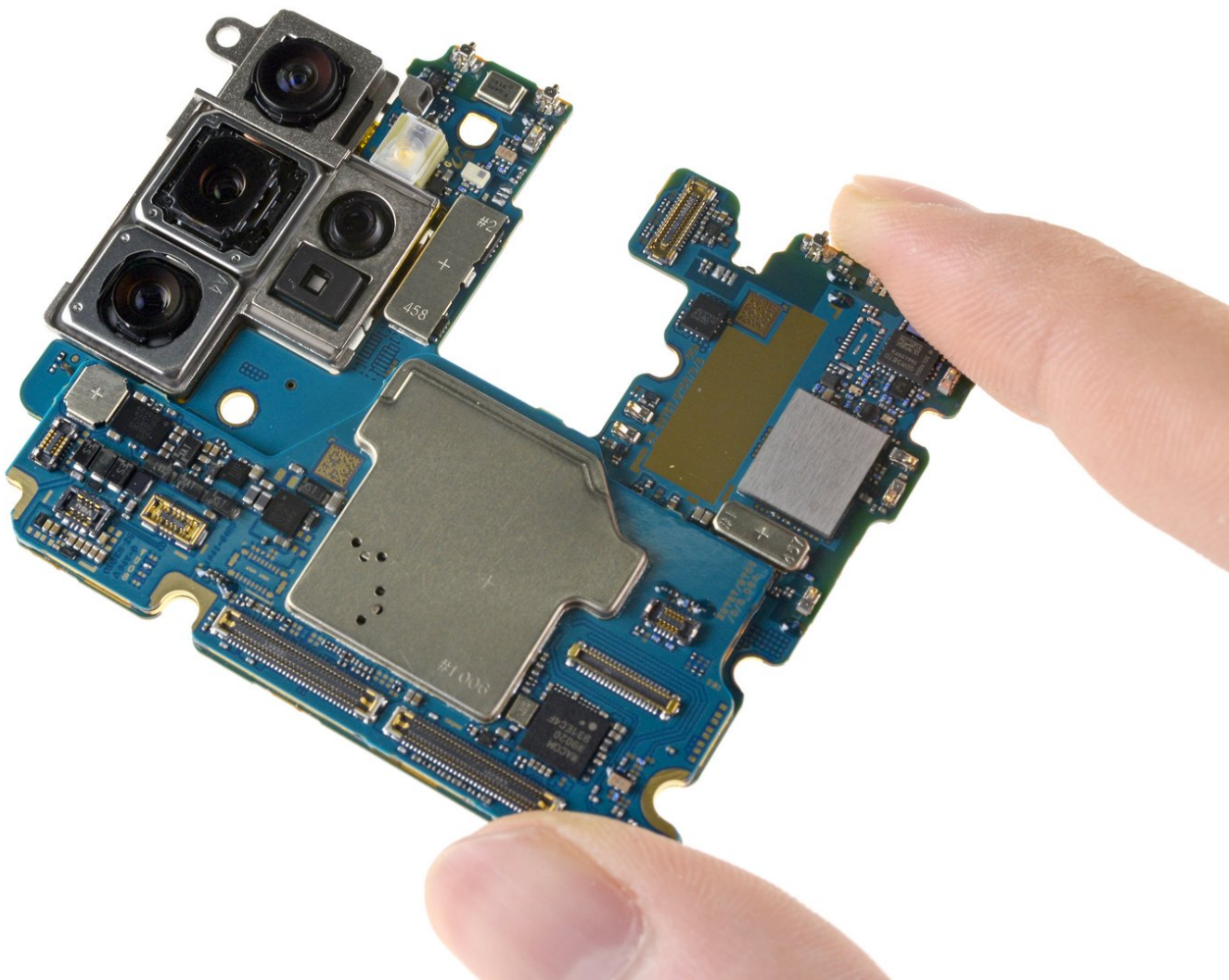# Samsung Galaxy Note10+ 5G Motherboard Replacement

Use this guide to remove or replace the...

Written By: Arthur Shi

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INTRODUCTION

Use this guide to remove or replace the motherboard on your Samsung Galaxy Note10+ 5G.

This guide uses steps written for the non-5G Note10+. Some images in this guide may show minor discontinuities. They shouldn't affect the overall guide procedure.
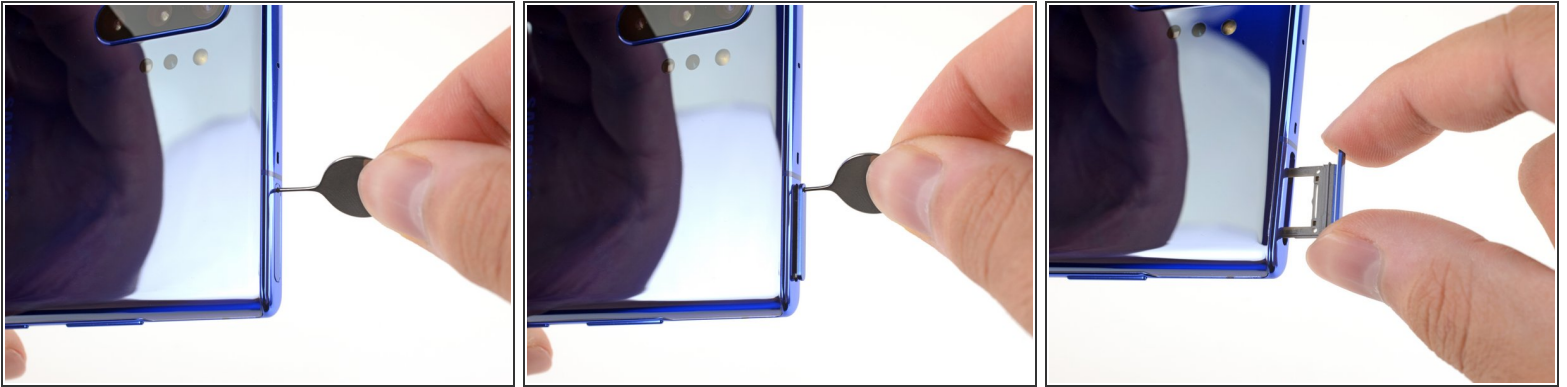
🔧 TOOLS:

- iOpener (1)
- iFixit Opening Picks (Set of 6) (1)
- Suction Handle (1)
- Spudger (1)
- Tweezers (1)
- Phillips #00 Screwdriver (1)
- SIM Card Eject Tool (1)

⚙ PARTS:

- Galaxy Note10+ Rear Cover Adhesive (1)

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Step 1 — Remove the SIM card

- Insert a SIM eject tool, bit, or a straightened paper clip into the small hole on the SIM card tray on the top edge of the phone.

- Press firmly to eject the tray.

- Remove the SIM card tray.

Step 2 — Heat the rear cover

⚠ Completely power off your phone before you begin disassembly.

- [Prepare an iOpener](#) and apply it to the left edge of the rear cover for one minute.

  ⓘ A hair dryer, heat gun, or hot plate may also be used, but be careful not to overheat the phone —the display and internal battery are both susceptible to heat damage.

Step 3 — Insert an opening pick

- Apply a suction cup to the heated edge of the rear cover, as close to the edge as possible.

  - ⓘ If your rear cover is badly cracked, covering it with a layer of clear packing tape may allow the suction cup to adhere. Alternatively, very strong tape may be used instead of the suction cup. If all else fails, you can superglue the suction cup to the broken cover.

- Pull up on the suction cup with strong, steady force to create a gap between the rear cover and the frame.

  - ⓘ Depending on the age of your phone, this may be difficult. If you are having trouble, apply more heat to the edge and try again.

- Insert the point of an opening pick into the gap.

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Step 4 — Begin to slice the adhesive

- Slide the opening pick along the left edge towards the bottom left corner to slice the adhesive.

  ⚠ Don't insert the opening pick more than halfway into the phone or you risk damaging internal components.

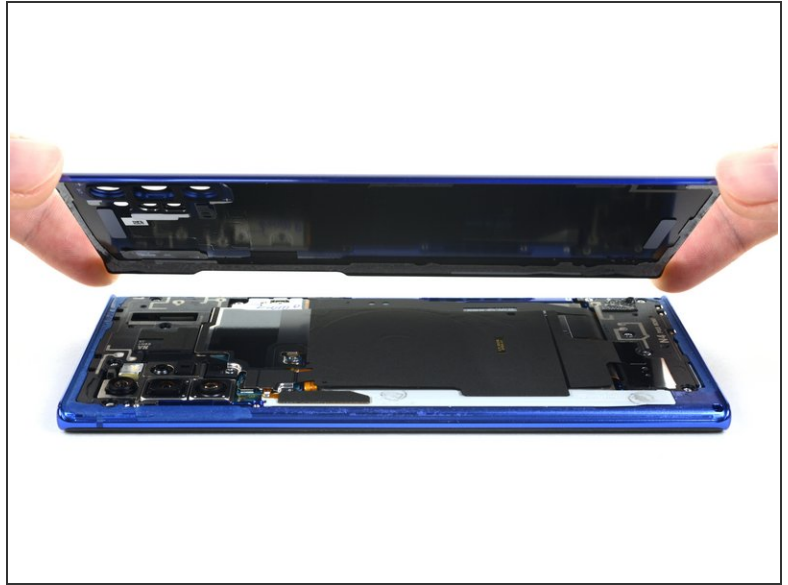- Leave the pick inserted in the bottom left corner to prevent the adhesive from re-sealing.

Step 5 — Slice around the perimeter of the phone

- Repeat the previous heating and cutting procedure for the remaining three sides of the phone.

- Leave an opening pick on each side as you continue to the next to prevent the adhesive from resealing.

- ⓘ The rear cover will begin to separate from the phone as you finish all sides of the phone.

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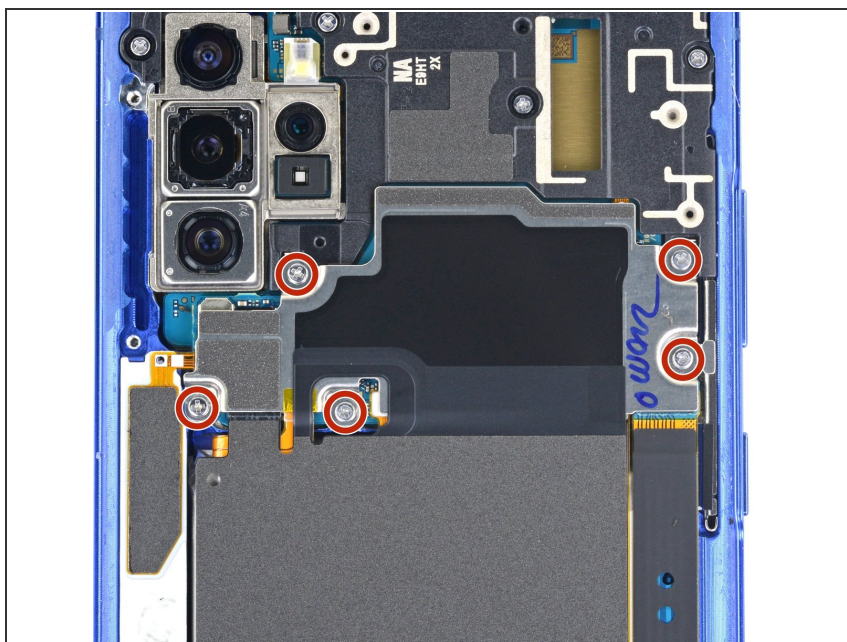## Step 6 — Lift off the rear cover

- Lift the rear cover straight up to remove it.

- 📌 [Follow this guide](#) to reinstall the rear cover and replace the adhesive.

  - ⓘ Be sure to turn on your device and test your repair before installing new adhesive and resealing the device.
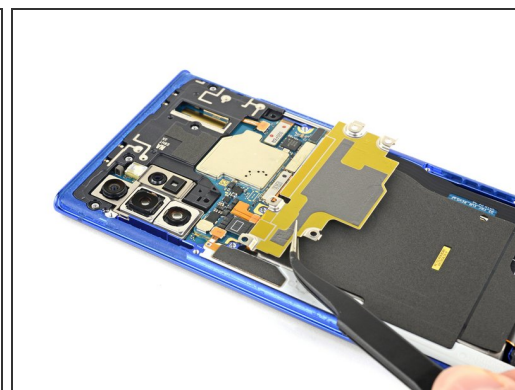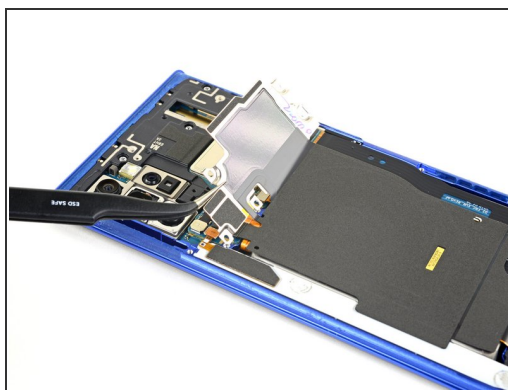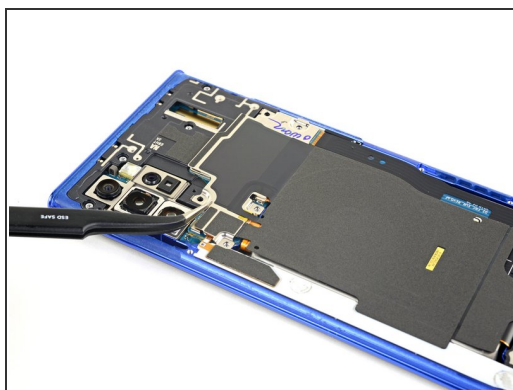
- 📌 If you're using Tesa tape to reattach components, [follow this guide](#).

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Step 7 — Lift up the metal cover

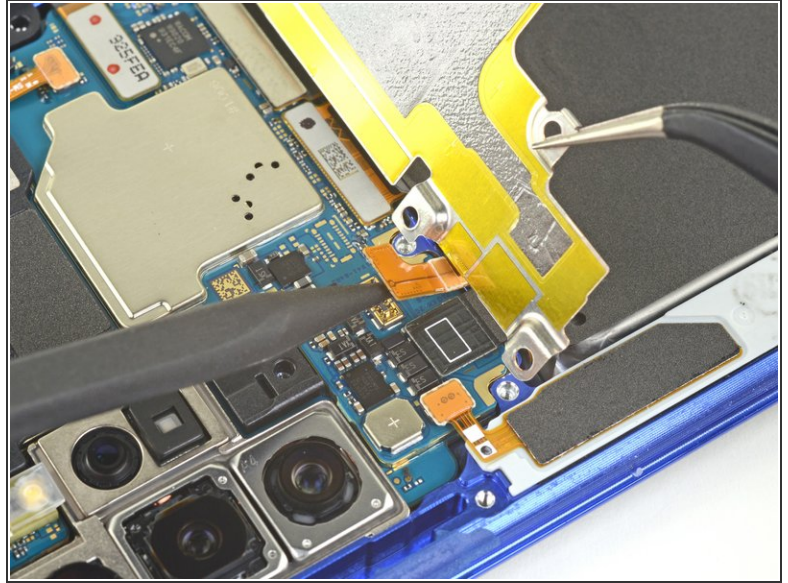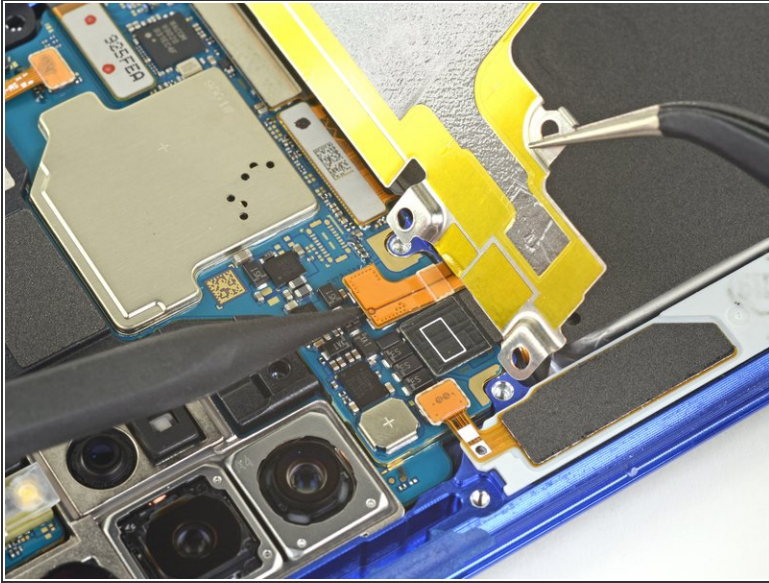- Use a Phillips screwdriver to remove the five 4 mm screws securing the wireless charging coil.

Step 8

- Use a pair of tweezers to lift up and flip back the metal shield covering the battery connector.
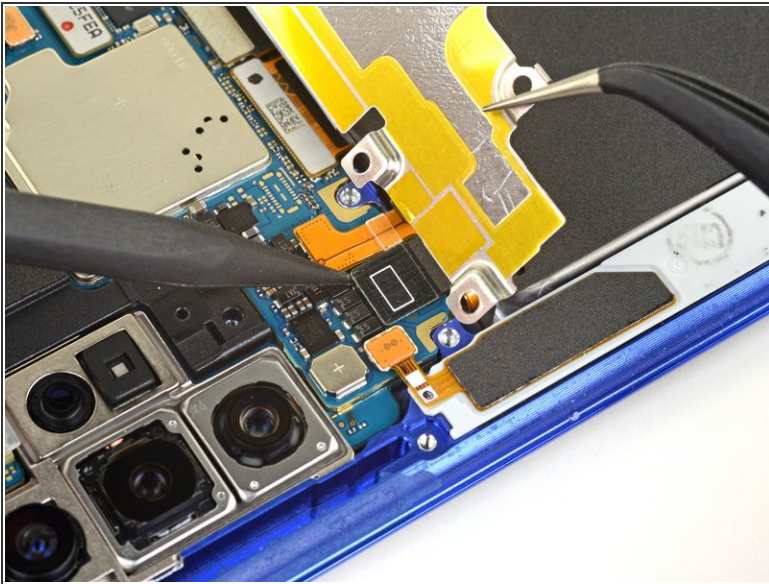
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Step 9 — Disconnect the battery

- While holding the metal shield up and out of the way, use the pointed end of a spudger to pry up the battery connector to disconnect it.
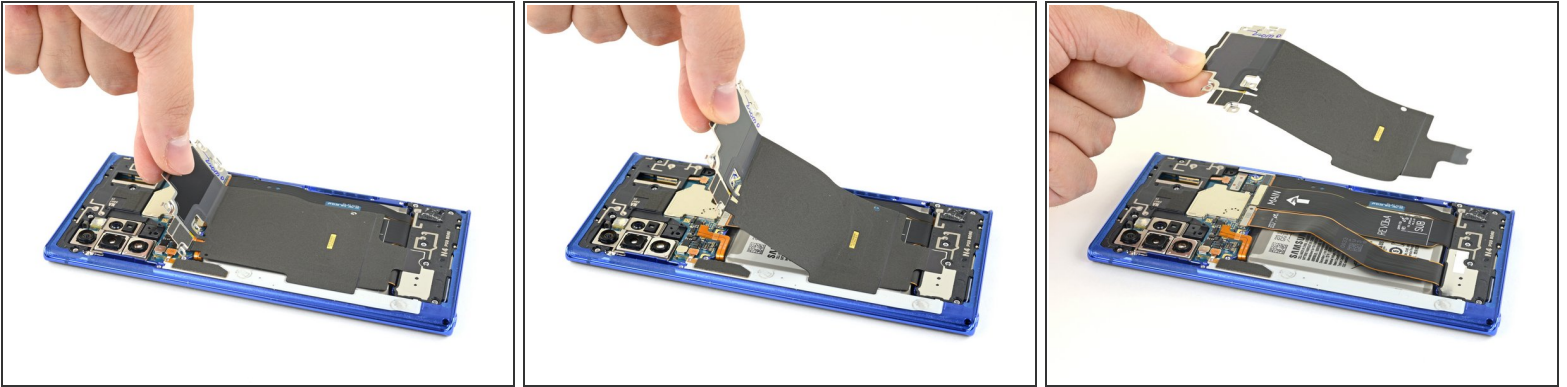
Step 10 — Disconnect the wireless charging coil

- Use the pointed end of a spudger to disconnect the wireless charging coil connector from the motherboard.

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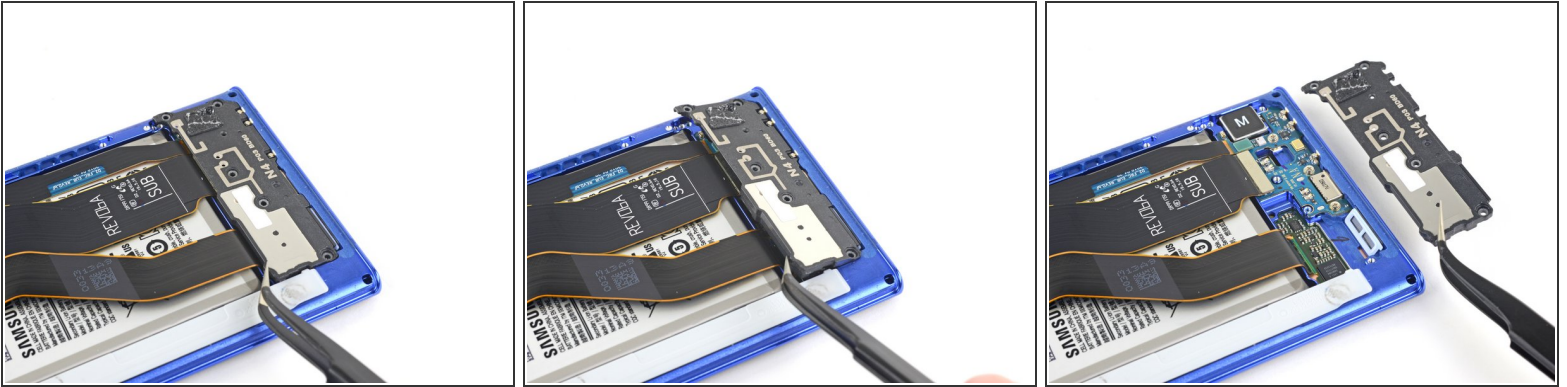## Step 11 — Remove the wireless charging coil

- Tilt the metal shielding up so you can grip it with your fingers.

- Peel the wireless charging coil up and away from the device.

  - (i) The wireless charging coil is secured to the phone with some light adhesive.

- Remove the wireless charging coil.

Step 12 — Remove the loudspeaker screws

- Use a Phillips screwdriver to remove the five 4 mm screws securing the loudspeaker.

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Step 13 — Remove the loudspeaker

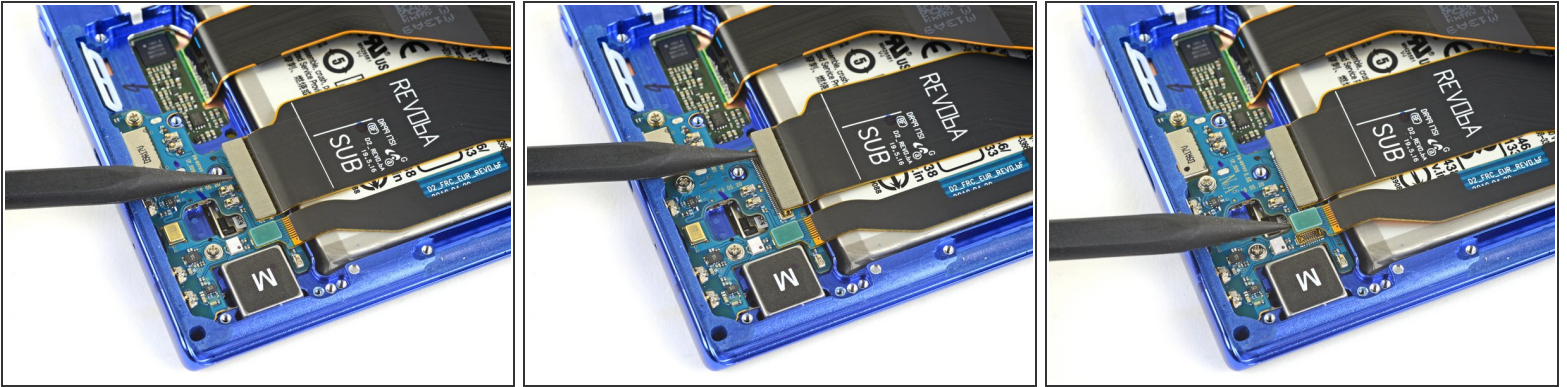- Use a pair of tweezers to remove the loudspeaker.

Step 14 — Disconnect the interconnect cables

- Use the pointed end of a spudger to disconnect the main interconnect cable from the motherboard.

- Disconnect the secondary interconnect cable from the motherboard.

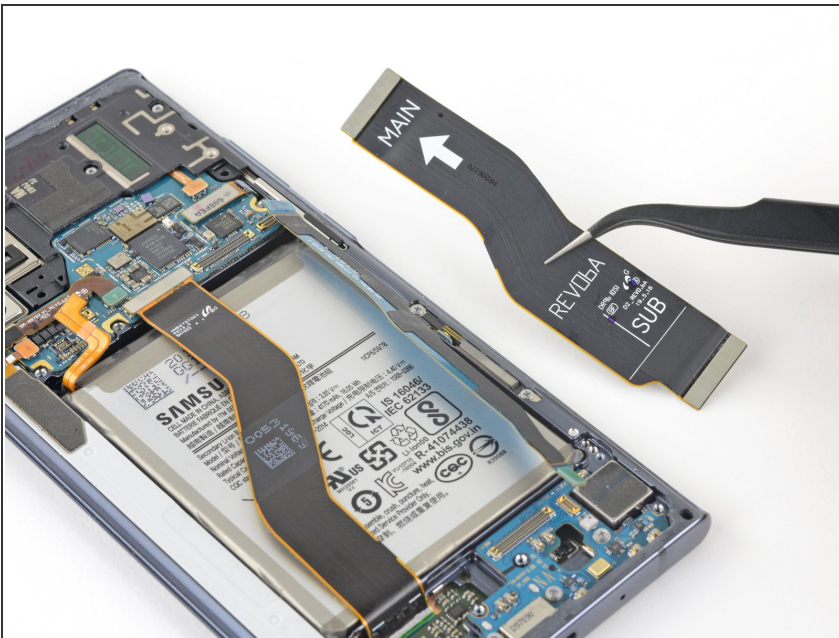This document was generated on 2022-12-11 03:11:36 AM (MST).

Step 15

- Use the pointed end of a spudger to disconnect the main interconnect cable from the daughterboard.

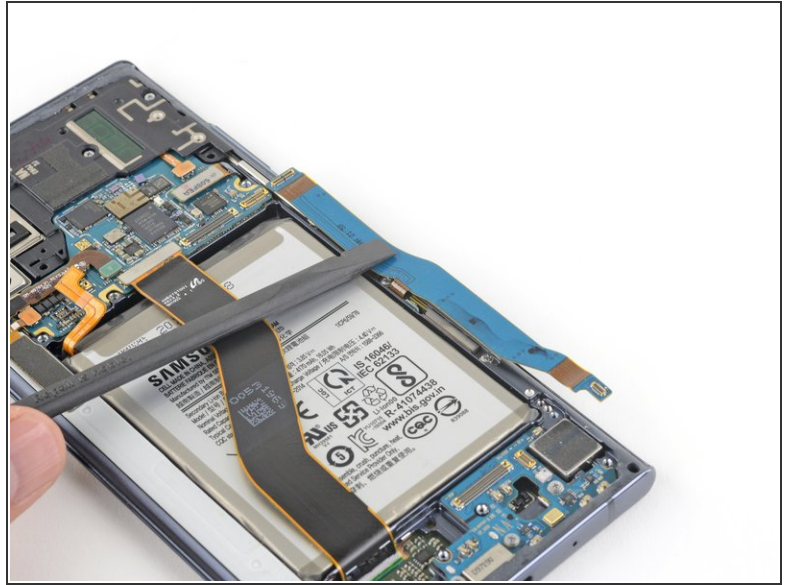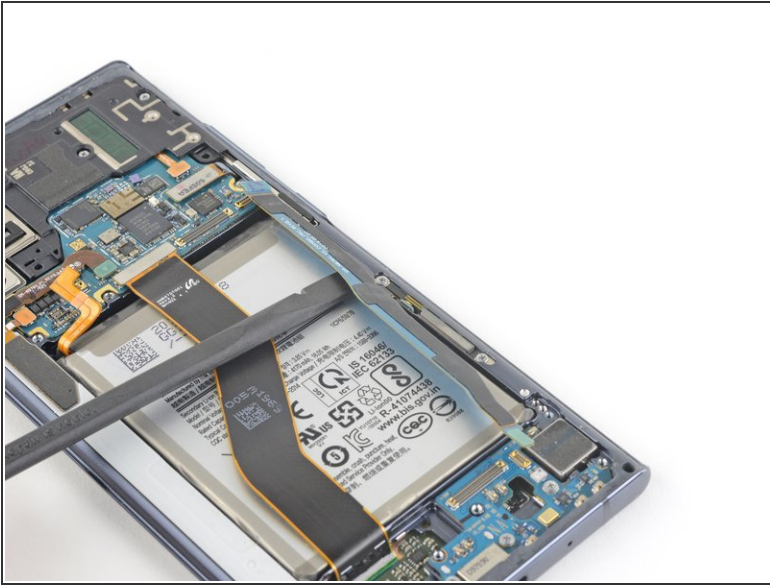- Disconnect the secondary interconnect cable from the daughterboard.

Step 16

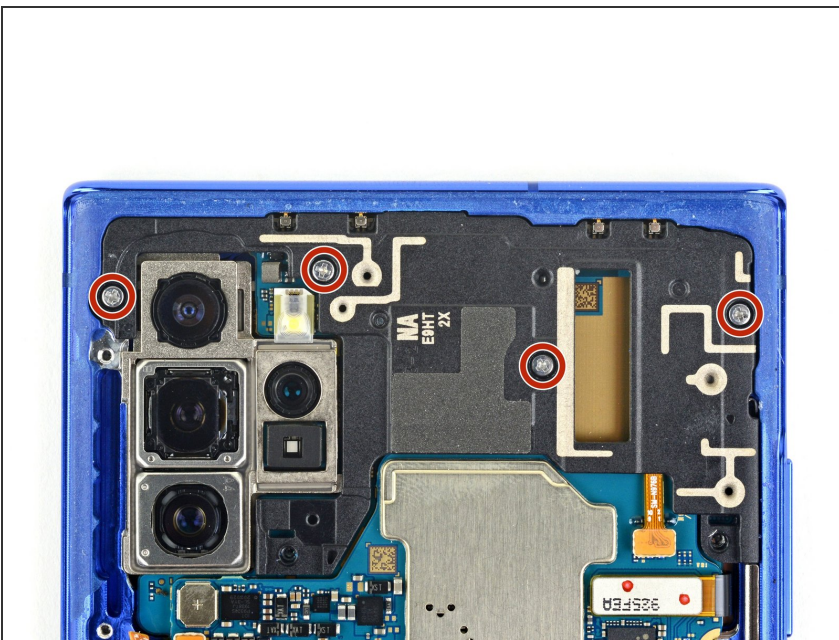- Remove the main interconnect cable.

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Step 17

⚠ Don't try to remove the secondary interconnect cable. The cable is connected to the side 5G mmWave antenna.
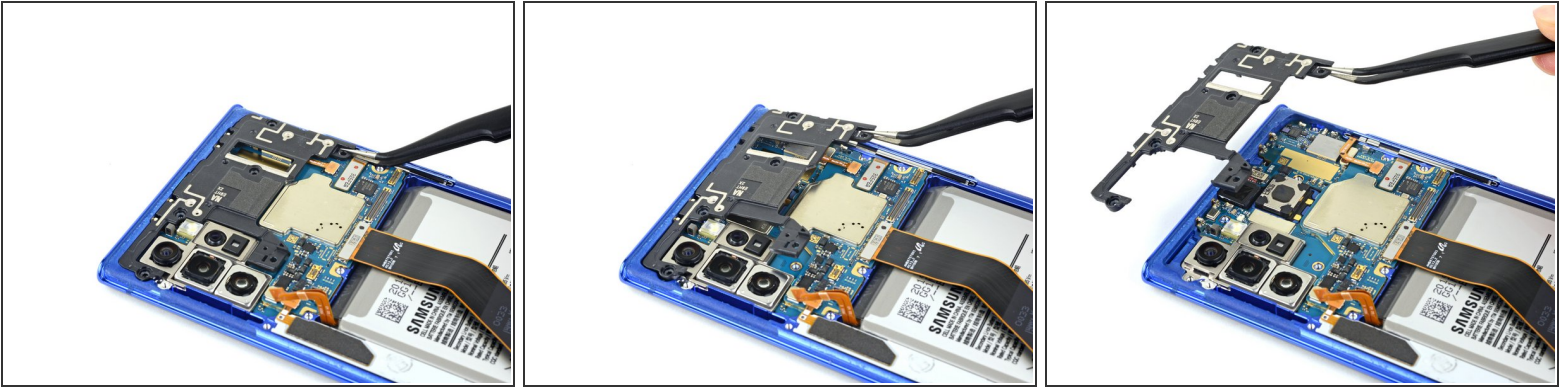
● Use a spudger or your fingers to gently fold the secondary interconnect cable away from the battery.
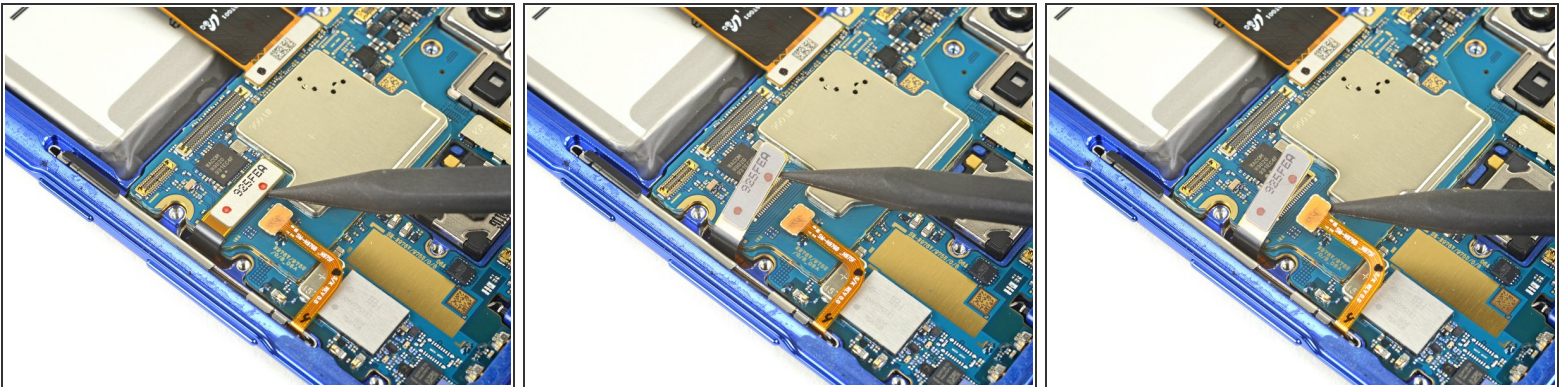
Step 18 — Remove the top plastic cover

● Use a Phillips screwdriver to remove the four 4 mm screws securing the top plastic cover.

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Step 19

- Use a pair of tweezers to pivot the top plastic cover up and off of the phone.

Step 20 — Disconnect the motherboard connectors

- Use the pointed end of a spudger to disconnect the touch layer connector from the motherboard.

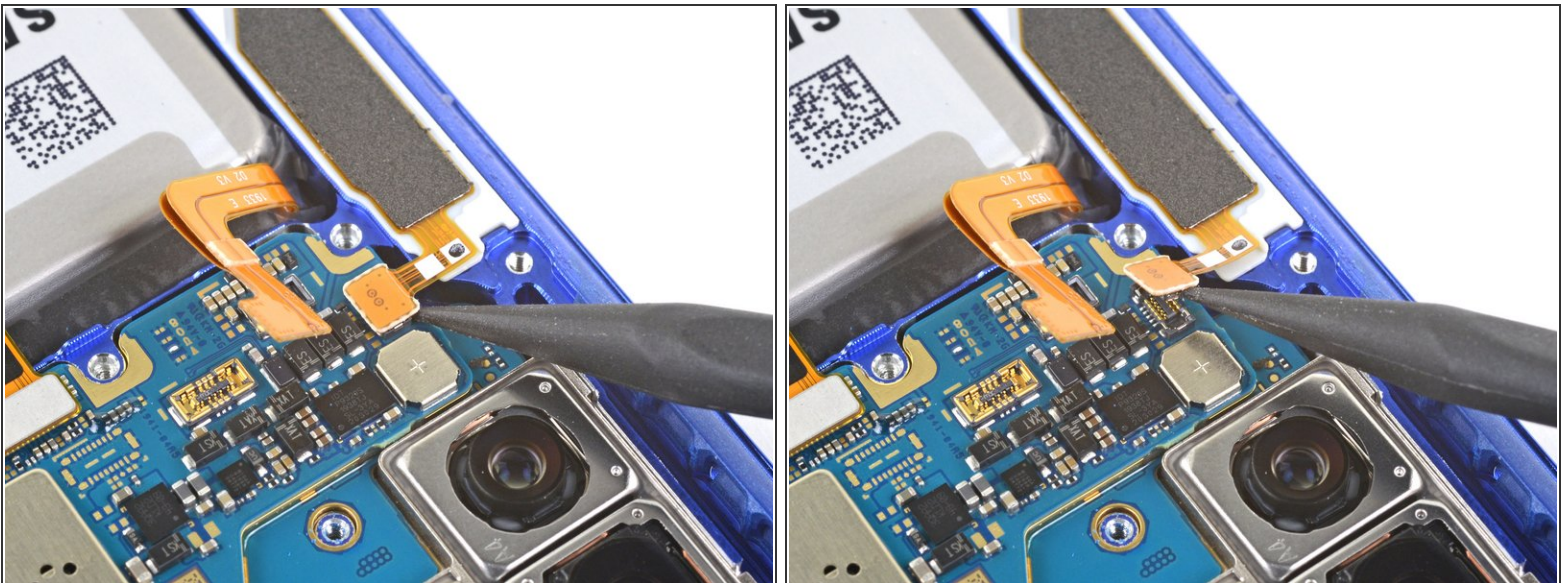- Disconnect the side button connector from the motherboard.

Step 21

- Use the point of a spudger to pry up and disconnect the 5G mmWave antenna connector from the motherboard.

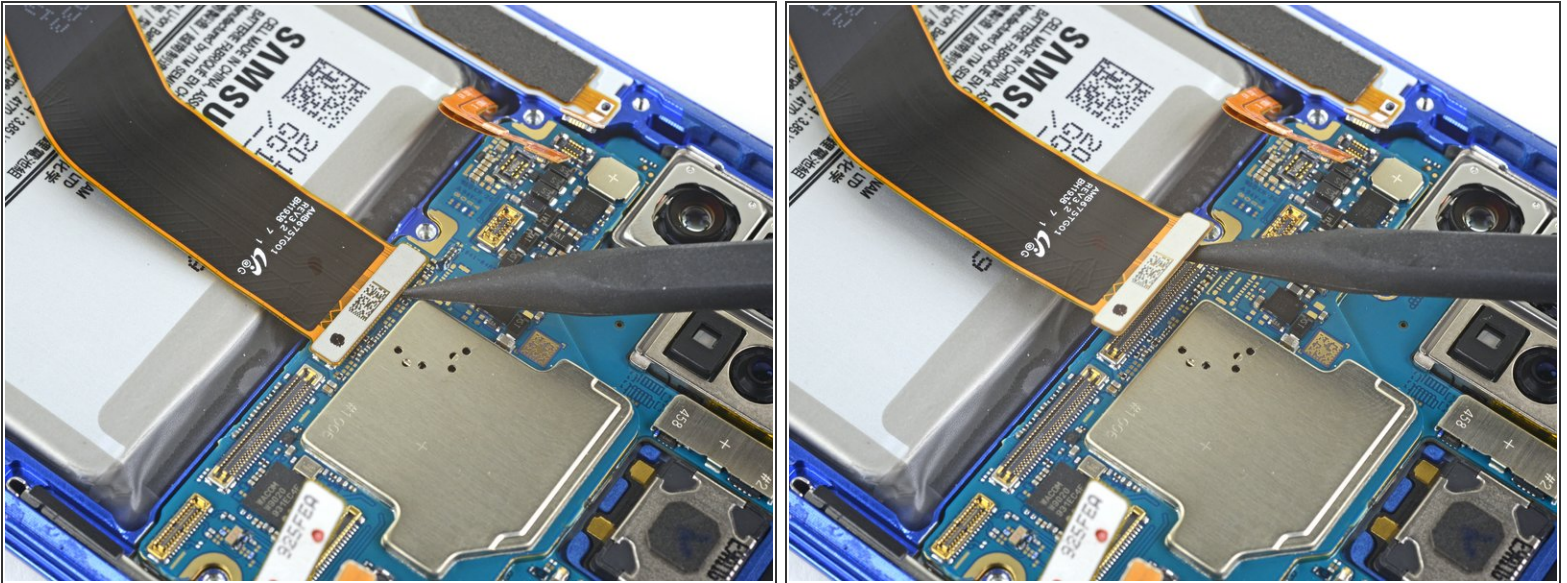- Gently bend the cable away from the motherboard.

Step 22

- Use the pointed end of a spudger to disconnect the S-Pen charging coil connector from the motherboard.
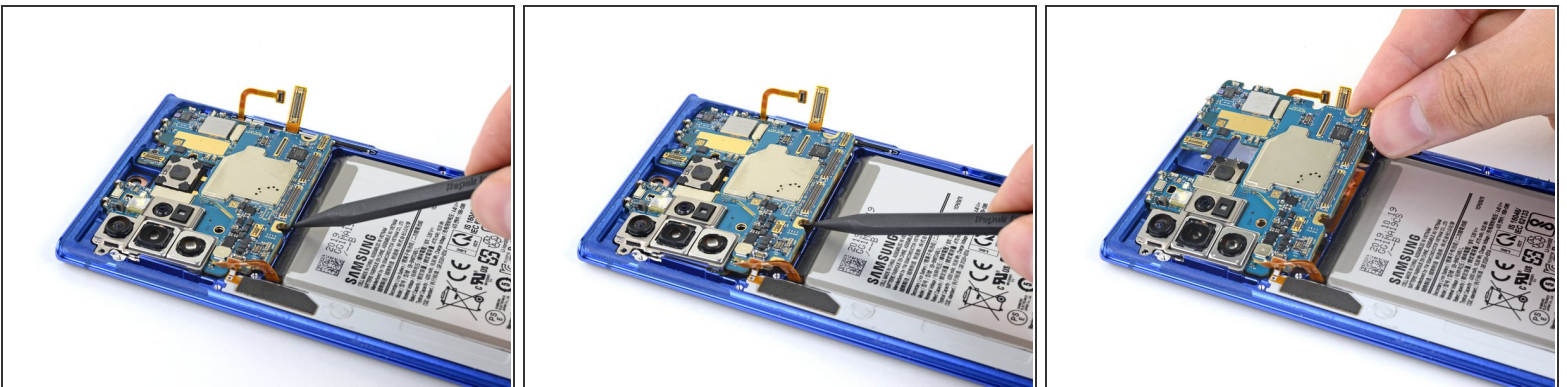
Step 23

- Use the pointed end of a spudger to disconnect the display cable from the motherboard.

Step 24 — Remove the motherboard

- Use the pointed end of a spudger to pry up the motherboard enough to grip it with your fingers.

- Remove the motherboard.

  ⚠ If the motherboard feels stuck, make sure that you ejected the SIM tray.

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 installing.

To reassemble your device, follow the above steps in reverse order.

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.