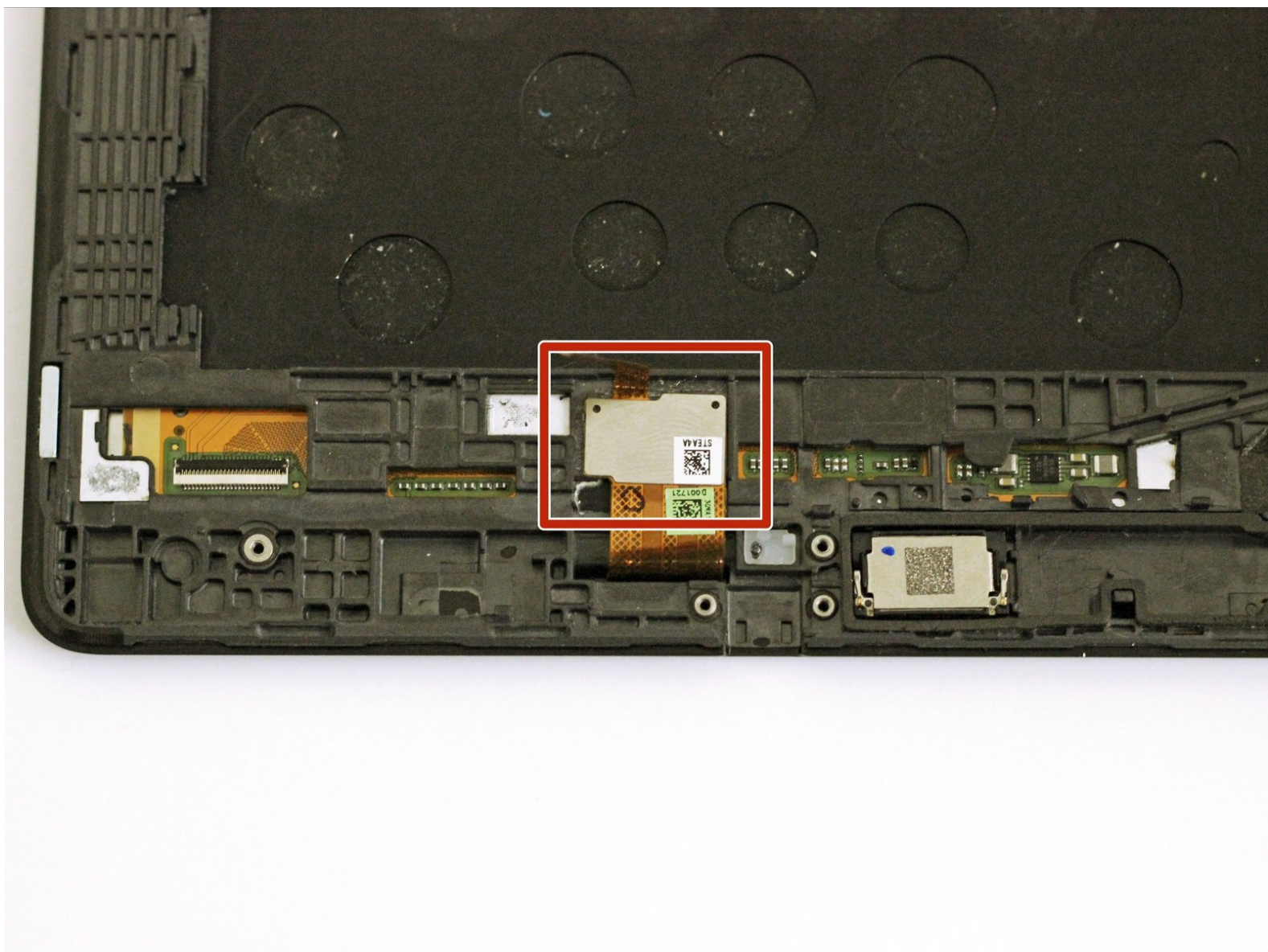




# Nexus 9 LCD Screen Replacement

This guide is designed to show the steps needed in order to completely dismantle the LCD from the display assembly.

Written By: Kelsey Rodriguez



# INTRODUCTION

This guide will take approximately two hours, and involves the use of the iOpener for the adhesive located inside the board to be removed. In addition, all components of this device must be removed before the LCD can actually be removed.



## TOOLS:

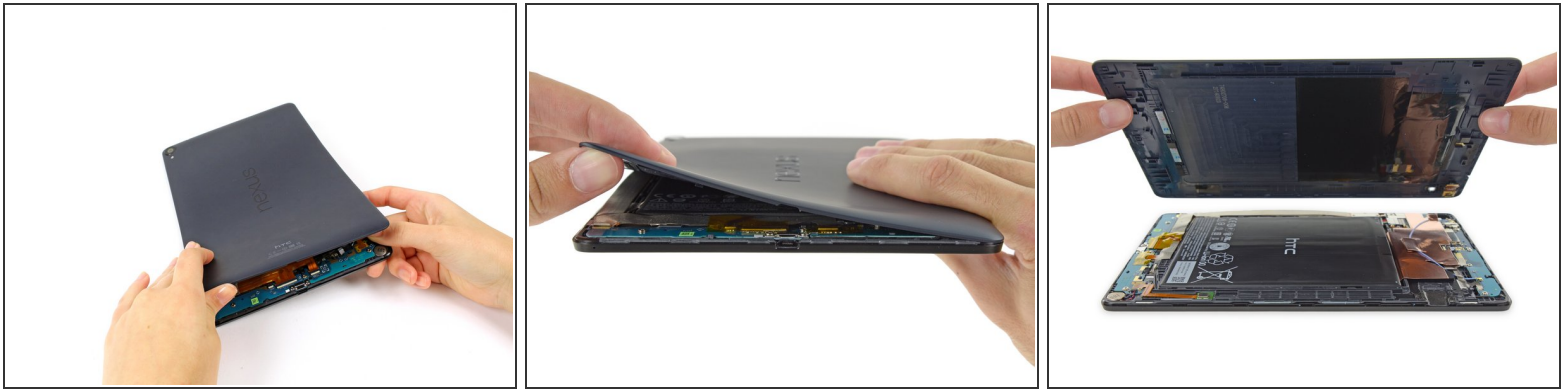
- [Spudger](#) (1)
- [Tweezers](#) (1)
- [iOpener](#) (1)
- [Phillips #000 Screwdriver](#) (1)
- [T5 Torx Screwdriver](#) (1)



## PARTS:

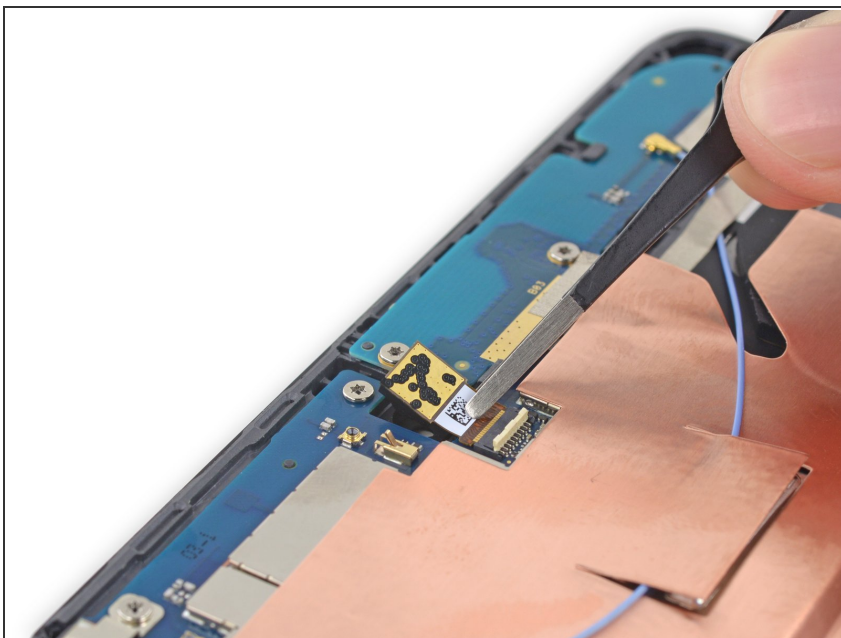
- [Nexus 9 Screen](#) (1)
- [Nexus 9 Rear Panel](#) (1)
- [Nexus 9 Front Camera](#) (1)
- [Nexus 9 Wi-Fi Antenna](#) (1)
- [Nexus 9 Vibrator Motor](#) (1)
- [Nexus 9 \(Wi-Fi\) Motherboard](#) (1)
- [Nexus 9 \(Wi-Fi\) Charging Assembly](#) (1)
- [Nexus 9 LCD Flex Cable](#) (1)

## Step 1 — Rear Case



- With your fingers, carefully pry off the back plastic casing. Starting at the corners is usually the easiest.
- ⓘ The rear-facing camera seems to fit a little too snugly in its compartment on the rear case; so make sure that it stays connected to the motherboard.

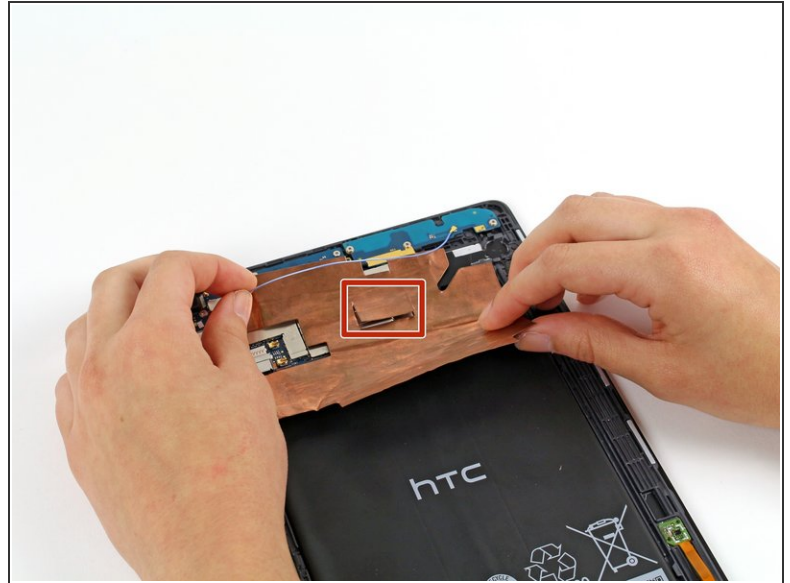
## Step 2 — Front Facing Camera



- Use a spudger to disconnect the front-facing camera ZIF connector.
- Use a pair of tweezers to gently lift the front-facing camera up from the motherboard.



## Step 3 — Battery



- Carefully peel up the copper shielding with your fingers.
- Before fully removing the copper shielding, make sure that the blue antenna cable is out of the way of the copper tab.

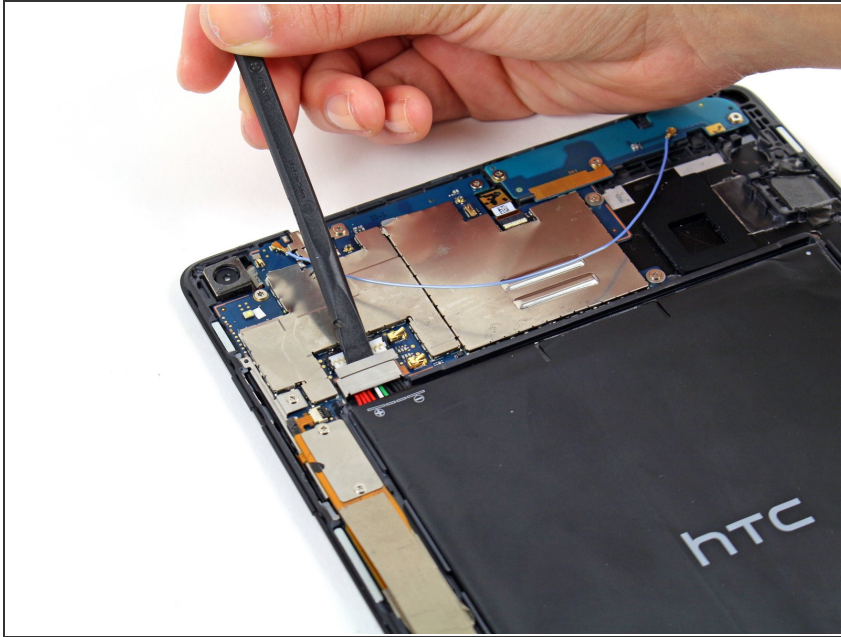
## Step 4



- Using the spudger tool, carefully remove the bottom of the battery from its location below the logic boards.
- The battery is attached to the motherboard with some adhesive, so you may need an iOpener to loosen up the adhesive. Check out the [iOpener guide](#) for info on how to do it.

- Do not pull the battery from the tablet yet, as it is still connected to the motherboard.

## Step 5



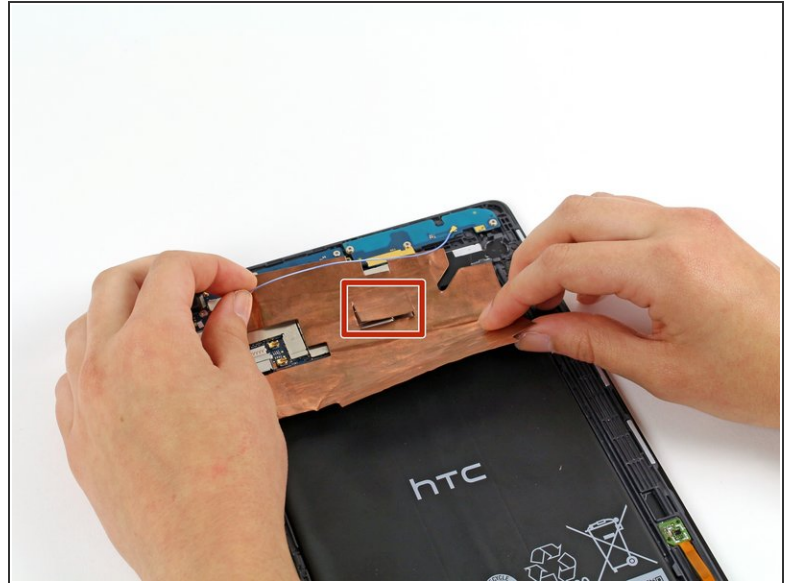
- Now remove the metal clip covering the battery's connector cable located above the top left of the battery with the spudger.
- After the metal clip is wiggled free, the battery's connector cable can be easily removed by just gently tugging it free.

## Step 6



- The battery should now lift free of the tablet.

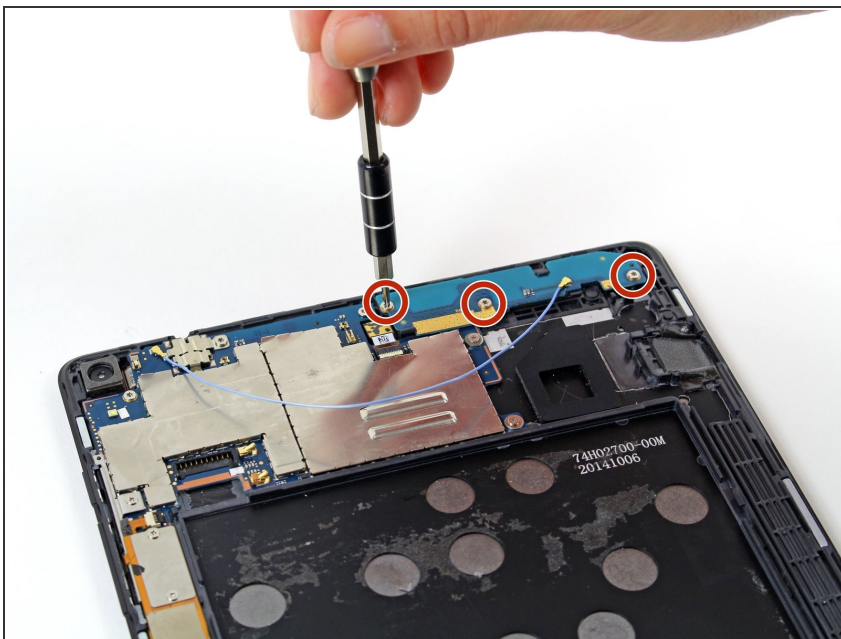
## Step 7 — Antenna Board



✦ This step is **not** necessary if you have already removed the battery.

- Carefully peel up the copper shielding with your fingers.
- Before fully removing the copper shielding, make sure that the blue antenna cable is out of the way of the copper tab.

## Step 8



- Unscrew the three 3 mm Torx T5 screws on the antenna board.
- ⓘ This step and the next show the battery removed, but it is **not** necessary to remove it if you are only replacing the antenna board.

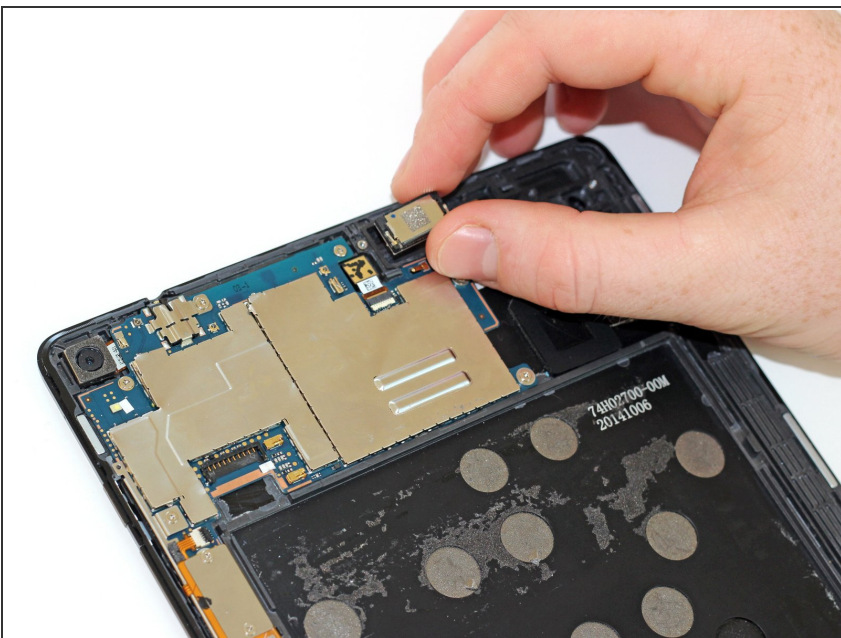


## Step 9



- Use your fingers or a pair of tweezers to disconnect the blue antenna cable from the motherboard.
- ⚠ When reinstalling the antenna, be sure to clean it with a degreaser such as windex or isopropyl alcohol. The oils on your fingers have the potential to create wireless interference.
- The antenna board should now lift free of the motherboard.

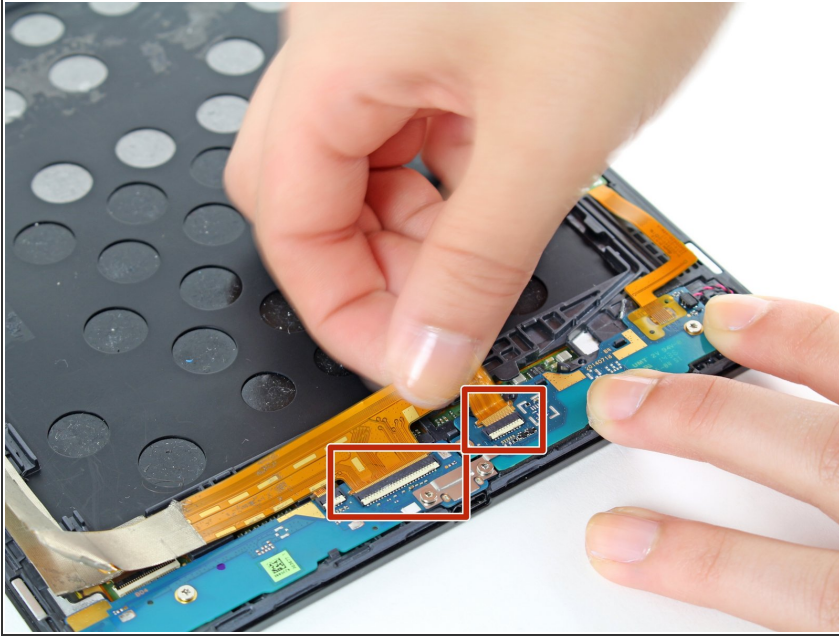
## Step 10 — Speakers



- Use a spudger or your fingers to remove the first speaker. The speaker may be heavily glued in and

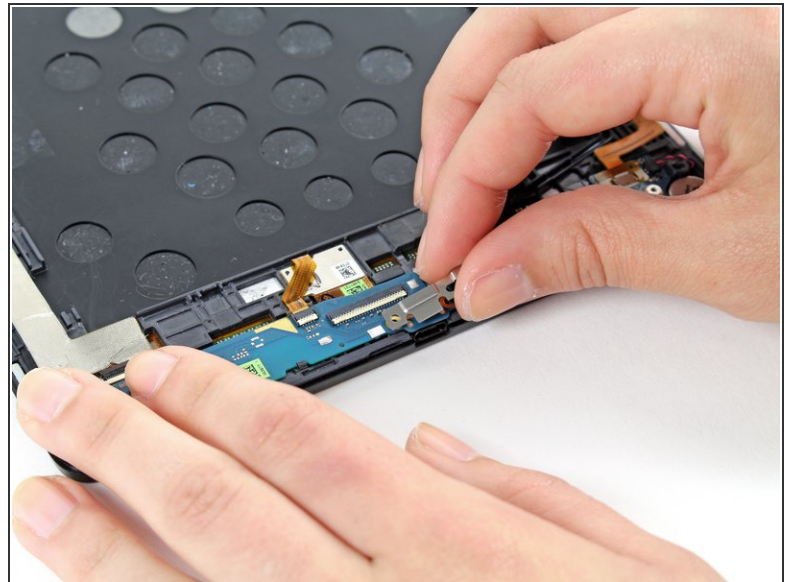
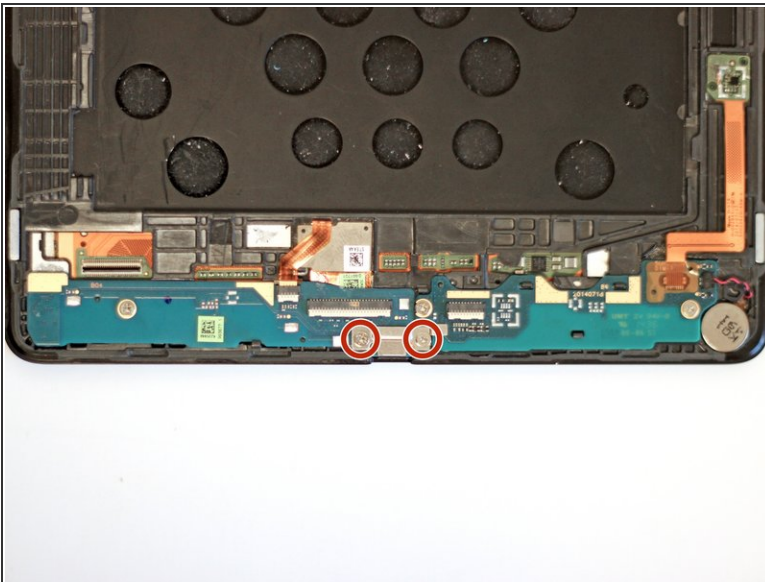
require heat to lift. Be careful as you can pull the speaker apart.

## Step 11



- Disconnect the two ZIF connectors attached to the daughterboards.
- Gently pull on the ribbon cable to remove it.

## Step 12

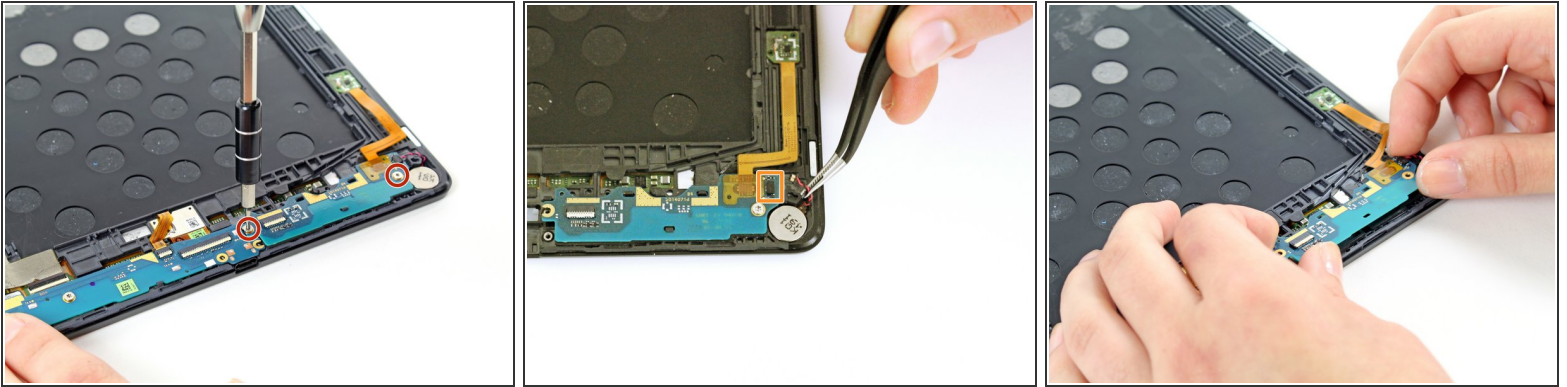


- Remove the two 3mm T5 Torx screws securing the metal USB port bracket.
- Use your fingers or a pair of tweezers to remove the bracket.

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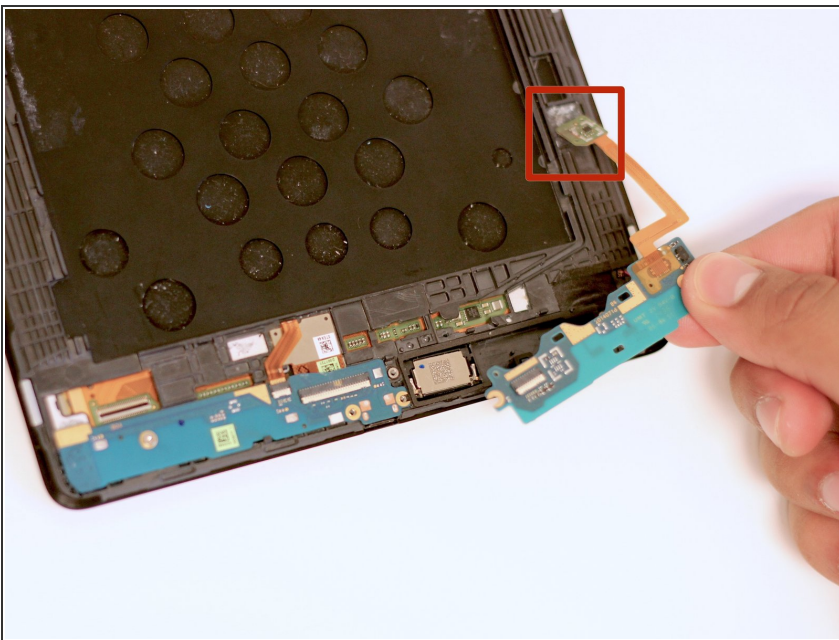


## Step 13



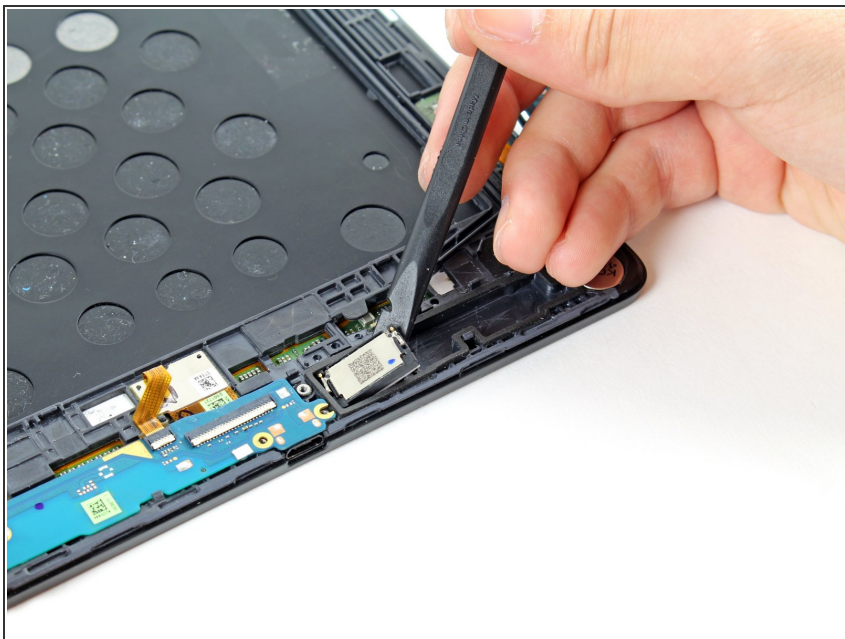
- Unscrew the two 3mm T5 Torx screws securing the daughterboard to the device.
- Use a pair of tweezers to disconnect the vibrator cable. It will lift straight up from the daughterboard connector.
- Use your fingers to lift the daughterboard upward and out of the device.

## Step 14



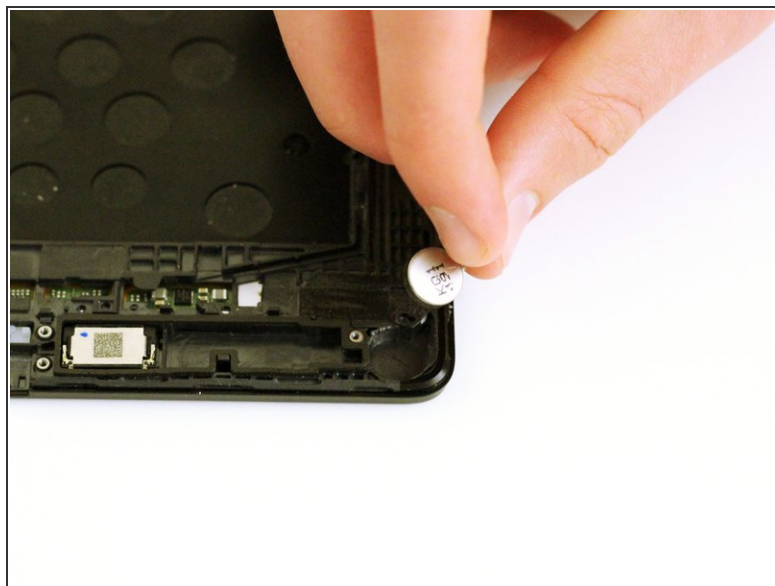
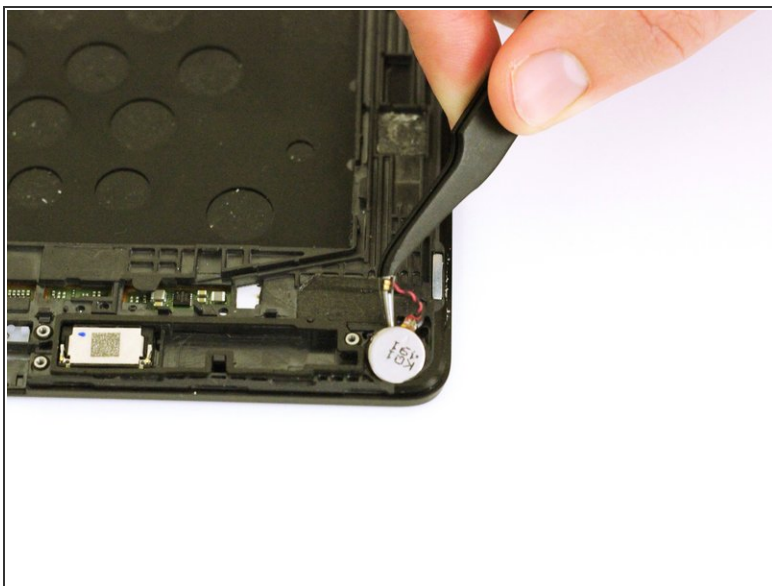
- The daughterboard has an orange ribbon cable that is adhered to the device. Gently pull the ribbon up and remove the daughterboard.

## Step 15



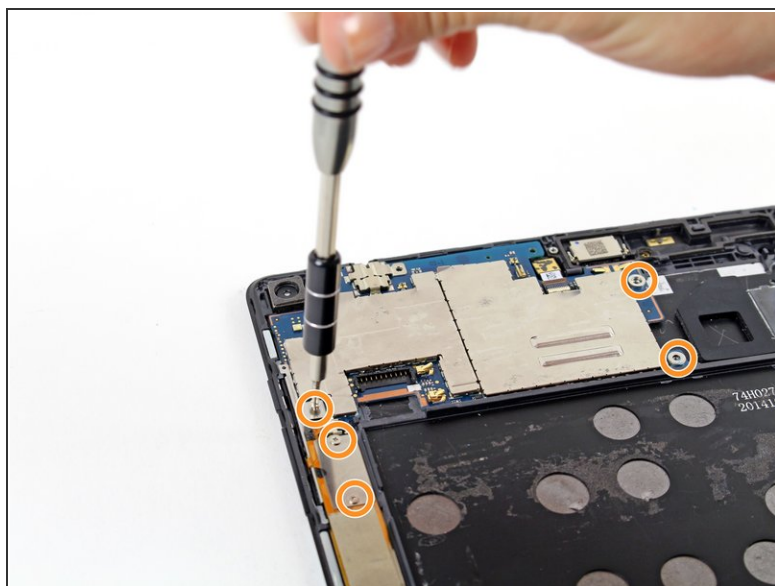
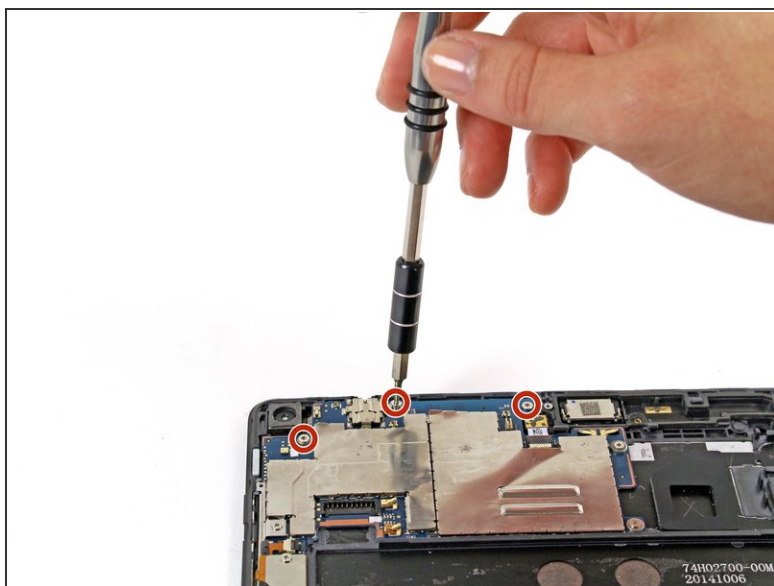
- Use a spudger to remove the second speaker.

## Step 16 — Vibrator



- Use a pair of tweezers to remove the vibrator from the device.

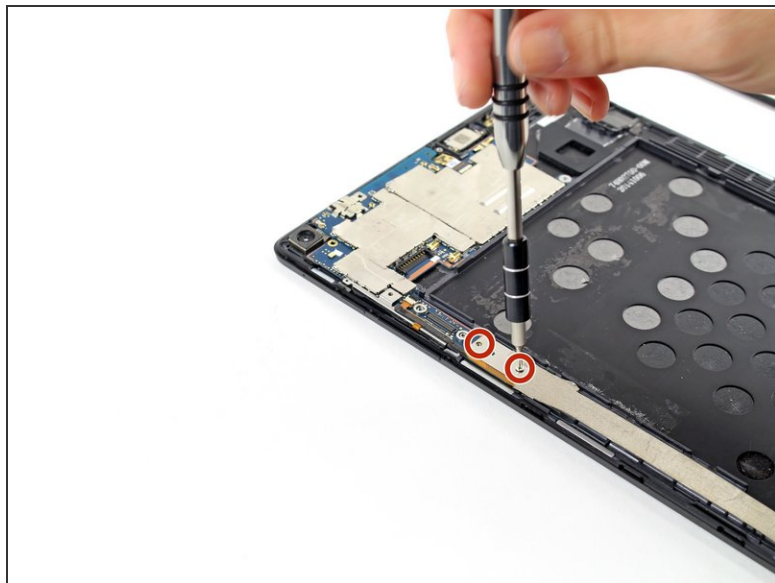
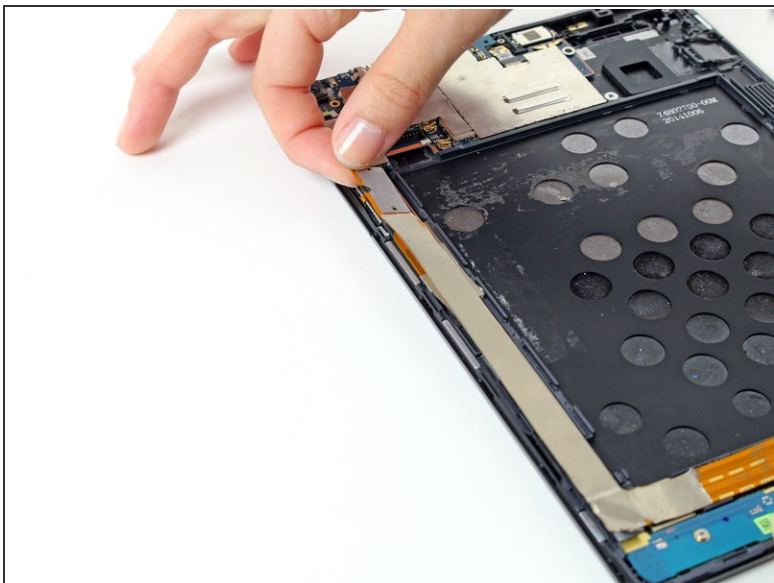
## Step 17 — Motherboard



- Remove the three 3 mm T5 Torx screws.
- Remove the five 2 mm Phillips #000 screws.

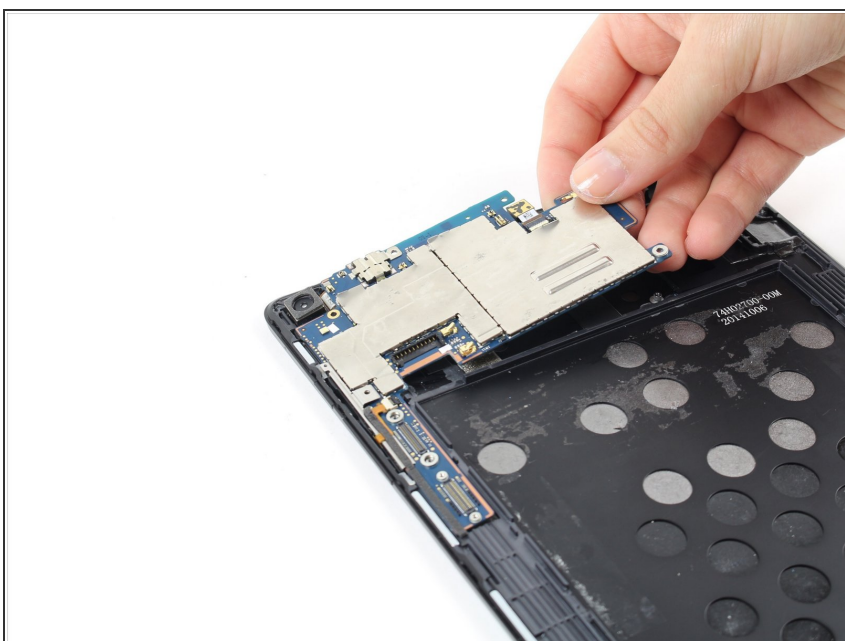


## Step 18



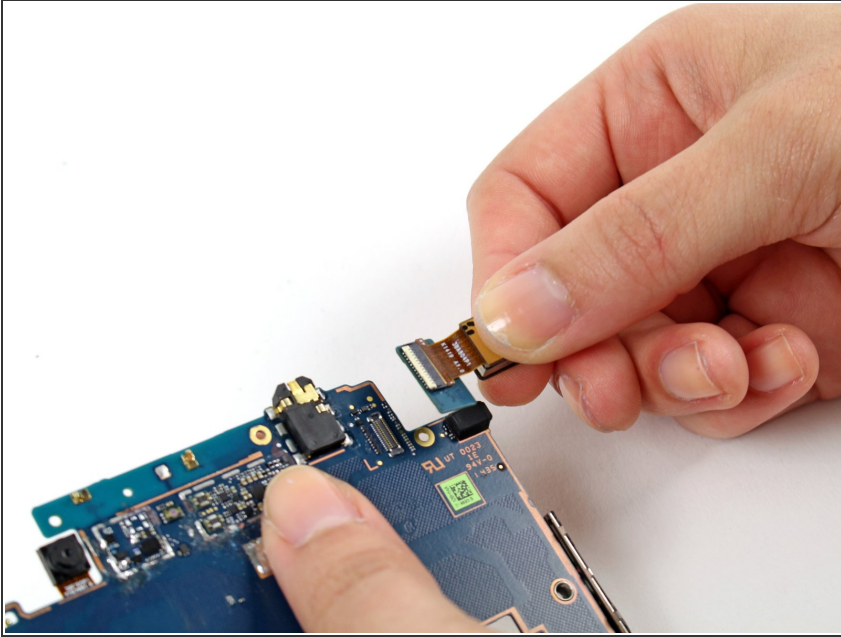
- Using your fingers, pull up on ribbon connector to expose another ribbon connector below.
- Remove the two 2 mm Phillips #000 screws on top of the second ribbon connector.
- Pull up the ribbon connector with your fingers.

## Step 19



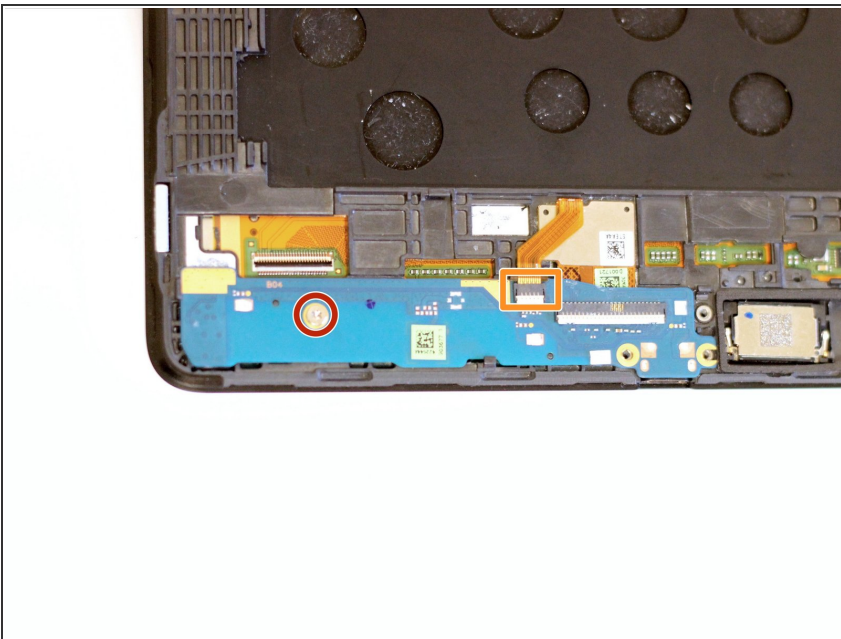
- Gently lift the motherboard up from the device.

## Step 20



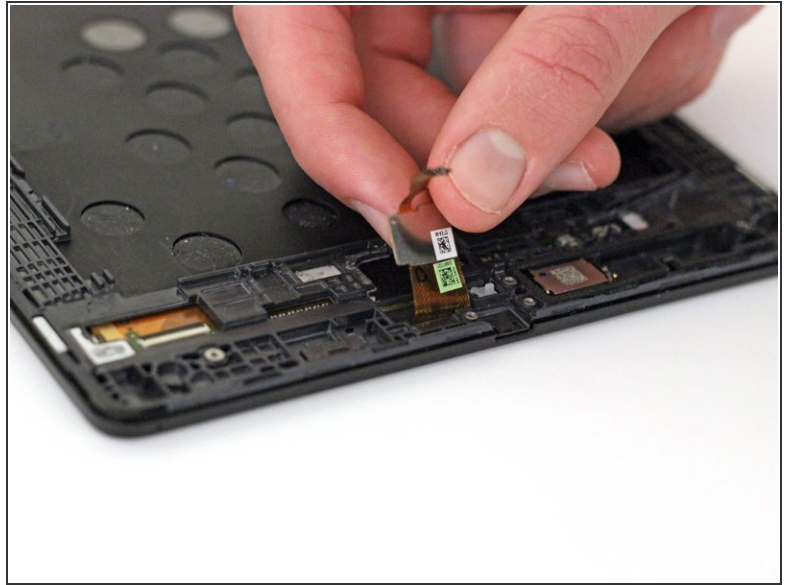
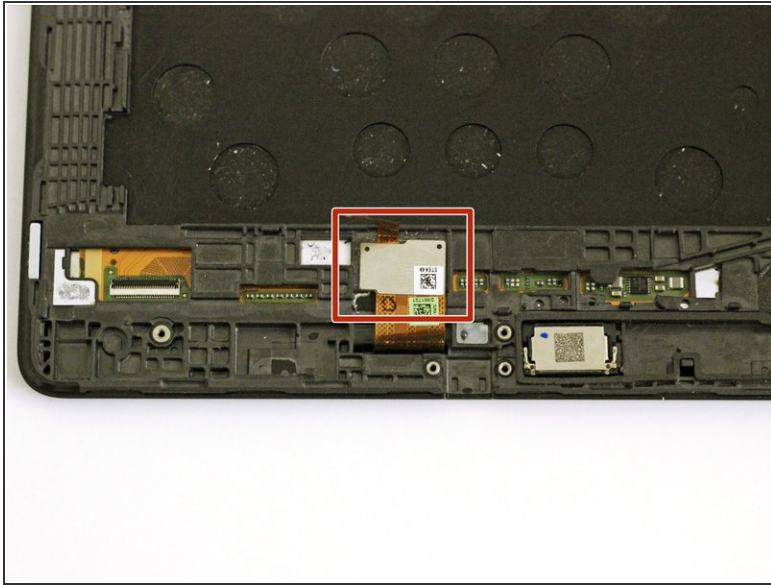
- Refer to the [rear-facing camera replacement guide](#) to remove the rear-facing camera from the motherboard and transfer it to the new one.
- The motherboard remains.

## Step 21 — USB Daughterboard



- Remove the single 3mm T5 Torx screw.
- Use a spudger to disconnect the display ribbon cable ZIF connector.
- Gently lift the USB daughterboard up from the device.

## Step 22 — LCD Screen



- Use a spudger or your fingers to remove the LCD connector from the display assembly.



## Step 23



**i** We recommend that you clean your microwave before proceeding, as any nasty gunk on the bottom may end up stuck to the iOpener.

- Place the iOpener in the center of the microwave.

**!** For carousel microwaves: Make sure the plate spins freely. If your iOpener gets stuck, it may overheat and burn.

## Step 24



- Heat the iOpener for **thirty seconds**.
- Throughout the repair procedure, as the iOpener cools, reheat it in the microwave for an additional thirty seconds at a time.

- ⚠ Be careful not to overheat the iOpener during the repair. Overheating may cause the iOpener to burst.
- ⚠ Never touch the iOpener if it appears swollen.
- ⚠ Always wait at least three minutes before reheating the iOpener.

## Step 25



- Remove the iOpener from the microwave, holding it by one of the two flat ends to avoid the hot center.
- ⚠ The iOpener will be very hot, so be careful when handling it. Use an oven mitt if necessary.

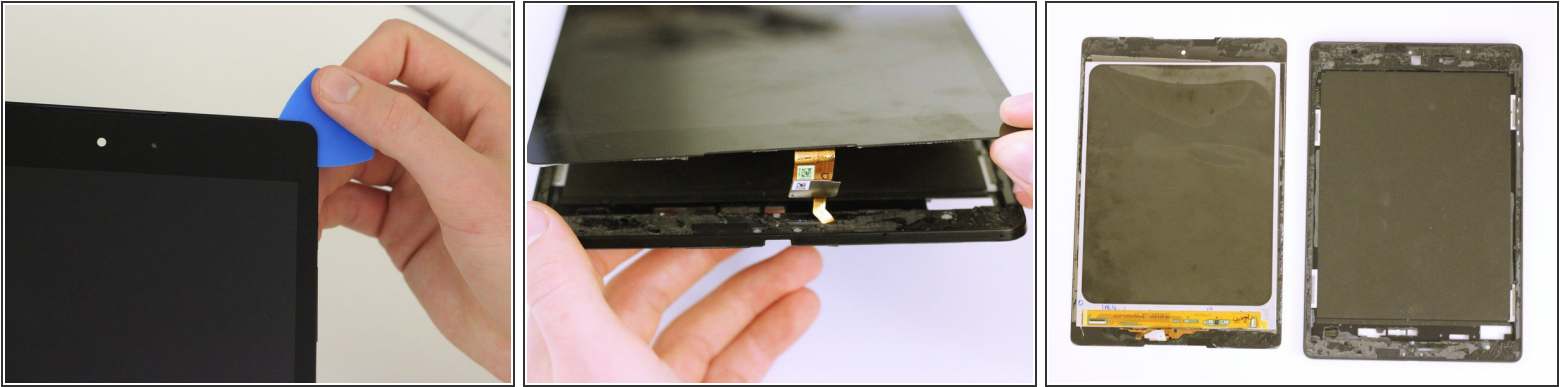
## Step 26



- Place the iOpener on the sides of the LCD where the adhesive is located beneath.
- Let the iOpener sit for at least a minute to soften the adhesive beneath the glass.
- This should be repeated for every side of the tablet, and each side will most likely need to be heated more than once.



## Step 27



- Using the picks located in the iOpener Kit, insert the picks into the corners of the tablet, and move it back and forth along the sides of tablet.
- Do this for every corner of the tablet until it is possible to pull the LCD from the display assembly with your finger.

**⚠ Carefully remove the LCD from the display assembly because there is a ribbon located at the bottom that could be ripped with force.**

- The LCD should come completely free from the back assembly now by just leading the ribbon through the opening in the display assembly.

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