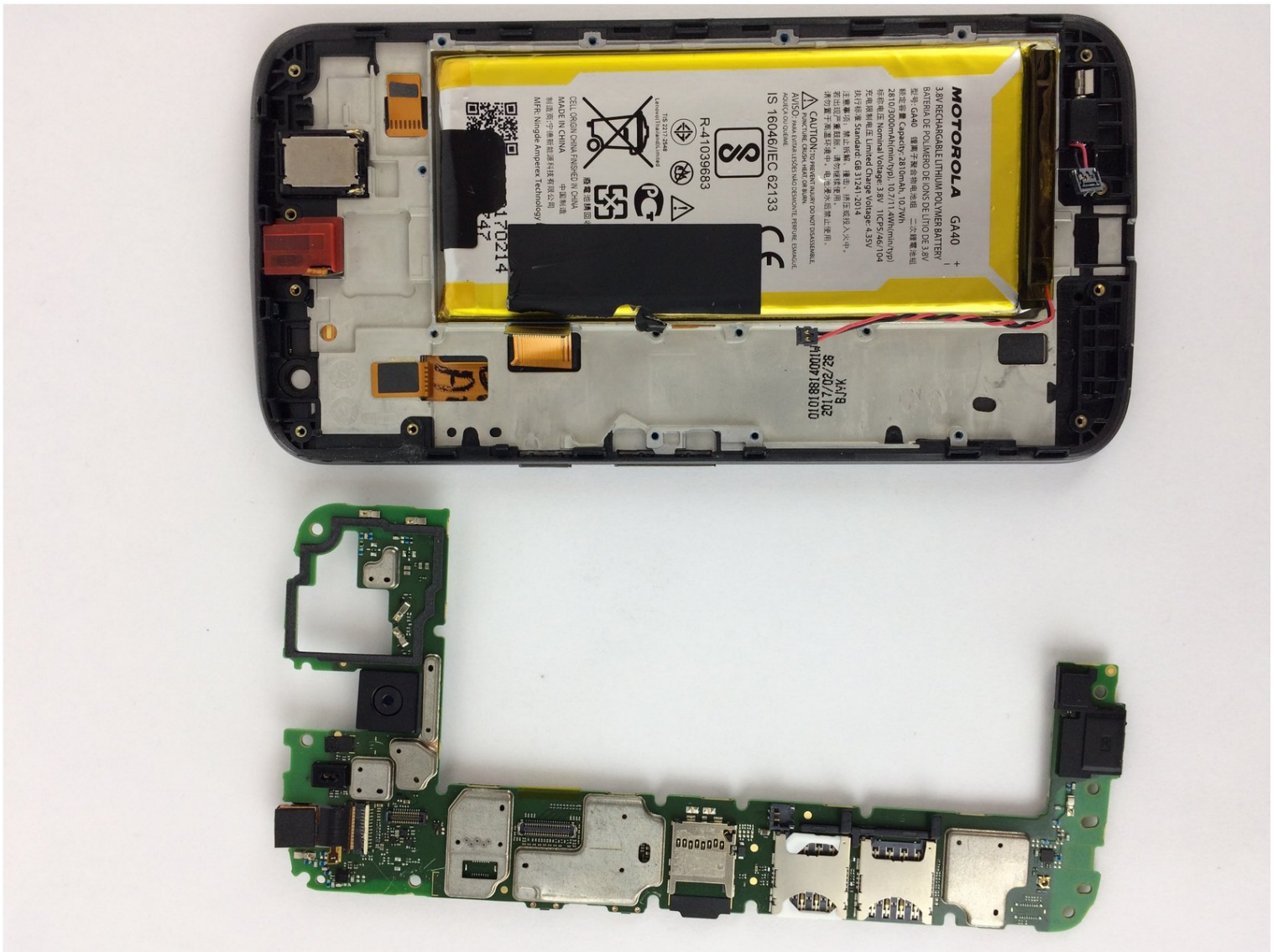




Motorola Moto G4 Motherboard Replacement

This guide will show you how to properly remove...

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INTRODUCTION

This guide will show you how to properly remove the motherboard and replace it with a new one.

Before you begin, download the [Rescue and Smart Assistant](#) app to backup your device and diagnose whether your problem is software or hardware related.

TOOLS:

[Pincettes de précision](#) (1)

[Outil pour ouvrir iFixit](#) (1)

[Tournevis Torx T3](#) (1)

[Spudger \(spatule antistatique\)](#) (1)

Step 1 — Back Cover



- Insert a fingernail or a spudger into the notch on the bottom edge of the phone, near the charge port.
- Gently twist or pry to open a small gap between the back cover and the body of the phone.
- While keeping your tool (or fingernail) inserted into the gap between the back cover and the body of the phone, slide it around the corner to begin loosening the plastic clips holding the cover in place.

Step 2



- Slide your tool all along the side of the phone to separate more of the clips securing the back cover.

Step 3




- Keep your tool inserted slightly under the back cover, and slide it around the top corner.
- If necessary, continue prying around the remaining edges of the phone until the back cover comes free.

Step 4



- Remove the back cover.

 To install the back cover, carefully position it over the phone and then press gently all around the edges until you feel the clips snap into place.

Step 5 — Midframe



- Push to eject and remove the MicroSD and SIM cards (if installed).

Step 6



- Use a spudger to pry up the rubber cover for the camera flash connector.

Step 7



- Remove the rubber cover.

Step 8



- Use a spudger to disconnect the camera flash connector by prying it straight up.

Step 9



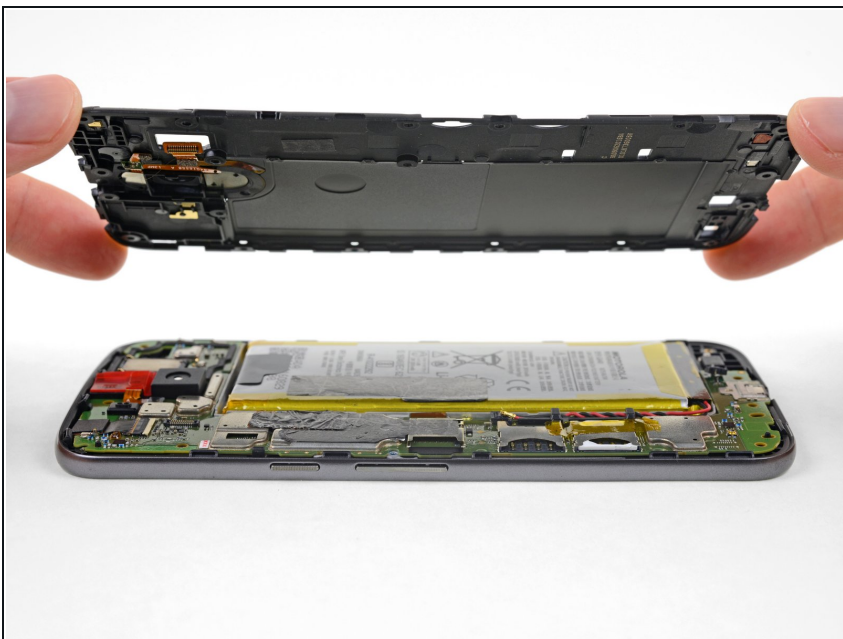
- Use a T3 Torx driver to remove the nineteen identical 3.1 mm screws securing the midframe.

Step 10



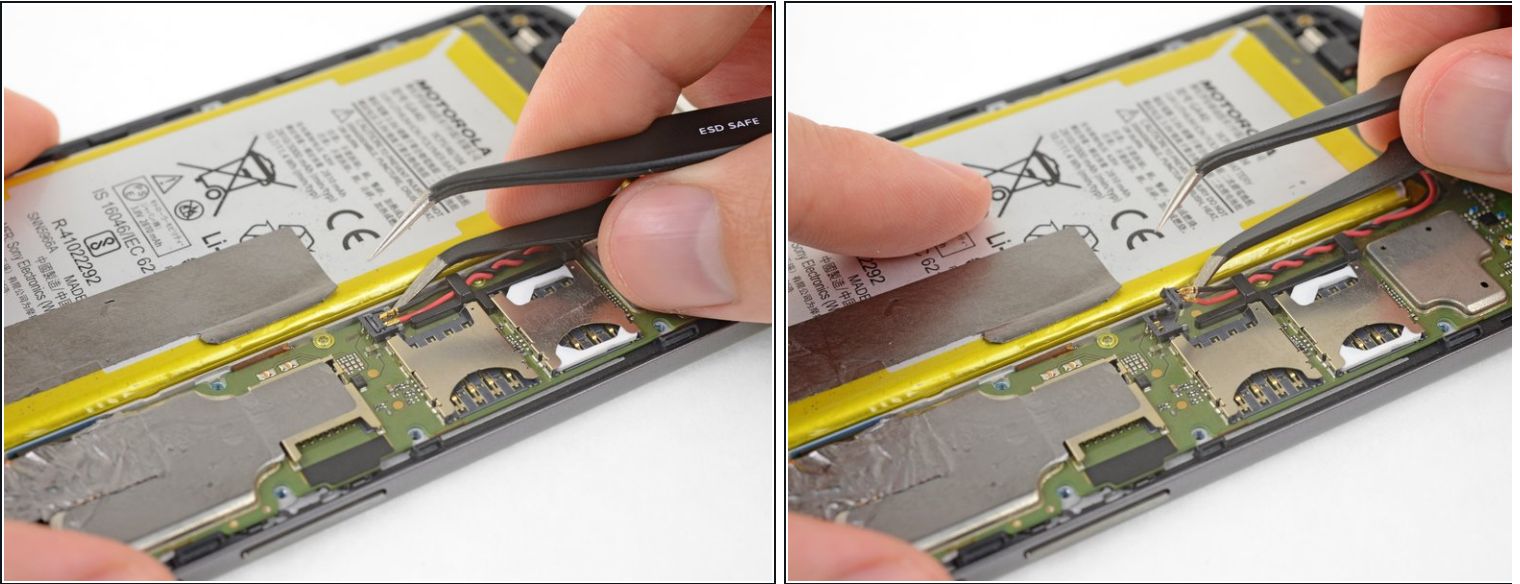
- Insert a spudger under the midframe at the top left corner, and gently twist to separate it from the body of the phone.

Step 11



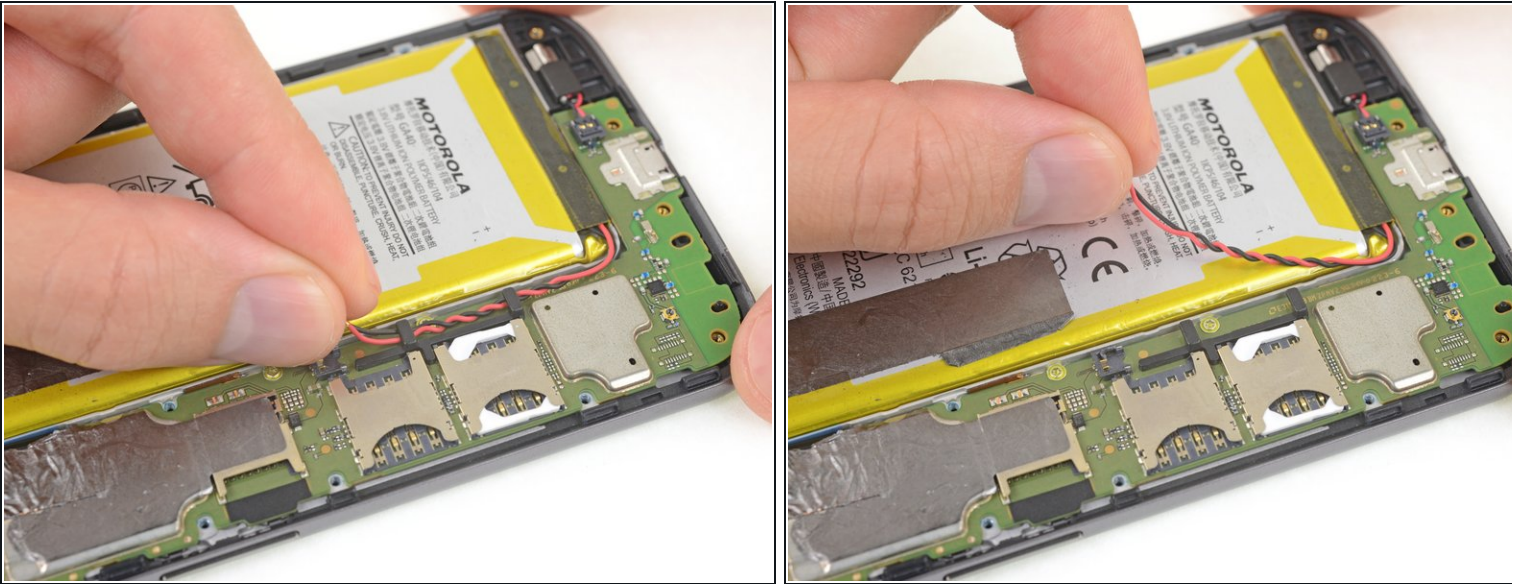
- Remove the midframe.

Step 12 — Battery Disconnection



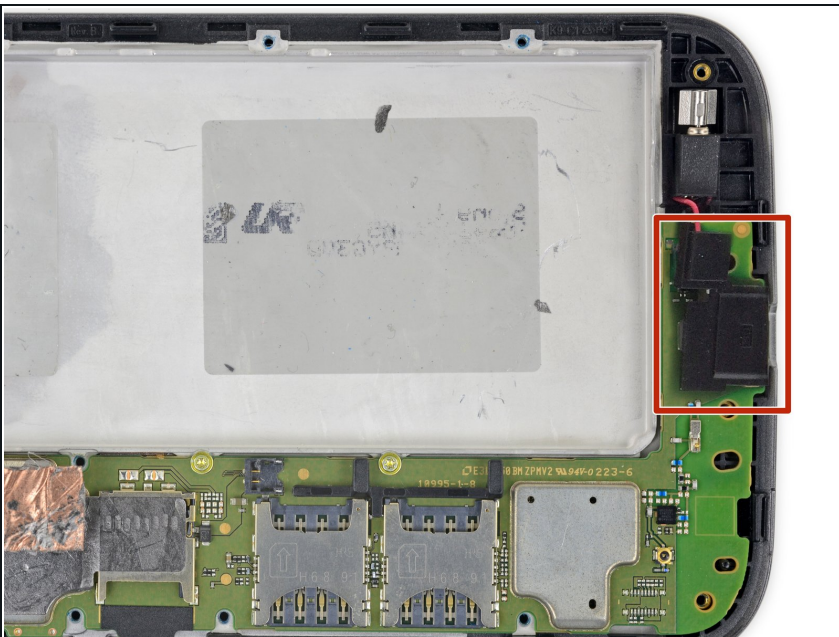
- Insert a thin tool (such as one of your tweezer tips) under the red and black battery wires, and slide it underneath the battery connector.
 - Gently pry straight up to disconnect the battery.
- ⚠ Pry only from the side where the wires attach to the connector—if you pry anywhere else, you may break the socket.
- ✦ During reassembly, align the connector in its socket and then press straight down to reconnect it, wiggling slightly as you press to help it seat correctly.

Step 13 — Motherboard



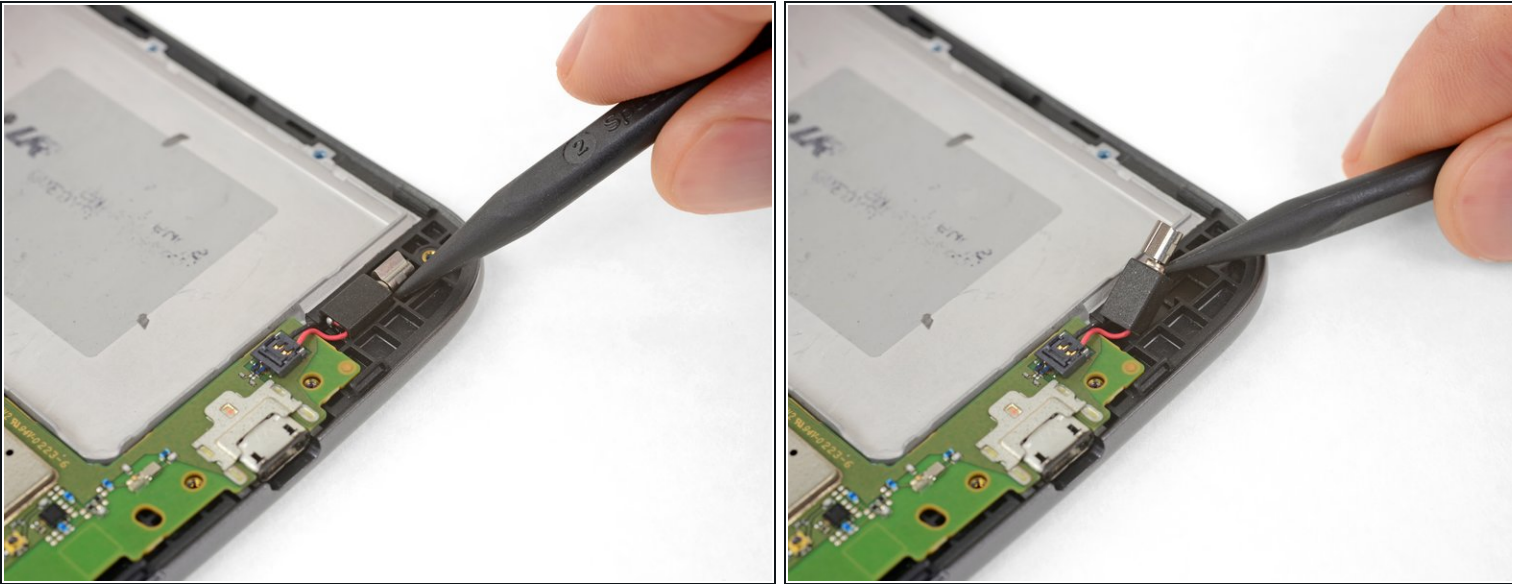
- Peel off any tape securing the battery wires, and then push the battery wires towards the battery to de-route them from the black bracket on the motherboard.

Step 14



- ① It's not necessary to remove the battery in order to remove or replace the motherboard. You can safely ignore the fact that the battery is missing in the remaining images in this guide.
- Peel up and remove the black rubber cover from the charging port and vibration motor connector.

Step 15



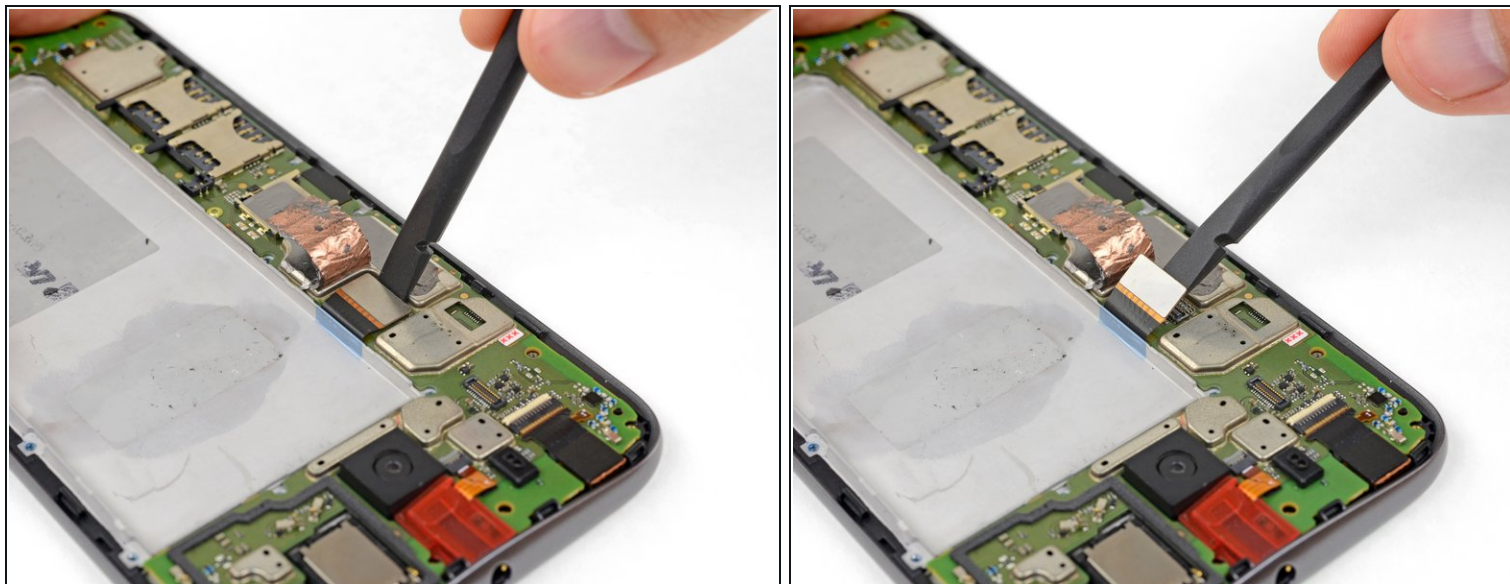
- Insert the point of your spudger underneath the vibration motor, and gently pry up to separate it from the frame.

Step 16



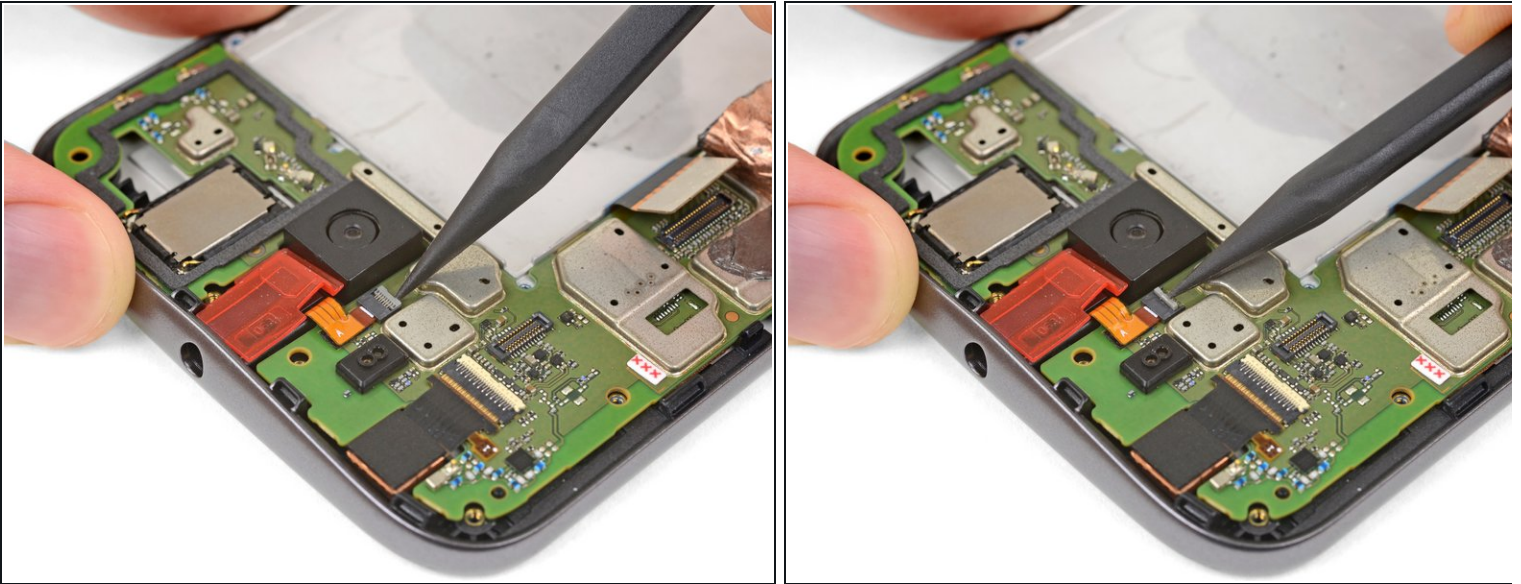
- Peel up the copper tape covering the display connector.
- ☑ This tape provides protection from electromagnetic interference. Keep it in one piece if possible, and carefully fold it back into position when your repair is complete.

Step 17



- Use your spudger to disconnect the display by prying its connector straight up from the motherboard, on the edge nearest the side of the phone.

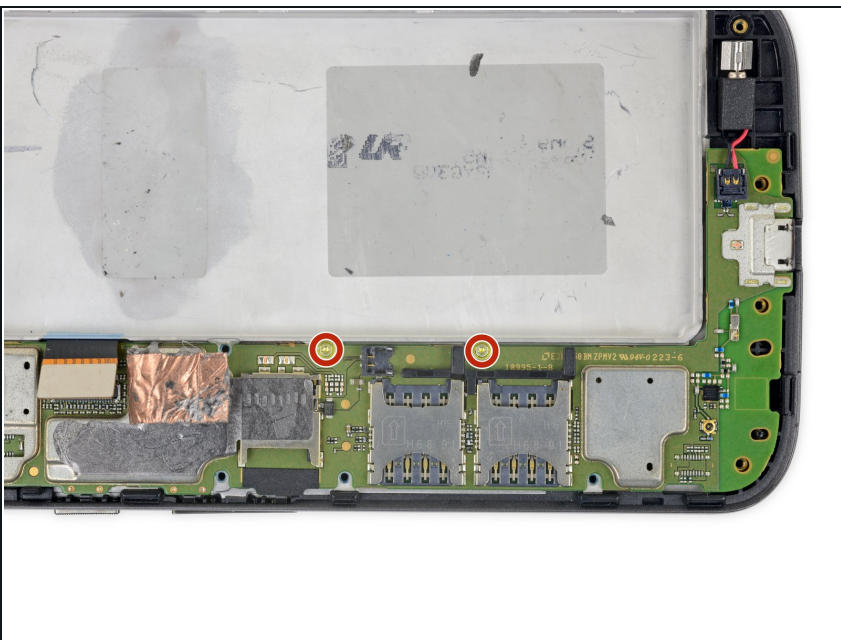
Step 18



- Pry up with your spudger to flip open the locking flap on the headphone jack's [ZIF connector](#).

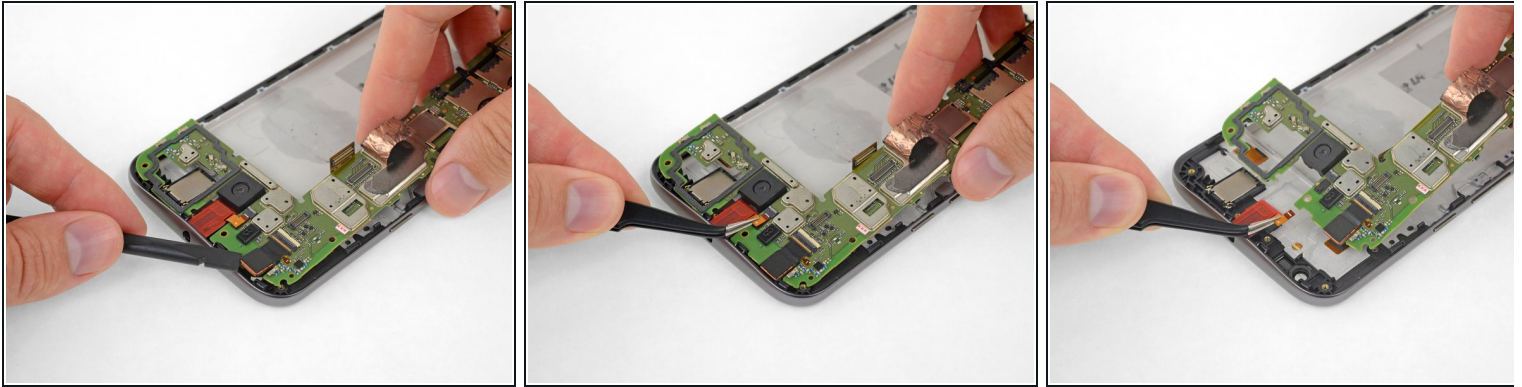
⚠ It's possible to disconnect the headphone jack at this point by pulling its orange flex cable straight out of the ZIF socket, but it's easy to tear the cable if you're not careful. For a better method, continue with the steps below.

Step 19



- Use a T3 Torx driver to remove the two bronze-colored, 2.4 mm screws securing the motherboard.

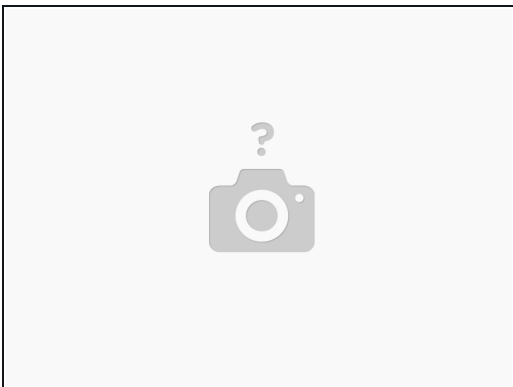
Step 20



- Grasping the motherboard by its edges, left the bottom end up at an angle, while keeping the top edge close to the phone.
- Use your spudger to pry up the front-facing camera and make sure it separates safely from the frame. The camera can remain attached to the motherboard.
- Using your tweezers, grasp the headphone jack flex cable and carefully pull it out of its socket as you remove the motherboard.
- Remove the motherboard.

⚠ If you feel any resistance, **stop**. Make sure there are no components still holding the frame to the motherboard.

Step 21



- If desired, remove the remaining components from the motherboard (cameras and vibration motor).

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