



Motorola Edge Midframe Replacement

Follow this guide to remove and replace the...

Written By: Jennifer Berg



INTRODUCTION

Follow this guide to remove and replace the midframe on a Motorola Edge.

There is a significant chance that you may break the unreinforced and fragile display panel during this procedure. Be sure to apply plenty of heat and be extremely careful during the prying stage.

For your safety, discharge the battery below 25% before disassembling your phone. This reduces the risk of fire if the battery is accidentally damaged during the repair. If your battery is swollen, [take appropriate precautions](#).

Note: Some replacement screens for this phone come pre-installed in a new frame (a.k.a. chassis), which requires you to transplant all of your phone's internals and install a new battery. Make sure you have the correct part before starting this guide.



TOOLS:

[SIM Card Eject Tool](#) (1)
[iOpener](#) (1)
[Suction Handle](#) (1)
[iFixit Opening Picks \(Set of 6\)](#) (1)
[T5 Torx Screwdriver](#) (1)
[Spudger](#) (1)
[ESD Safe Blunt Nose Tweezers](#) (1)
[Isopropyl Alcohol \(90% or Greater\)](#) (1)
[Plastic Cards](#) (1)
[blunt tweezers - optional](#) (1)
[Coffee Filters or a lint-free cloth - optional](#) (1)



PARTS:

[Tesa 61395 Tape](#) (1)
[Motorola Edge Battery - Genuine](#) (1)

Step 1 — Find the SIM tray



- Find the SIM tray located at the top of the phone.

Step 2 — Eject the SIM tray



- Insert a SIM eject tool or SIM eject bit into the small hole in the SIM card tray.
- ⓘ If the tool you're using doesn't fit, don't force it. Forcing a tool may cause it to get stuck or break inside the ejection port.
- Press to eject the tray.

Step 3 — Remove the SIM card tray assembly



- Remove the SIM card tray from the phone.

Step 4 — Heat the bottom edge



⚠ Completely power off your phone before you begin.

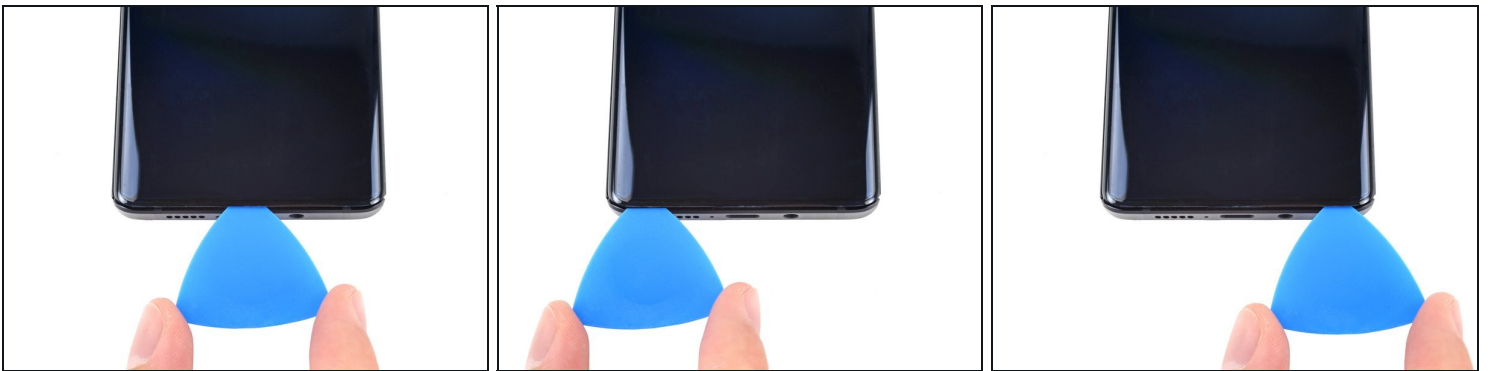
- [Heat an iOpener](#), then apply it along the bottom edge of the back cover for two minutes.
- ⓘ A hair dryer, heat gun, or hot plate may also be used, but be careful not to overheat the phone because the display and internal battery are both susceptible to heat damage.

Step 5 — Separate the bottom adhesive



- Apply a suction cup to the back of the phone, as close to the center of the bottom edge as possible.
- Pull up on the suction cup with strong, steady force to create a gap between the back cover and the frame.
 - ⓘ Depending on the age of your phone, this may be difficult. If you're having trouble, apply more heat to the edge and try again.
- Insert an opening pick into the gap.

Step 6 — Slice the bottom adhesive



- Slide the pick back and forth along the bottom edge to slice through the adhesive.
- Leave the pick in to prevent the adhesive from resealing.

Step 7 — Heat the right edge



- Apply a heated iOpener to the back cover's right edge for two minutes.

Step 8 — Separate the corner adhesive



- Rotate the opening pick around the bottom-right corner of the phone.

Step 9 — Separate the right adhesive



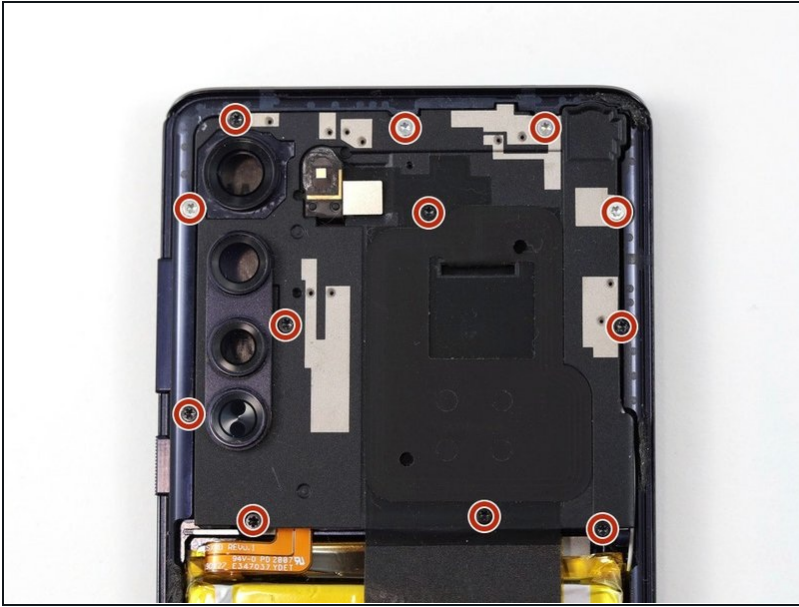
- Insert a new opening pick into the gap you just created.
- Slide the pick along the right edge of the phone to separate the adhesive.
- Repeat the heating, slicing, and leaving opening picks for the remaining edges of the device.

Step 10 — Remove the back cover



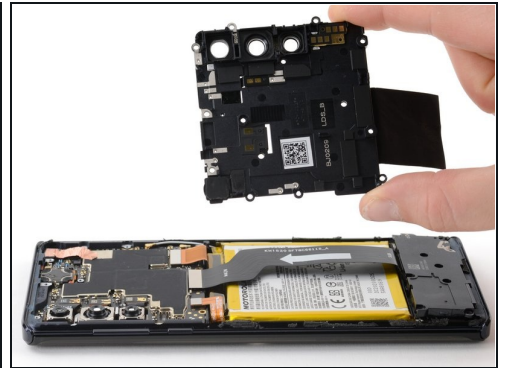
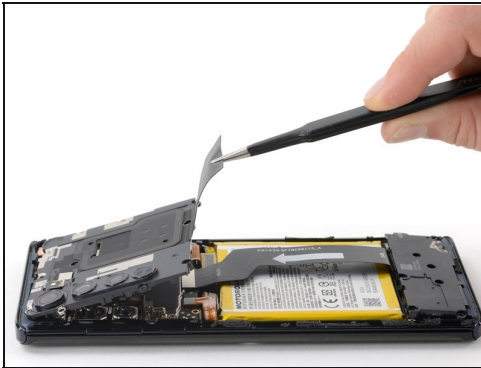
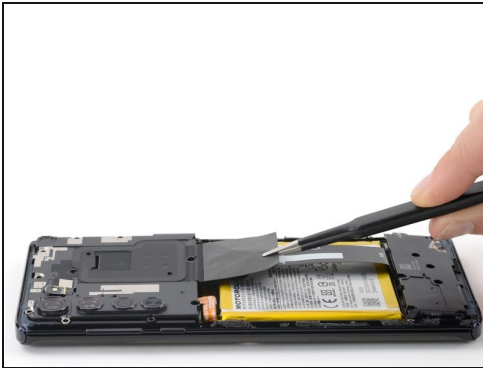
- Remove the back cover, taking care not to damage the components inside the phone.

Step 11 — Remove the motherboard's screws



- Use a T5 Torx screwdriver to remove the twelve 3.4 mm-long screws securing the motherboard cover.

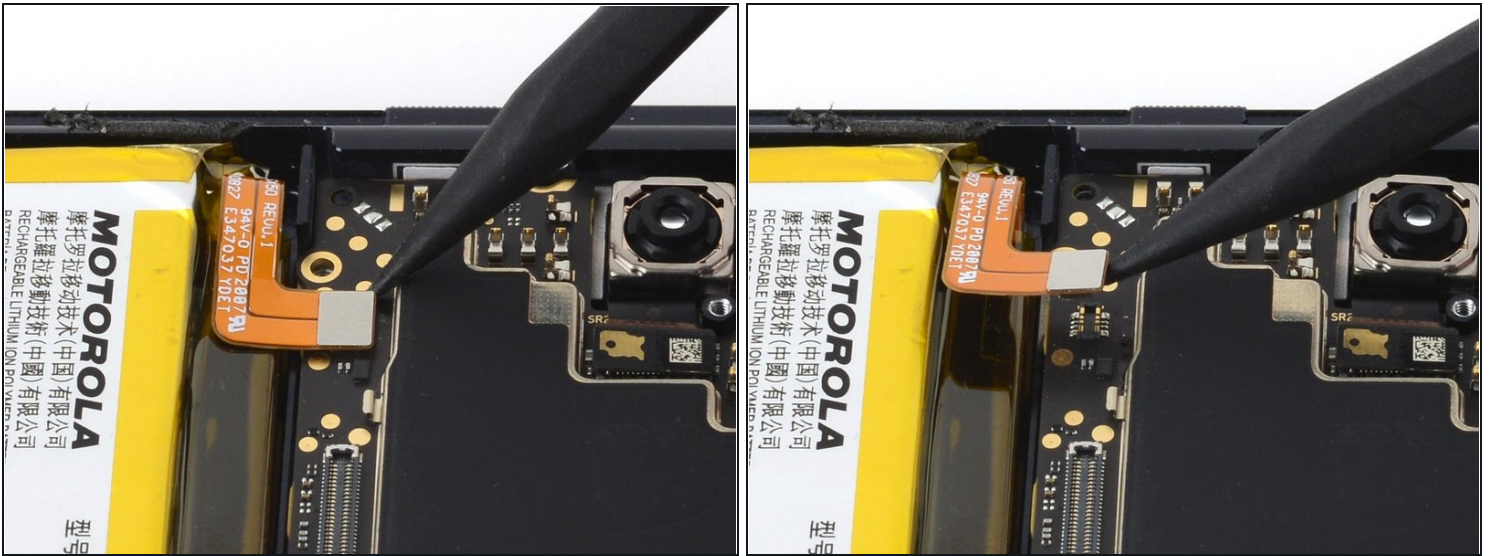
Step 12 — Remove the motherboard cover



- Use a pair of blunt tweezers or your fingers to lift up and remove the motherboard cover.

ⓘ The motherboard cover also contains the phone's flash.

Step 13 — Disconnect the battery cable's press connector



- Use a spudger to pry up and disconnect the battery cable's press connector from the motherboard.
- ☑ To re-attach [press connectors](#) like this one, carefully align and press down on one side until it clicks into place, then repeat on the other side. Don't press down on the middle. If the connector is misaligned, the pins can bend, causing permanent damage.

Step 14 — Remove the daughterboard's t5 screws



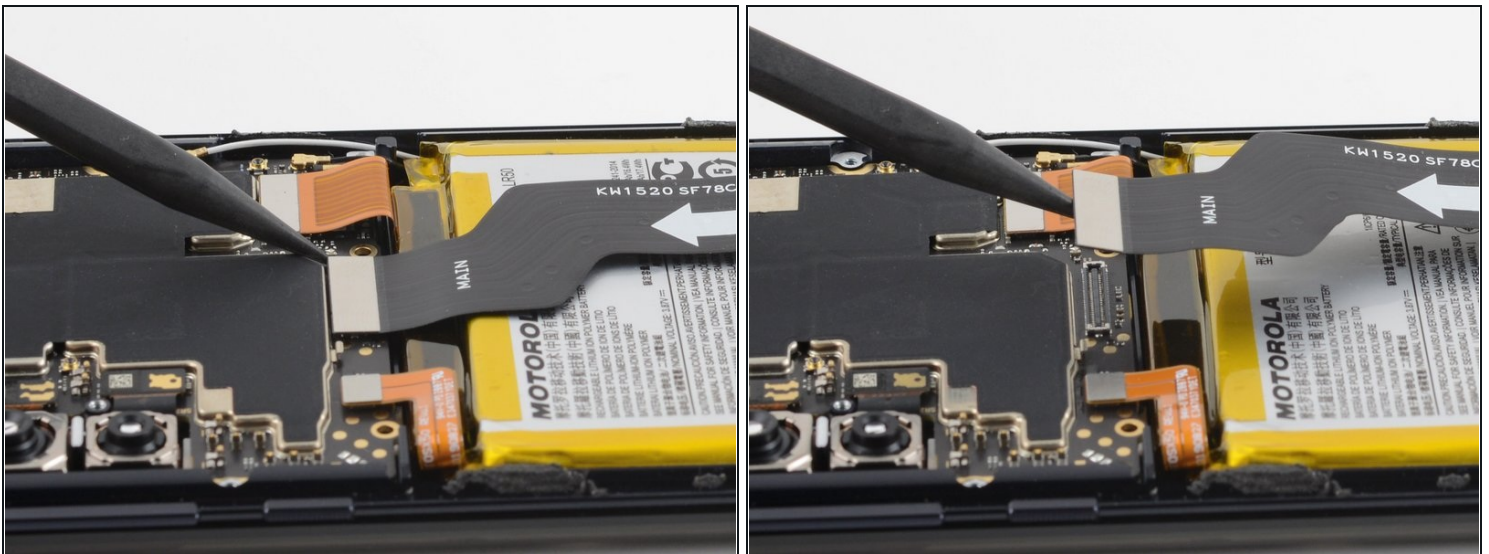
- Use a T5 Torx screwdriver to remove the nine 3.4 mm screws securing the daughterboard.

Step 15 — Remove the daughterboard cover



- Use a spudger to pry up the plastic daughterboard cover and disconnect it from the rest of the phone.

Step 16 — Disconnect the interconnect cable from the motherboard



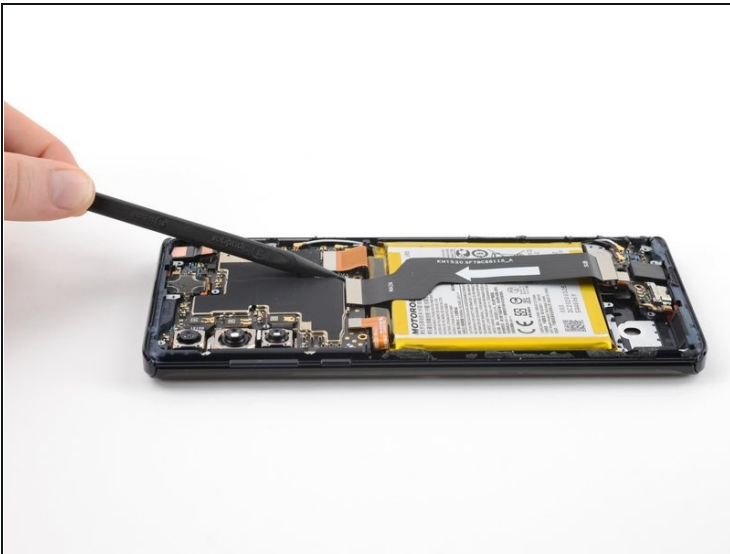
- Use a spudger to pry up and disconnect the interconnect cable's press connector from the motherboard.

Step 17 — Disconnect the interconnect cable from the daughterboard



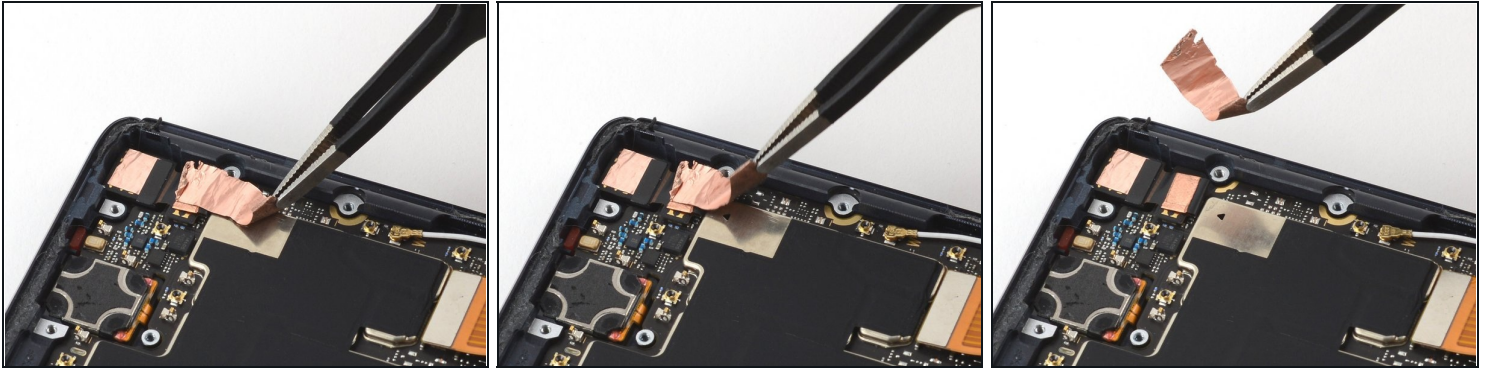
- Use a spudger to pry up and disconnect the interconnect cable's press connector from the daughterboard.

Step 18 — Remove the interconnect cable



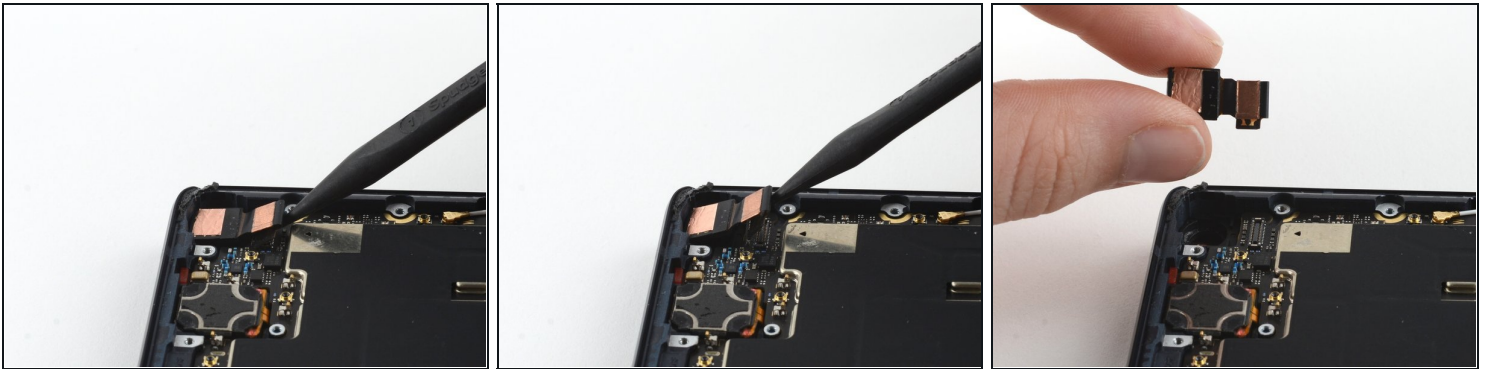
- Use your fingers to remove the interconnect cable after it has been disconnected from both the motherboard and daughterboard.

Step 19 — Remove the copper tape



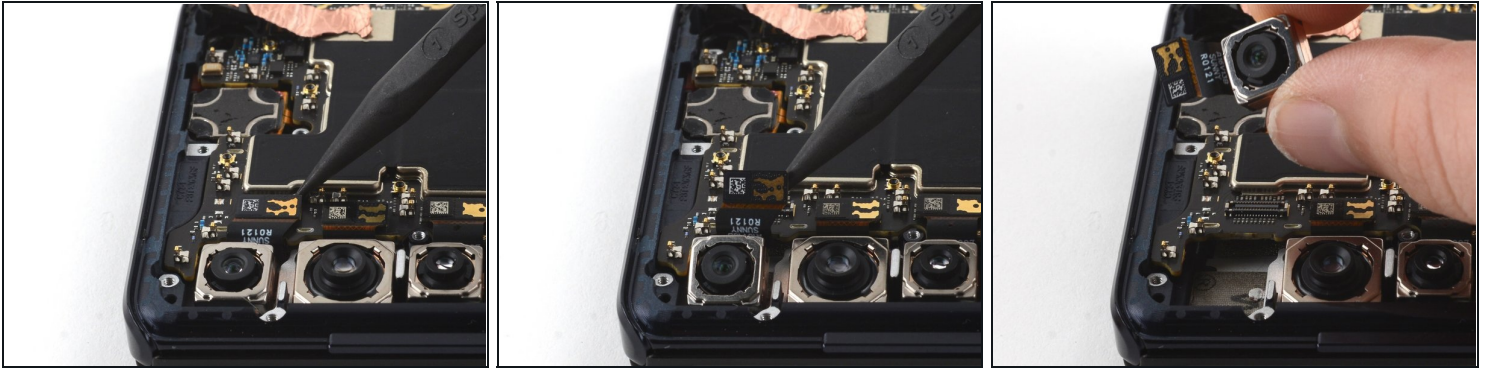
- Use a pair of blunt tweezers to peel up and remove the copper tape covering the front camera ribbon cable.

Step 20 — Remove the front camera cable's press connector



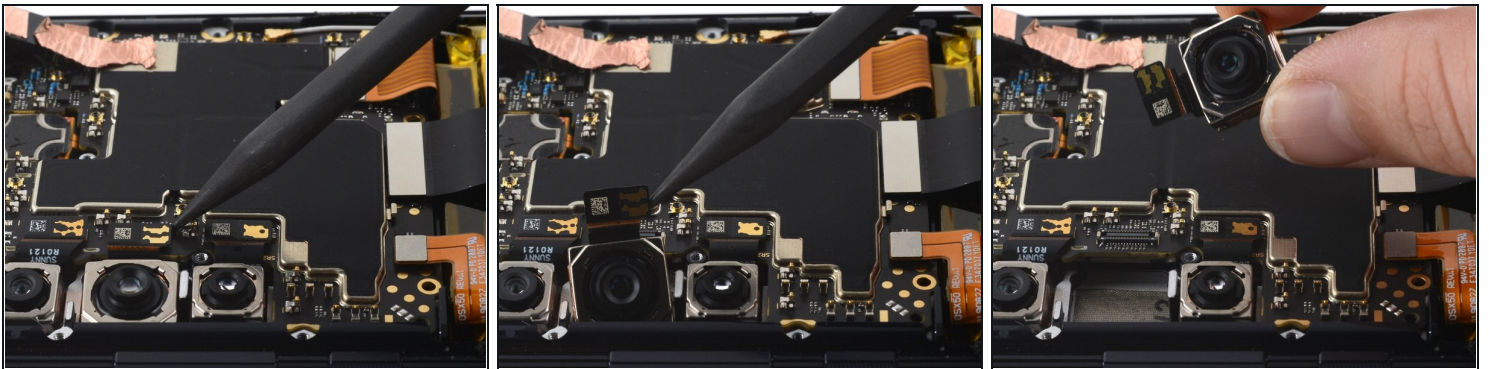
- Use a spudger to pry up the front camera cable's press connector and disconnect it from the motherboard.
- Remove the front camera.

Step 21 — Remove the wide angle camera's press connector



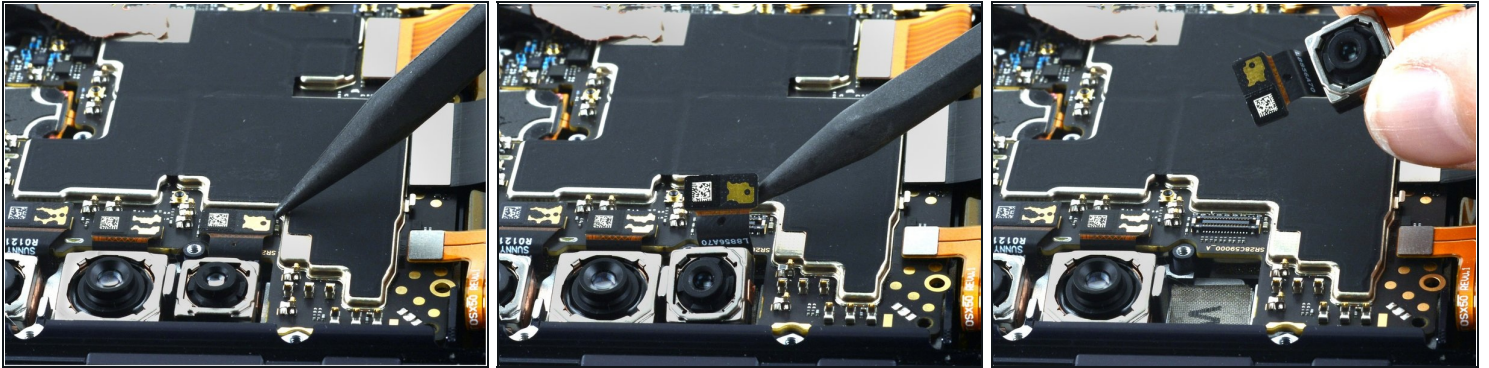
- Use a spudger to pry up the wide angle camera cable's press connector and disconnect it from the motherboard.
- Remove the wide angle camera.

Step 22 — Remove the main camera cable's press connector



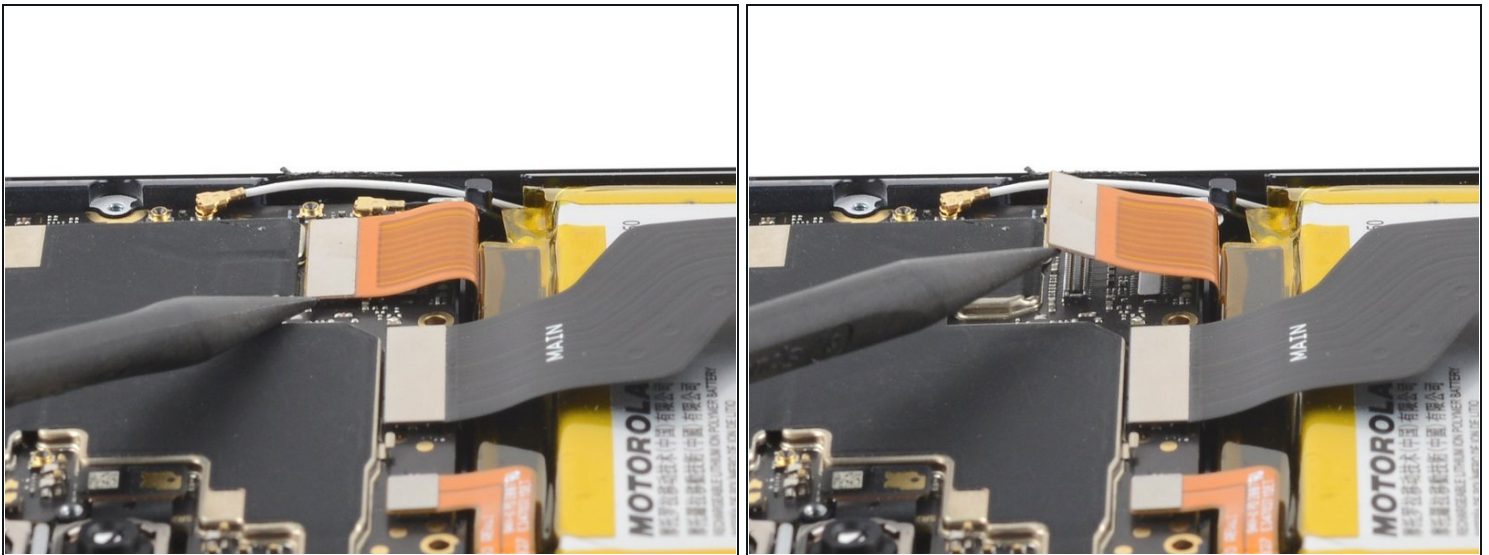
- Use a spudger to pry up the main camera cable's press connector and disconnect it from the motherboard.
- Remove the main camera.

Step 23 — Remove the telephoto camera's press connector



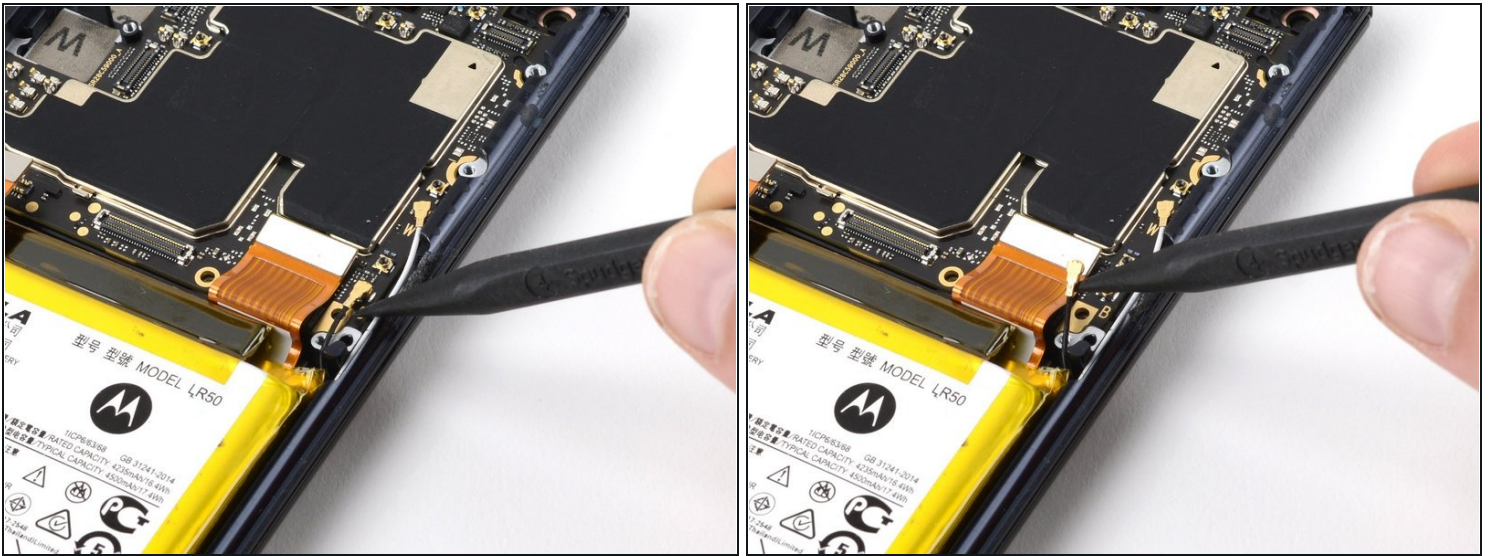
- Use a spudger to pry up and disconnect the telephoto camera cable's press connector from the motherboard.
- Remove the telephoto camera.

Step 24 — Disconnect the screen ribbon cable's press connector



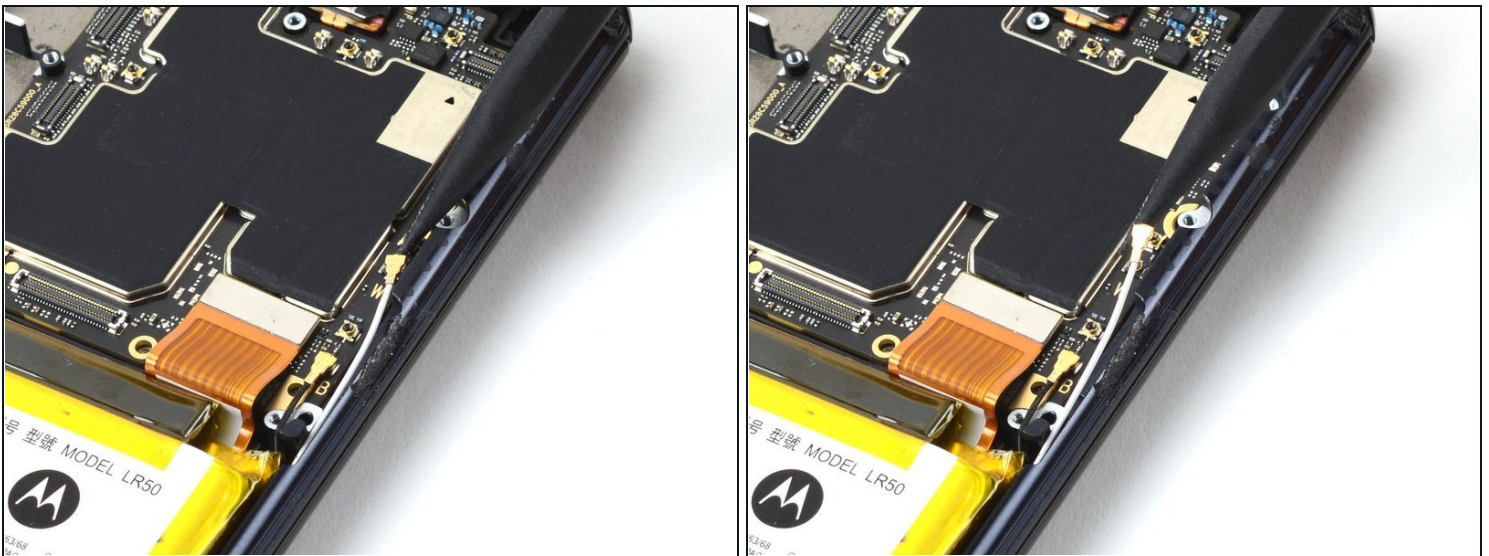
- Use a spudger to pry up and disconnect the screen ribbon cable's press connector from the motherboard.

Step 25 — Disconnect the black coaxial cable



- Use a spudger to pry up the black coaxial cable and detach it from the motherboard.

Step 26 — Disconnect the white coaxial cable



- Use a spudger to pry up the white coaxial cable and detach it from the motherboard.

Step 27 — Remove the motherboard



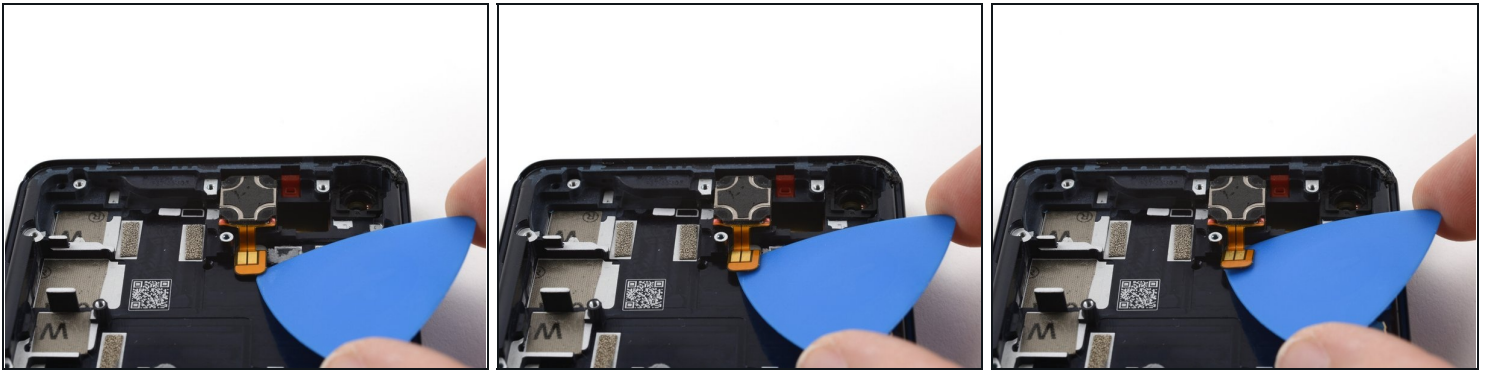
- Use a spudger to pry up and remove the motherboard.
- ☑ Make sure no cables get trapped under the motherboard during reassembly.

Step 28 — Weaken the earpiece speaker's adhesive



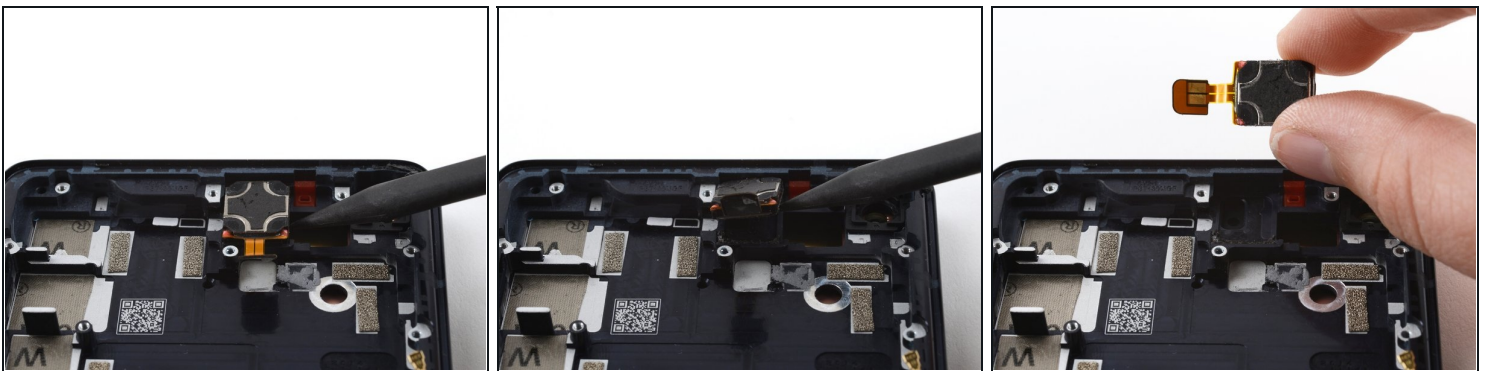
- Apply a drop or two of isopropyl alcohol to weaken the adhesive securing the earpiece speaker.
- Wait thirty seconds for the isopropyl alcohol to weaken the adhesive.
- ① The adhesive is located both under the ribbon cable and under the earpiece speaker.

Step 29 — Disconnect the earpiece speaker cable



- Use an opening pick to disconnect the earpiece speaker cable from the midframe.

Step 30 — Remove the earpiece speaker



- Pry at the edge of the earpiece speaker with a spudger to detach it from the frame.
- ⓘ If there's any alcohol solution remaining in the phone, carefully wipe it off with a lint-free cloth or allow it to air dry before installing the earpiece speaker.
- ★ During reassembly, [follow this guide](#) if you are using a pre-cut adhesive card to reinstall the earpiece speaker.

Step 31 — Disconnect the fingerprint sensor cable's press connector



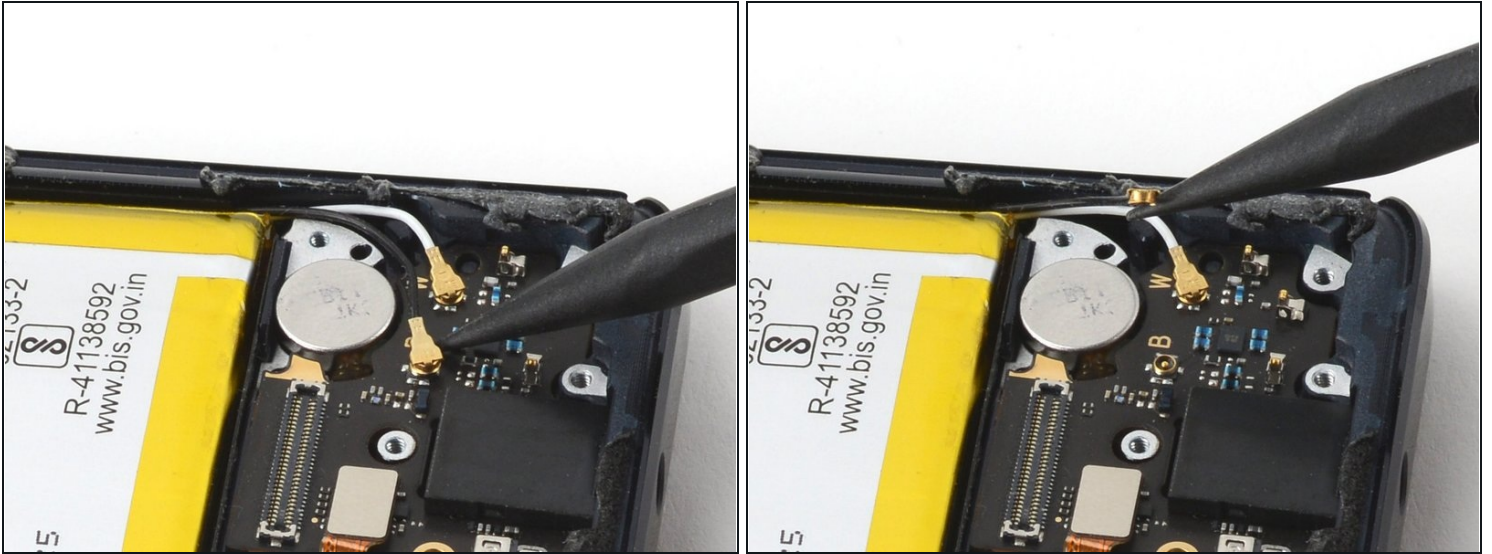
- Use a spudger to pry up the fingerprint sensor cable's press connector and disconnect it from the daughterboard.

Step 32 — Remove the daughterboard screw



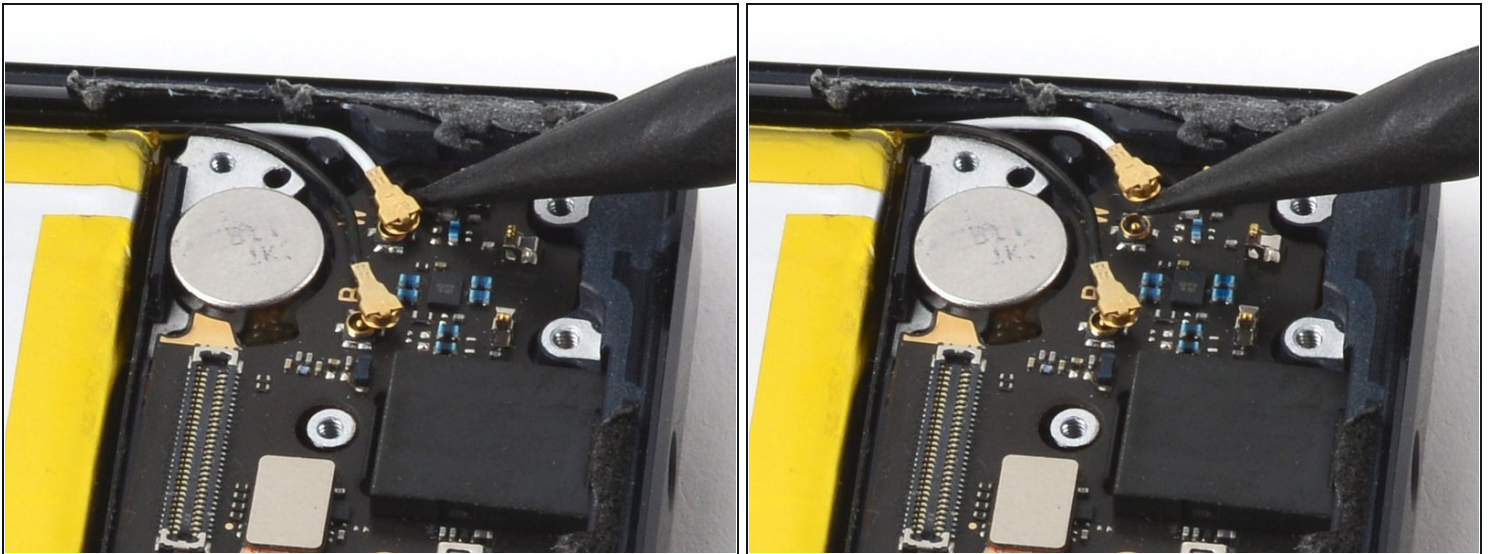
- Use a T5 Torx screwdriver to remove the single 3.2 mm screw securing the daughterboard.

Step 33 — Disconnect the black coaxial cable



- Use a spudger to pry up the black coaxial cable and detach it from the daughterboard.

Step 34 — Disconnect the white coaxial cable



- Use a spudger to pry up the white coaxial cable and disconnect it from the daughterboard.

Step 35 — Remove the daughterboard



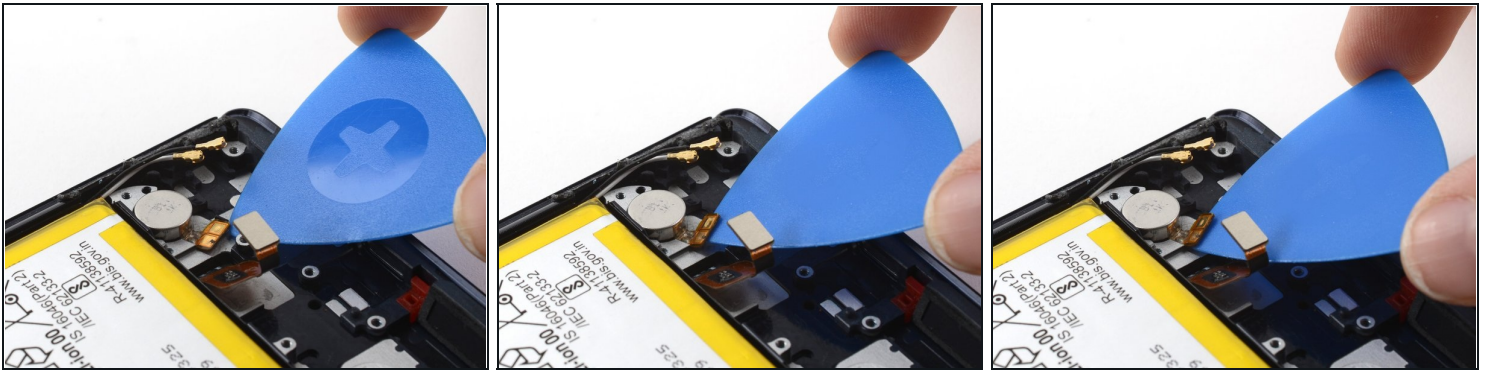
- Use a spudger to pry up and separate the daughterboard from the rest of the phone.
- ① When removing and replacing the daughterboard, be careful not to damage any of the cables that attach to it.

Step 36 — Weaken the vibrator's adhesive



- Use a drop or two of isopropyl alcohol to weaken the adhesive attaching the vibrator to the phone's frame.
- Wait thirty seconds for the isopropyl alcohol to weaken the adhesive under the vibrator.

Step 37 — Detach the vibrator's ribbon cable



- Use an opening pick to carefully separate the vibrator's ribbon cable from the frame of the phone.

Step 38 — Remove the vibrator



- Use a spudger to carefully separate and remove the vibrator.
- ☑ If there's any alcohol solution remaining in the phone, carefully wipe it off with a lint-free cloth or allow it to air dry before installing the vibrator.
- ☑ During reassembly, [follow this guide](#) if you are using a pre-cut adhesive card to reinstall the vibrator.

Step 39 — Weaken the battery's adhesive



- Heat an iOpener and place it on the screen for two minutes in order to loosen the adhesive on the battery.
- ❗ You may need to reheat and reapply the iOpener several times to get the phone warm enough. [Follow the iOpener instructions](#) to avoid overheating.

Step 40 — Create a gap between the battery and the frame



- Wedge the pointed end of an opening pick between the right side of the battery and the midframe.
- ⚠ Take care not to puncture or bend the battery with your tool—a punctured or bent battery may leak dangerous chemicals or cause a fire.
- ⚠ Be careful not to damage the screen's ribbon cable, which is located underneath the battery.

Step 41 — Switch to a plastic card



- After making a gap between the battery and the frame, replace the opening pick with a [plastic card](#).
- ① A plastic card will help ensure that the battery is not bent or damaged while being removed.

Step 42 — Cut through the battery's adhesive



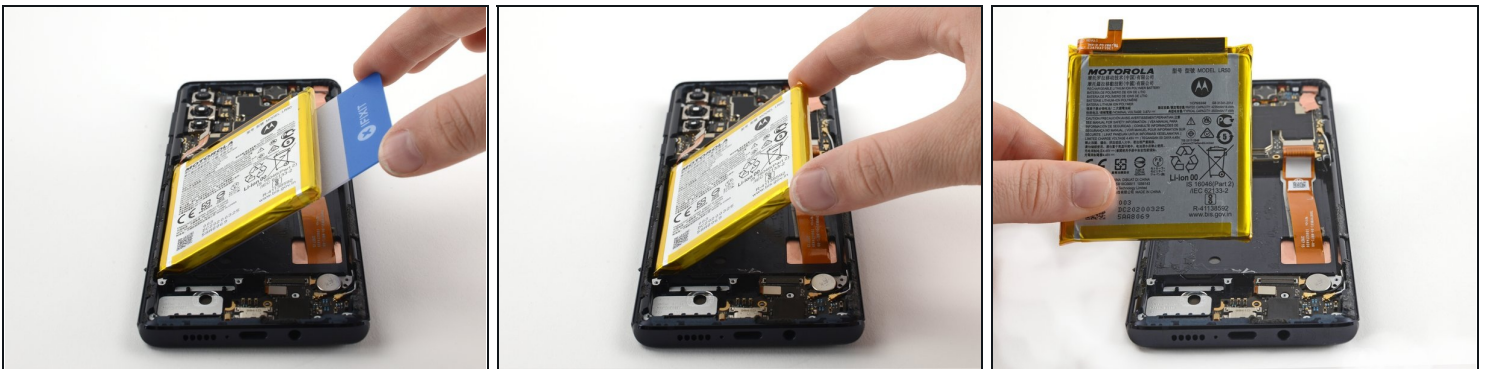
- Carefully slide a plastic card underneath the battery to cut through the adhesive.

Step 43 — Remove the battery



- Slide a plastic card under the battery, then carefully lift the battery up until the adhesive is loose enough to remove the battery.

Step 44

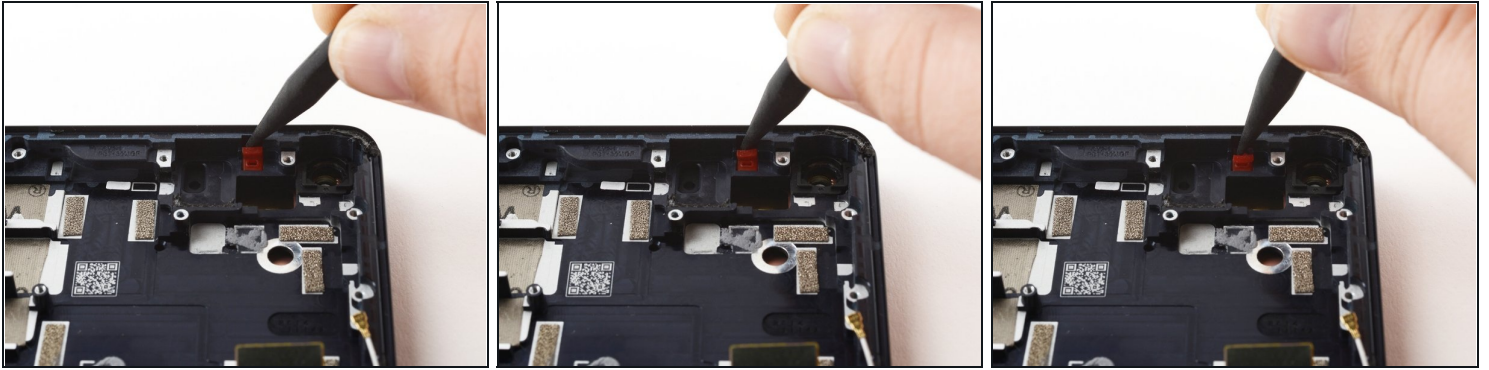


- Separate and remove the battery from the midframe.

⚠ If the battery is deformed, dented, or damaged in any way, don't reinstall it. Reinstalling a damaged battery is a potential safety hazard. Replace it with a new one.

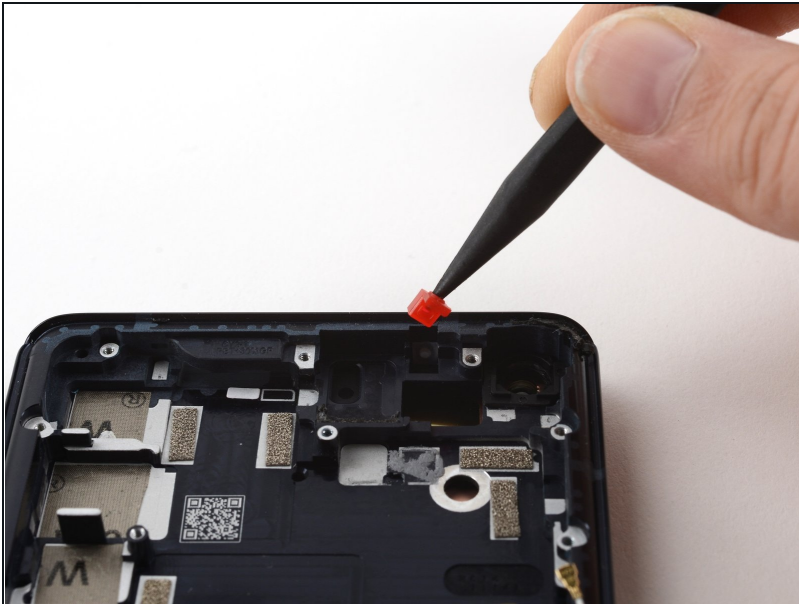
- ☑ During reassembly, [follow this guide](#) if you are using a pre-cut adhesive card to reinstall the battery.

Step 45 — Wedge a spudger behind the microphone gasket



- Insert the pointed end of a spudger behind the red microphone gasket at the top of the midframe.
- ① There is a small hole in the microphone gasket. You can gently place the spudger in the hole to help remove the gasket from the midframe.

Step 46 — Remove the microphone gasket



- Use a spudger to dislodge and remove the red microphone gasket from the top of the midframe.

Step 47 — Wedge a spudger behind the microphone gasket



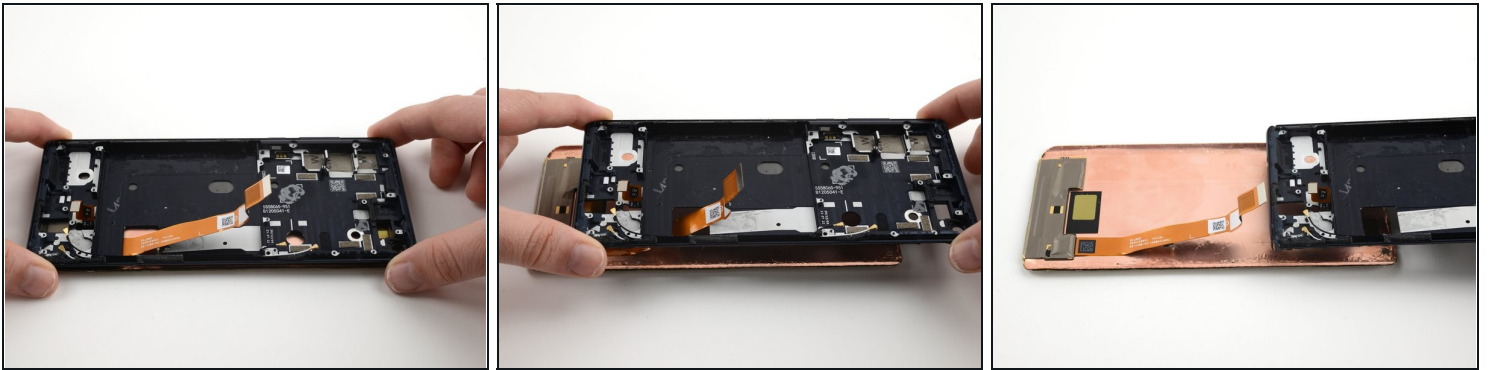
- Insert the pointed end of a spudger behind the red microphone gasket at the bottom of the midframe.
- ① There is a small hole in the microphone gasket. You can gently place the spudger in the hole to help remove the gasket from the midframe.

Step 48 — Remove the microphone gasket



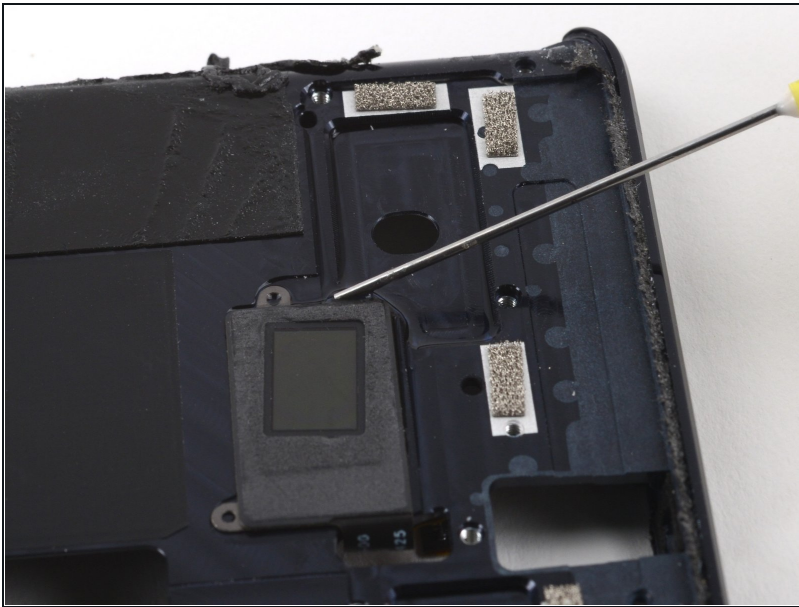
- Insert the pointed end of a spudger behind the microphone gasket at the bottom of the midframe.

Step 49 — Remove the midframe



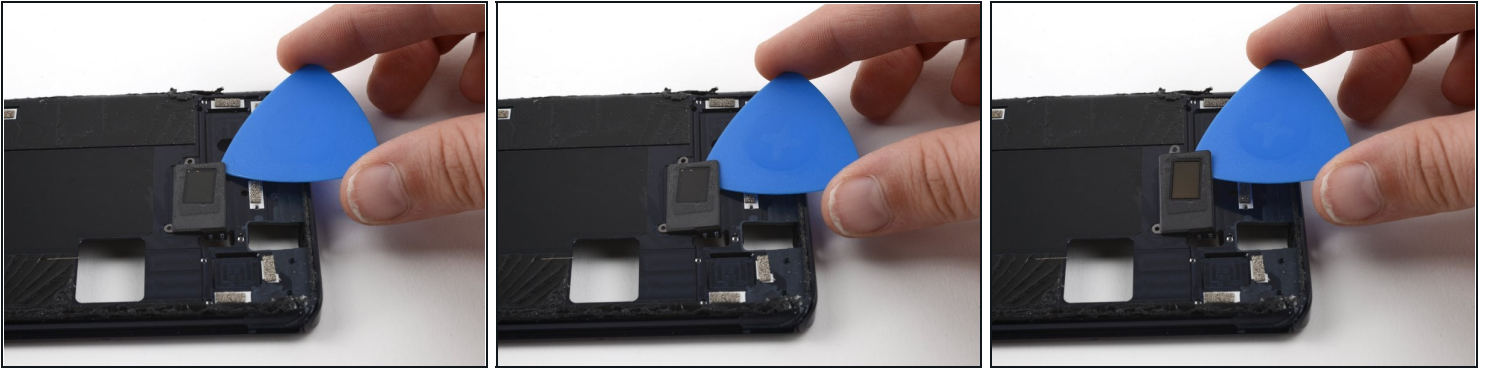
- Turn the phone over and remove the midframe while gently threading the screen ribbon cable through the opening in the midframe.

Step 50 — Weaken the fingerprint sensor's adhesive



- Use a drop or two of isopropyl alcohol to weaken the fingerprint sensor's adhesive.
- Wait thirty seconds for the isopropyl alcohol to weaken the adhesive.

Step 51 — Disconnect the fingerprint sensor cable



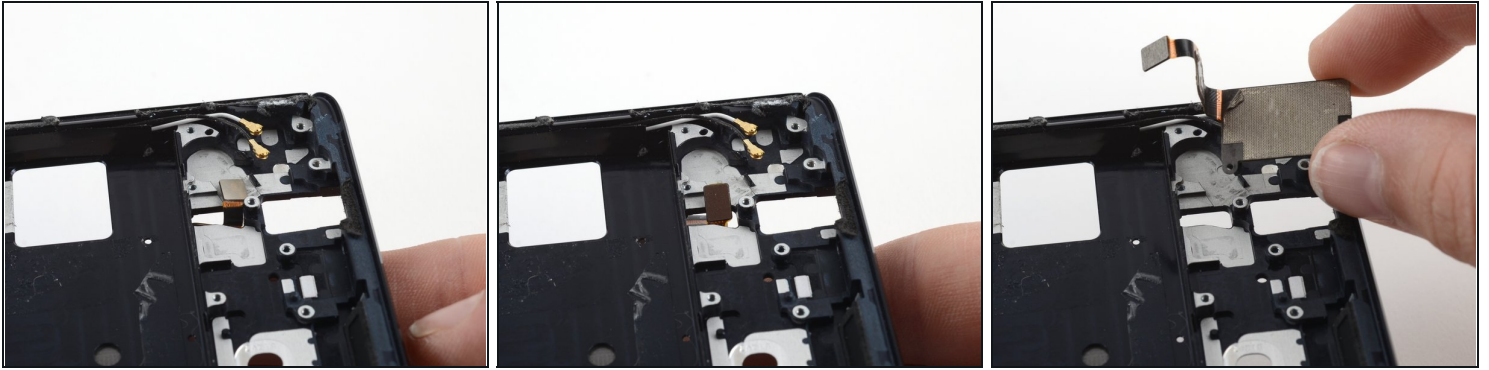
- Use an opening pick to carefully separate the fingerprint sensor cable from the midframe.

Step 52 — Thread the fingerprint sensor cable



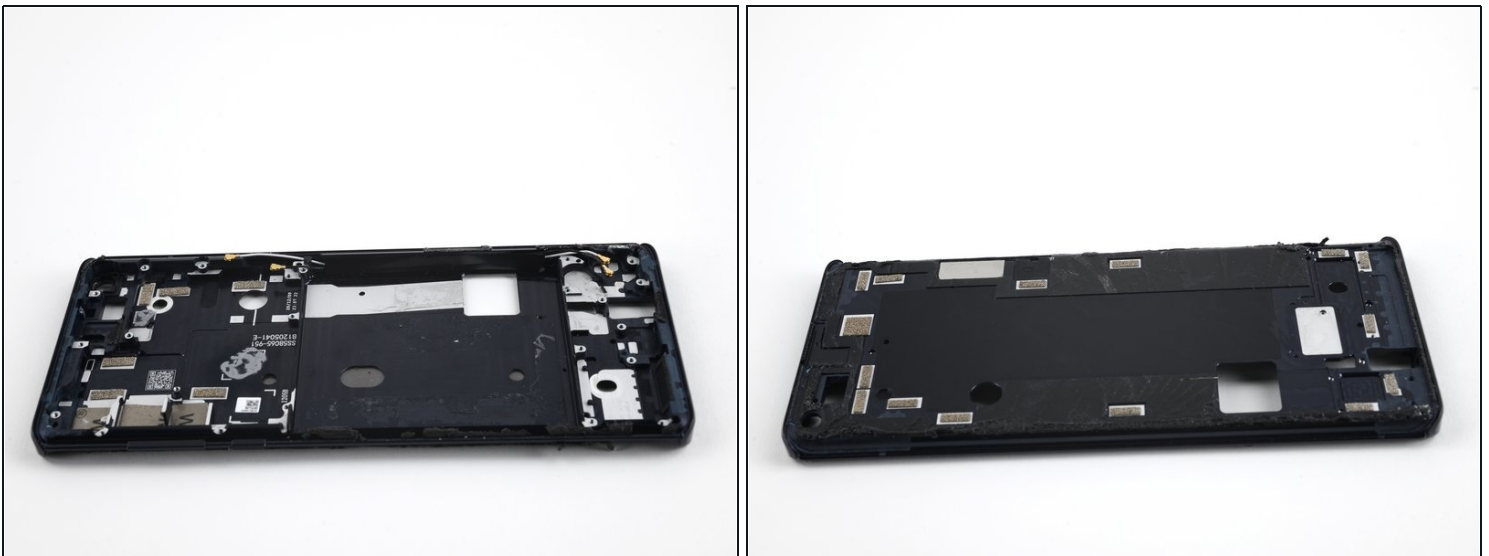
- Turn the phone over, then carefully thread the the fingerprint sensor cable through the opening in the midframe.

Step 53



- Carefully finish separating the fingerprint sensor from the midframe.
- Remove the fingerprint sensor.

Step 54 — Separate the midframe



- Once the fingerprint sensor has been removed, the midframe is ready to be replaced.

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

For optimal performance, [calibrate your newly installed battery](#) after completing this guide.

Take your e-waste to an [R2 or e-Stewards certified recycler](#).

Repair didn't go as planned? Try some [basic troubleshooting](#), or ask our [Answers Community](#) for help.

Compare your new replacement part to the original part—you may need to transfer remaining components or remove adhesive backings from the new part before you install it.