



# Nexus 4 Motherboard Replacement

Remove the motherboard from your Nexus 4.

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# INTRODUCTION

This guide details how to remove the motherboard from your Nexus 4.



## TOOLS:

- [Phillips #00 Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)
- [Spudger](#) (1)
- [T5 Torx Screwdriver](#) (1)



## PARTS:

- [Nexus 4 \(GSM\) Motherboard](#) (1)

## Step 1 — Back Cover



- Power off the phone, by long-pressing the power button and touching *Power off*.
- Remove the SIM tray using the [SIM Card Eject Tool](#).
- ☑ This step is required in order to remove the back case.

## Step 2



- Remove the two screws from the bottom of the phone with a [T5 Torx Screwdriver](#).



### Step 3



- Gently open the back case by prying along the edge of the cover, starting at a corner of the phone and circling around the phone using a [plastic opening tool](#).
- ⓘ The opening process may take a few minutes. The plastic will make a light snapping noise as the back cover separates from the rest of the phone.

### Step 4 — Battery



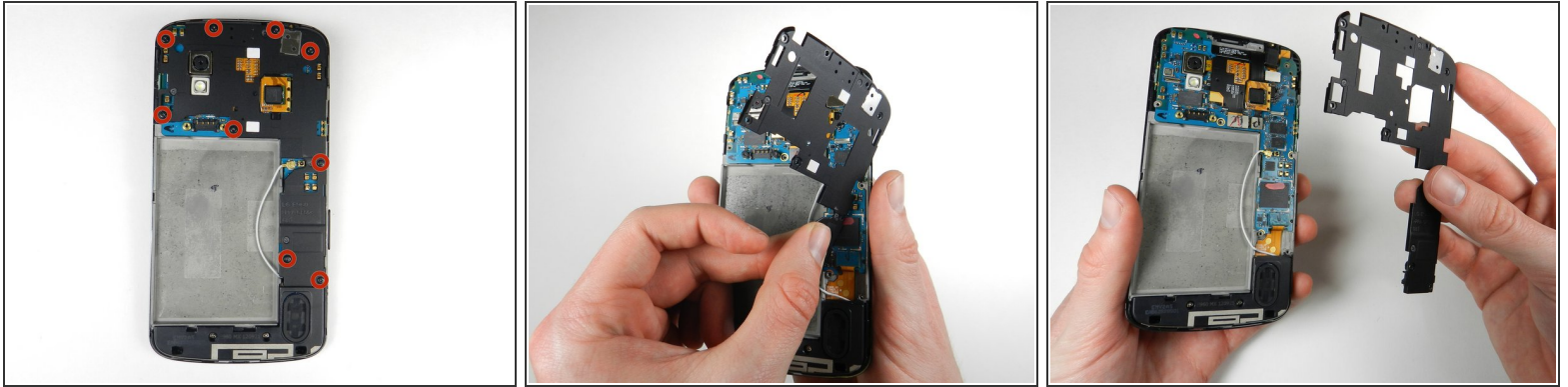
- Remove the two 1.8 mm Phillips screws holding down the battery connector.
- Using a plastic opening tool, disconnect the battery cable from its socket on the motherboard.

## Step 5 — Battery removal



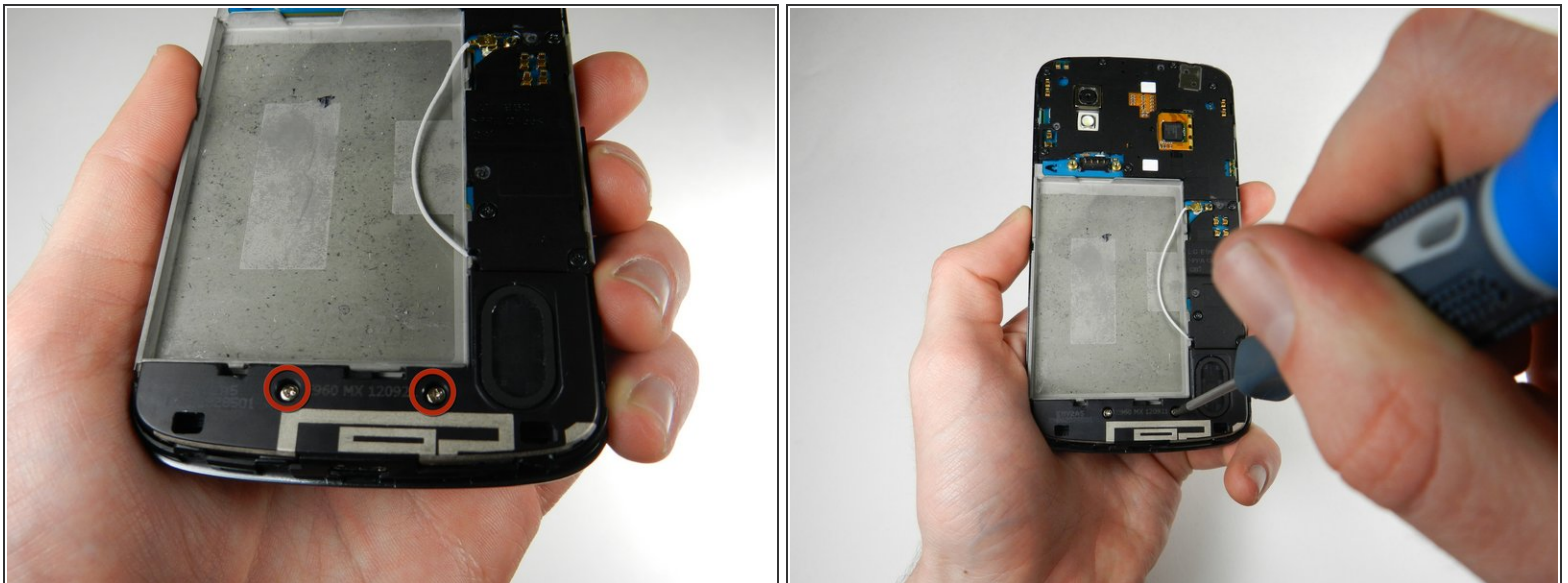
- Remove the blue tape that secures the white antenna cable to the battery.
- Using a spudger, carefully disconnect the white antenna cable.
- Carefully pry the battery out with a [Plastic Opening Tool](#), starting at the top left-hand corner and working down towards the bottom right-hand corner.
- ⓘ If necessary, you can also use a [plastic card](#) to separate the battery from the metal midframe.
- ✦ The battery is securely glued to the phone. When reinstalling the battery, press the battery firmly against the adhesive strip.

## Step 6 — Plastic Midframe



- Remove the nine 4.6 mm Phillips #000 screws. Gently lift out the plastic cover.
- The midframe is held in with two clips, one at either side. Use a plastic spudger to release each side and gently lift up and away.

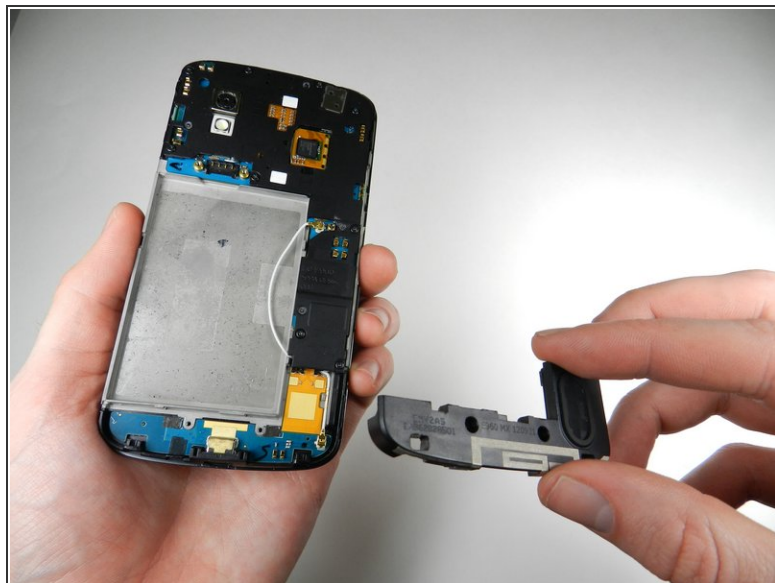
## Step 7 — Speaker



- Remove the two 4.8 mm screws that hold the speaker enclosure together using the Phillips 00 screwdriver.

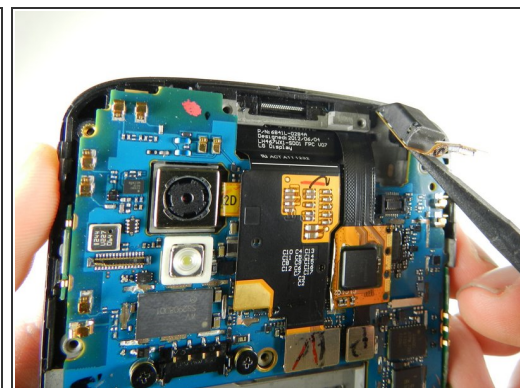
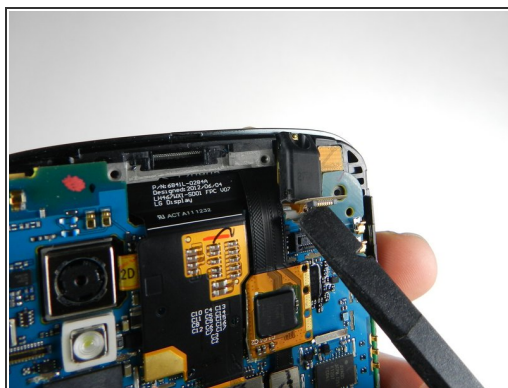
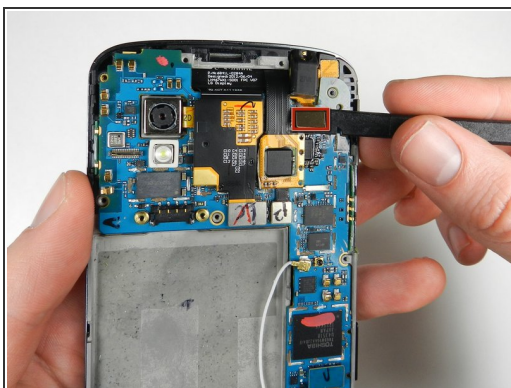


## Step 8



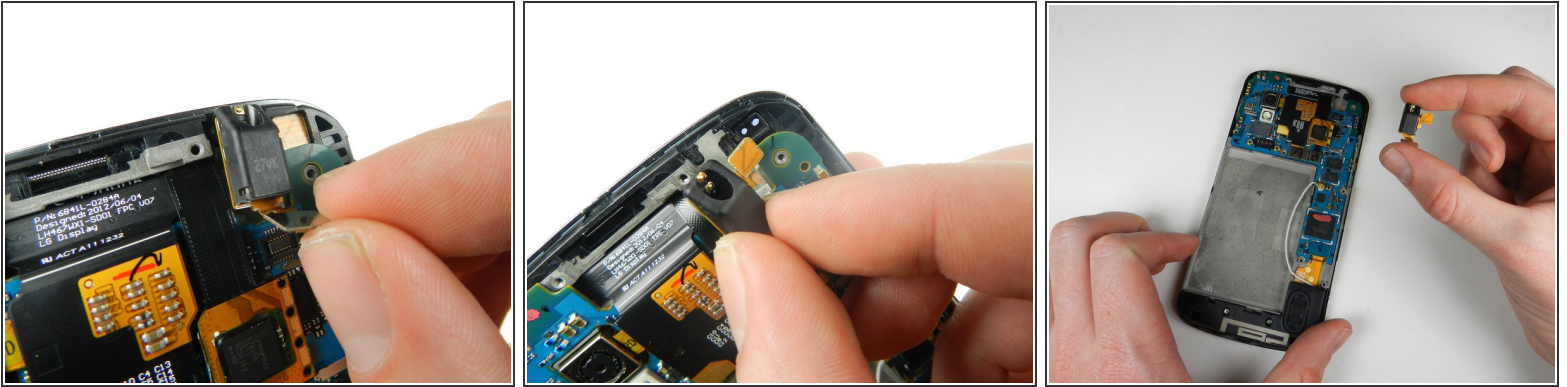
- Gently pry the speaker up and away from the back of the phone using a plastic opening tool, and lift it out of the phone.

## Step 9 — Audio Jack



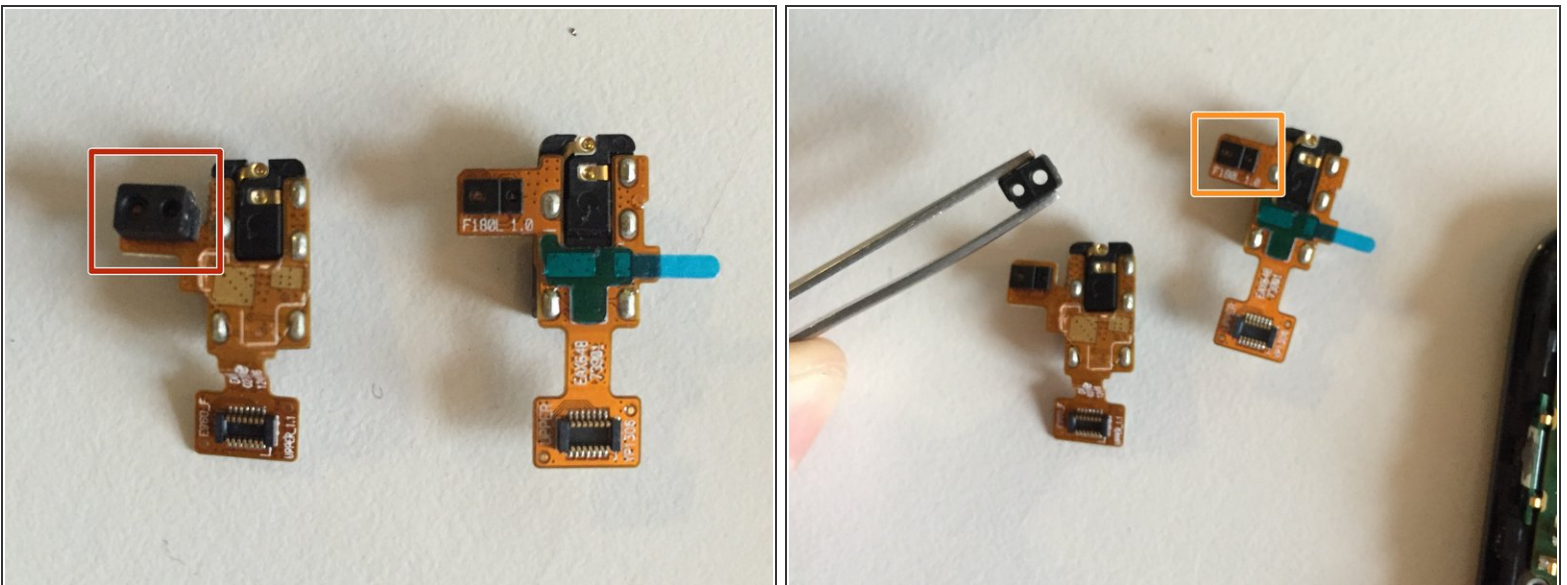
- Using a spudger, pop off the gray connector on the top right of the motherboard.

## Step 10



- Gently lift the audio jack upwards and to the left to remove it from the motherboard.

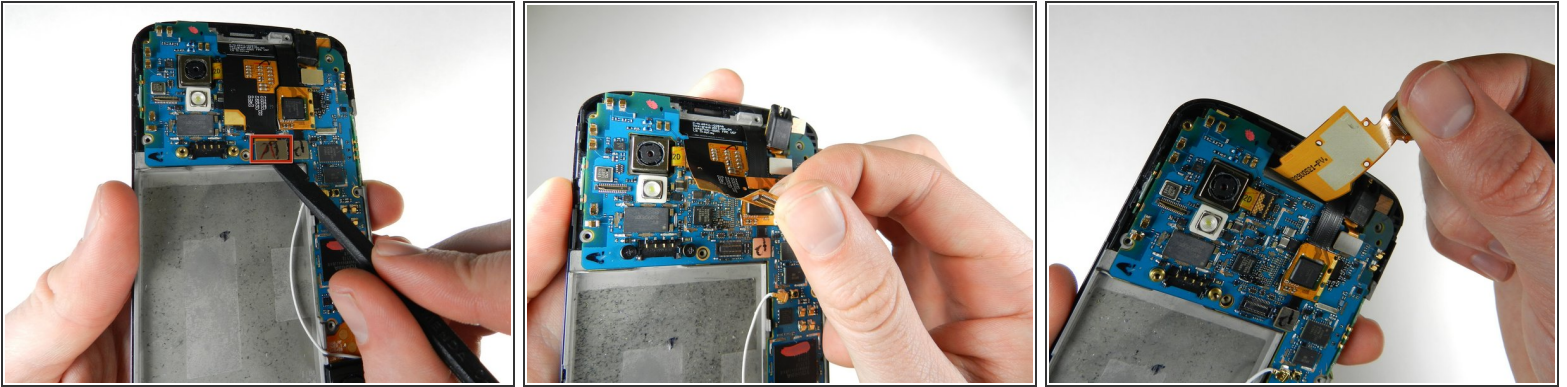
## Step 11



- The audio port will likely lift out together with the ambient light sensor rubber cap.
- Remove the cap from the old part and move it to the new one. Ensure the cap stays in place when installing the new audio port into the phone.

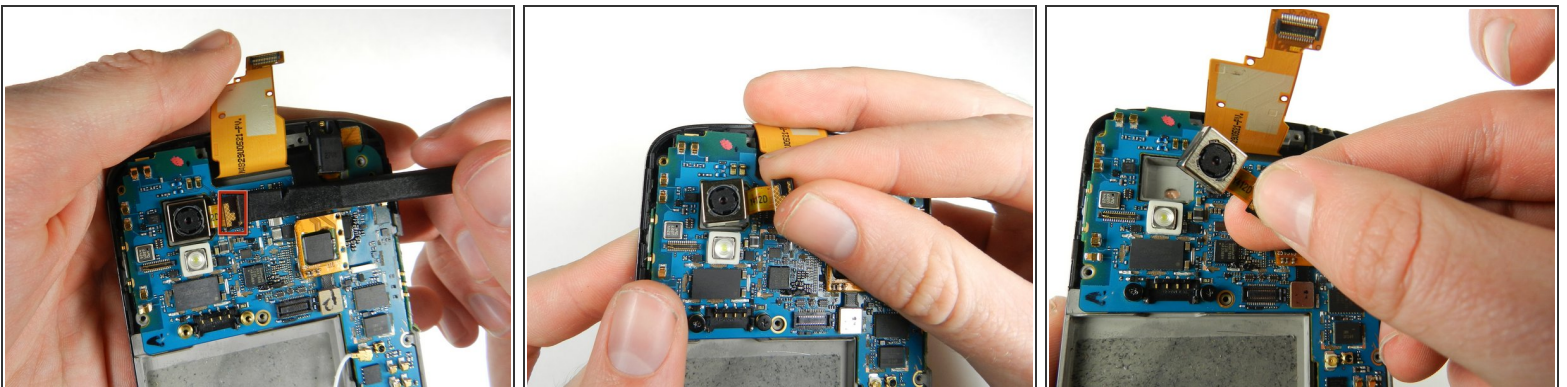


## Step 12 — Camera



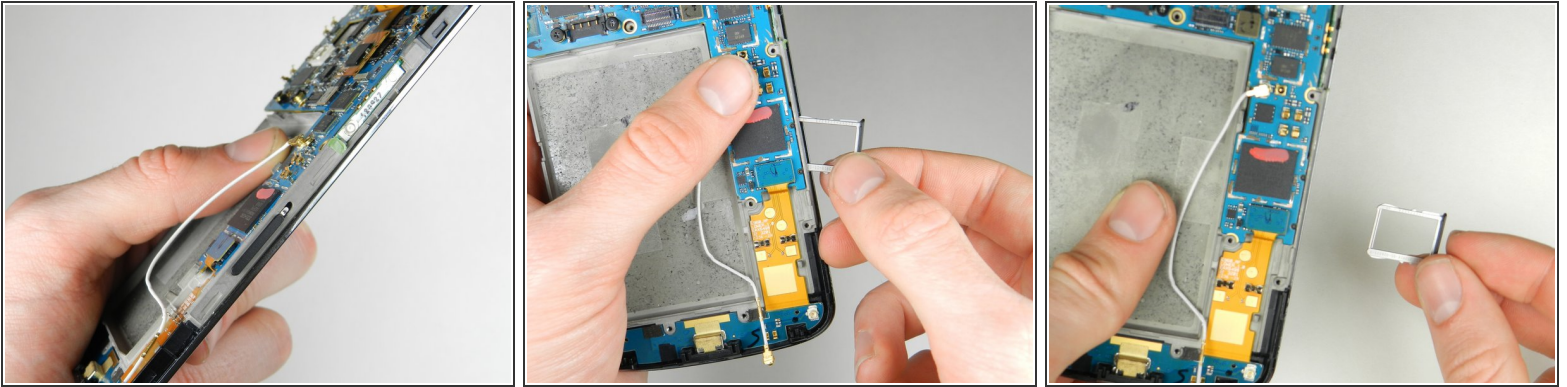
- Gently pry the metal tab up using a spudger, and lift up the disconnected black flap.

## Step 13



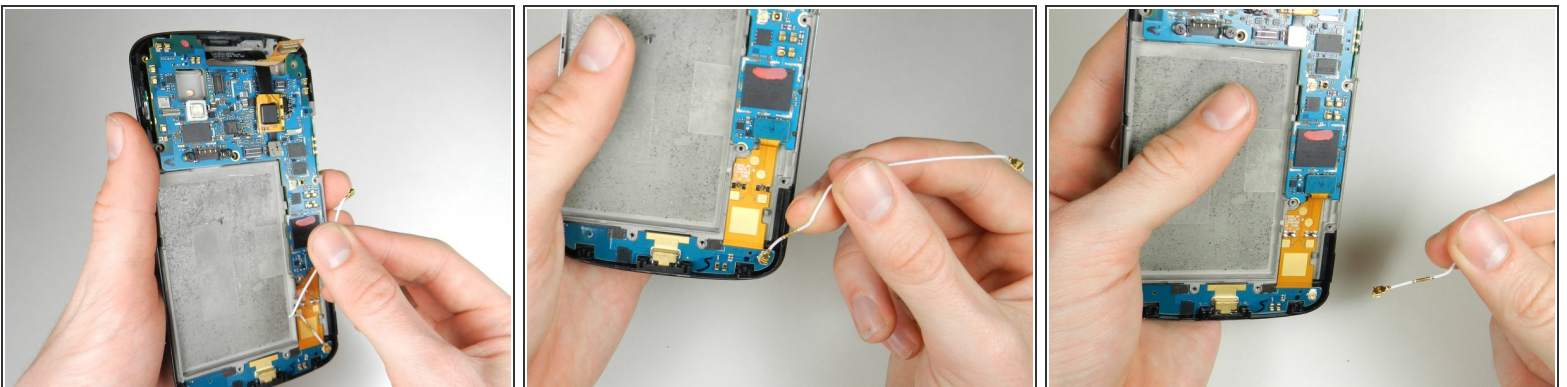
- With a spudger, carefully pry up the black tab connecting the camera to the motherboard.
- Lift up the camera from the socket.

## Step 14 — Motherboard



- Remove the Sim Card and the Sim Card metal tray.

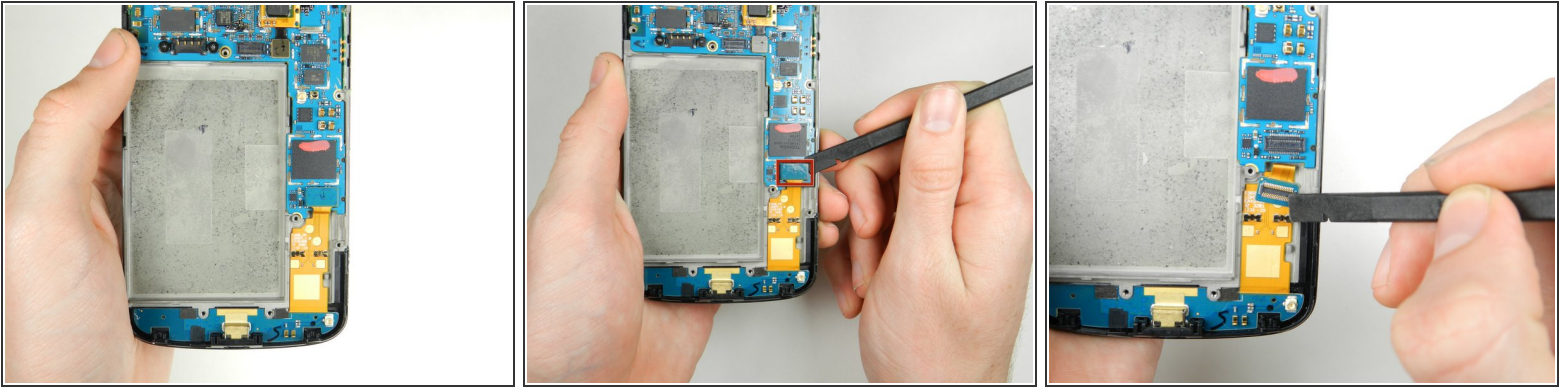
## Step 15



- Remove the white antenna interconnect cable that attaches the motherboard to the bottom right-hand corner of phone by pulling on it gently.

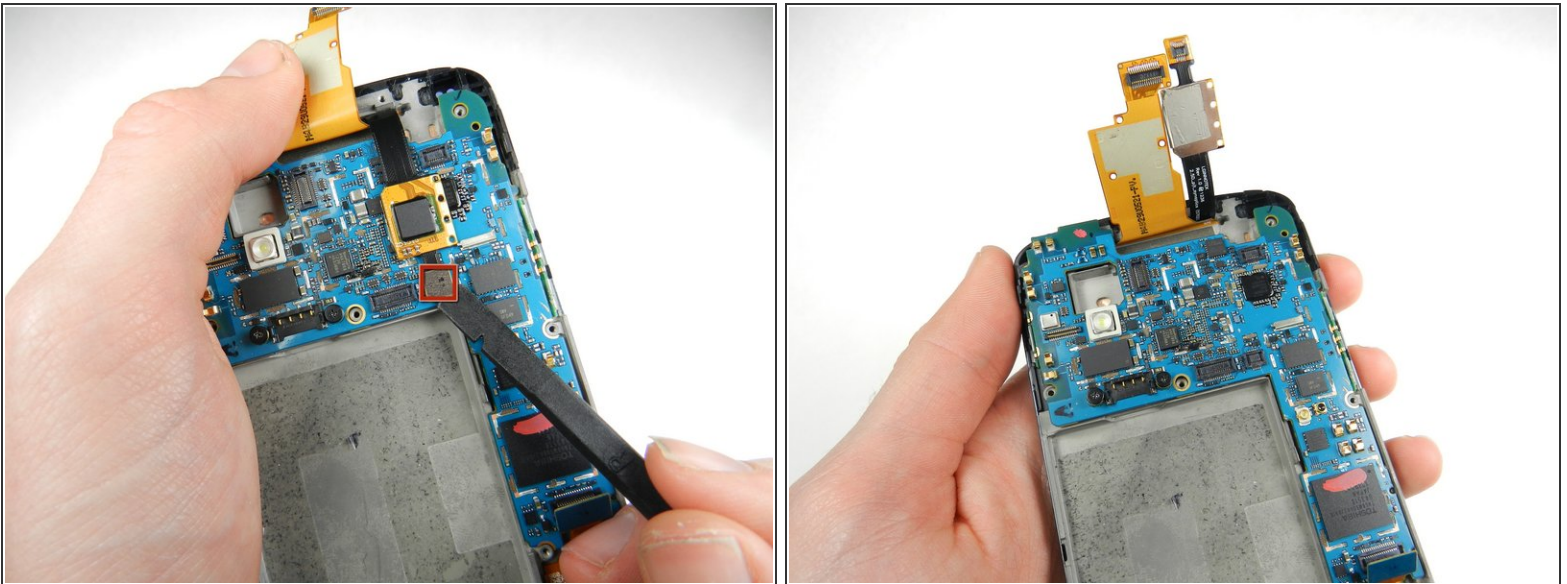


## Step 16



- Remove the tab located in the bottom right-hand corner of the motherboard attaching the motherboard to the front display assembly using a spudger.

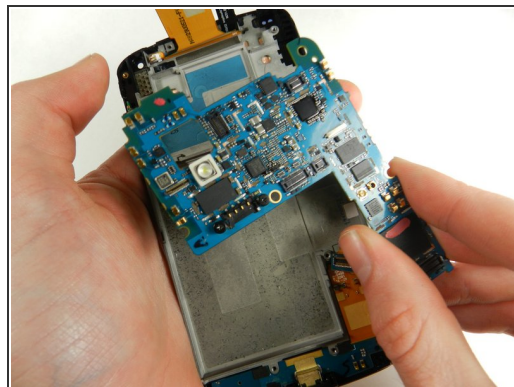
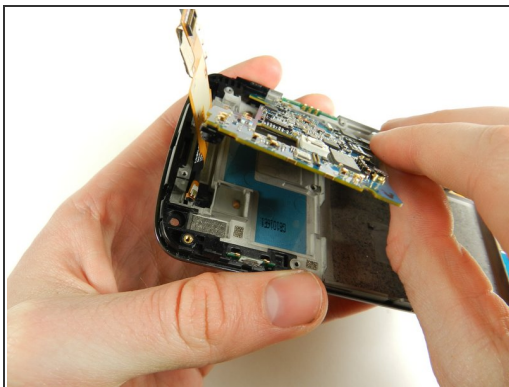
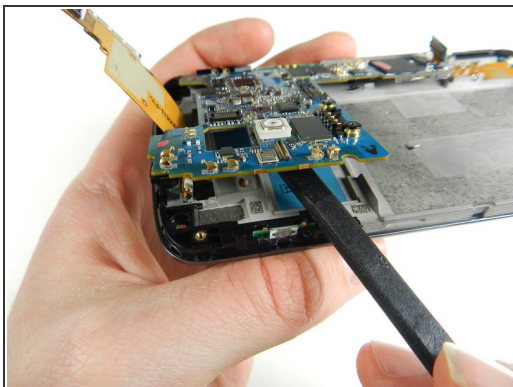
## Step 17



- Remove the last tab connecting the motherboard to the front display assembly located in the upper right-hand corner of the motherboard using a spudger.
- ⓘ Once this tab is removed, the flap will be free and will spring away from the motherboard.



## Step 18



- Using a spudger, gently lift up the motherboard from the front display assembly.
- Carefully remove the motherboard using your hands.

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