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 Tool (1)
- Spudger (1)
- T5 Torx Screwdriver (1)

PARTS:

- Nexus 4 (GSM) Motherboard (1)

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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.
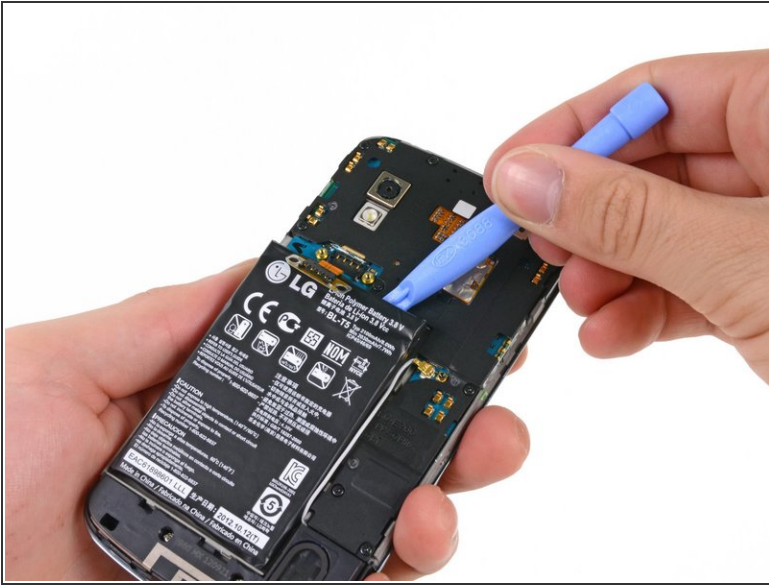
Step 3

- 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.

- (i) 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.
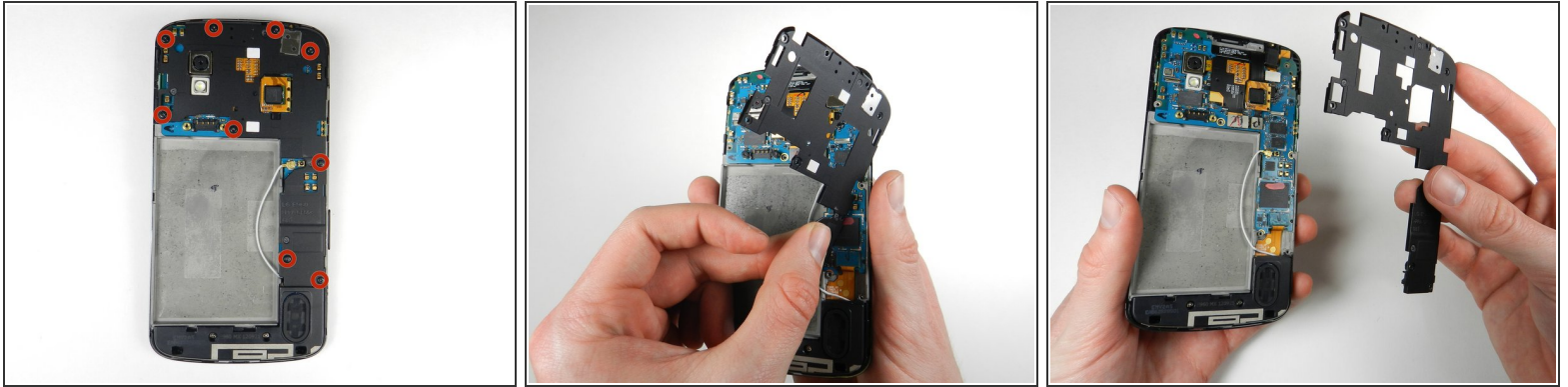
Step 4 — Battery

- 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.

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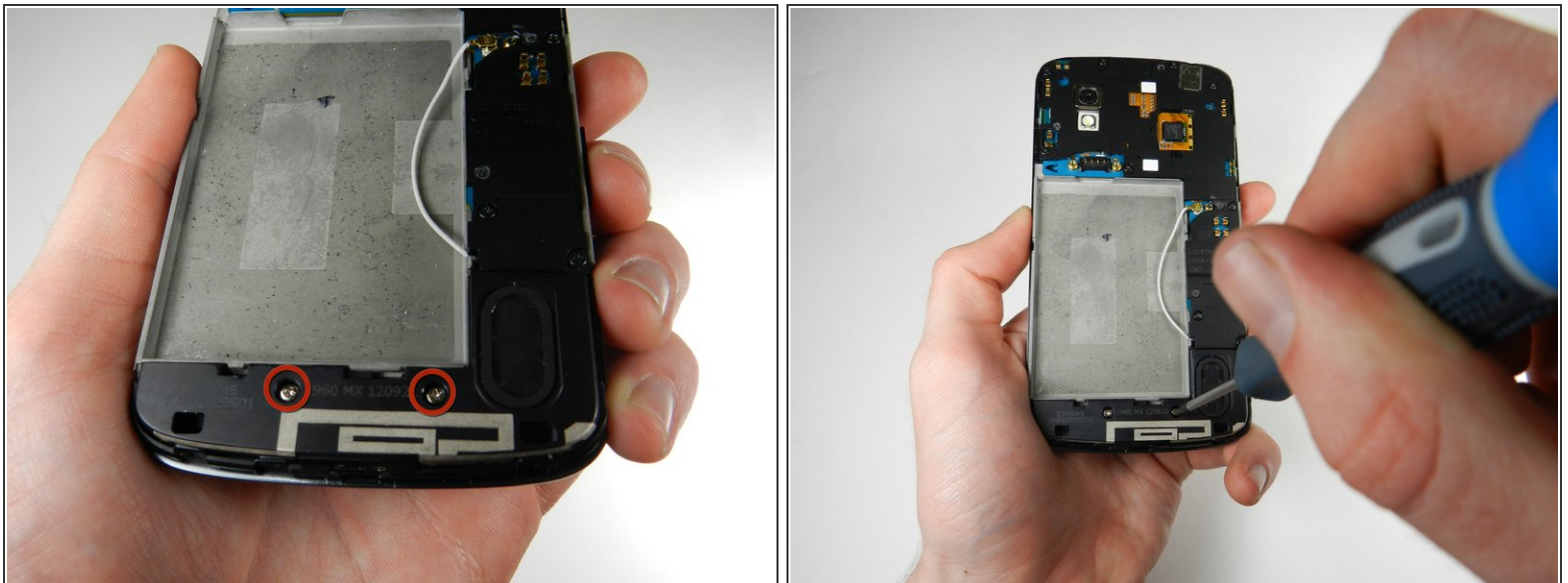
Step 5 — Battery removal

- 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.
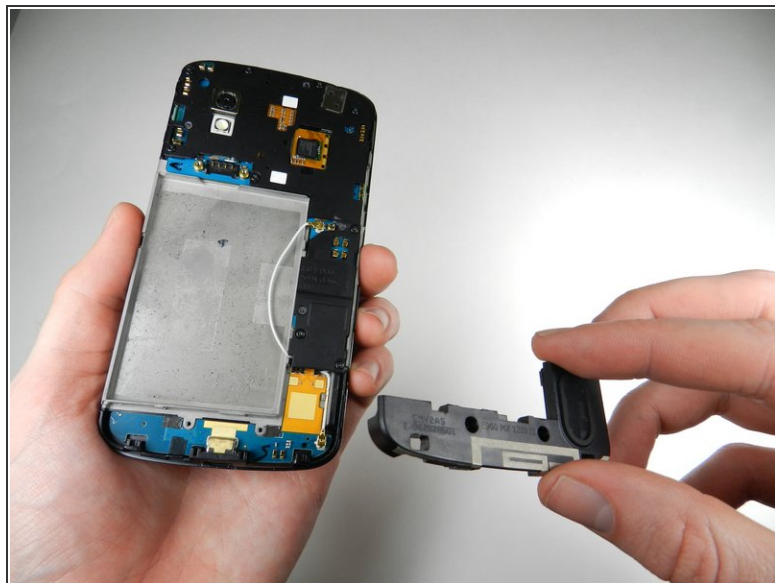
Step 6 — Plastic Midframe

- 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.
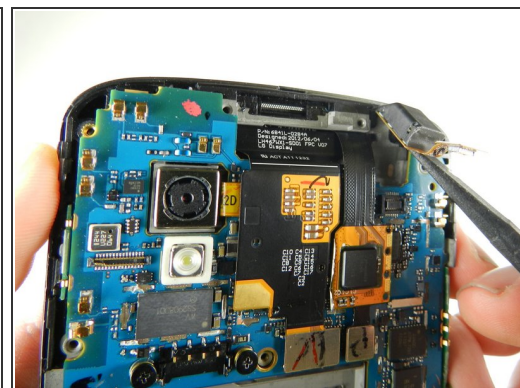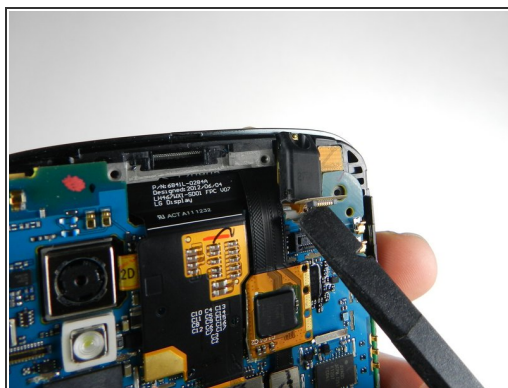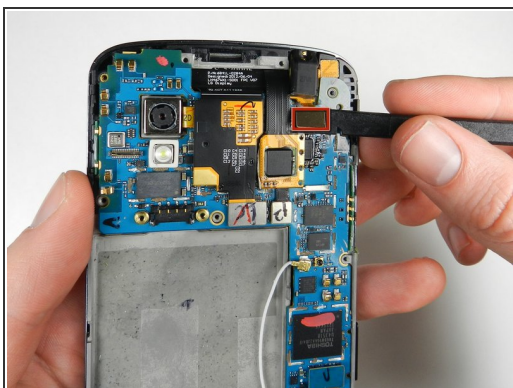
Step 7 — Speaker

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

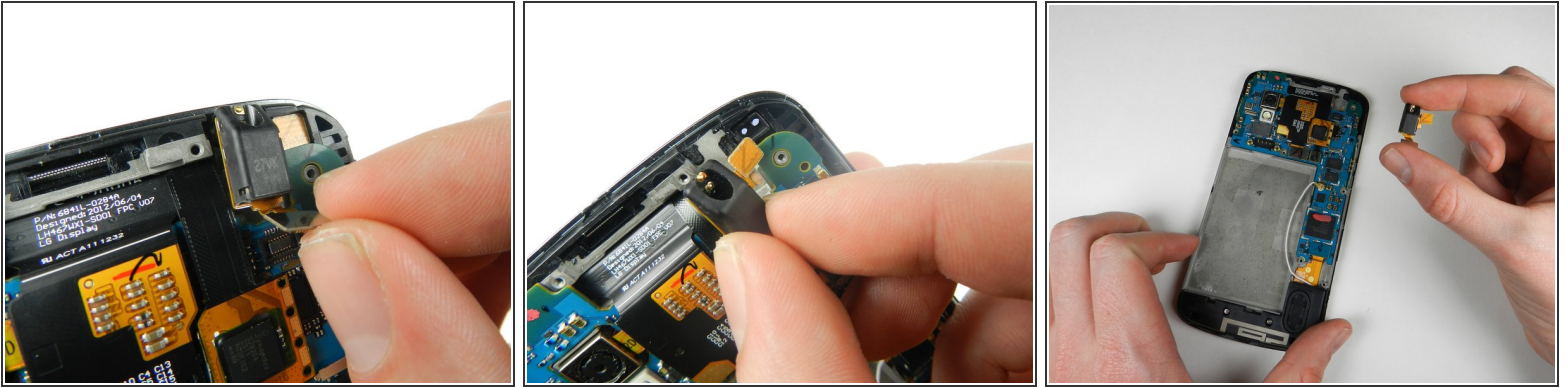This document was generated on 2022-07-08 02:02:11 AM (MST).

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.
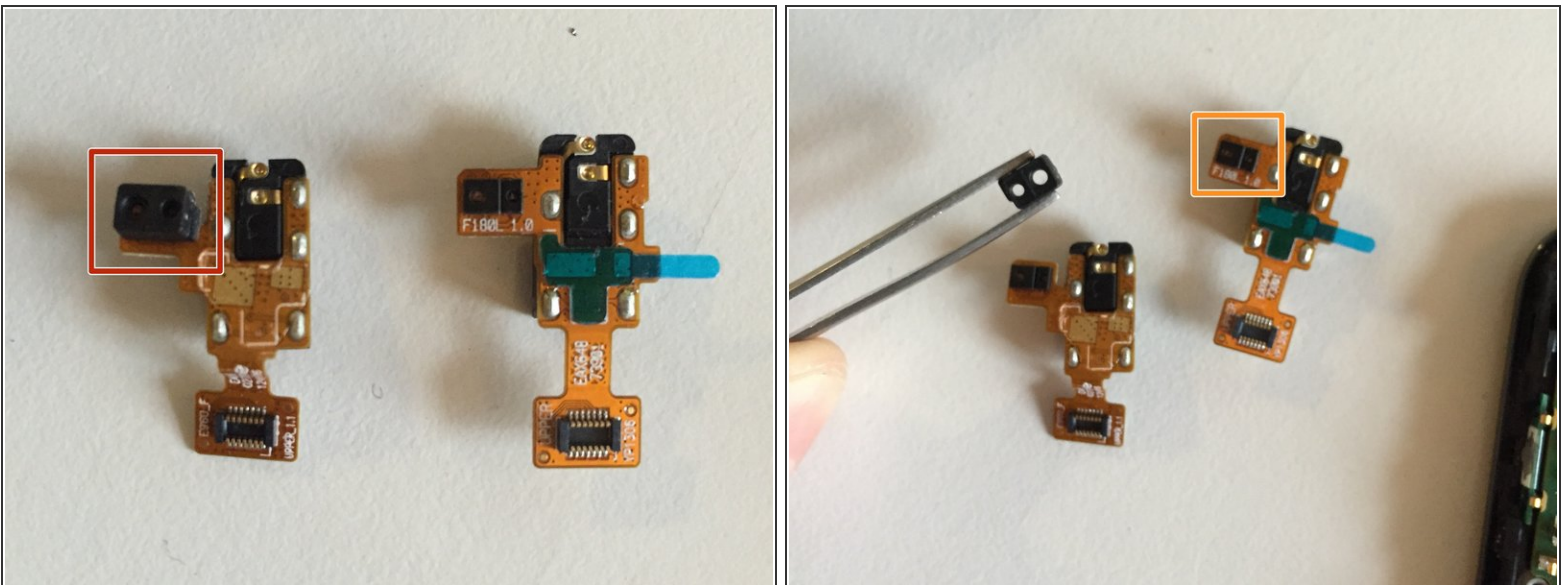
Step 9 — Audio Jack

- Using a spudger, pop off the gray connector on the top right of the motherboard.
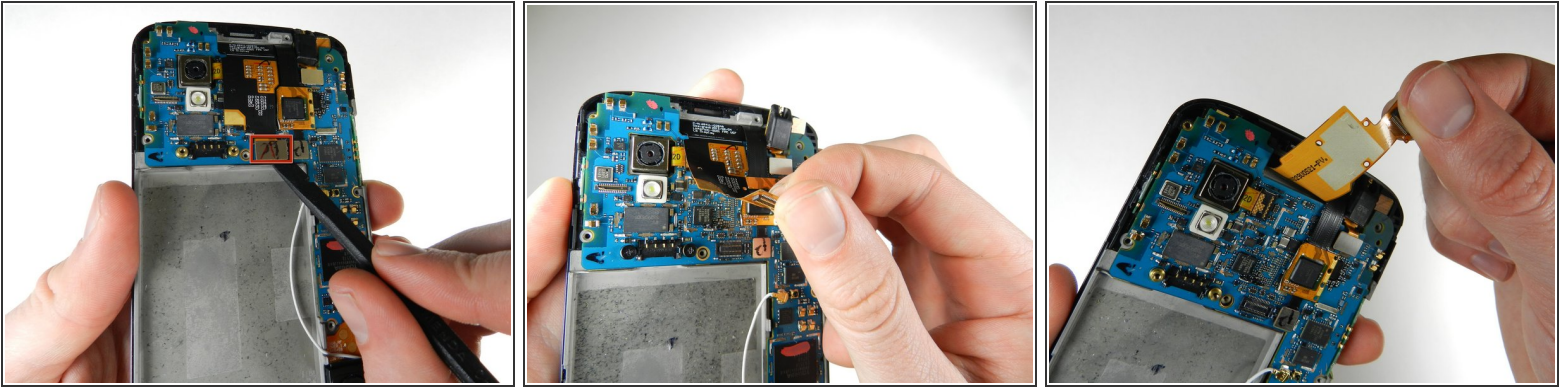
Step 10

- Gently lift the audio jack upwards and to the left to remove it from the motherboard.
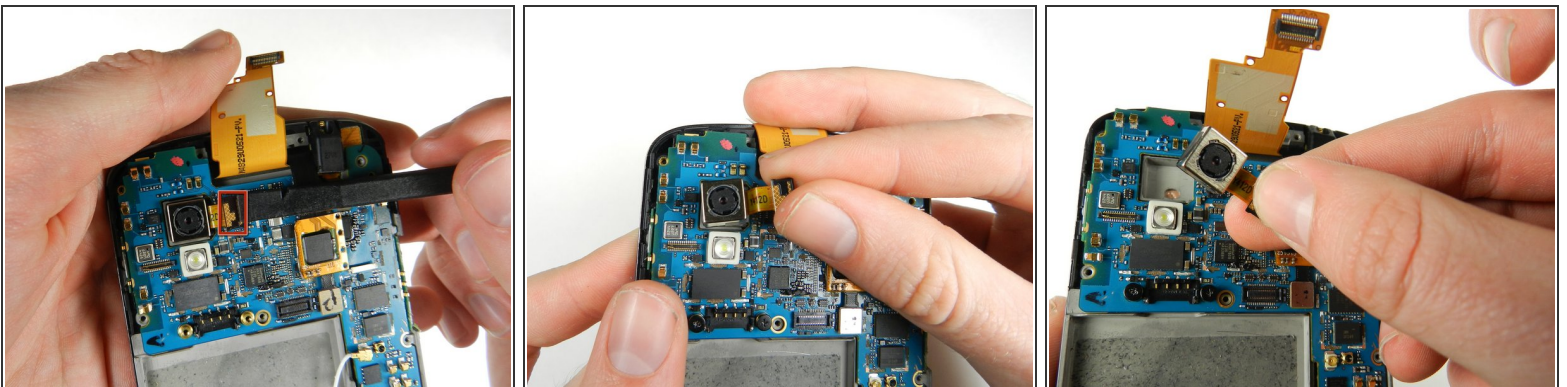
Step 11

- 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.

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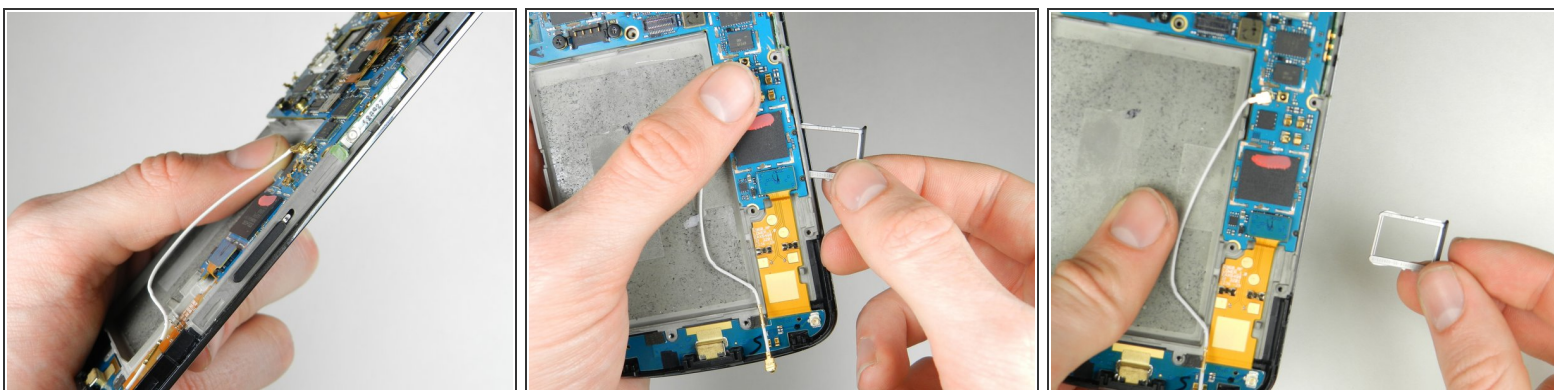
Step 12 — Camera

- Gently pry the metal tab up using a spudger, and lift up the disconnected black flap.
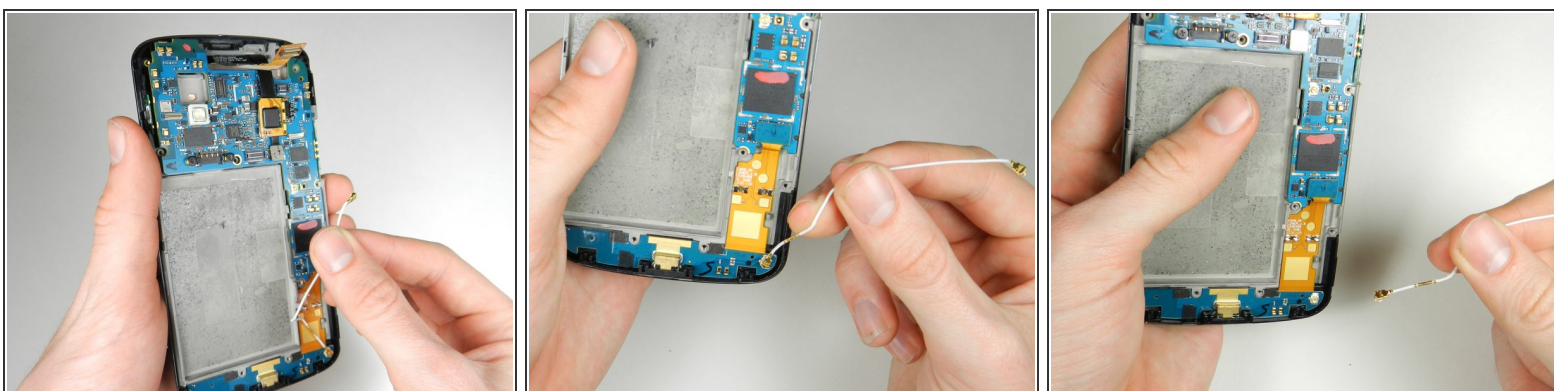
Step 13

- With a spudger, carefully pry up the black tab connecting the camera to the motherboard.
- Lift up the camera from the socket.
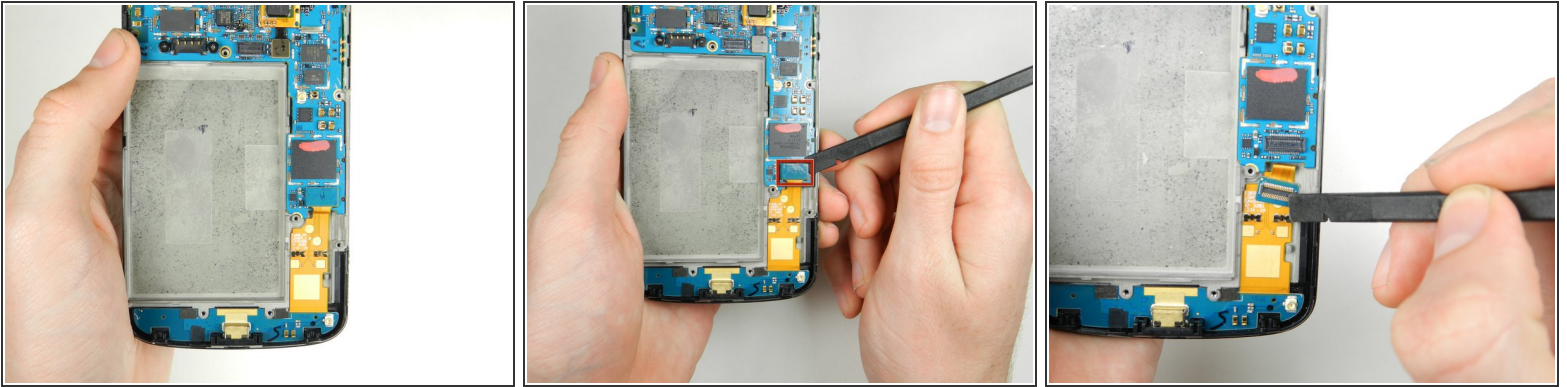
Step 14 — Motherboard

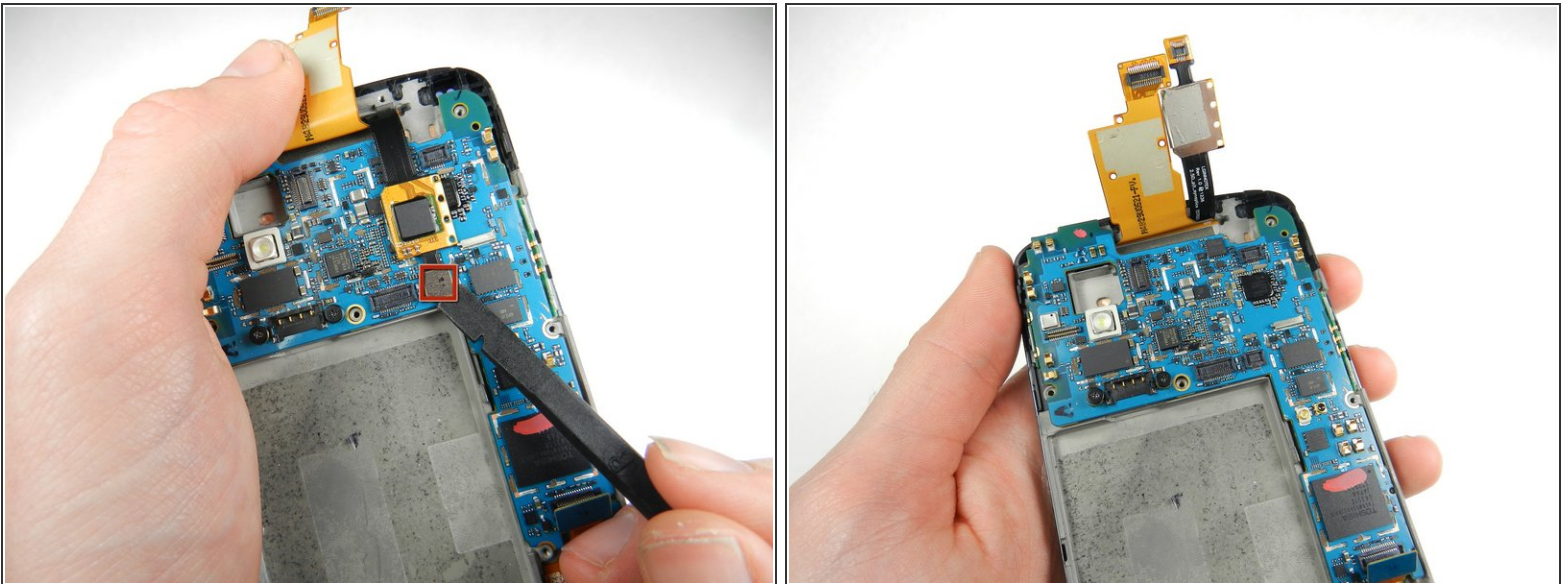- Remove the Sim Card and the Sim Card metal tray.

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.
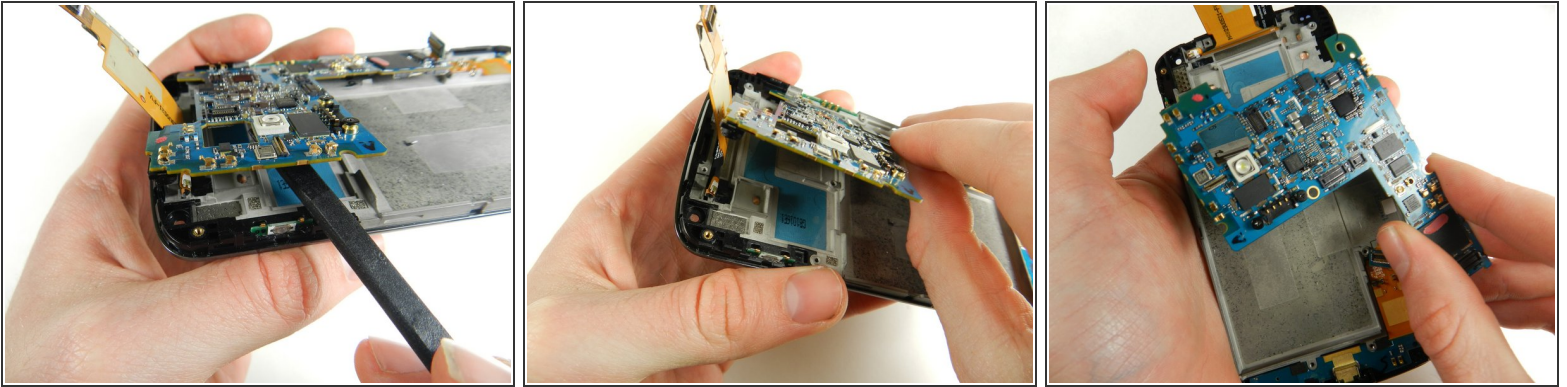
Step 16

- 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.

- (i) Once this tab is removed, the flap will be free and will spring away from the motherboard.

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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.