



Lenovo Legion Y7000P RAM Replacement



Spencer Day and one other contributor

Last updated on March 18, 2024

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US\$4.99

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Hair Dryer

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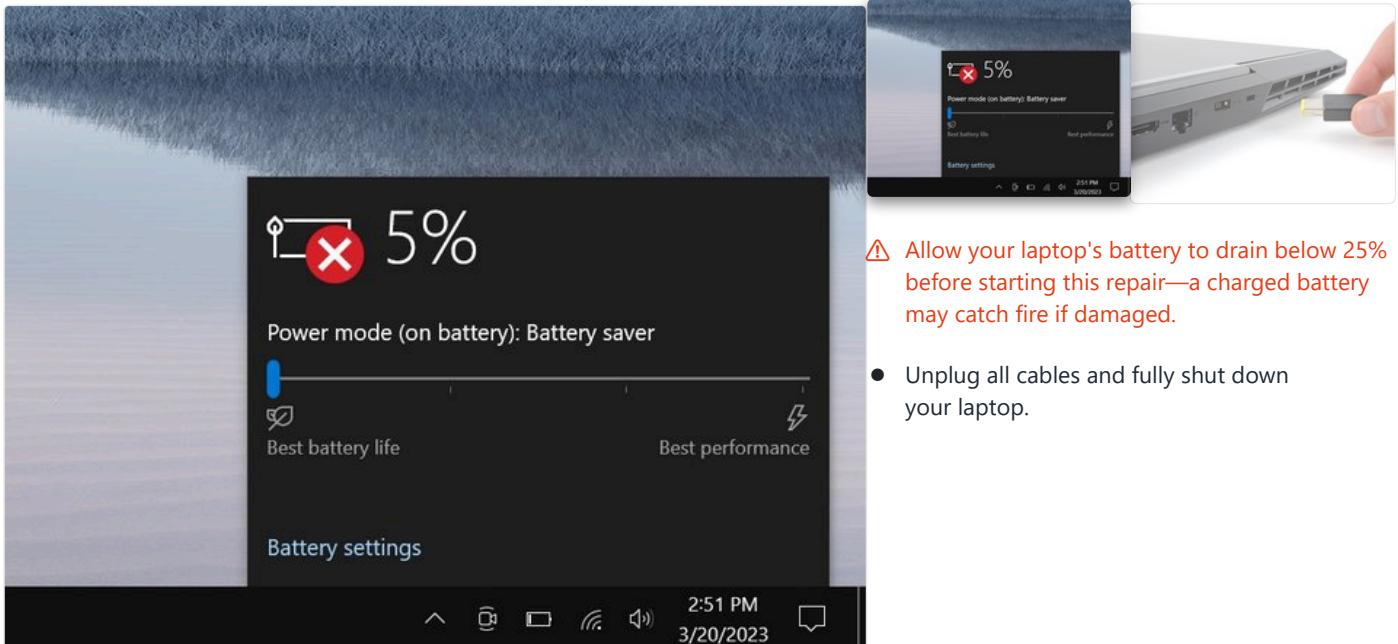
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Introduction

Use this guide to replace or upgrade the RAM in your Lenovo Legion Y7000P laptop.

This laptop has two slots for **DDR4 2666 MHz** memory.

Step 1 Prepare your laptop for disassembly



⚠ Allow your laptop's battery to drain below 25% before starting this repair—a charged battery may catch fire if damaged.

- Unplug all cables and fully shut down your laptop.

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Step 2 Flip your laptop over



- Flip your laptop over so the rubber feet are facing up.

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Step 3 Unfasten the back cover



- Use a Phillips screwdriver to remove the 11 screws securing the back cover:
 - Five 11.5 mm-long screws
 - Six 4.7 mm-long screws

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Step 4 Insert an opening pick



- Insert the flat side of an opening pick between the top right corner of the back cover and frame.

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Step 5 Release the back cover's clips



- ⓘ Plastic clips secure the back cover to the frame. You'll hear and feel them release as you work.
- ⓘ Keep the pick angled upwards while sliding to help release the clips.
- Slide the opening pick down the right edge and around the bottom right corner to release the clips.

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Step 6



- Slide the opening pick along the front edge and up to the top left corner to release the remaining clips securing the back cover.

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Step 7 Remove the back cover



- Remove the back cover.



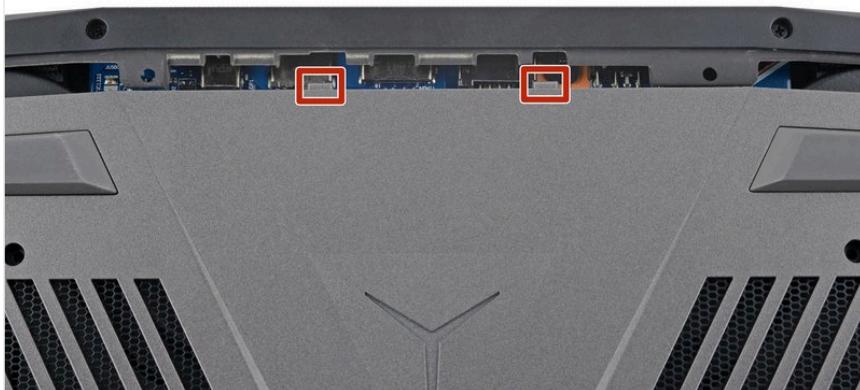
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Step 8 Reassembly information



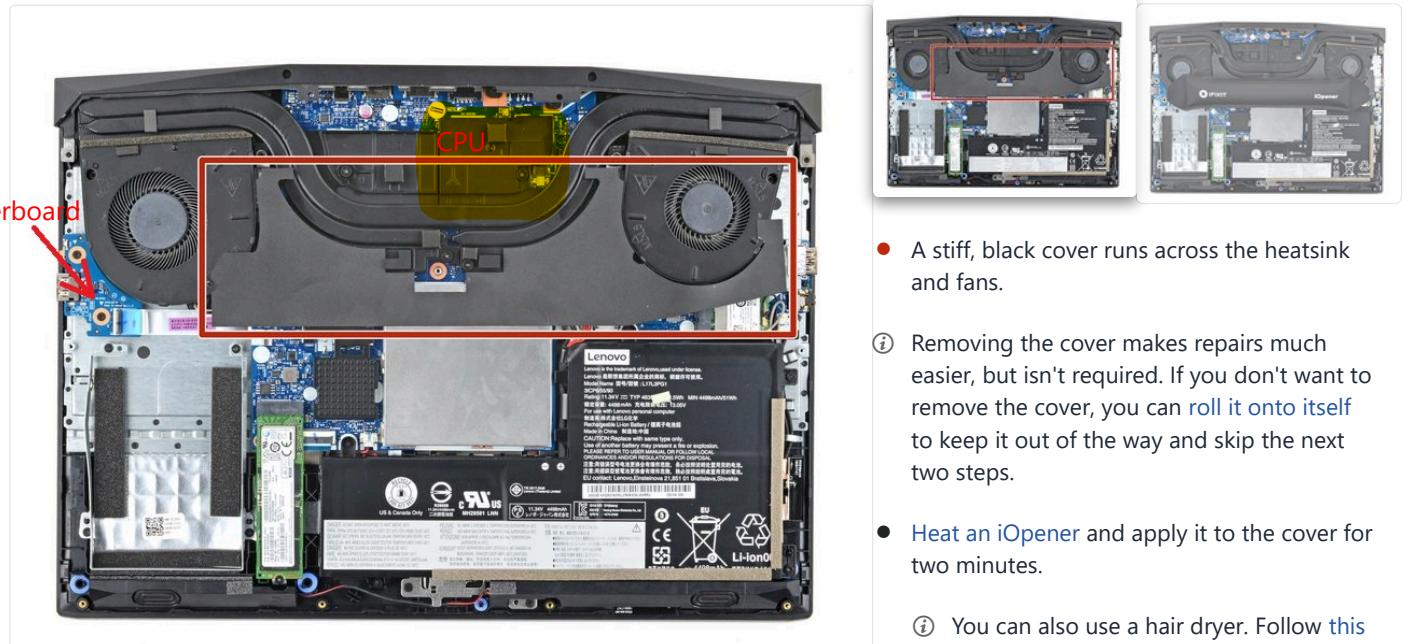
During reassembly:

- Slide the two tabs near the center of the back cover's top edge under the hinge cover.
- Press down firmly around the perimeter of the back cover to engage all the clips.



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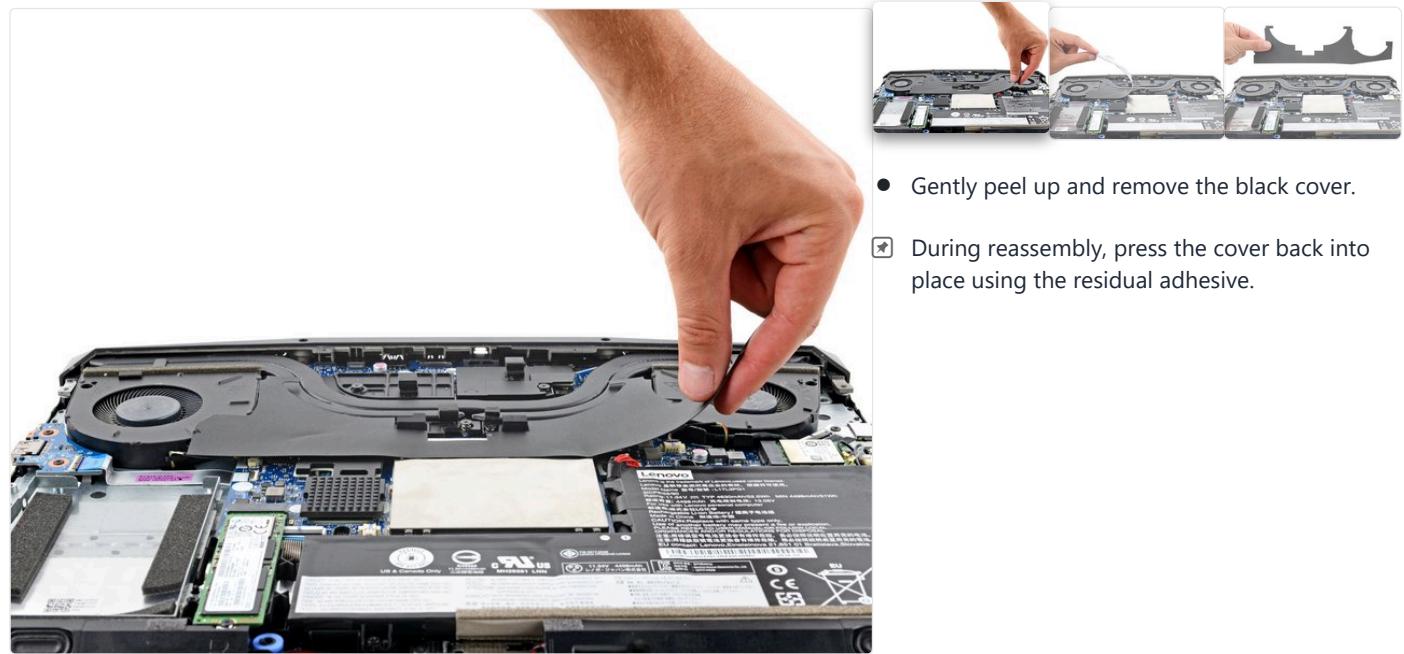
Step 9 Heat the black cover



- A stiff, black cover runs across the heatsink and fans.
- *i* Removing the cover makes repairs much easier, but isn't required. If you don't want to remove the cover, you can [roll it onto itself](#) to keep it out of the way and skip the next two steps.
- Heat an [iOpener](#) and apply it to the cover for two minutes.
 - i* You can also use a hair dryer. Follow [this guide](#) for more instructions.

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Step 10 Remove the cover



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Step 11 Disconnect the battery

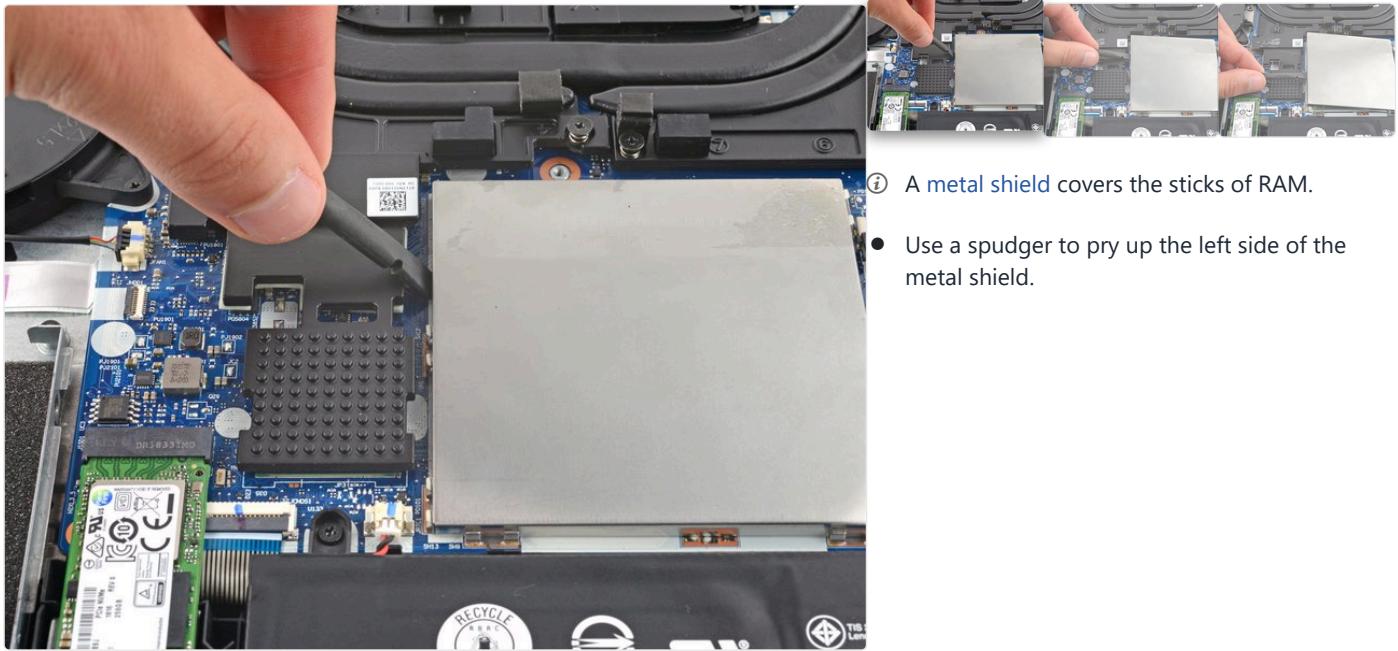


- Use the flat end of a spudger to push the battery connector straight out of its socket.

i Push the tab on top of the battery connector, not the wires themselves.

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Step 12 Pry up the metal shield



i A metal shield covers the sticks of RAM.

- Use a spudger to pry up the left side of the metal shield.

[Add a comment](#)

Step 13 Remove the metal shield

Edit



- Remove the metal shield.
- ☒ During reassembly, align the shield with its **metal clips** and press down firmly around the perimeter to secure the shield.

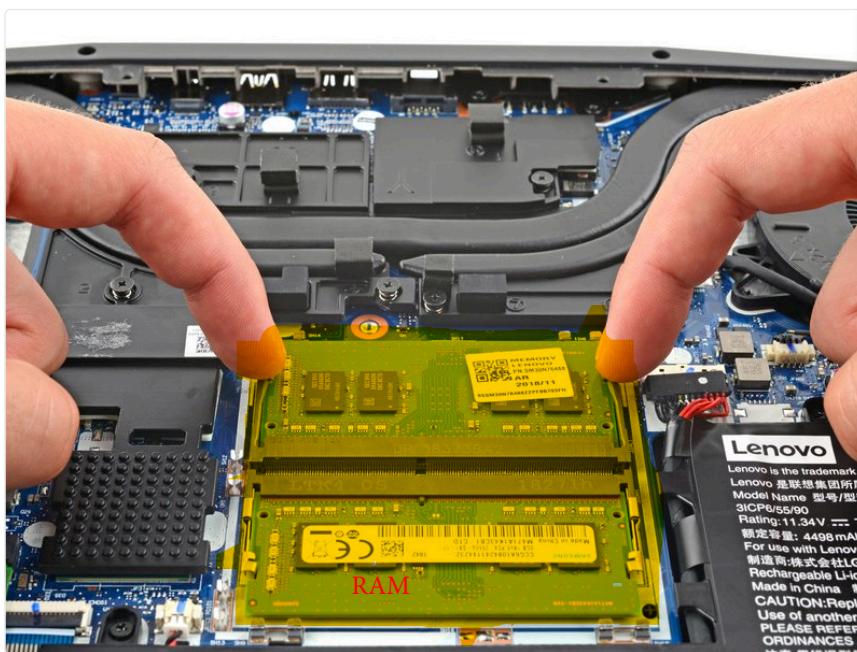


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Step 14 Remove the RAM



- ⓘ Two **metal arms** secure each stick of RAM.
- Simultaneously push out the arms until they disengage and the stick pops up at a slight angle.
- Remove the stick of RAM.
- Repeat the process to remove the other stick of RAM.
- ☒ To install a stick of RAM, insert it into its socket at a slight downward angle and push down firmly until both metal arms lock the stick in place.



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CONCLUSION

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

Check your repair by running hardware tests with [Lenovo Diagnostics](#).

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.

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Author



Spencer Day

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iPhone 14 Pro Max Battery Replacement



Dominik Schnabelrauch and 8 other contributors

Last updated on February 11, 2025

🕒 81K | 💬 4 | 📞 33 | ⭐ 0

🕒 1 - 2 hours

⌚ Moderate

⭐ Featured Guide

What you need

Fix Kit

This kit contains all the parts and tools needed to complete this guide.



iPhone 14 Pro Max Battery

US\$49.99

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Parts



iPhone 14 Pro Max Display Assembly Adhesive

US\$3.99

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Introduction

Use this guide to replace a worn-out or dead battery in your iPhone 14 Pro Max.

iPhone batteries are rated to hold 80% of their capacity for up to 500 charge cycles, which lasts roughly 18-24 months for most users. After that, your iPhone may need to be charged far more frequently, and iOS may warn you that performance is affected (in other words, your phone will run slower).

This guide was created using the **A2894** (international) model. If you're fixing a different iPhone 14 Pro Max model, there may be some visual discrepancies, but the procedure should be the same.

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

Note: On iOS 17.6 and earlier, your iPhone may display a warning about the "genuineness" of the battery after the repair, even when using original Apple parts. If your iPhone functions normally, you can safely ignore the warning. On iOS 18 and newer, authenticate your new battery using Apple's [Repair Assistant](#).

You'll need replacement adhesive to reattach the battery and the screen when reassembling the device. Your device will function normally, but will most likely lose its IP (Ingress Protection) rating.

Step 1 Remove the pentalobe screws

Edit



- Power off your iPhone before beginning disassembly.
- Remove the two 6.8 mm-long pentalobe P2 screws at the bottom edge of the iPhone.



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Step 2 Mark your opening picks



- i* If inserted too far, an opening pick can damage your device. Follow this step to mark your pick and prevent damage.
- Measure 3 mm from the tip and mark the opening pick with a permanent marker.
 - i* You can also mark the other corners of the pick with different measurements.
 - i* Alternatively, [tape a coin to a pick](#) 3 mm from the tip.



 16 comments

Step 3 Tape over any cracks



(i) If your iPhone has a cracked screen, keep further breakage contained and prevent bodily harm during your repair by taping over the glass.

- Lay overlapping strips of clear packing tape over the iPhone's screen until the whole face is covered.

⚠ Wear safety glasses to protect your eyes from any glass shaken free during the repair.

- If you can't get the suction cup to stick in the next few steps, fold a strong piece of tape (such as duct tape) into a handle and lift the screen with that instead.

(i) If all else fails, you can superglue the suction cup to the screen.

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Step 4 Anti-Clamp instructions



ⓘ The next three steps demonstrate the [Anti-Clamp](#), a tool we designed to make the opening procedure easier. **If you aren't using the Anti-Clamp, skip down three steps for an alternate method.**

- ⓘ For complete instructions on how to use the Anti-Clamp, [check out this guide](#).
- Pull the blue handle backwards to unlock the Anti-Clamp's arms.
- Slide the arms over either the left or right edge of your iPhone.
- Position the suction cups near the bottom edge of the iPhone—one on the front, and one on the back.
- Squeeze the cups together to apply suction to the desired area.

ⓘ If you find that the surface of your iPhone is too slippery for the Anti-Clamp to hold onto, you can [use tape](#) to create a grippier surface.



TOOL USED ON THIS STEP:
Clampy - Anti-Clamp
\$24.95

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Step 5



- Pull the blue handle forwards to lock the arms.
- Turn the handle clockwise 360 degrees or until the cups start to stretch.
- Make sure the suction cups remain aligned with each other. If they begin to slip out of alignment, loosen the suction cups slightly and realign the arms.

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Step 6



- Support your iPhone on something sturdy such as a hardcover book so it rests hands-free and parallel to the ground; this makes it easier to work with in the following steps.
- Use a hair dryer to heat along the bottom edge of the iPhone. The screen should feel slightly too hot to touch.
 - ⓘ For complete instructions on how to use a hair dryer, [check out this guide](#).
- Wait one minute to give the adhesive a chance to release and present an opening gap.
- Insert an opening pick under the screen's plastic bezel when the Anti-Clamp creates a large enough gap.
 - ⓘ If the Anti-Clamp doesn't create a sufficient gap, apply more heat to the area and rotate the handle a quarter turn.
- ⚠ Don't crank more than a quarter turn at a time, and wait one minute between turns. Let the Anti-Clamp and time do the work for you.
- **Skip the next two steps.**

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Step 7 Heat the bottom edge



(i) If you're using a suction handle, follow the next two steps to loosen the screen.

- Use a [hair dryer](#) or a [heat gun](#) to heat the bottom edge of the iPhone for 90 seconds or until the screen is slightly too hot to touch.

⚠ Never leave your hair dryer in one spot for an extended period of time.

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Step 8 Insert an opening pick



- Apply a suction handle to the bottom edge of the screen, while avoiding the very edge of the glass.

- Pull up on the suction cup with firm, constant pressure to create a slight gap between the screen and the frame.

- Insert an opening pick into the gap [under the screen's plastic bezel](#).

(i) The adhesive holding the screen in place is very strong; creating this initial gap takes a significant amount of force. If you're having a hard time opening a gap, apply more heat, and gently rock the screen up and down to weaken the adhesive until you create enough of a gap to insert your opening pick.

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Step 9 Heat the right edge



- Use a hair dryer to heat the right edge of the iPhone (the edge with the power button) for 90 seconds or until the screen is slightly too hot to touch.

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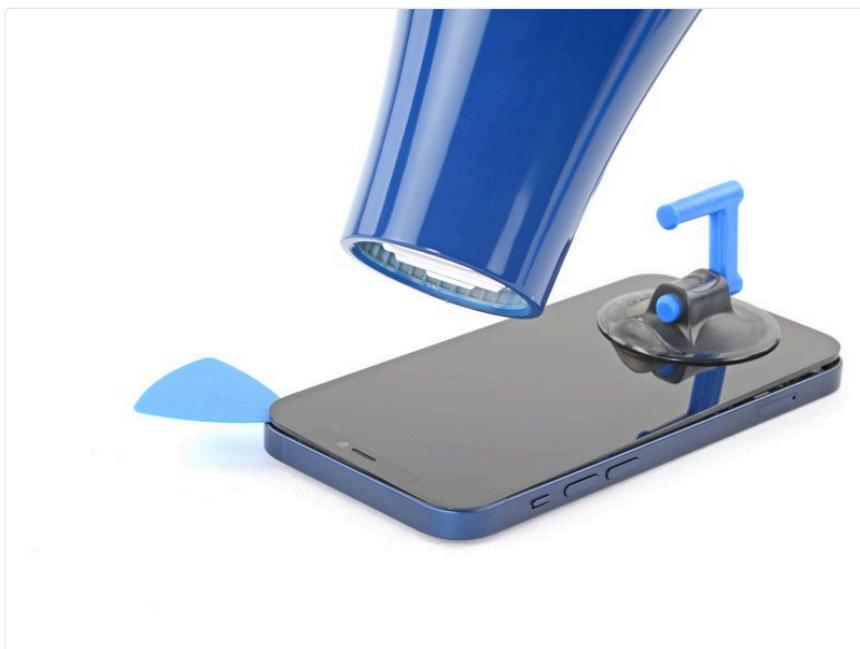
Step 10 Separate the right adhesive



- Slide the opening pick around the bottom right corner of the iPhone to separate its adhesive.
 - Continue sliding up the right edge of the iPhone until you reach the top right corner.
- ⚠️** Don't insert your pick more than 3 mm, as you may damage internal components.
- Leave the pick in the top right corner before continuing.

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Step 11 Heat the top edge



- Use a hair dryer to heat the top edge of the iPhone for 90 seconds or until the screen is slightly too hot to touch.

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Step 12 Slice the top edge adhesive



- Insert your pick underneath the top right edge of the phone. Slide it around the top-right corner and half way across the top edge stopping right before the earpiece speaker cut-out.

⚠ Don't insert your pick more than 3 mm, as you may damage the top sensors.

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Step 13 Heat the left edge



- Use a hair dryer to heat the left edge of the iPhone for 90 seconds or until the screen is slightly too hot to touch.

[Add a comment](#)

Step 14 Screen information



⚠ There are delicate cables along the left edge of your iPhone. **Don't insert your pick here**, as you may damage the cables.

[2 comments](#)

Step 15 Slice the left edge adhesive



- Insert a second opening pick in the bottom left corner of the iPhone.
- Twist both picks simultaneously until the left edge clips release.
 - ⓘ Apply the twisting force gradually.
 - ⓘ If you're having trouble separating the adhesive, reheat the left edge.

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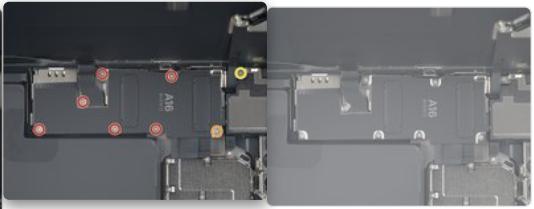
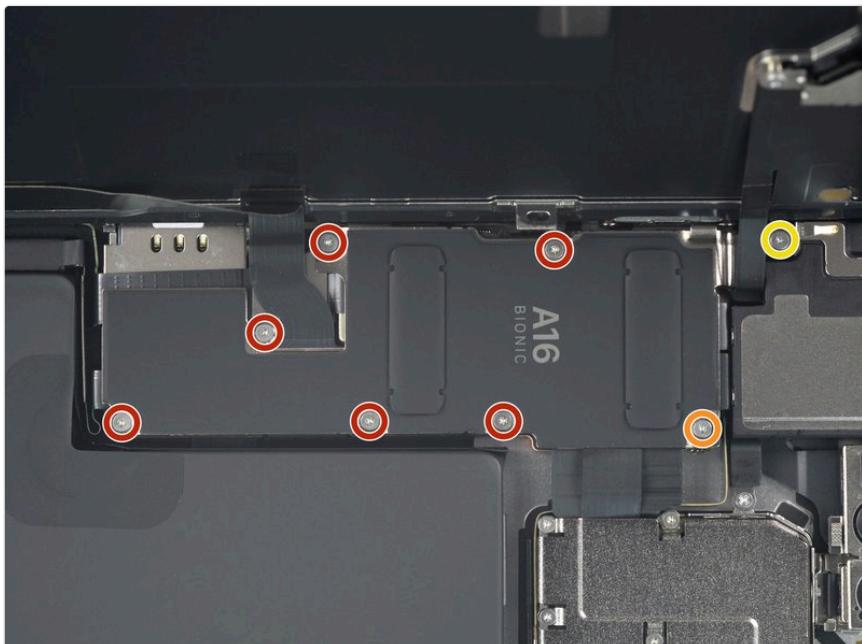
Step 16 Open the iPhone



- Rotate your iPhone so the right edge faces you.
 - Open your iPhone by swinging the screen up from the right side, like the front cover of a book.
 - Lean the screen against something to keep it propped up while you're working on the phone.
 - ⓘ If you don't have anything at hand to lean the screen against, your [suction handle can do the trick](#).
- During reassembly, lay the screen in position, align the clips along the top edge, and carefully press the top edge into place before snapping the rest of the screen down. If it doesn't click easily into place, check the condition of the clips around the perimeter of the screen and make sure they aren't bent.

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Step 17 Unfasten the battery connector cover screws



- Use a Y000 screwdriver to remove the eight screws securing the battery connector cover:
 - Six 1.3 mm-long screws
 - One 1.6 mm-long screw
 - One 1.9 mm-long screw

ⓘ Throughout this repair, **keep track of each screw** and make sure it goes back exactly where it came from to avoid damaging your iPhone.

ⓘ During reassembly, this is a good point to power on your iPhone and test all functions before you seal the screen in place. Be sure to power your iPhone back down completely before you continue working.



TOOL USED ON THIS STEP:
Magnetic Project Mat
\$19.95

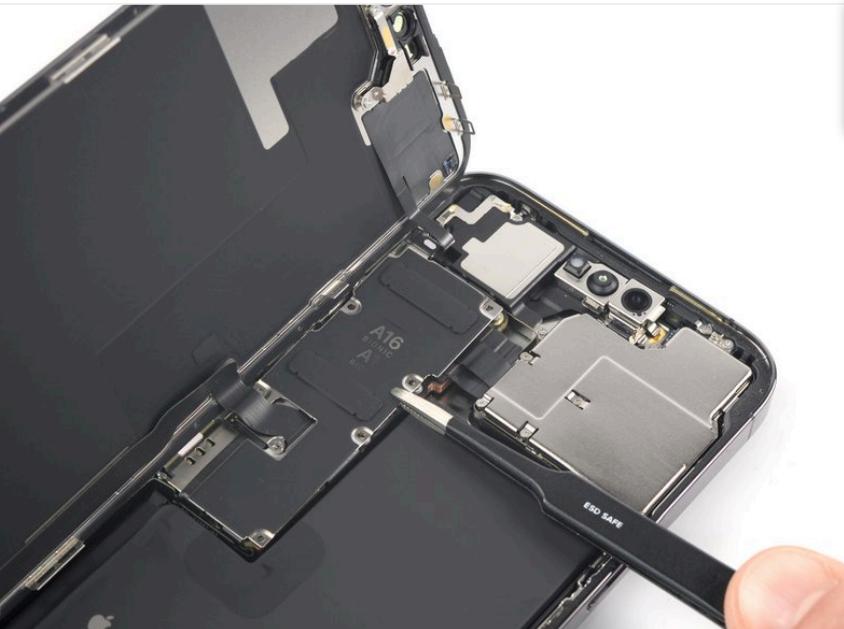
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Step 18 Remove the battery connector cover



- Grasp the connector cover with a pair of **tweezers** and slide it downwards to clear the flex cables.
- Remove the connector cover.

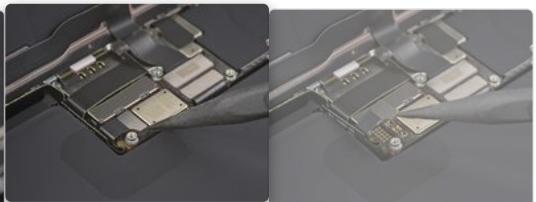


TOOL USED ON THIS STEP:
Tweezers
\$4.99

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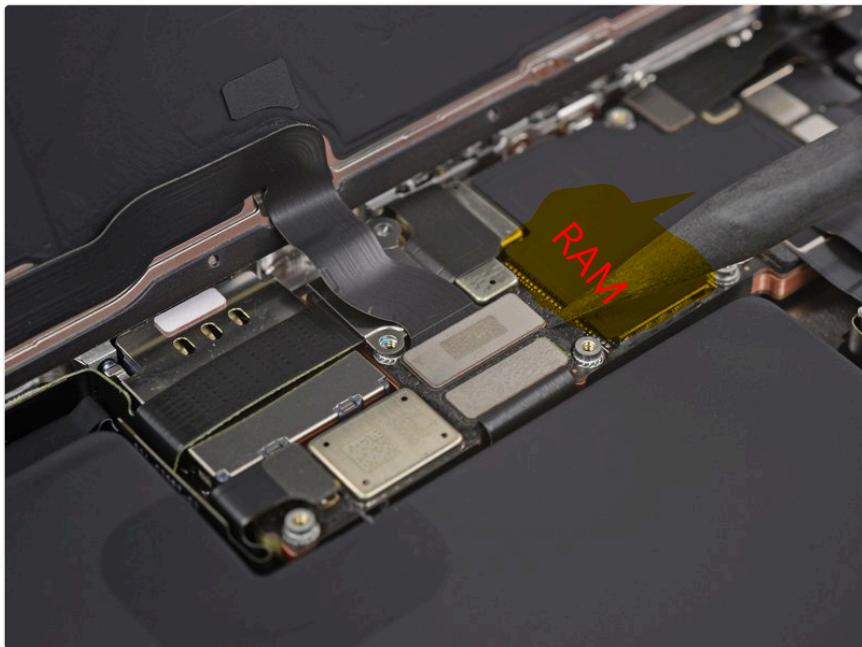
Step 19 Disconnect the battery



- Use the pointed end of a spudger to disconnect the battery cable by prying the connector straight up from its socket.
 - ⓘ Try not to damage the black silicone seal surrounding this and other board connections. These seals provide extra protection against water and dust intrusion.
- Bend the connector slightly away from the logic board to prevent it from accidentally making contact with the socket and providing power to the phone during your repair.

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Step 20 Disconnect the display cables



- Use the pointed end of a spudger to disconnect the first display cable by prying the connector straight up from its socket.
- ⓘ 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. Do not press down on the middle. If the connector is misaligned, the pins can bend, causing permanent damage.

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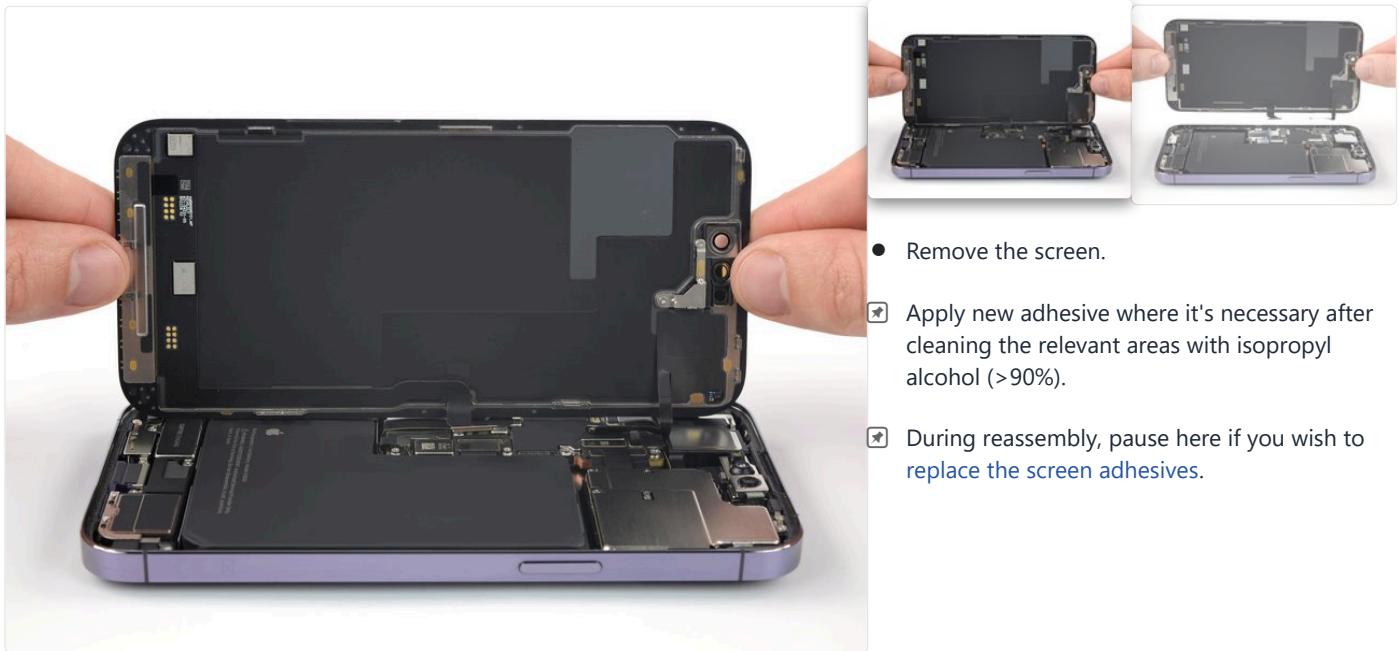
Step 21



- Use the pointed end of a spudger to disconnect the second display cable by prying the connector straight up from its socket.

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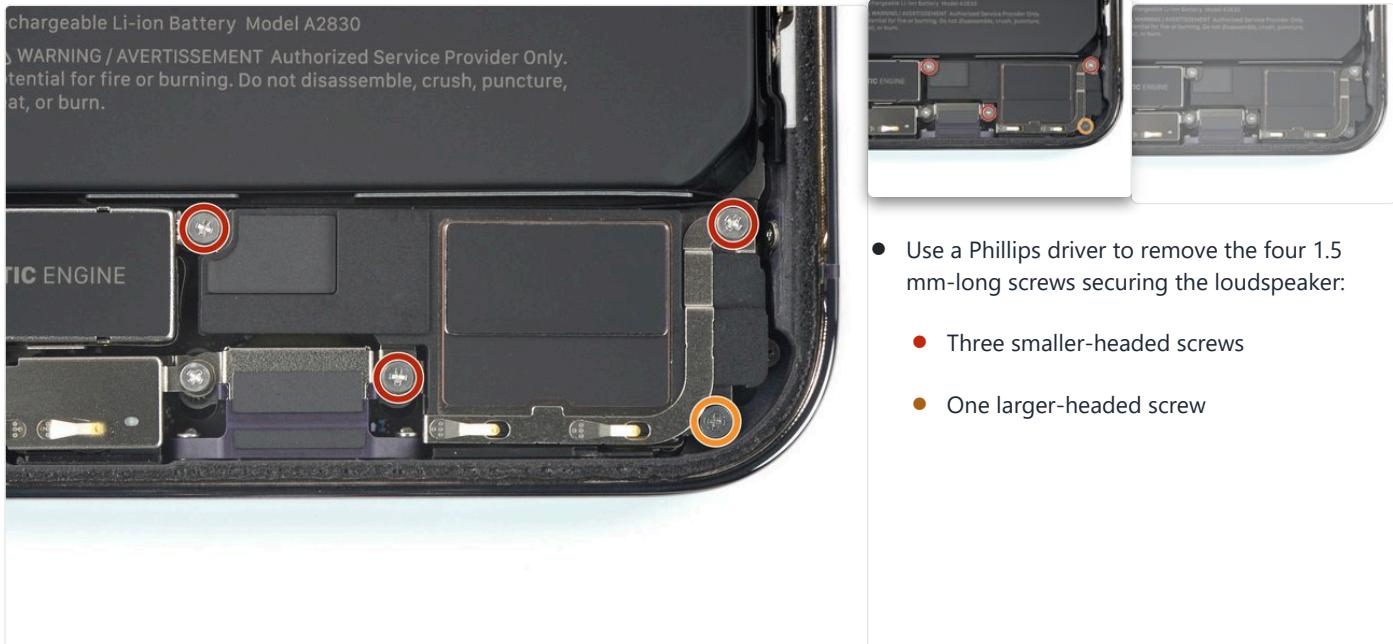
Step 22 Remove the screen



- Remove the screen.
- ★ Apply new adhesive where it's necessary after cleaning the relevant areas with isopropyl alcohol (>90%).
- ★ During reassembly, pause here if you wish to [replace the screen adhesives](#).

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Step 23 Unfasten the loudspeaker screws



- Use a Phillips driver to remove the four 1.5 mm-long screws securing the loudspeaker:
 - Three smaller-headed screws
 - One larger-headed screw

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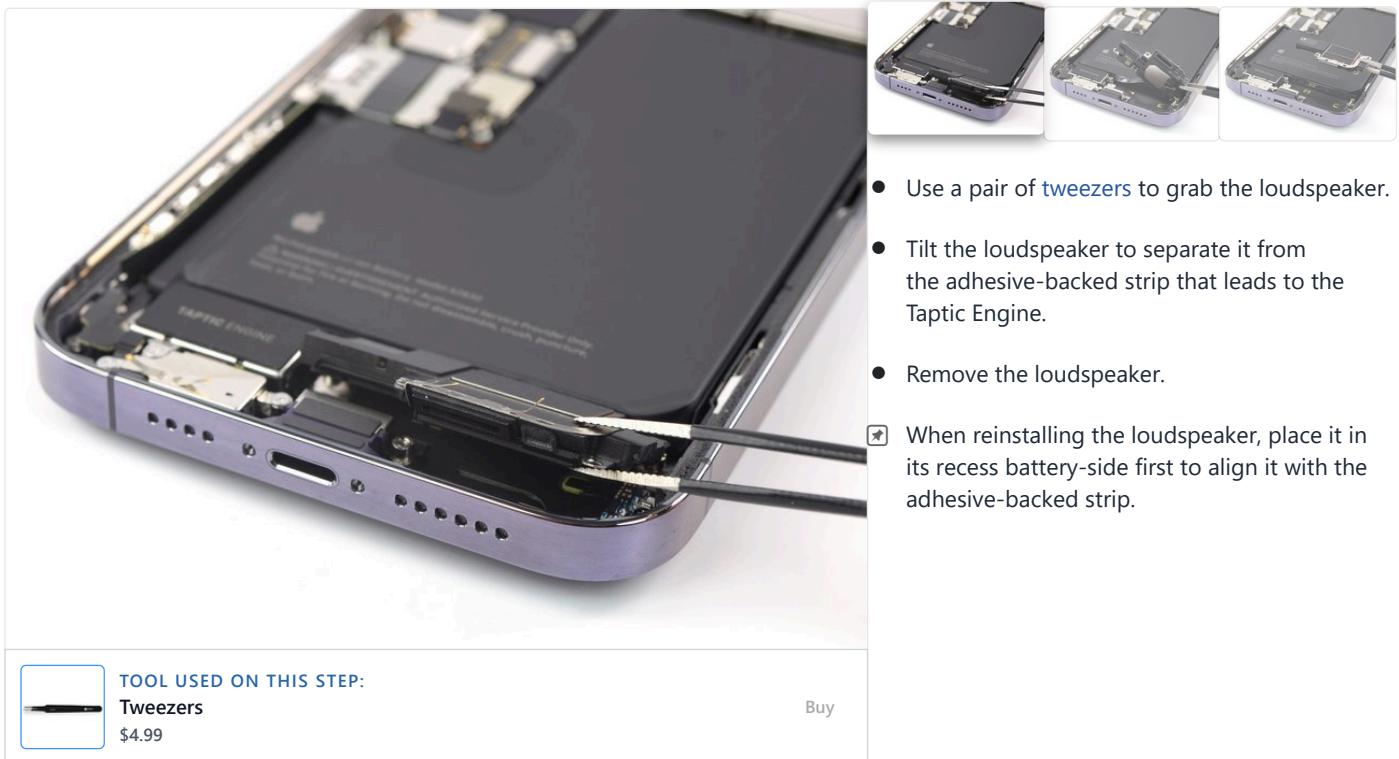
Step 24 Loosen the loudspeaker



- Use the flat end of a spudger to pry up and loosen the loudspeaker from the bottom right corner of the phone.

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Step 25 Remove the loudspeaker



TOOL USED ON THIS STEP:

Tweezers

\$4.99

- Use a pair of [tweezers](#) to grab the loudspeaker.
 - Tilt the loudspeaker to separate it from the adhesive-backed strip that leads to the Taptic Engine.
 - Remove the loudspeaker.
- ★ When reinstalling the loudspeaker, place it in its recess battery-side first to align it with the adhesive-backed strip.

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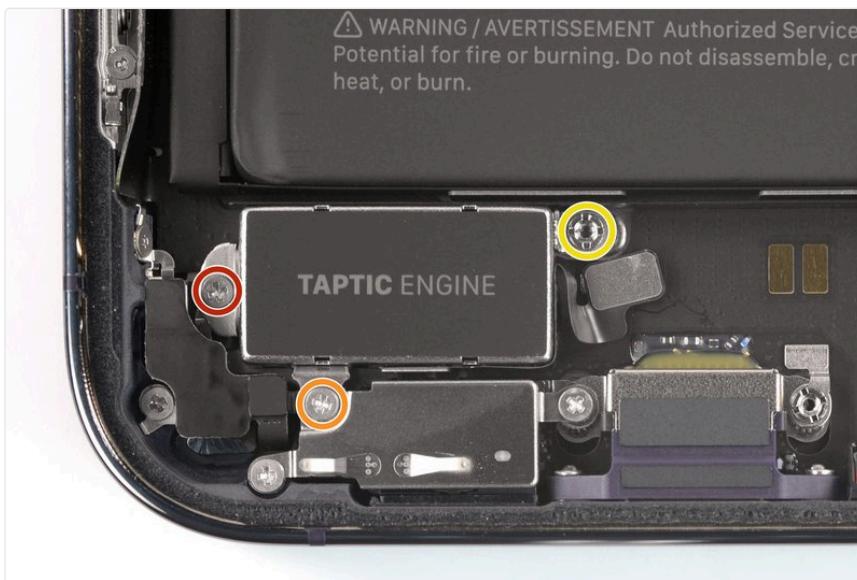
Step 26 Disconnect the Taptic Engine



- Use a spudger to disconnect the Taptic Engine by prying the connector straight up from its socket.

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Step 27 Unfasten the Taptic Engine screws



- Use a Phillips screwdriver to remove two screws securing the Taptic Engine:
 - One 1.8 mm-long screw
 - One 2.3 mm-long screw
- Use a standoff screwdriver to remove the 2.9 mm-long standoff screw securing the Taptic Engine.

ⓘ Standoff screws are best removed using a dedicated [standoff driver](#) or driver bit. In a pinch, a small flathead screwdriver will do the job—but use extra caution to ensure it doesn't slip and damage surrounding components.



TOOL USED ON THIS STEP:
Standoff Screwdriver for iPhones
\$5.49

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Step 28 Remove the Taptic Engine



- Use a pair of [tweezers](#) or your fingers to remove the Taptic Engine.



TOOL USED ON THIS STEP:
Tweezers
\$4.99

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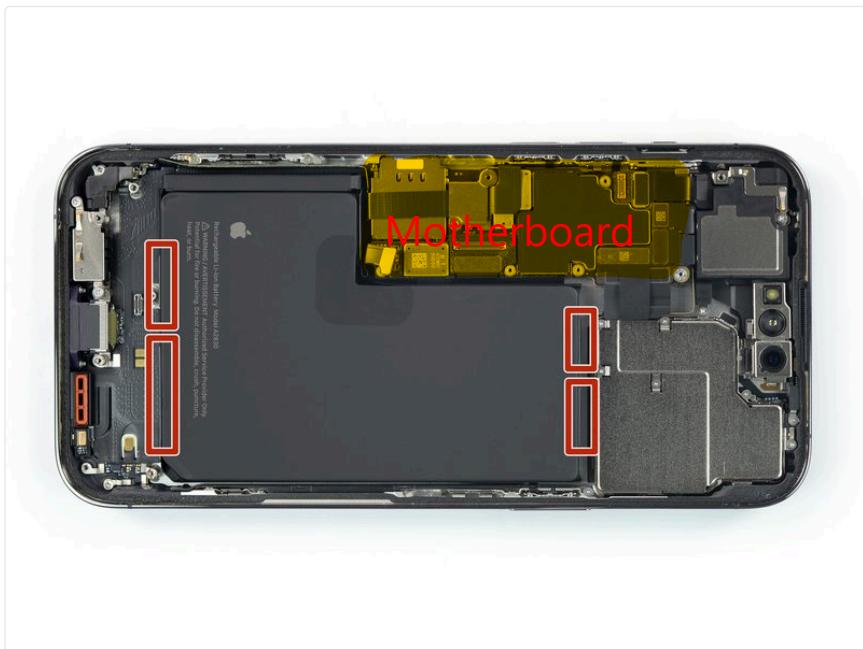
Step 29 Transfer the adhesive-backed strip



- ⓘ If your replacement part didn't come with the plastic strip along the top of the Taptic Engine, you'll need to transfer it to your replacement part.
- Use your fingers or a pair of tweezers to gently peel the adhesive-backed strip off of the Taptic Engine.

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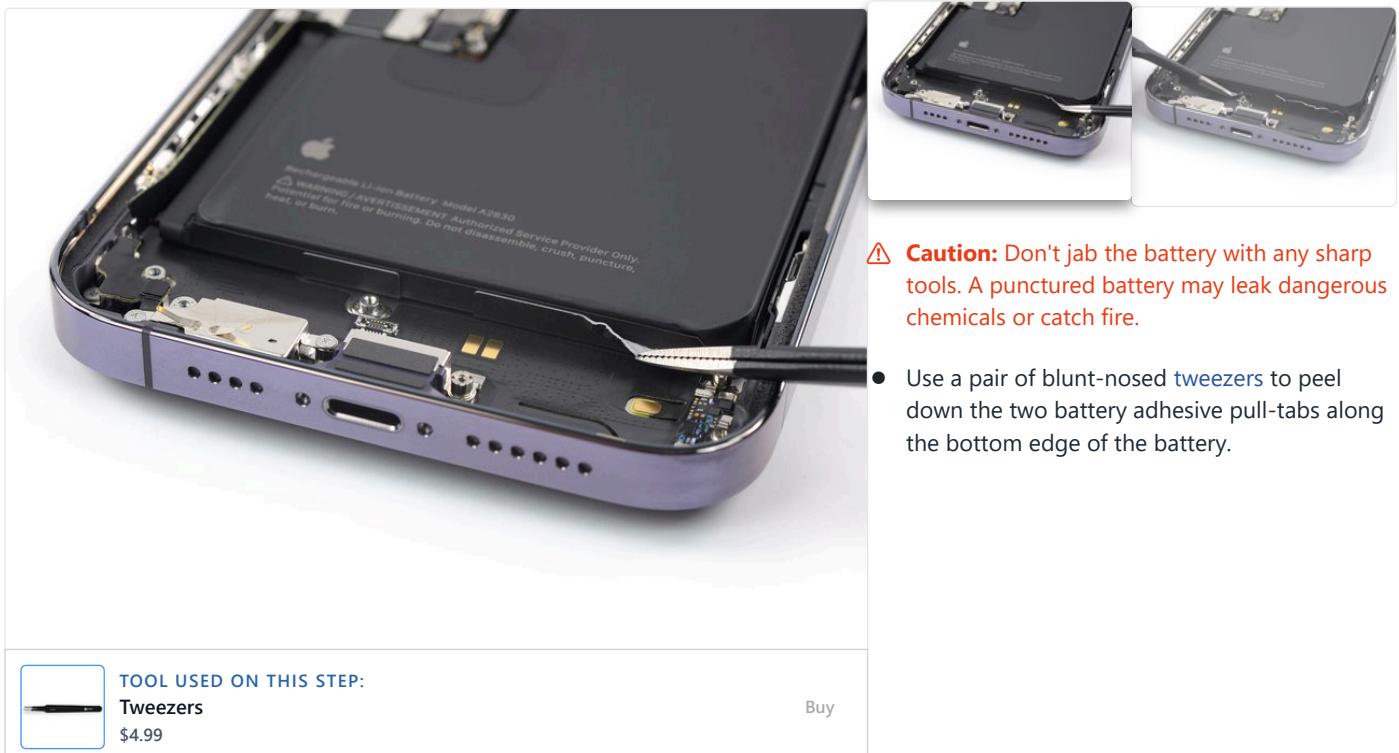
Step 30 Locate the adhesive pull-tabs



- ⓘ Four stretch-release adhesive strips secure the battery to the rear case—two on the bottom edge of the battery, and two on the top edge.
 - Each adhesive strip has a black pull-tab at the end, which is lightly adhered to the edge of the battery.
- ⓘ In the following steps, you'll pull each tab to slowly stretch out the adhesive underneath the battery. These "command-strip" style adhesives lose their stick when stretched, so you can remove the battery with ease.
- ⓘ If the strips break, don't panic! They don't always work as intended. Keep reading for tips on removing broken strips.

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Step 31 Remove the stretch-release adhesive



⚠ Caution: Don't jab the battery with any sharp tools. A punctured battery may leak dangerous chemicals or catch fire.

- Use a pair of blunt-nosed [tweezers](#) to peel down the two battery adhesive pull-tabs along the bottom edge of the battery.



TOOL USED ON THIS STEP:

Tweezers

\$4.99

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Step 32



- Grab the first pull-tab with your fingers or wrap it around a spudger and *slowly* pull it away from the battery, toward the bottom of the iPhone.
- Pull hard enough to maintain tension on the strip, but don't force it. Give it plenty of time to stretch and un-stick from under the battery.
- Don't press down on the battery. Hold the iPhone firmly by its sides.
- Keep the strip flat and unwrinkled. Try to pull evenly on the whole strip, rather than pulling mainly in the middle or on one side.
- Pull at a low angle so the strip doesn't snag on the edge of the battery.
- If the adhesive strip breaks off, try to retrieve it using your fingers or blunt tweezers, and continue pulling—but **do not** pry under the battery.

⚠ If any of the adhesive strips break off underneath the battery and can't be retrieved, try to remove the other strips, and then proceed as instructed below.

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Step 33



- Grab the second pull-tab with your fingers or the center of a spudger and pull it away from the battery, toward the bottom of the iPhone.
 - Follow the same procedure as with the previous strip: don't press down on the battery, keep the strip flat and unwrinkled, and pull at a low angle.
 - If the adhesive strip breaks off, try to retrieve it using your fingers or blunt tweezers, and continue pulling—but **do not** pry under the battery.
- ⚠️** If the adhesive breaks off underneath the battery and can't be retrieved, continue with the next step.

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Step 34



- Use a pair of blunt-nosed tweezers and an opening pick to peel up the two remaining battery adhesive pull-tabs from the top edge of the battery.

[Add a comment](#)

Step 35



- Using the same procedure as before, pull the third tab from underneath the battery. Try not to snag the adhesive on anything.

[Add a comment](#)

Step 36



- Pull the remaining adhesive tab using the same procedure. Try not to snag the adhesive on anything.

⚠️ Be careful not to fling the battery from the iPhone as the final adhesive strip comes out.

- If you removed all the adhesive strips successfully, skip the next step.
- Otherwise, continue with the next step below.

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Step 37 How to remove a stuck battery

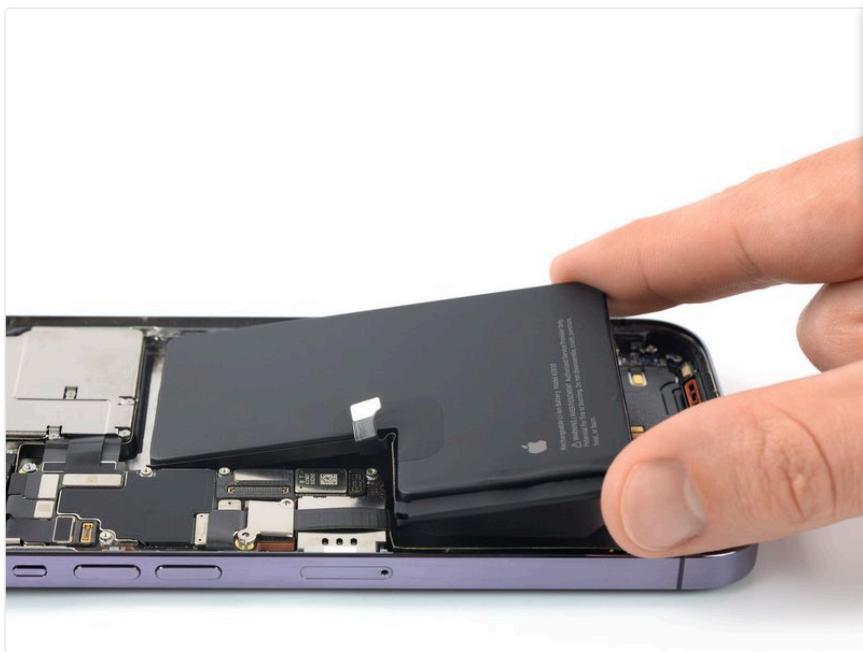


- If you're still having trouble removing the battery, apply a few drops of high concentration (90% or higher) isopropyl alcohol under the edge of the battery in the area of the broken adhesive strip(s).
- Wait about one minute for the alcohol solution to weaken the adhesive.
- Use an opening pick or the flat end of a spudger to gently lift the battery.

⚠ Don't try to forcefully lever the battery out. If needed, apply a few more drops of alcohol to further weaken the adhesive. Never deform or puncture the battery with your pry tool.

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Step 38 Remove the battery



- Remove the battery.
- ⚠** Do not reinstall a damaged or deformed battery, as doing so is a potential safety hazard.
- If there's any alcohol solution remaining in the phone, carefully wipe it off before installing your new battery.
 - If your new battery didn't come with adhesive preinstalled, refer to [this guide](#) for help replacing the adhesive strips.
 - Perform a [force restart](#) after reassembly. This can prevent several issues and simplify troubleshooting.

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CONCLUSION

If possible, turn on your device and test your repair before installing new adhesive and resealing.

To reassemble your device, follow these instructions in reverse order. During reassembly apply new adhesive where necessary after cleaning the relevant areas with isopropyl alcohol (>90%).

After your repair, depending on the replacement part, you may be able to [calibrate it using Apple's Repair Assistant](#), available as of iOS 18. Update your device, navigate to Settings → General → About → Parts & Service History, tap Restart & Finish Repair, and follow the onscreen prompts.

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.

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4 COMMENTS

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Very good.

Perfict structure for changing the battery

[Islam Bahgat](#) - Jan 13, 2023



Once I have followed all the steps and have removed the battery, how do I reconstruct the iPhone afterwards? Do I just do the steps again, but in reverse order? Help would be much appreciated.

[Louis Osborne](#) - Apr 5, 2023

Hi Louis,

to reassemble your device, you need to follow these instructions in reverse order. During reassembly apply new adhesive where necessary after cleaning the relevant areas e.g. with isopropyl alcohol (>90%).

[Dominik Schnabelrauch](#) - Apr 6, 2023



Thanks for the guide! I wonder: How to make it so that Battery Health info appears after replacing the battery with another one (also OEM)?

[UnderscoreVinyl](#) - Jun 28, 2024

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B I </> @ “ ⌂ ⌄

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Past 7 Days: **622**

Past 30 Days: **3,160**

All Time: **80,807**