



# Samsung Galaxy Note9 Front Sensor Array Replacement

Follow this guide to replace the front sensor...

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# INTRODUCTION

Follow this guide to replace the front sensor array on your Samsung Galaxy Note9.

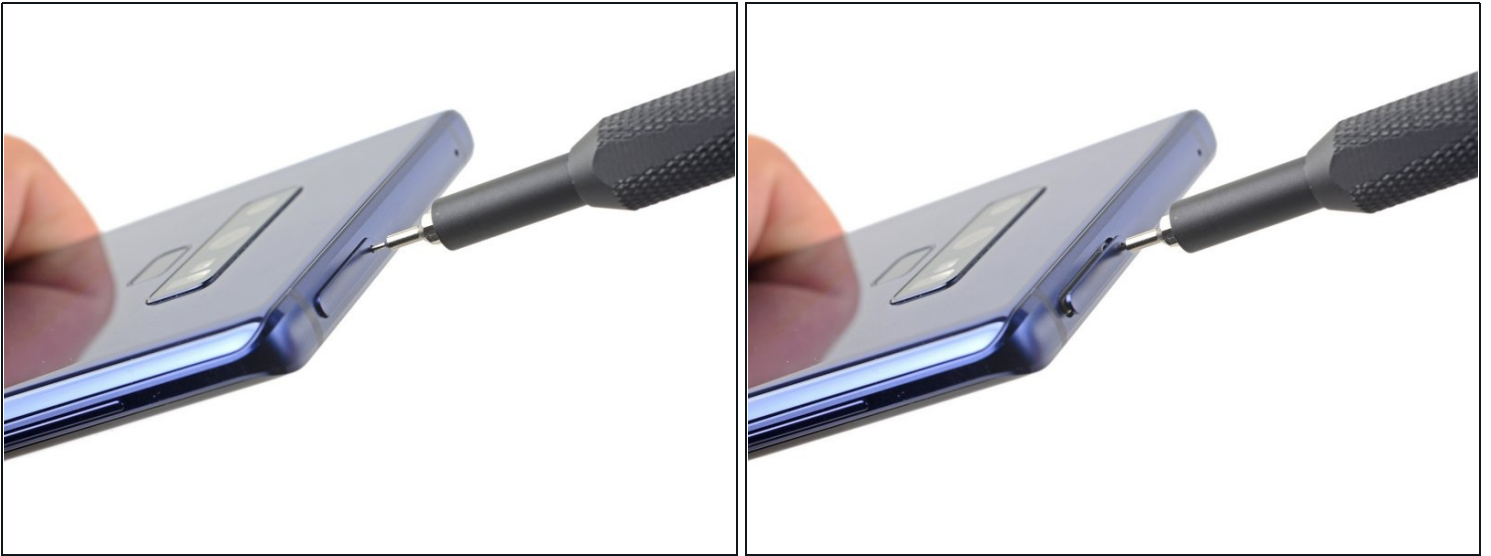
## TOOLS:

[Suction Handle](#) (1)  
[Tweezers](#) (1)  
[SIM Card Eject Tool](#) (1)  
[iOpener](#) (1)  
[iFixit Opening Picks \(Set of 6\)](#) (1)  
[Phillips #000 Screwdriver](#) (1)  
[Spudger](#) (1)

## PARTS:

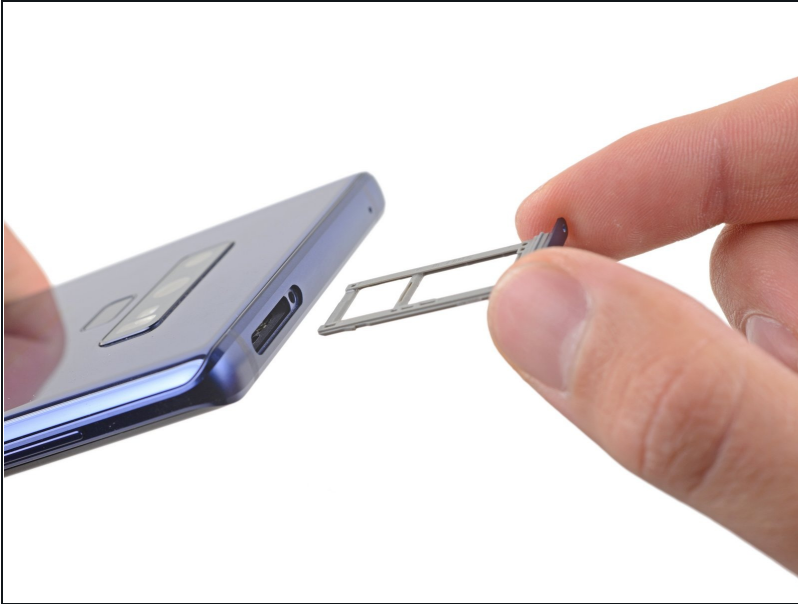
[Galaxy Note9 Rear Cover Adhesive](#) (1)  
[Galaxy Note9 Front Sensor Cable](#) (1)

### Step 1 — Eject the SIM card tray



- Insert a SIM card eject tool straight into the hole in the SIM card tray.
- Press to eject the SIM card tray.

## Step 2 — Remove the SIM card tray



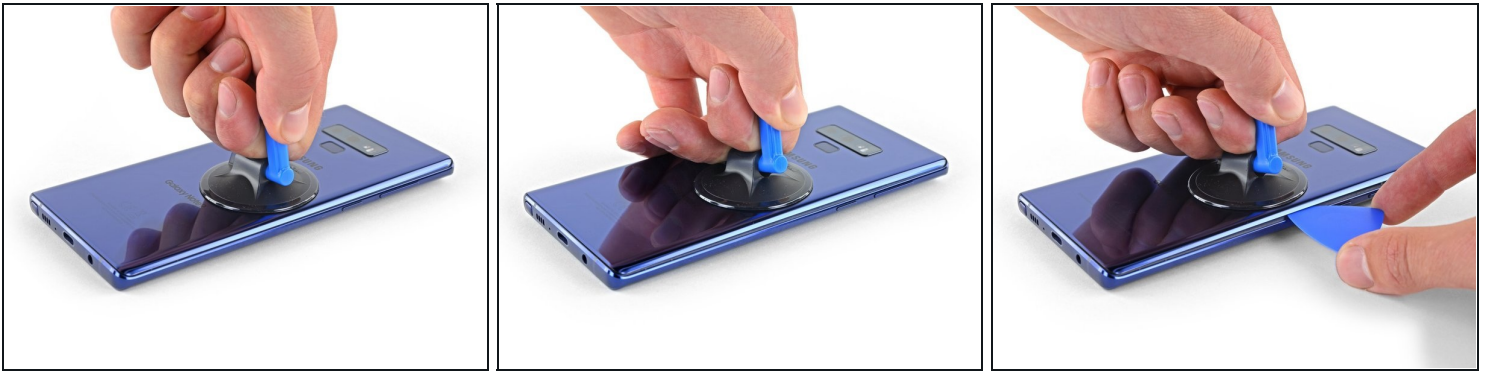
- Remove the SIM card tray.
- ⓘ The SIM card will fall out of the tray easily.

## Step 3 — Apply a heated iOpener



- Power off your phone before beginning disassembly.
- Use a hairdryer, a heatgun, or [prepare an iOpener](#) and apply it to the right edge of the back of the phone for about a minute to soften the adhesive underneath.

## Step 4 — Insert an opening pick



- Apply a suction handle to the back cover.
  - Lift with a suction handle to create a gap between the back cover and the frame of the phone.
  - Insert an opening pick into the gap.
- ⓘ If the glass is badly cracked, [cover it in packing tape](#) to create a surface for the suction cup to adhere to.

⚠ If the adhesive won't budge, apply more heat, **not** excessive force. Too much force could break the glass.

## Step 5 — Cut through the adhesive



- Note that there is more adhesive along the top edge and around the camera bezel than around the rest of the phone.
  - Cut carefully around the left edge near the fingerprint sensor or you risk damaging the ribbon cable inside.
- ⓘ If, at any point, the adhesive feels stubborn, apply more heat—not more force.

## Step 6 — Slide the opening pick



- Starting from the center, cut the adhesive up and down the right side with an opening pick.

**⚠ Do not insert the pick more than halfway into the phone when cutting near the fingerprint sensor or cameras, or you risk damaging internal components.**

## Step 7



**⚠ Be careful near the corner, as the glass is very weak. Apply more heat at any time if the adhesive becomes stuck.**

- Leave an opening pick in the upper-right corner.
- Use another opening pick to cut the adhesive around the bottom-right corner.
- Leave that opening pick in the phone.



## Step 8



- Use a heat gun or hair dryer or apply a heated iOpener to the left side of the rear panel for at three minutes to soften the adhesive underneath.

## Step 9



⚠ Be careful near the corners, as the glass is weakest there.

- Insert an opening pick into the lower-left corner of the rear panel.
- Using another opening pick, cut the adhesive along the left edge of the rear panel.

⚠ Don't insert an opening pick in more than halfway on the left edge near the fingerprint sensor or you may damage the ribbon cable inside.

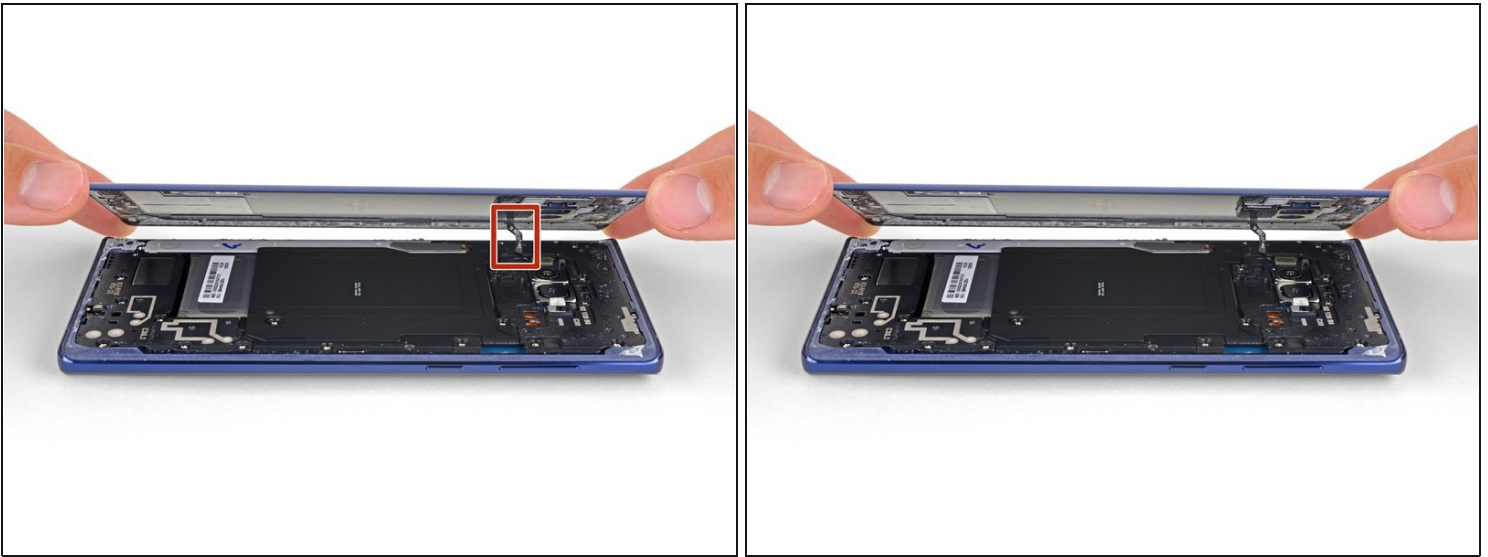
ℹ It is fine if opening picks fall out as the back cover becomes separated.

## Step 10



- Using the inserted opening pick, carefully cut the adhesive around the upper-left corner of the rear panel.
  - Finally, cut the last of the adhesive along the top of the phone.
- ① Use an iOpener, hair dryer, or heat gun to apply more heat as needed where you are cutting the adhesive.

## Step 11



- Separate the right side of the rear cover first.
- Tilt the cover up along the left edge to expose the fingerprint sensor ribbon cable.

⚠ Do not pull out the fingerprint sensor ribbon cable yet.

ⓘ The fingerprint sensor cover might stay attached to the midframe.

## Step 12 — Disconnect the fingerprint sensor



- Use the tip of a spudger to pry the fingerprint sensor ribbon cable up and out of its socket.



## Step 13

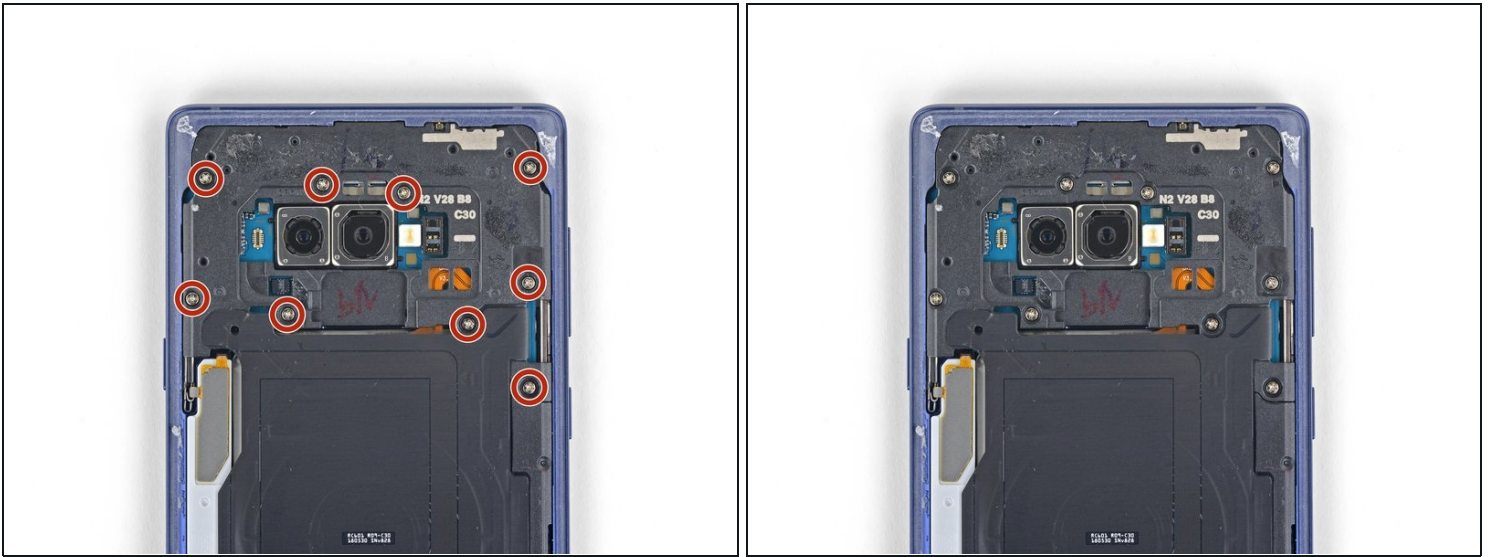


- Remove the back cover.

★ To re-install the back cover:

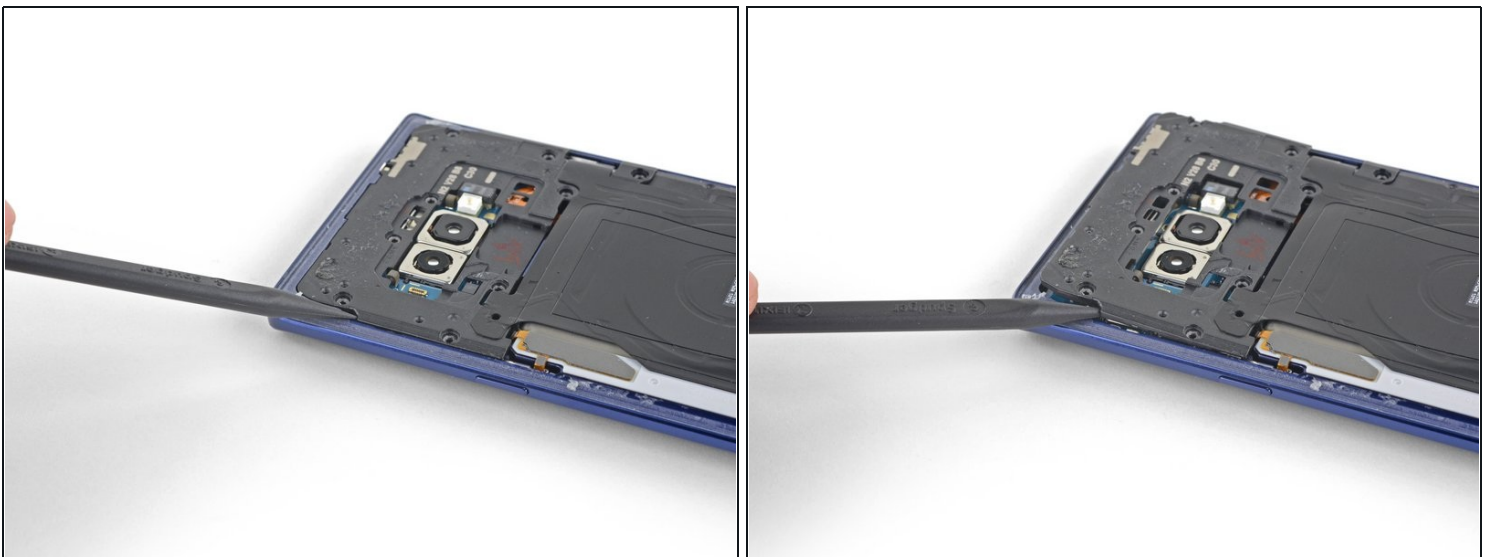
- Use tweezers to peel away any remaining adhesive from the phone's chassis. Then clean the adhesion areas with high concentration isopropyl alcohol (at least 90%) and a lint-free cloth to prep the surface for the new adhesive. You don't have to clear out adhesive down to the plastic but larger pieces should be removed.
- Turn on your phone and test your repair before installing new adhesive and resealing the phone.
- Carefully apply the new adhesive to the back cover, then line up one edge of the glass against the phone chassis and firmly press the glass into the phone.

## Step 14 — Remove the upper midframe



- Use a Phillips screwdriver to remove the nine 4 mm screws securing the upper midframe.

## Step 15



- Insert the tip of a spudger into the upper-left corner of the upper midframe.
- Pry the upper midframe out of the phone.

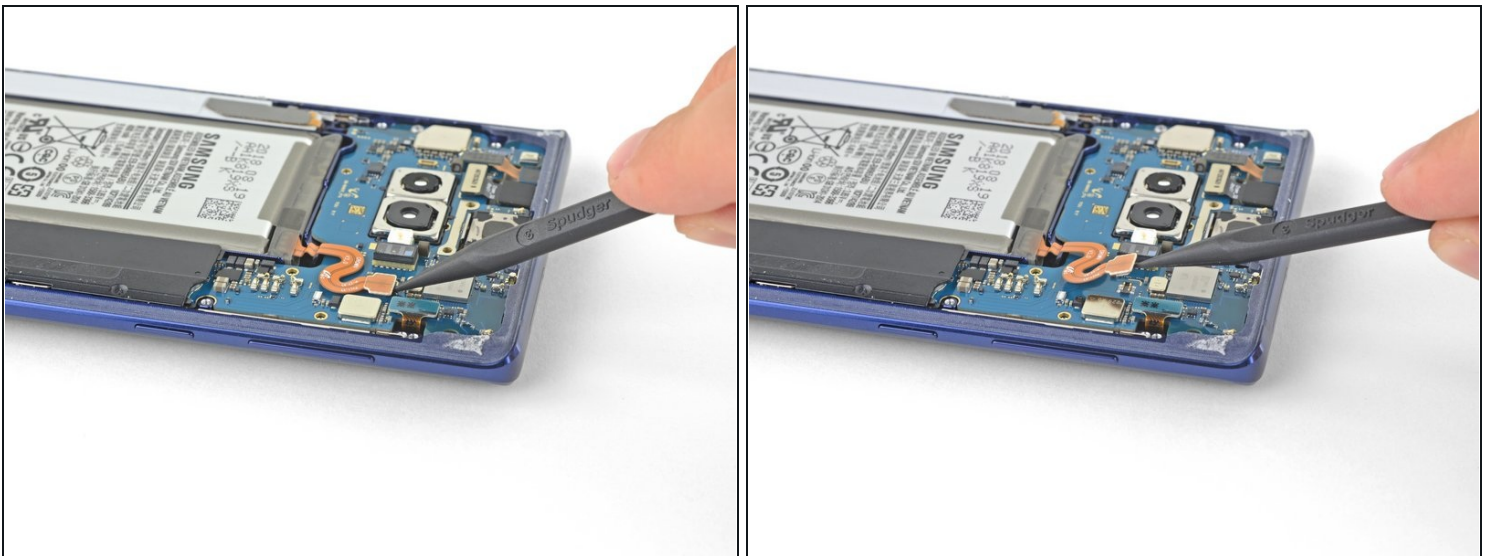
**i** The upper midframe snaps into and out of place.

## Step 16



- Peel the wireless charging coil off the battery starting with the left side.
- ⓘ The adhesive is weak but you can use an opening pick to cut it if necessary.
- ★ During reassembly start by snapping the midframe into place first before adhering the wireless charging coil.

## Step 17 — Disconnect the battery



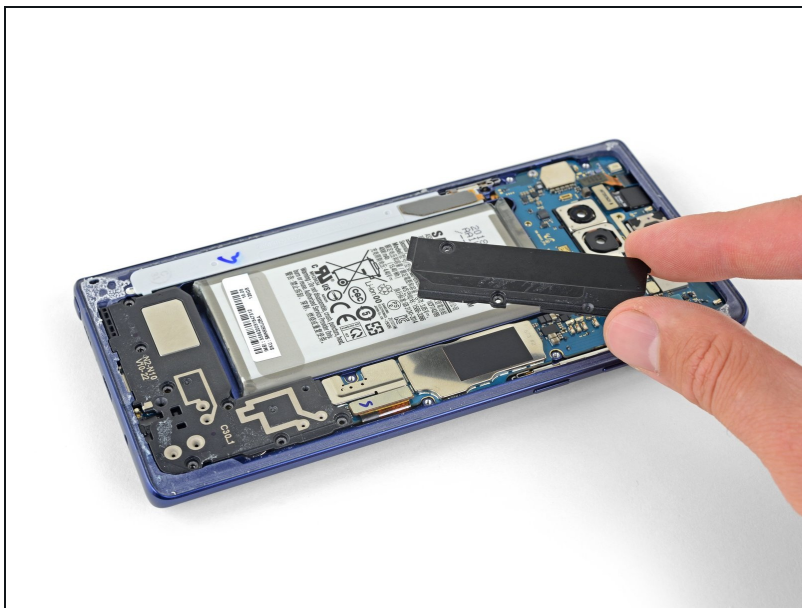
- Use the tip of a spudger to disconnect the orange ribbon cable connecting the battery to the motherboard.

## Step 18 — Remove the midframe



- Remove the nine 4 mm Phillips screws from the plastic cover next to the battery.

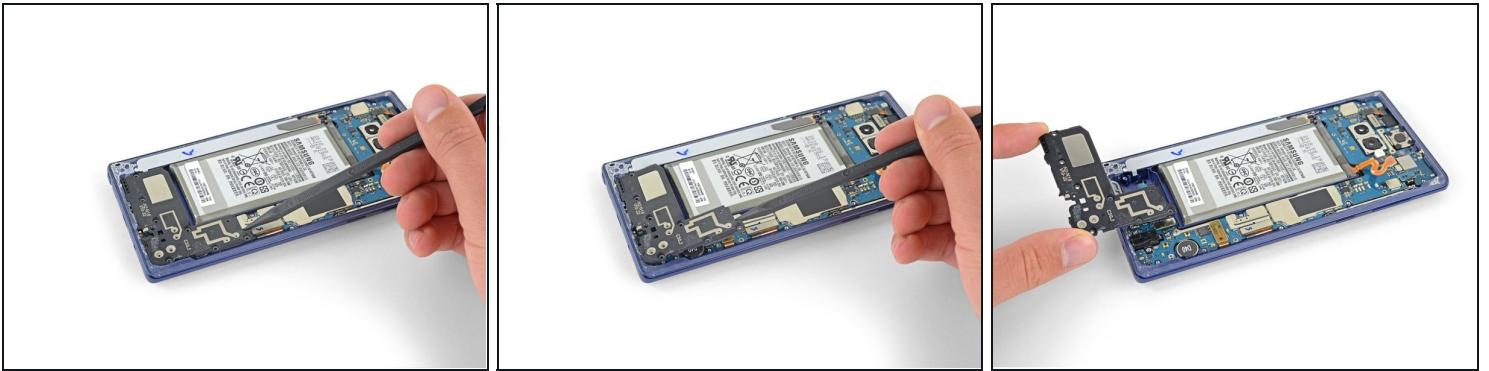
## Step 19



- Remove the plastic cover next to the battery.



## Step 20



- Insert the tip of a spudger into the top of the lower midframe.
- Pry the lower midframe out from the phone.
- ⓘ The lower midframe snaps into and out of place.
- Remove the lower midframe.

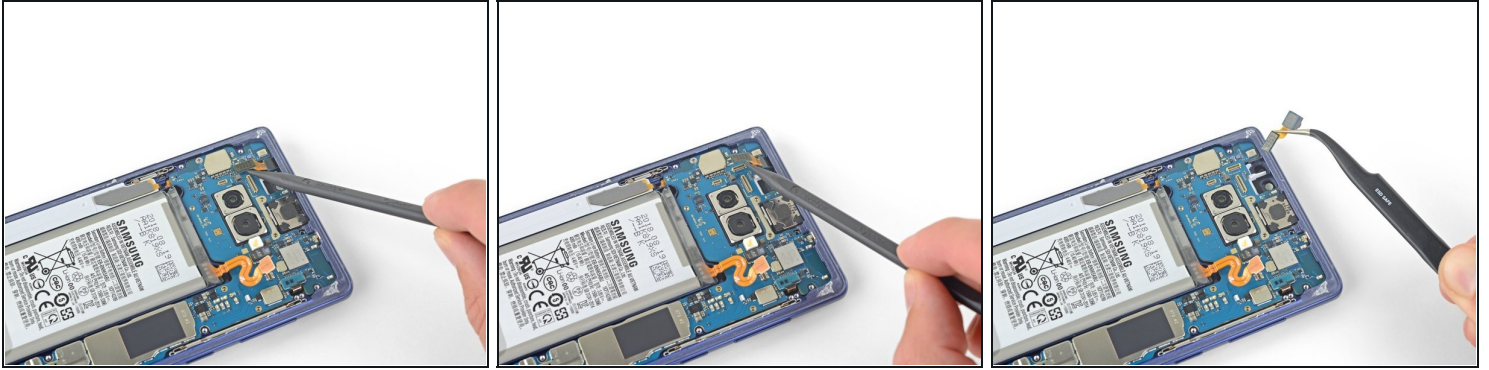
## Step 21 — Remove the front camera



- Use the tip of a spudger to pry the front camera connector straight up and out of its socket.
- Use tweezers to remove the front camera.

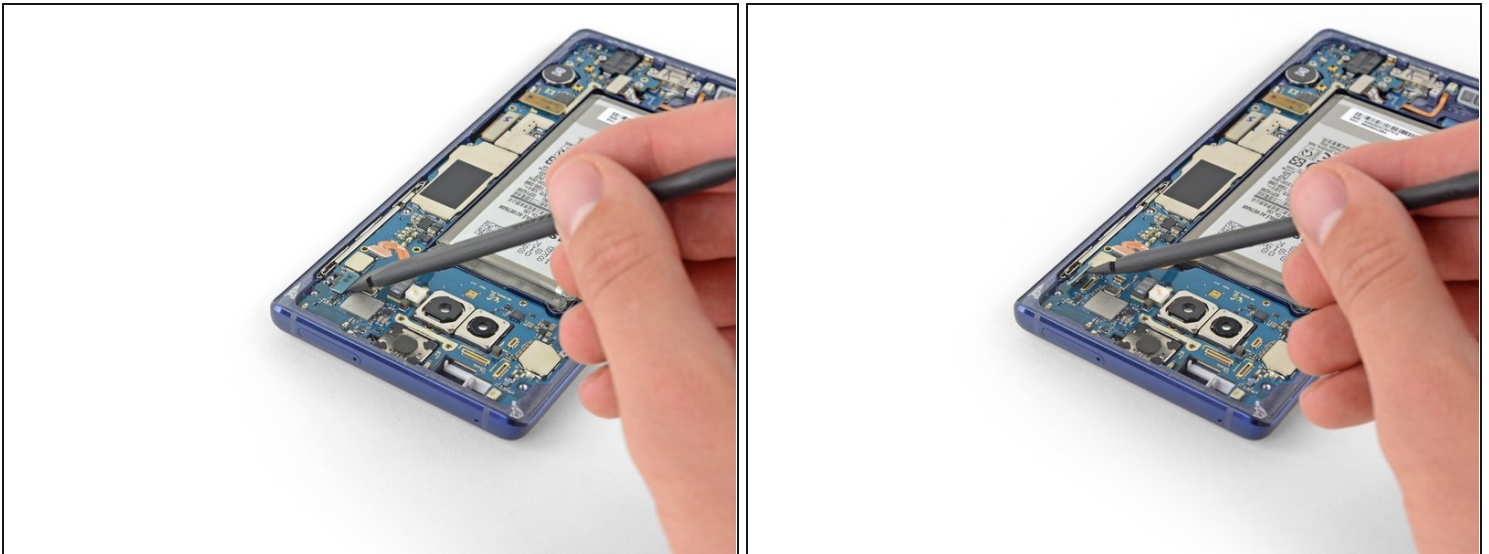


## Step 22 — Remove the iris scanner



- Use the tip of a spudger to disconnect the iris scanner from the motherboard.
- Use tweezers to remove the iris scanner.

## Step 23 — Disconnect the front sensor array



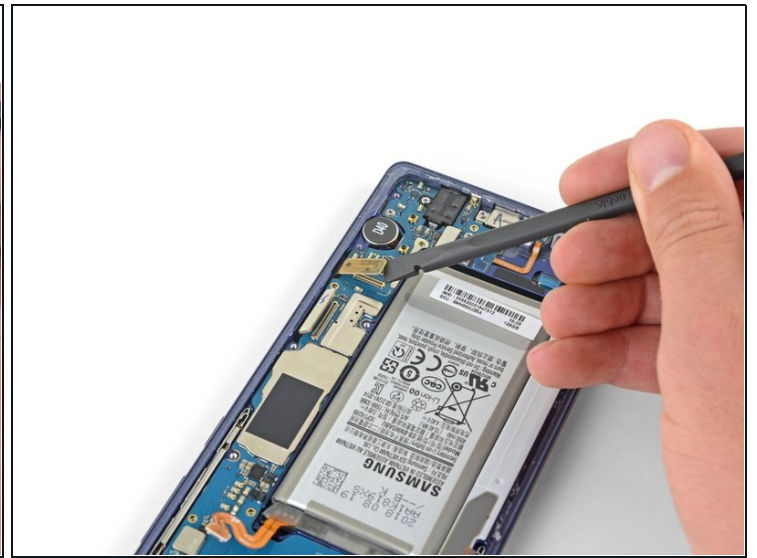
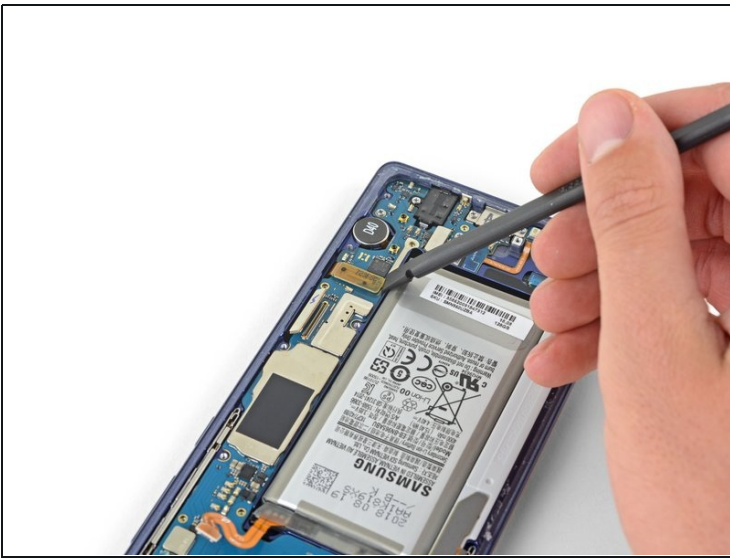
- Use the flat end of a spudger to pry the front sensor connector out of its socket.

## Step 24 — Disconnect the display assembly



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

## Step 25



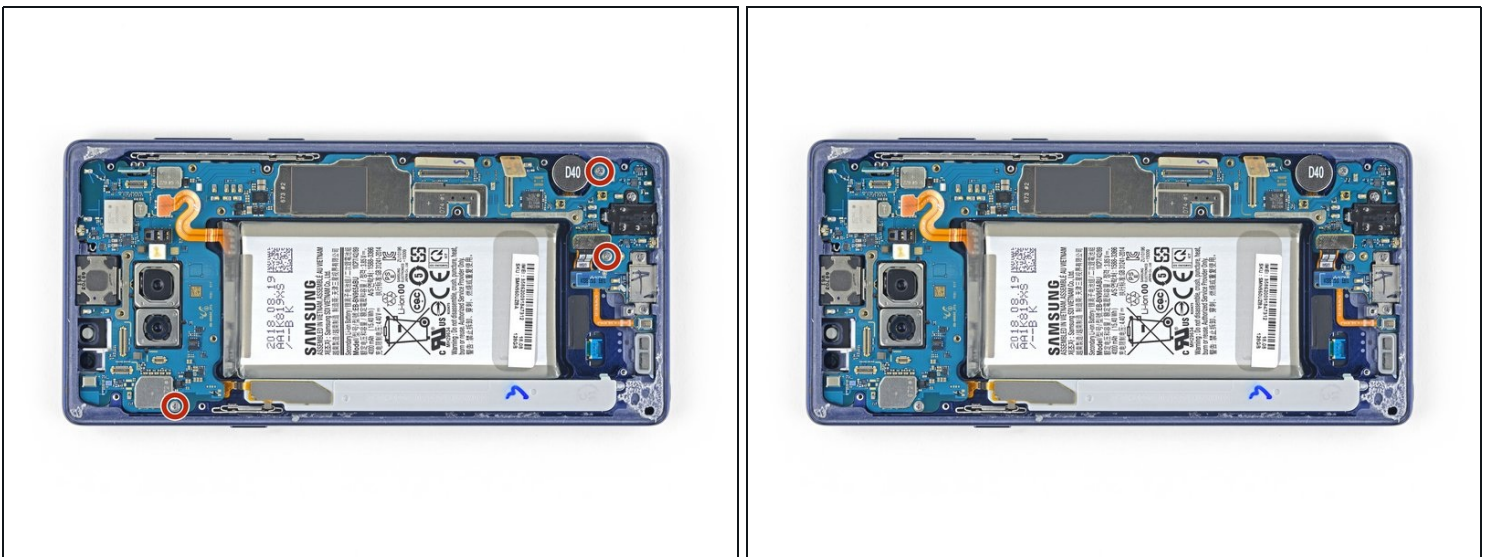
- Use the flat end of a spudger to disconnect the touchscreen cable from the motherboard.

## Step 26 — Disconnect the charging assembly



- Use the flat end of a spudger to disconnect the charging assembly from the motherboard.

## Step 27

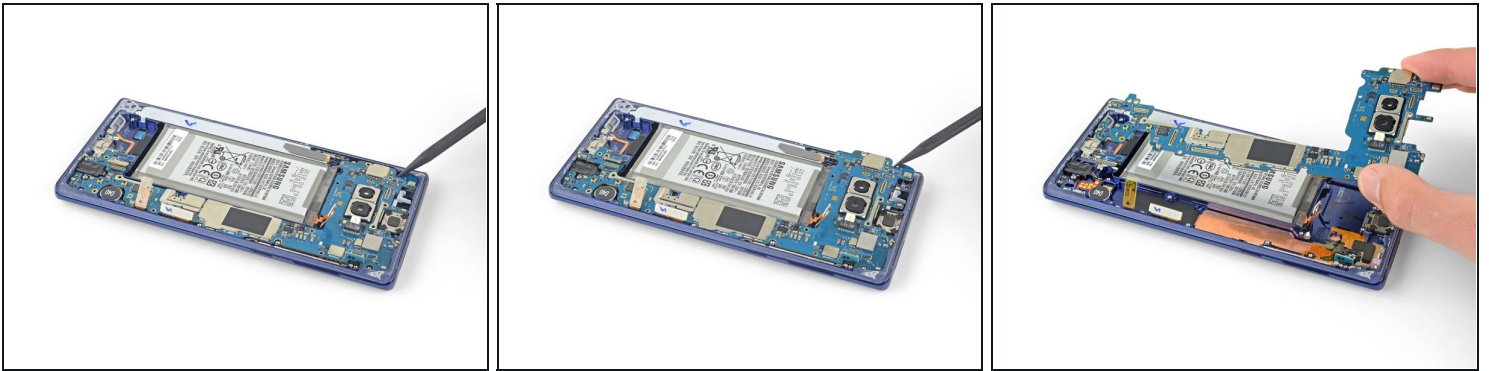


- Remove the three 4 mm Phillips screws securing the motherboard.

☐ There are triangles next to the holes indicating the motherboard screw locations.



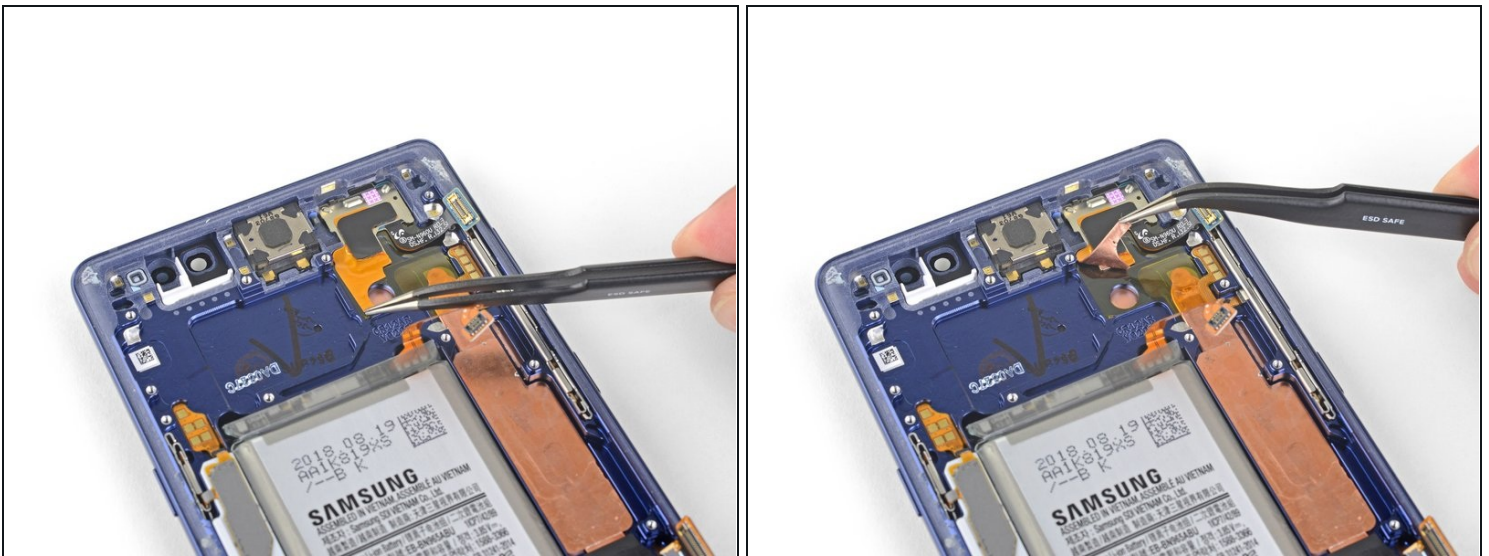
## Step 28



- Use a spudger to gently lift the motherboard from the upper-left corner.
- Carefully remove the motherboard.

⚠ Move the ribbon cables out of the way as necessary. Do not pull the motherboard out if it becomes snagged on any cables.

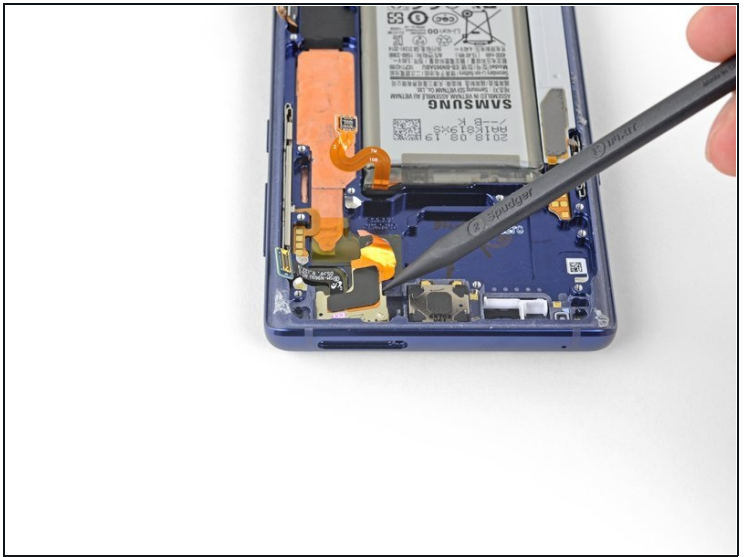
## Step 29 — Remove the front sensor array



- Use a pair of tweezers to peel back the adhesive-backed copper foil.
- Stop peeling once you reach the sensor array.

⚠ Be careful not to tear the foil.

## Step 30



- Use the tip of a spudger to lift the left side of the front sensor array and separate the adhesive the rest of the way.

⚠ The front sensor array is still connected to a ribbon cable that is adhered to the phone. Do not try to remove the front sensor array yet or you will damage it.

## Step 31



- Carefully slide an opening pick under the front sensor array ribbon cable to cut the adhesive underneath.



## Step 32



- Use a pair of tweezers to remove the front sensor array.

**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? Check out our [Answers community](#) for troubleshooting 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 installing.