



Galaxy S23 Ultra Battery Replacement

Follow this guide to replace a dead or worn-out...

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INTRODUCTION

Follow this guide to replace a dead or worn-out battery in your Samsung Galaxy S23 Ultra.

If you need to replace the screen and battery assembly (the frame, screen, and battery together as one piece), [follow this guide](#).

Your phone's lithium-ion battery has a limited lifespan. If your phone dies quickly and doesn't hold a charge, it may be time to replace the battery.

Note: Retaining water resistance after the repair will depend on how well you reapply the adhesive, but your device will lose its IP (Ingress Protection) rating.

TOOLS:

[iOpener](#) (1)
[Heat Gun](#) (1)
[Suction Handle](#) (1)
[iFixit Opening Picks \(Set of 6\)](#) (1)
[ESD Safe Blunt Nose Tweezers](#) (1)
[Phillips #00 Screwdriver](#) (1)
[Spudger](#) (1)
[Isopropyl Alcohol](#) (1)
[Microfiber Cleaning Cloths](#) (1)

PARTS:

[Samsung Galaxy S23 Ultra Battery](#) (1)
[Samsung Galaxy S23 Ultra Battery Adhesive](#) (1)

Step 1 — Safety precautions



 **Let your phone's battery drain below 25% before starting this repair.** A charged lithium-ion battery may catch fire if damaged.

- Unplug all cables from your phone and completely power it down.

Step 2 — Heat the right edge



- [Heat an iOpener](#) and apply it to the right 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—the display and internal battery are susceptible to heat damage.

Step 3 — Adhesive information



- While you wait for the adhesive to soften, note the following:
 - There's adhesive securing the back cover around the perimeter of the frame.
 - ⓘ The adhesive is strongest in the bottom right and top left corners.

Step 4 — Insert an opening pick



- Apply a suction handle to the back cover, as close to the center of the right edge as possible.
- Pull up on the suction handle with strong, steady force to create a gap between the cover and the frame.
 - ⓘ If you have trouble creating a gap, apply more heat to further soften the adhesive. Follow the [iOpener](#) instructions to avoid overheating.
- Insert an opening pick into the gap.

Step 5 — Separate the right adhesive



- Slide the pick back and forth along the right edge to separate the adhesive.
- Leave the pick inserted near the bottom right corner to prevent the adhesive from resealing.

Step 6 — Heat the bottom edge



- Apply a heated iOpener to the bottom edge of the back cover for two minutes.

Step 7 — Separate the corner adhesive



- Insert a second opening pick at the bottom right corner.
- Angle the pick upward to match the curved edge and rotate it around the bottom right corner.

⚠ Be careful while working around the corners, as the glass is very fragile here. Work slowly to avoid cracking the glass.

Step 8 — Separate the bottom adhesive



- Slide your opening pick to the bottom left corner to separate the adhesive.
- Leave the pick in the bottom left corner to prevent the adhesive from resealing.

Step 9 — Heat the left edge



- Apply a heated iOpener to the left edge of the back cover for two minutes.

Step 10 — Separate the corner adhesive



- Insert a third opening pick at the bottom left corner.
- Angle the pick upward to match the curved edge and rotate it around the bottom left corner.

⚠ Be careful while working around the corners, as the glass is very fragile here. Work slowly to avoid cracking the glass.

Step 11 — Separate the left adhesive



- Slide your opening pick along the left edge to separate the adhesive, stopping when you reach the power button.
- ⚠ Only insert the pick up to 5 mm, as you may damage the antenna flex cable or the power button cable.
- Leave the pick in the left edge to prevent the adhesive from resealing.

Step 12 — Heat the top edge



- Heat an iOpener and apply it to the top edge of the back cover for two minutes.

Step 13 — Separate the corner adhesive



- Insert an opening pick in the gap at the top right edge.
- Angle the pick upward to match the curved edge and rotate it around the top right corner.

⚠ Be careful while working around the corners, as the glass is very fragile here. Work slowly to avoid cracking the glass.

Step 14 — Separate the top adhesive



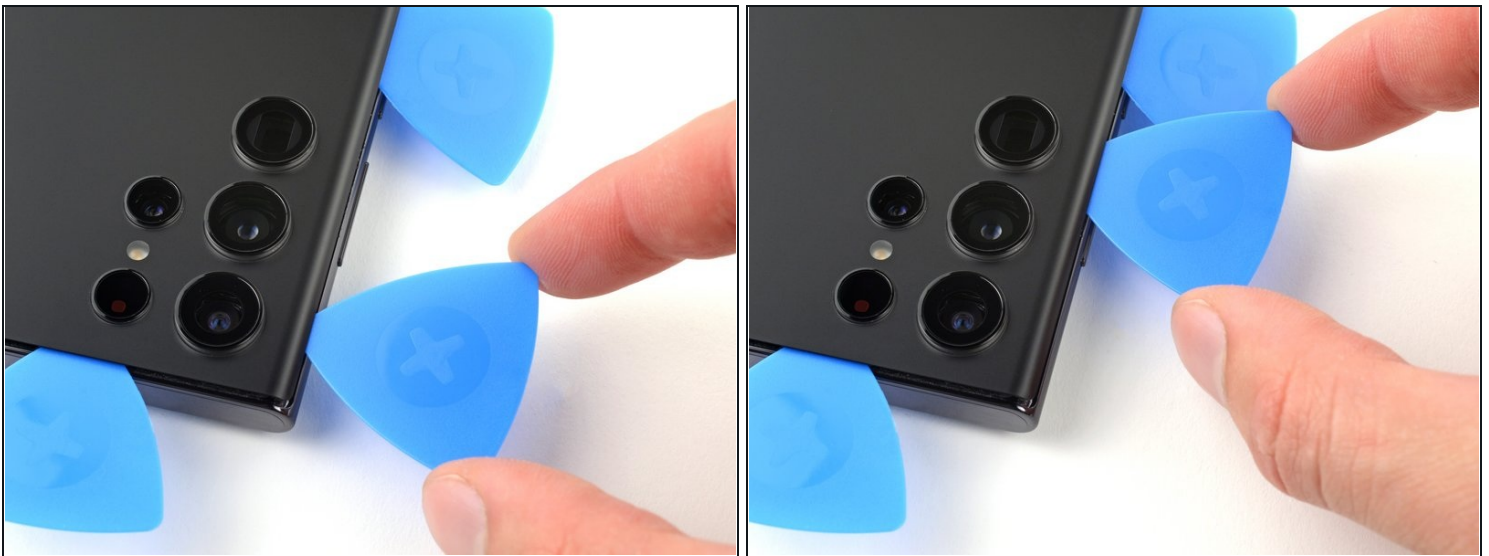
- Slide the pick to the top left corner to separate the adhesive.
⚠ Only insert the pick up to 4 mm, as you may damage the cameras or sensors.
- Leave the pick in to prevent the adhesive from resealing.

Step 15 — Separate the corner adhesive



- Insert an opening pick in the gap at the top left edge.
⚠ Only insert the pick up to 4 mm, as you may damage the cameras.
- Angle the pick upward to match the curved edge and rotate it around the top left corner.

Step 16 — Separate the remaining adhesive



- Slide the pick toward the bottom camera to separate through the remaining adhesive, stopping before you reach the power button.
⚠ Only insert the pick up to 4 mm, as you may damage the cameras.

Step 17 — Remove the back cover



- Grab and remove the back cover.

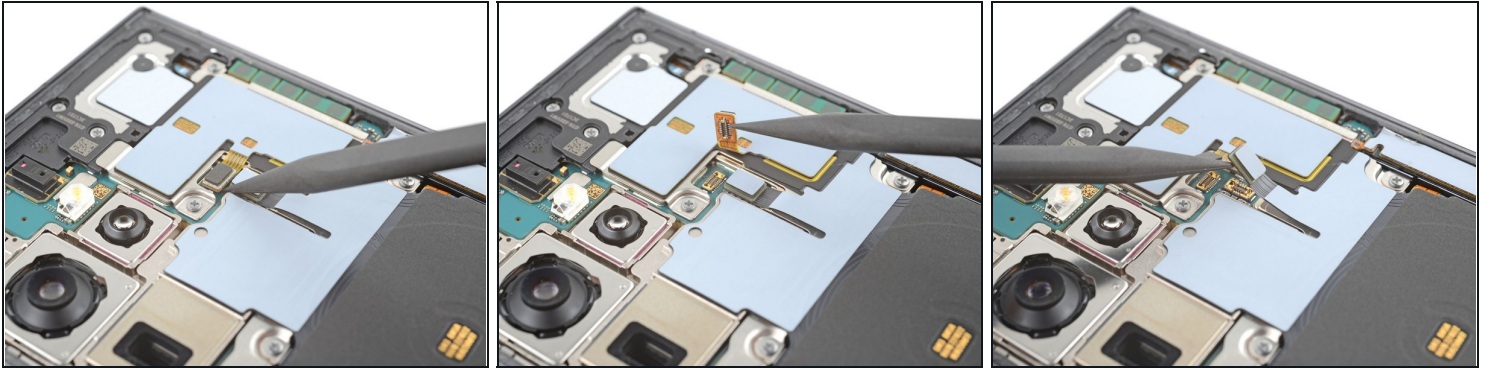
ⓘ If your cover is still sticking to the frame, slide an opening pick around the perimeter until the cover completely separates.

★ During reassembly:

ⓘ This is a good point to power on your phone and test all functions before sealing it up. Be sure to power your phone back down completely before you continue working.

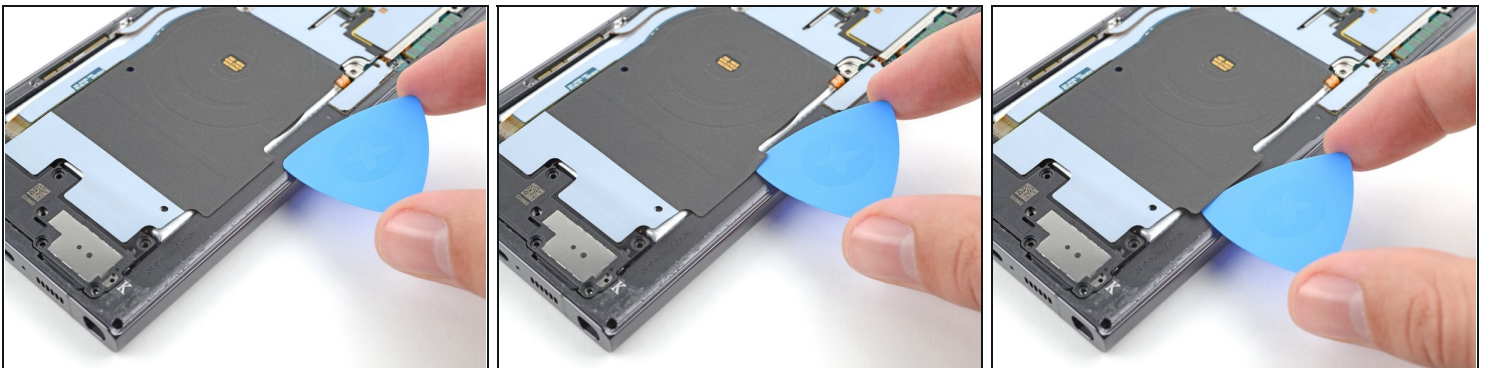
- Remove any adhesive chunks with a pair of tweezers or your fingers. Apply heat if you're having trouble separating the adhesive.
- If you're using custom-cut adhesives, [follow this guide](#).
- If you're using double-sided tape, [follow this guide](#).

Step 18 — Disconnect the NFC antenna and charging coil



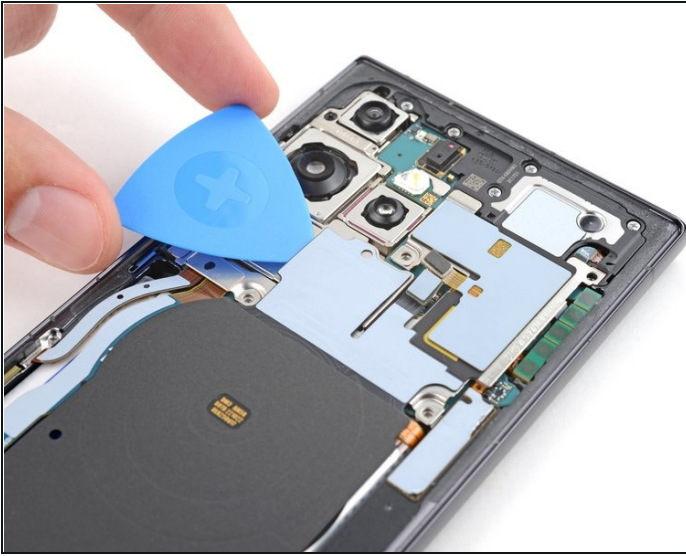
- Use the pointed end of a spudger to pry up and disconnect the NFC antenna press connector from the motherboard.
 - Repeat for the wireless charging coil press connector.
- ☑ To re-attach [press connectors](#), carefully align and press down on one side until it clicks into place, then repeat on the other side. Don't press down on the middle. If the connector is misaligned, the pins can bend and cause permanent damage.

Step 19 — Separate the coil adhesive



- ⓘ The wireless charging coil is lightly adhered to the battery.
- Insert an opening pick between the right edge of the wireless charging coil and the battery.
 - Slide the pick along the right edge to separate the adhesive.

Step 20



- Insert an opening pick between the top edge of the wireless charging coil and the frame.
- Slide the pick toward the right edge to separate the remaining adhesive.

Step 21 — Unfasten the NFC antenna and charging coil



- Use a Phillips screwdriver to remove the five 3.5 mm-long screws securing the NFC antenna and charging coil.

Step 22 — Unfasten the loudspeaker



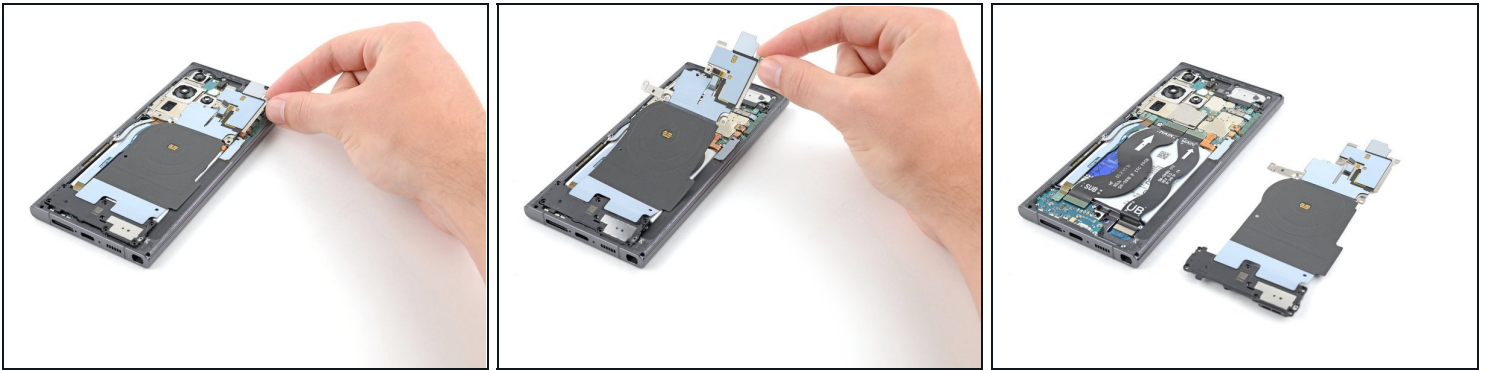
- Use a Phillips screwdriver to remove the six 3.5 mm screws securing the loudspeaker.

Step 23 — Unclip the loudspeaker



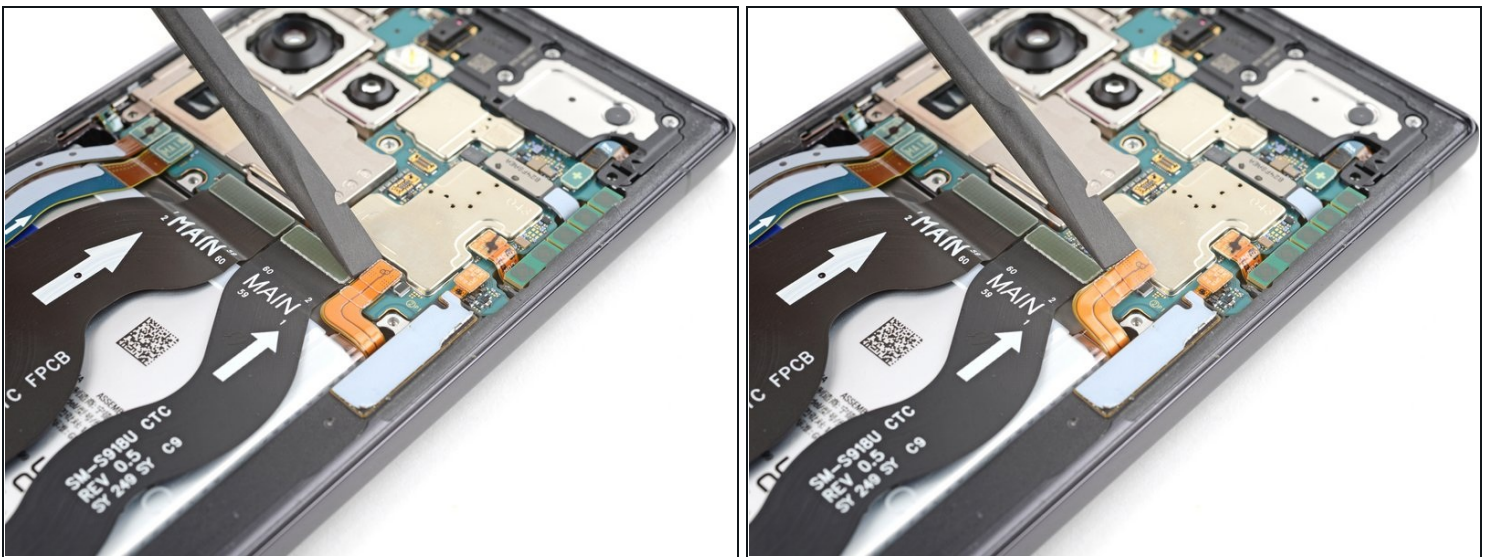
- Insert the pointed end of your spudger between the upper right corner of the loudspeaker and the frame.
- Pry up to unclip the loudspeaker from the frame.
 - ⚠ Don't pry against the battery. Use protrusions in the frame for leverage.
- ☑ During reassembly, press around the perimeter of the loudspeaker to clip it to the frame.

Step 24 — Remove the charging coil and loudspeaker assembly



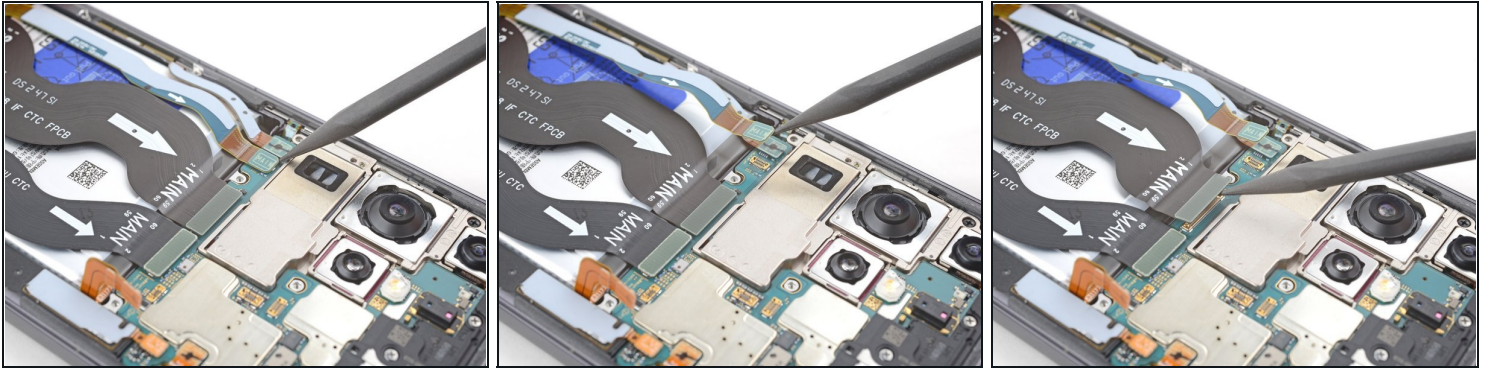
- Grab and remove the NFC, wireless charging coil, and loudspeaker from the frame.

Step 25 — Disconnect the battery



- Use your spudger to pry up and disconnect the battery press connector.

Step 26 — Disconnect the interconnect cables



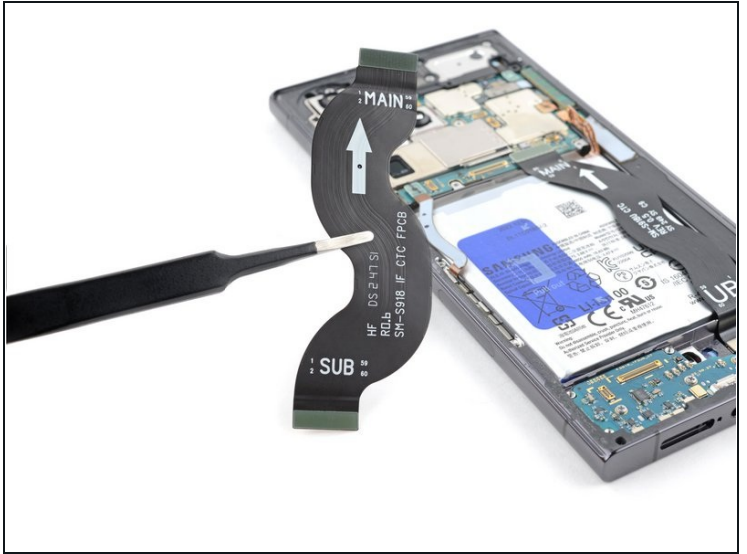
- Use your spudger to pry up and disconnect the secondary interconnect cable press connector from the motherboard.
- Repeat for the primary interconnect cable.

Step 27



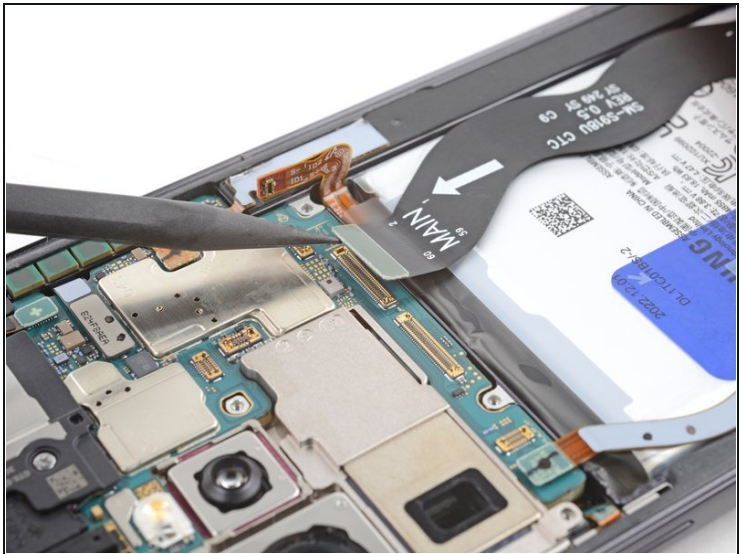
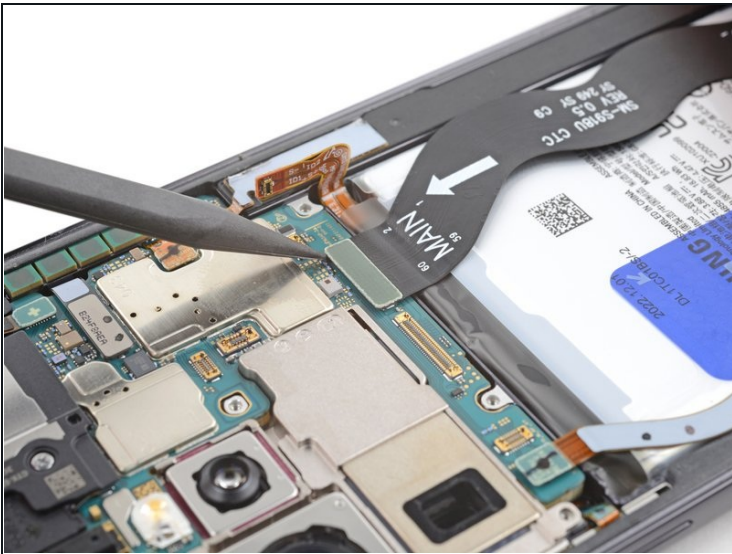
- Use your spudger to pry up and disconnect the secondary interconnect cable press connector from the charging board.
- Repeat for the primary interconnect cable.

Step 28 — Remove the interconnect cables



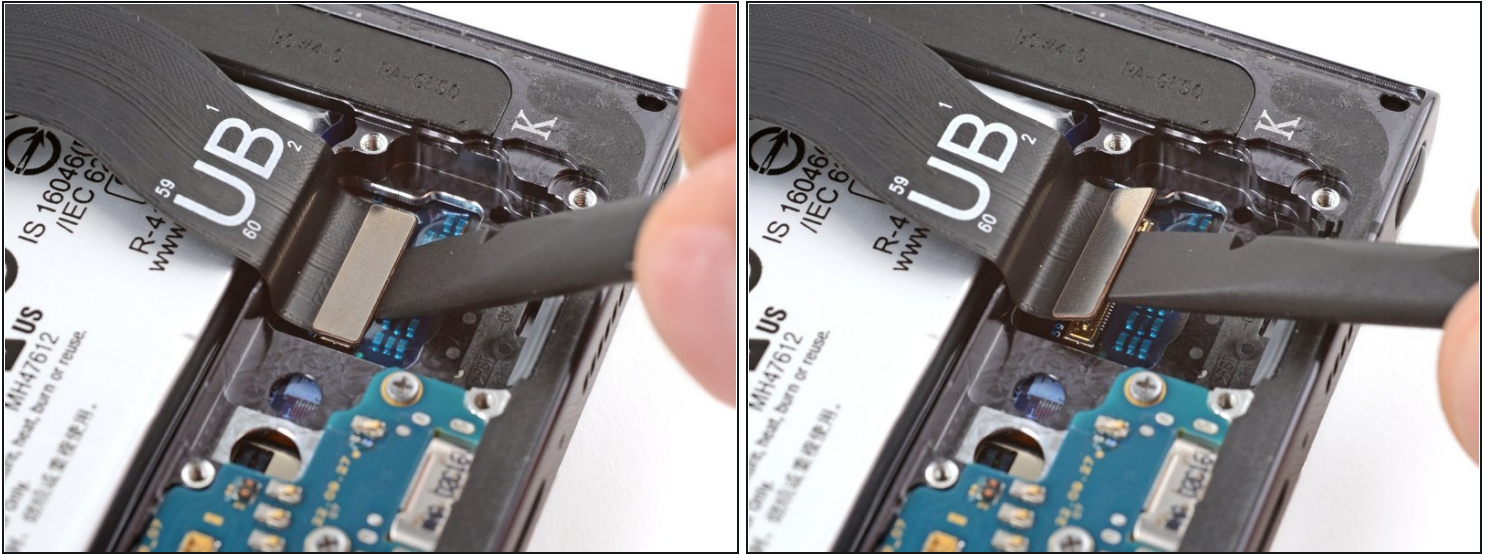
- Grab and remove the interconnect cables from the frame.

Step 29 — Disconnect the screen cable



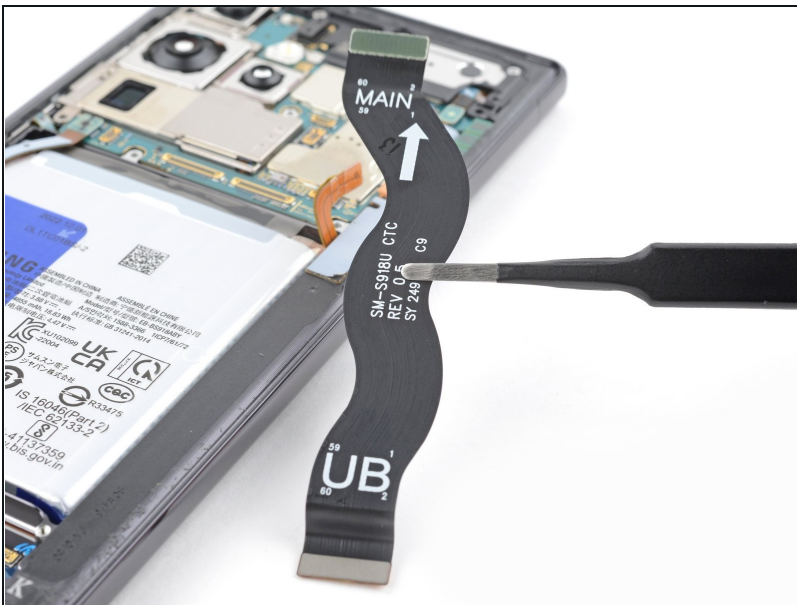
- Use the point of your spudger to pry up and disconnect the screen press connector from the motherboard.

Step 30



- Use the flat end of your spudger to pry up and disconnect the screen press connector near the bottom of the phone.

Step 31 — Remove the screen cable



- Grab and remove the screen cable from the frame.

Step 32 — Reposition the 5G mmWave antenna cable



- Use the point of your spudger to pry up and disconnect the left 5G mmWave antenna press connector.
- Use your finger to push the antenna cable away from the battery.

Step 33 — Separate the battery pull tab



⚠ Be very careful not to bend, crease, or puncture the battery during the next few steps. A damaged battery can leak dangerous chemicals and catch fire.

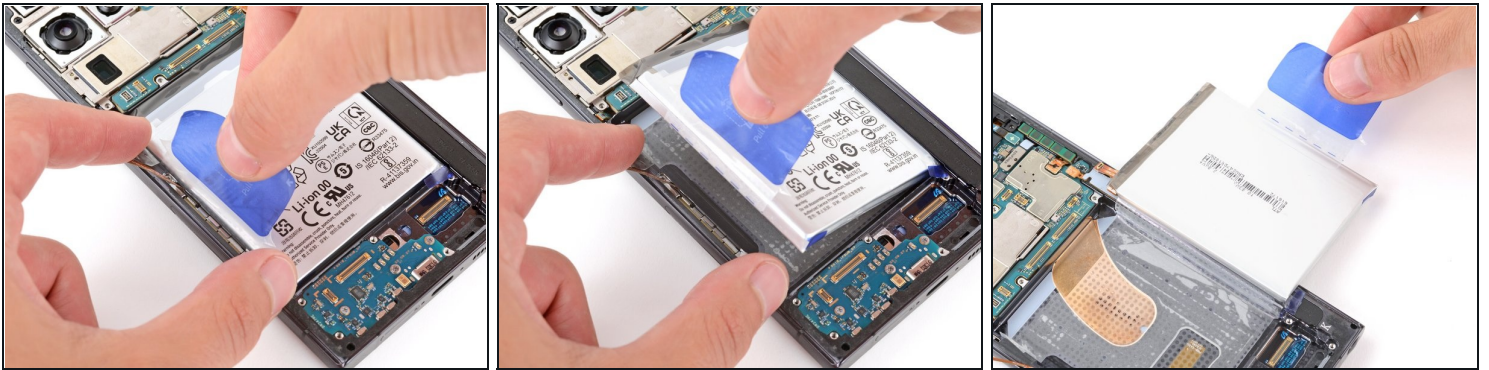
- Use your fingers to carefully peel the large blue battery pull tab from the left side of the battery.

Step 34



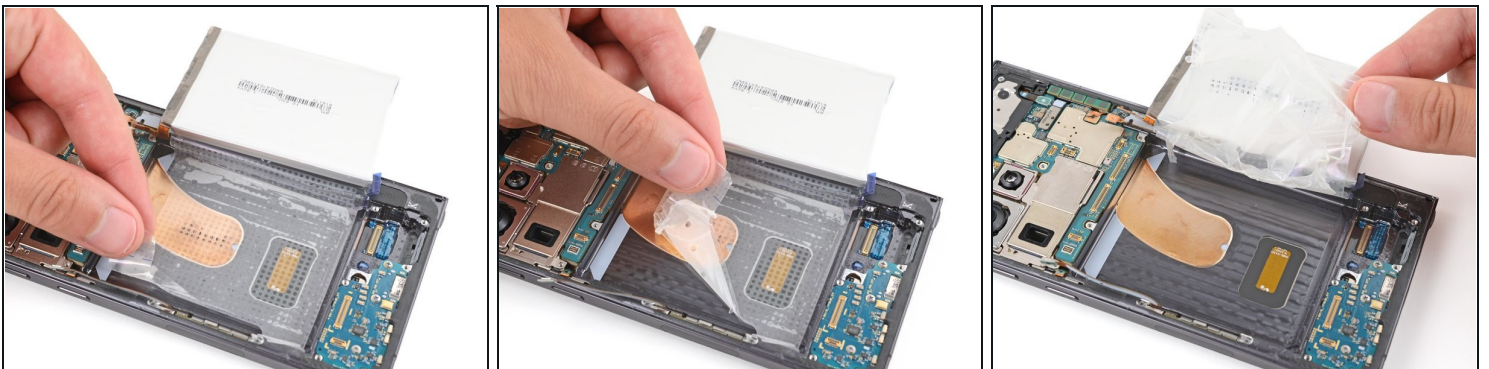
- Use your fingers to peel the two small tabs from the top and bottom corners of the battery's left edge.
 - ① If these tabs aren't fully separated, you won't be able to lift the battery in the next step.

Step 35 — Separate the battery adhesive



- With one hand, fold the two upper and lower tabs out of the way of the battery and firmly hold them down against the frame.
 - ⓘ If you're having trouble with the tabs, you can fold them under the phone and tape them to the screen.
- With your free hand, grip the blue center pull tab and pull straight up with firm, steady force to fully separate the battery adhesive.
 - ⓘ The adhesive might not separate immediately. Keep pulling with consistent force until the battery comes free from the frame.
 - ⓘ If you're having trouble, apply 1-2 drops of high-concentration (>90%) isopropyl alcohol to the [left edge of the battery](#). Lift the left edge of your phone and wait one minute for the alcohol to soften the adhesive.
- Lay the battery over the right edge of your phone.

Step 36 — Separate the battery sleeve



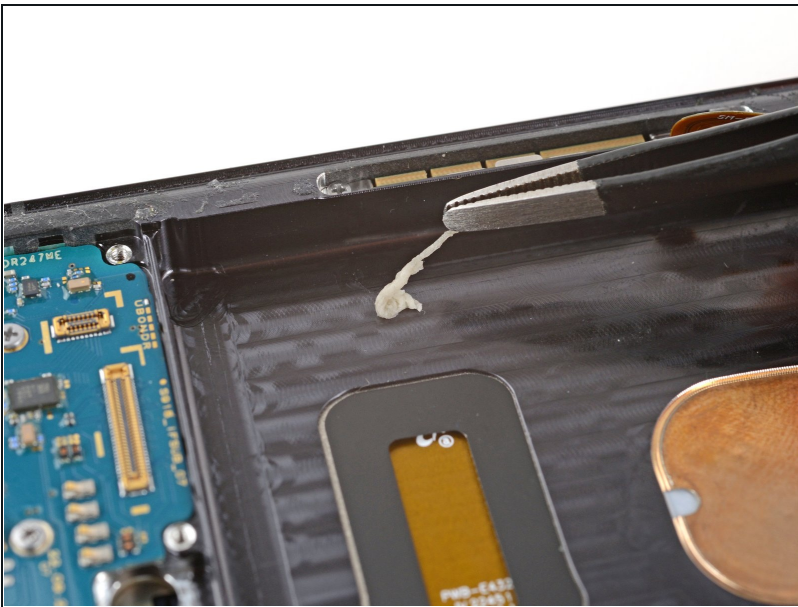
- Use your fingers to peel the battery's plastic film from the frame.

Step 37 — Remove the battery



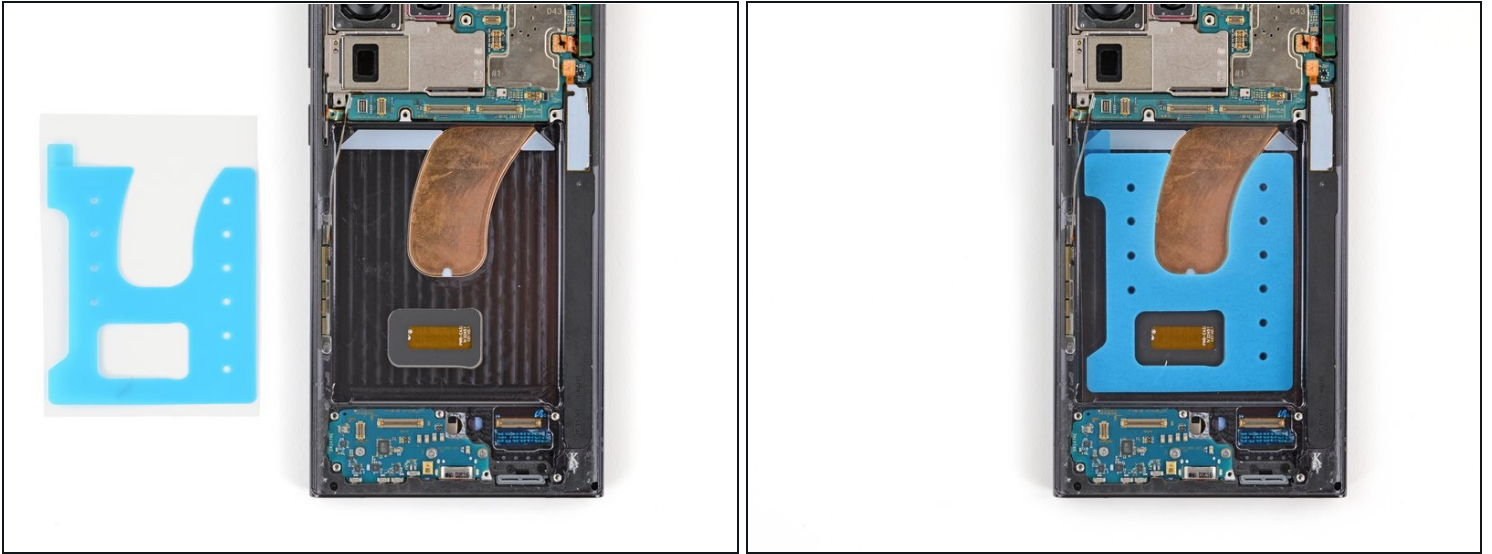
- Remove the battery and its film.

Step 38 — Remove any old battery adhesive



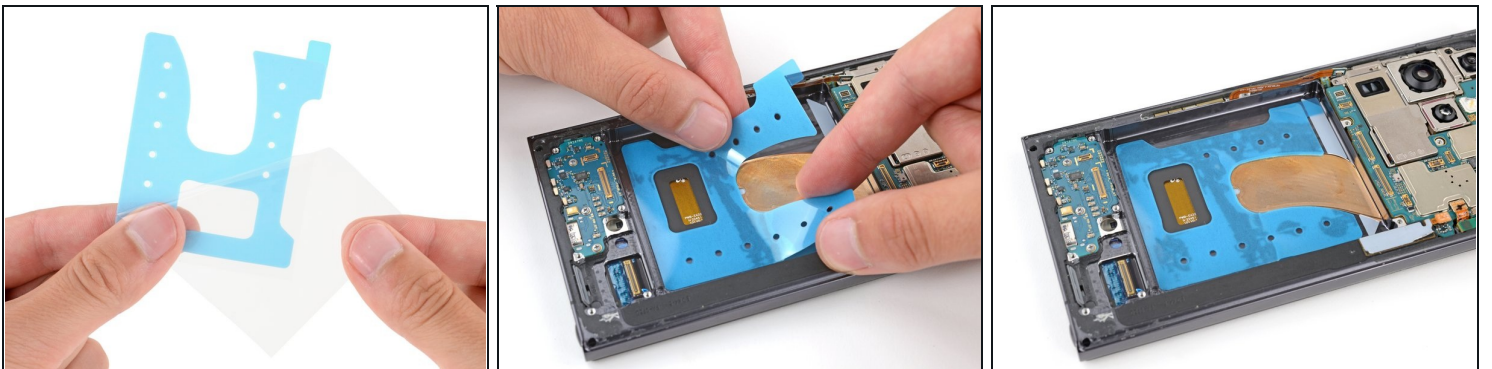
- If there's any battery adhesive on the frame, use tweezers or your fingers to remove it.
- If you used isopropyl alcohol, wait ten minutes before installing the new battery to allow the alcohol to completely evaporate.

Step 39 — Apply replacement battery adhesive



- ⓘ Before applying the new adhesive, it's helpful to see how it will be oriented in the battery recess.
- Orient the replacement adhesive so the clear liner is on the bottom and test-fit it into the battery recess.

Step 40



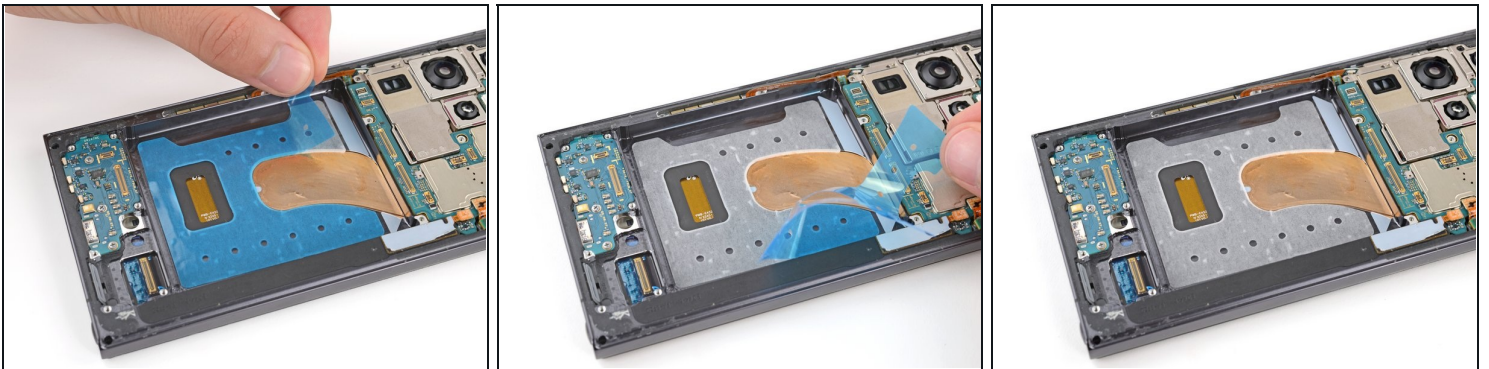
- Remove the large clear liner to expose the battery adhesive.
- Carefully place the adhesive into the battery recess.

Step 41



- Firmly press the adhesive into place with your fingers.
- Use the flat end of a spudger to firmly press down on the entire surface of the adhesive to secure it to the frame.

Step 42



- Use the pull tab on the top left corner to peel up and remove the remaining blue liner.

Step 43 — Adhere the battery



- Hold the battery above its recess and reconnect the press connector—this ensures proper fit and alignment.
- Firmly press the battery into its recess to secure it with the adhesive.
- **Disconnect the battery before continuing.**

To reassemble your device, follow these instructions in reverse order, [starting with this step](#).

For optimal performance, [calibrate your newly installed battery](#) after reassembling your phone.

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.