



Motorola Moto Z2 Play Motherboard Replacement

Use this guide to replace the motherboard on...

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INTRODUCTION

Use this guide to replace the motherboard on your Motorola Z2 Play.

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

Warning: Because of the strong adhesive securing the display, minimal clearance for inserting your tools, and high heat required, there's a good chance of accidentally damaging the display when removing it. If you intend to re-use the display, take serious care when heating and inserting tools to separate the display from the rest of the device.



TOOLS:

- [iOpener](#) (1)
- [Tweezers](#) (1)
- [SIM Card Eject Tool](#) (1)
- [Heat Gun](#) (1)
- [Suction Handle](#) (1)
- [iFixit Opening Tool](#) (1)
- [Plastic Cards](#) (1)
- [T3 Torx Screwdriver](#) (1)



PARTS:

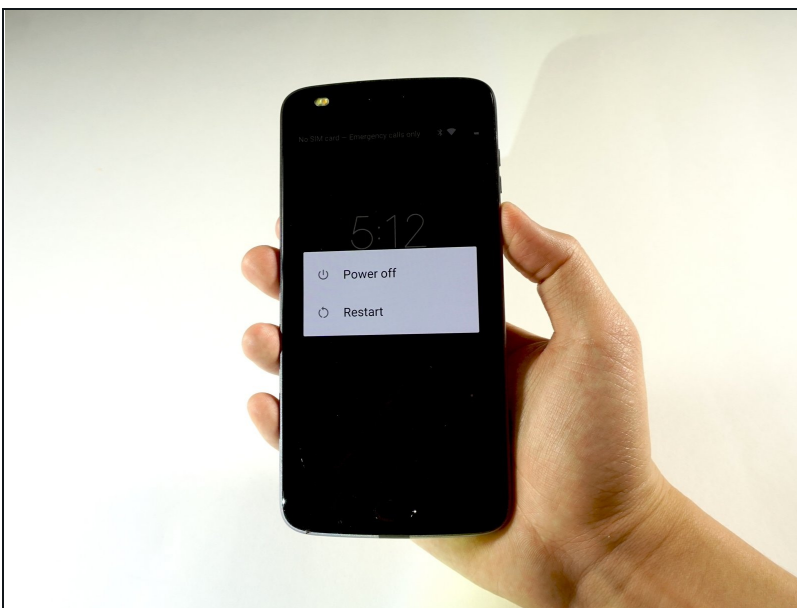
- [Moto Z2 Play Display Adhesive](#) (1)

Step 1 — Eject the SIM tray



- Insert a SIM eject tool, bit, or a straightened paperclip into the hole in the SIM tray, located at the top left edge of the phone.
⚠ Double-check to make sure that you are not mistakenly inserting the tool into the microphone hole.
- Push firmly to eject the tray.
- Pull the tray straight out to remove the tray.

Step 2 — Screen Removal



- Power off your phone before you complete any replacement steps.

Step 3



- Heat the edges of your Motorola Moto Z2 Play screen for two to three minutes with a heat gun. You adjust the heat gun to 85 degrees centigrade, and be careful not to hold the heat gun on one position for too long; to avoid damaging, or "hotspotting" the LCD. The screen should be very warm, but not painful, to the touch. Reheat as necessary.

⚠ If screen is cracked put strong adhesive tape across the screen in order to avoid breaking the screen further and receiving cuts.

ⓘ If you don't have access to a heat gun, a hair dryer can be used.

Step 4



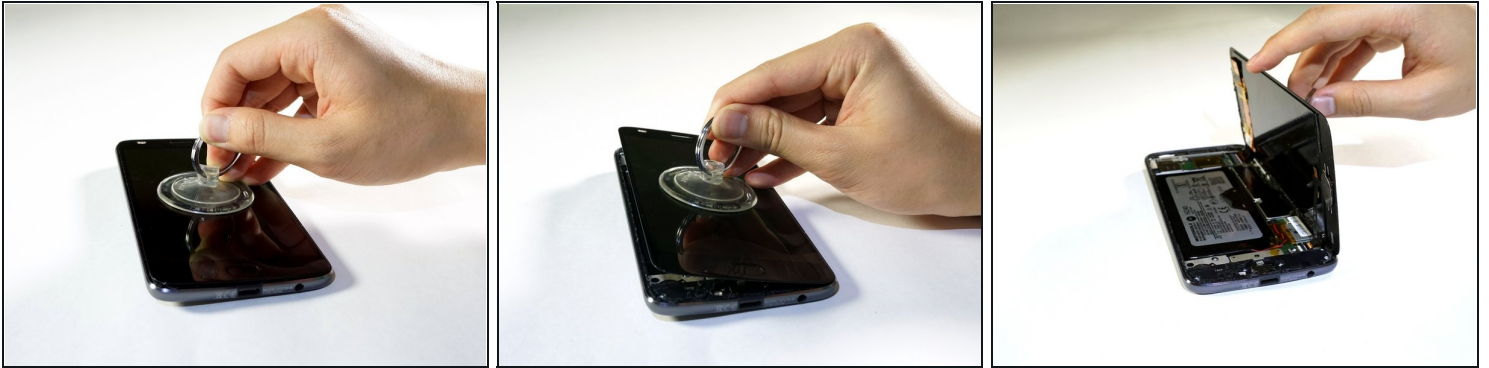
- Place suction cup in the middle of the screen and press down.

Step 5



- Pry the screen by wedging the plastic opening tool under the screen at the charging port.
- Work your way around the screen with the plastic opening tool.
 - ⚠ When you pry near the top-right and bottom-right corners, be careful not to pry too far, or you risk damaging [the display cable](#).
- ① Complete these steps carefully because the screen is delicate and can easily crack. If the screen begins to resist prying, reheat the adhesive with your heat gun.

Step 6



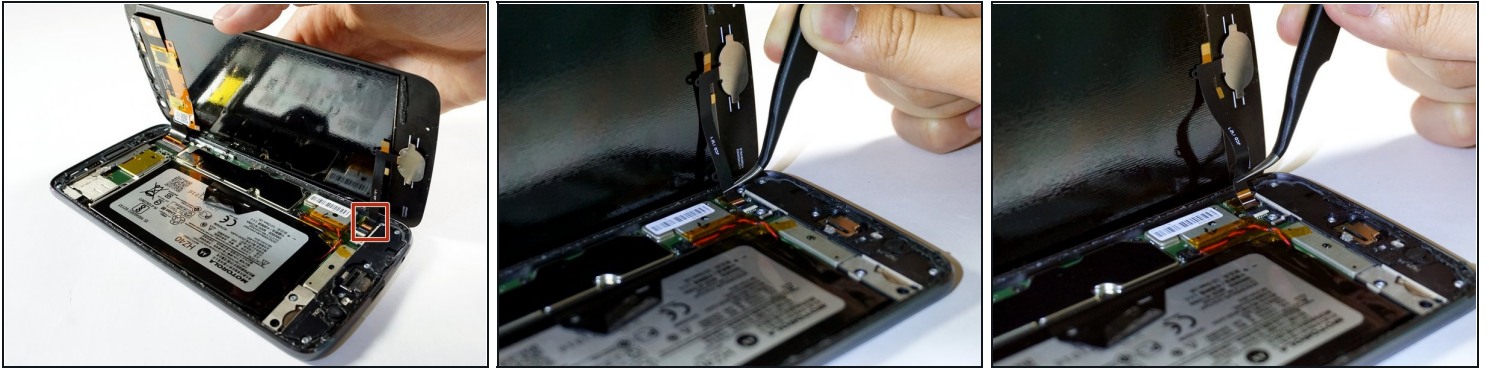
- Use a suction cup to lift up screen from left to right.
- ① If you don't have a suction cup, wedge a spudger or a small [plastic card](#) under the screen and lift slowly.
- ① Failure to lift screen from left to right can cause damage to interior wires of your phone.

Step 7



- Identify ribbon connector at the top right of the phone.
- Pry the black locking bar up gently with a plastic opening tool.
- Remove the ribbon wires by pulling them out of the connector with a tweezer.
- ① The locking bar is the small black bar located on the digitizer's ZIF connector.
- ★ Be sure to push the locking bar back down using a spudger after you put the ribbon wire back in since the lock does not lock automatically.

Step 8



- Identify the ribbon cable, located at the bottom right of the phone.
 - If present, remove kapton (orange) tape covering the cable connector.
 - Flip up the small locking flap on the ZIF connector and use tweezers to slide the cable straight out of its socket.
- ⓘ Excessive force is not needed.

Step 9



- Lift the screen from the phone to completely detach.
- ⓘ If screen doesn't detach, go back to step 7 and 8 to make sure the bar is unlocked and ribbon connector is fully detached.
- ☑ During reassembly, you may need to apply or replace the display adhesive on your display assembly. Use our [display adhesive application guide](#) to apply the adhesive and reseal your device.

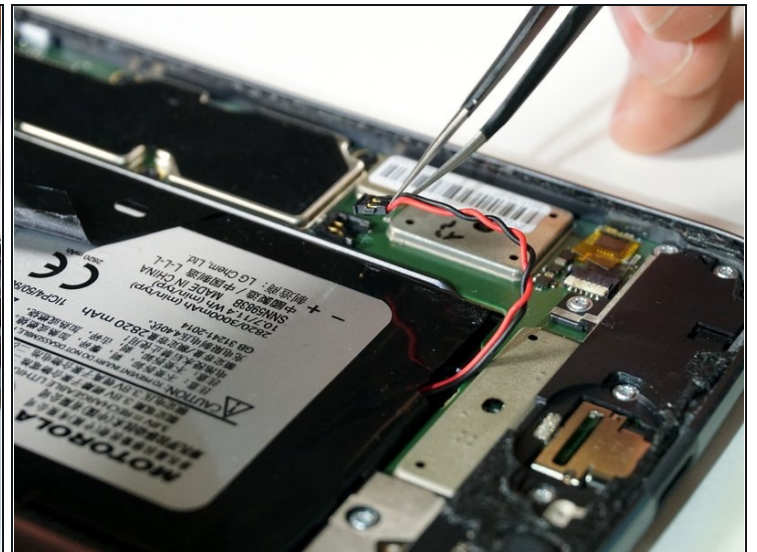
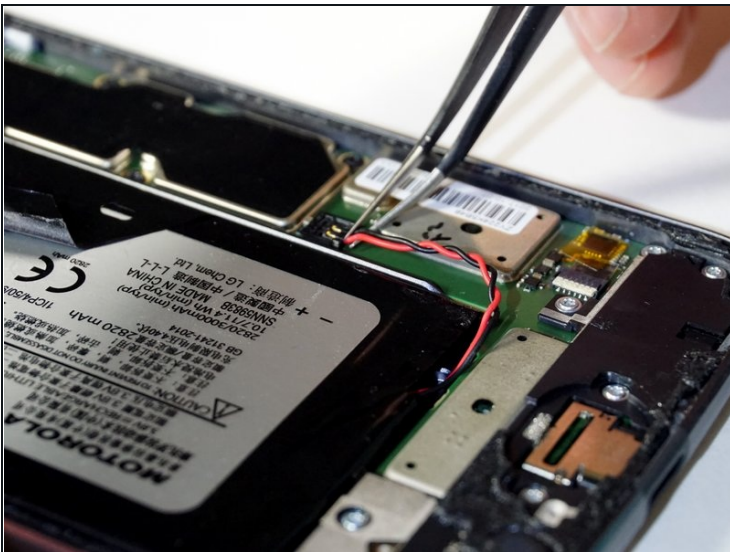
Step 10 — Battery



- Remove the orange tape, located at the bottom right of the phone, using tweezers.

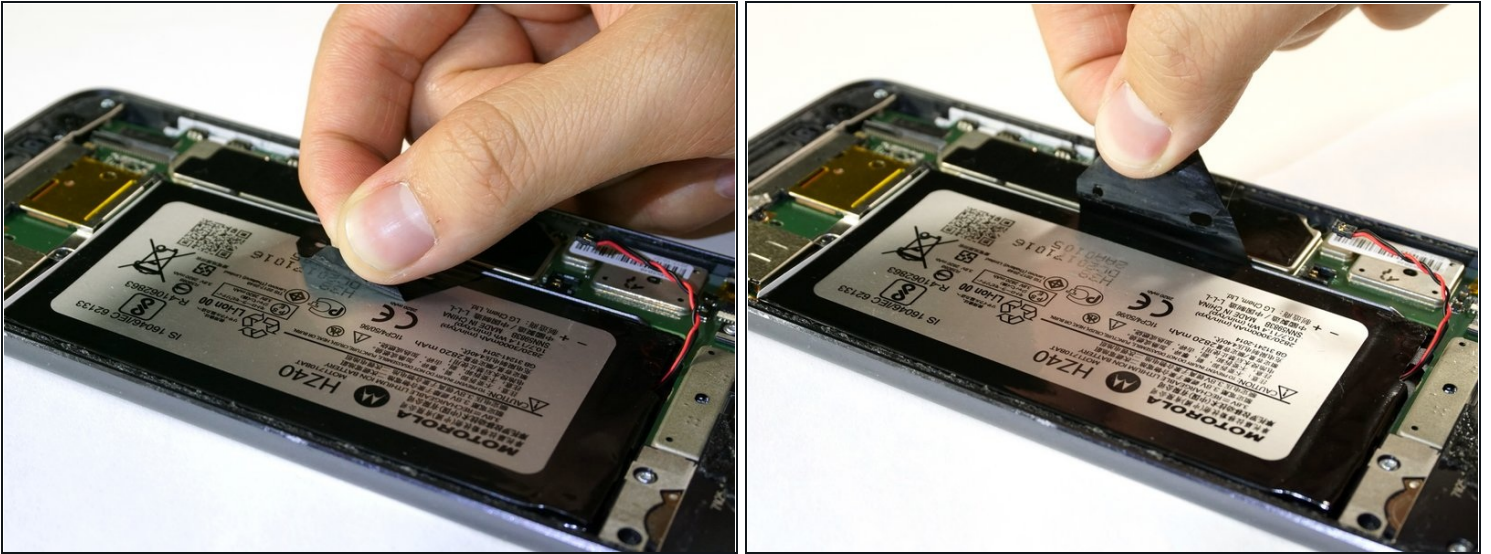
ⓘ Do not discard tape.

Step 11



- Detach the red and black battery wire by lifting up with tweezers.

Step 12



- Peel back the black tape that is located on the battery.
- ① Make sure you pull back gently so you can reuse the tape with reassembly.

Step 13



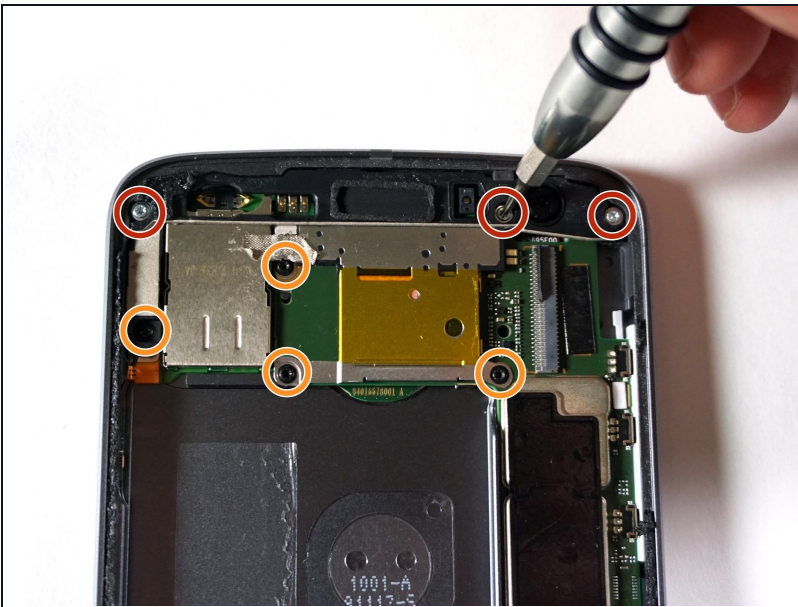
- Lift the black tape and slide a card under the battery.
- Align the card parallel and under the battery.
- Wedge the card further under the battery.
- Lift the card up to assist in removing the battery from the adhesive.

Step 14



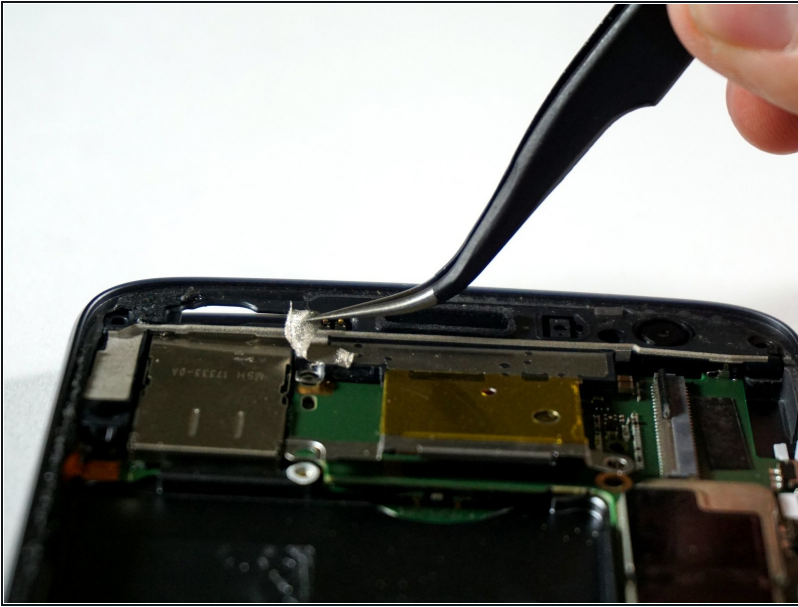
- Lift to remove the battery from the device completely.

Step 15 — Speaker



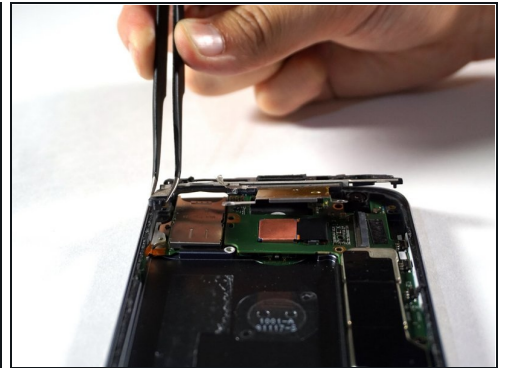
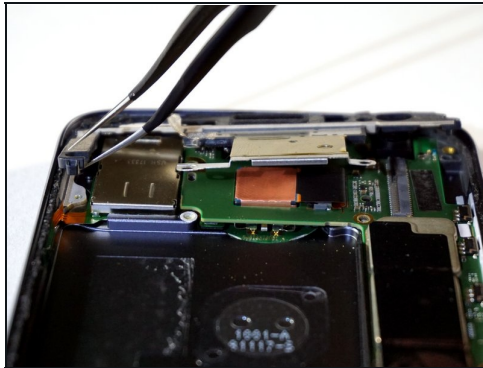
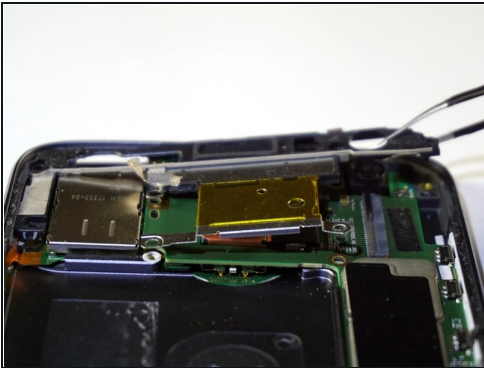
- Remove the three silver 2.6 mm T3 Torx screws on the speaker shell at the top of the phone with a screwdriver by turning counterclockwise.
 - Remove the four black 3.5 mm T3 Torx screws on the speaker shell at the top of the phone with a screwdriver by turning counterclockwise.
- i* It is helpful to keep screws on a magnetic surface to avoid losing them.

Step 16



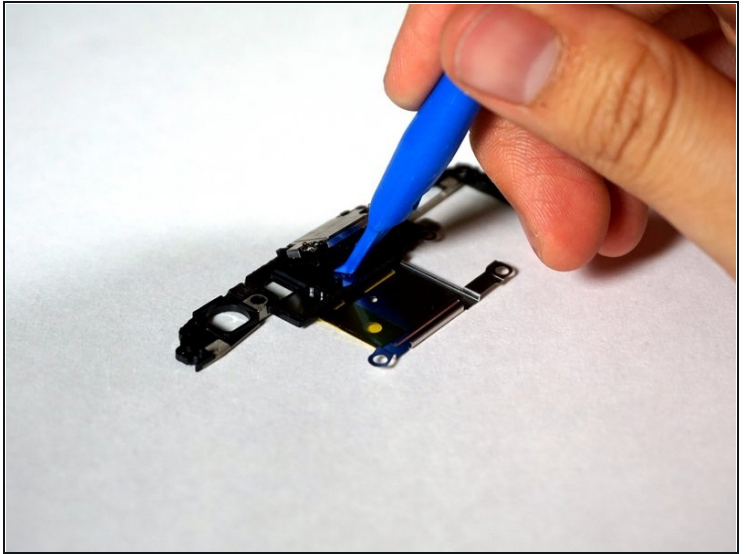
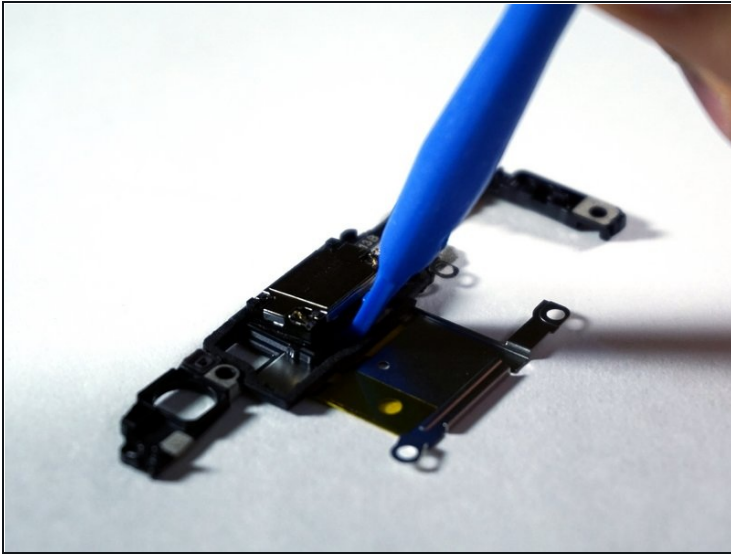
- Lift up the silver metallic tape using the tweezers.

Step 17



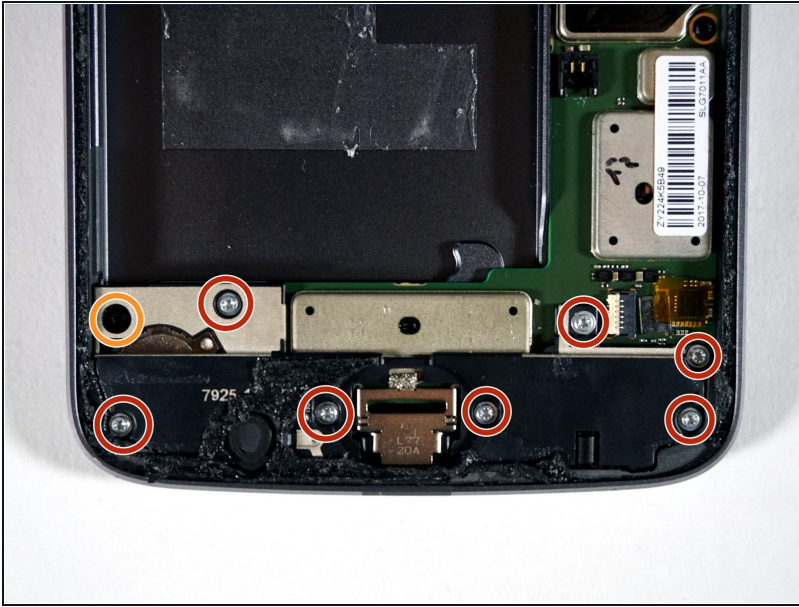
- Lift gently to completely remove speaker housing using tweezers.
- ① Try lifting the speaker housing from both sides slightly before removing completely.

Step 18



- Place the housing upside down in order to continue working.
- Pry the speaker from the housing with a plastic opening tool.
- ☒ When reassembling, make sure the metal connectors of speaker are in the bottom left and right corners (correct orientation).
- ☒ Speaker clicks in on reassembly.

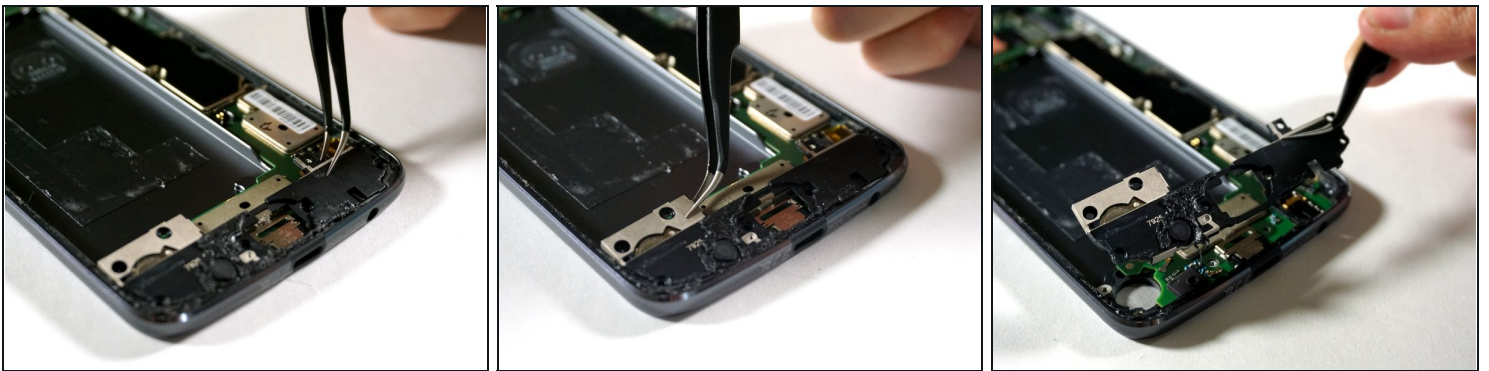
Step 19 — Audio Jack



- Remove the seven silver 2.6 mm T3 Torx screws on the black battery cable cover at the bottom of the phone with a screwdriver by turning counterclockwise.
- Remove the single black 3.5 mm T3 Torx screw on the black battery cable cover at the bottom of the phone with a screwdriver by turning counterclockwise.

i It is helpful to keep screws on a magnetic surface to avoid losing them.

Step 20



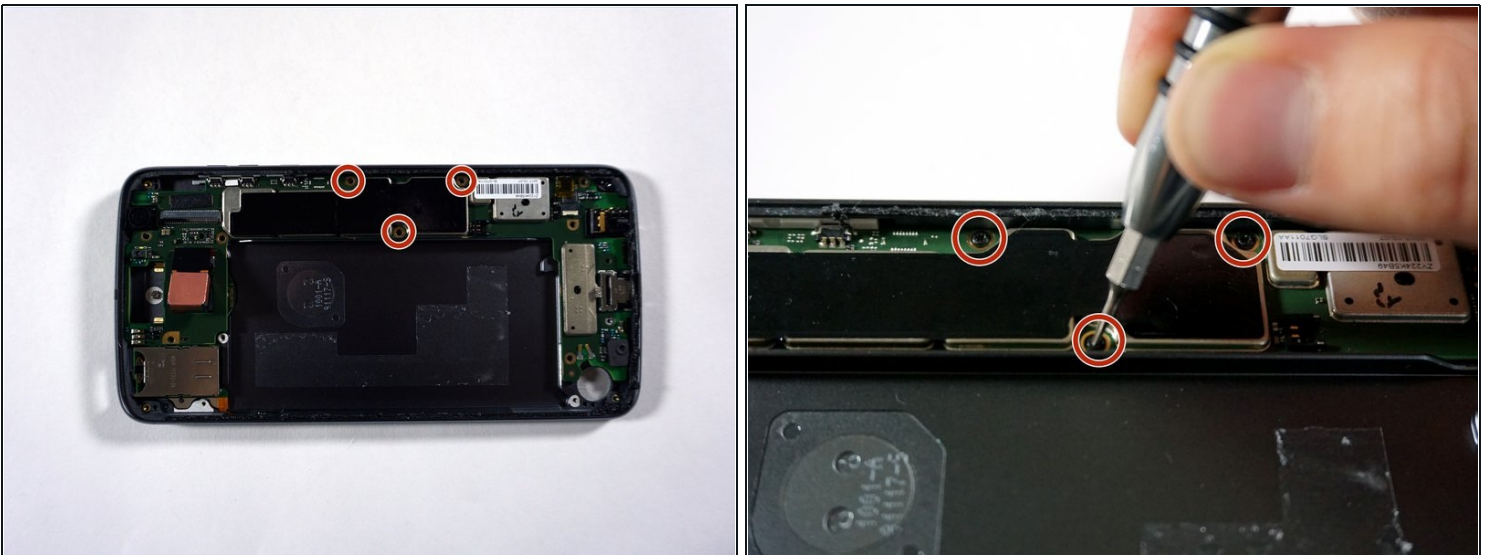
- Lift the battery cover with tweezers starting on the right side slightly to dislodge the cover.
- Lift the battery cover with tweezers from the left side slightly to dislodge the cover.
- Remove the battery cover with tweezers by solidly gripping the left side of the cover and lifting up.

Step 21



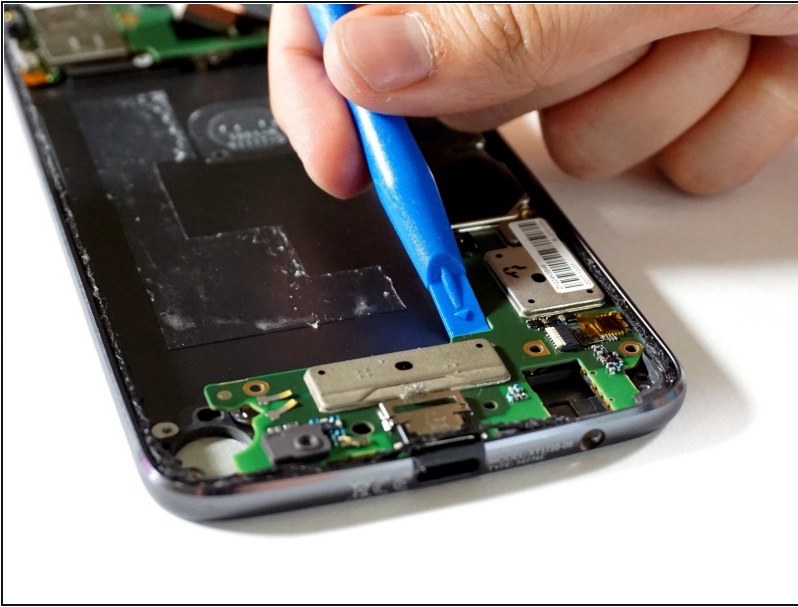
- Tilt the front of the black audio jack up with tweezers.
- Lift the audio jack out of its housing with tweezers.
- ① Little force is required to remove the audio jack.

Step 22 — Motherboard



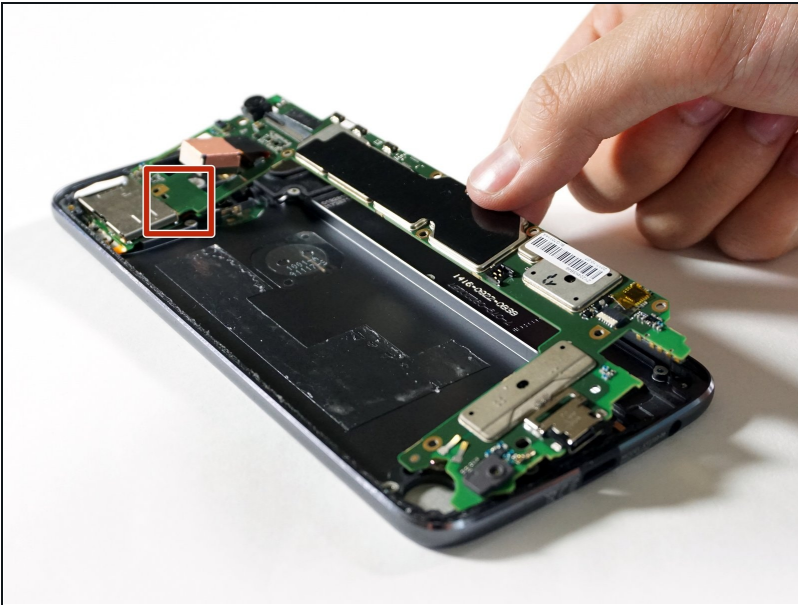
- Remove the three black 2.6 mm T3 Torx screws on the motherboard panel at the side of the phone with a screwdriver by turning counterclockwise.

Step 23



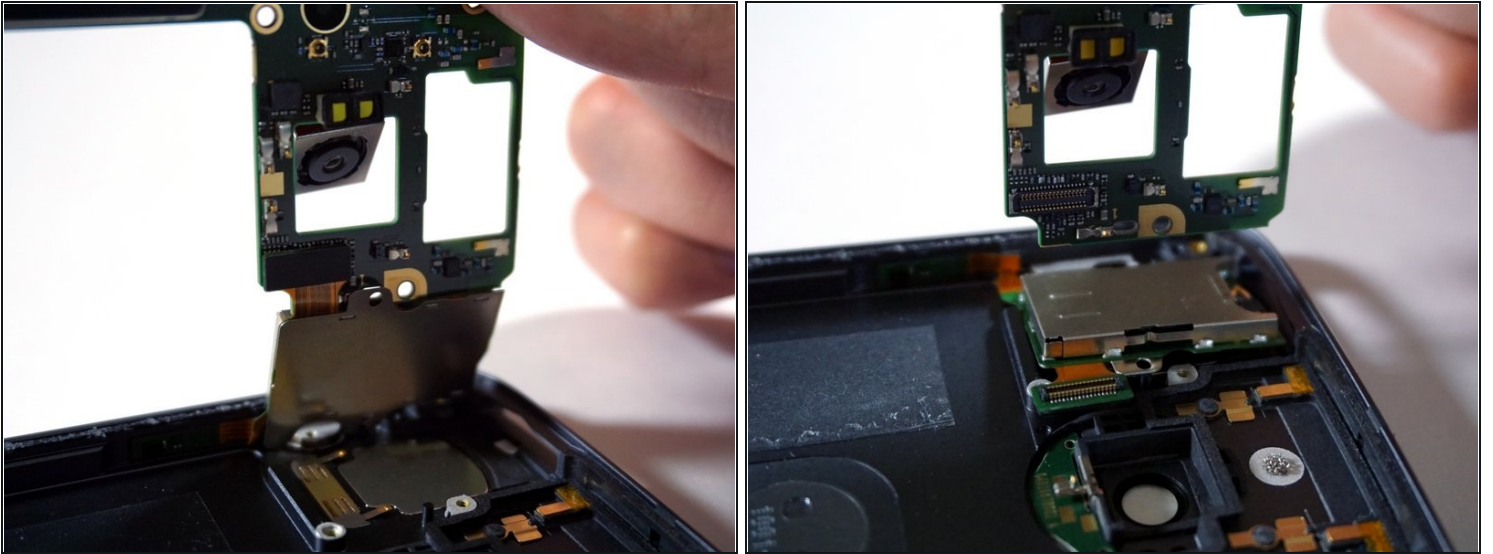
- Place a plastic opening tool under the edge of the motherboard.

Step 24



- Lift the motherboard from the right edge like a book towards the left.
- Identify the connector on the top left of the device.

Step 25



- Detach the connection on the bottom of the motherboard.

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