

iPhone 14 Pro Max Screen Replacement

If your iPhone 14 Pro Max screen is cracked,...

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INTRODUCTION

If your iPhone 14 Pro Max screen is cracked, not responding to touch, or not showing a picture when your phone is powered on, use this guide to restore your iPhone to working order with a new screen, a.k.a. display assembly.

This guide was created using the **A2894** (international) model. If you're fixing a different iPhone 14 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, <u>take appropriate precautions</u>.

Note: True Tone and auto brightness functionality are disabled after a screen replacement, even when using an original Apple screen. Face ID is also disabled unless the iPhone runs iOS 15.2 or newer.

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

🖌 TOOLS:

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Hair Dryer (1)
P2 Pentalobe Screwdriver iPhone (1)
iOpener (1)
iFixit Opening Picks (Set of 6) (1)
Suction Handle (1)
Tri-point Y000 Screwdriver (1)
Spudger (1)
Tweezers (1)
Packing Tape (1)
Safety Glasses (1)
Heat Gun (1)
iFixit Adhesive Remover (1)
Microfiber Cleaning Cloths (1)
Anti-Clamp (1)
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🌣 PARTS:

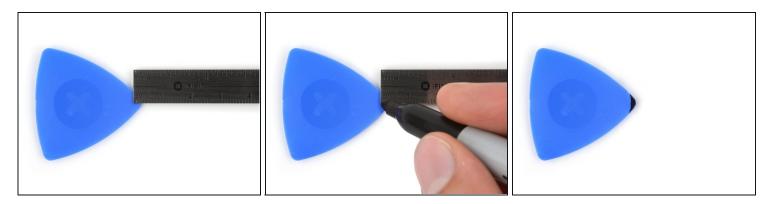
iPhone 14 Pro Max Screen (1) iPhone 14 Pro Max Display Assembly Adhesive (1) Tesa 61395 Tape (1) iPhone 14 Pro Max Test Cable for Screen and Digitizer (1)

Step 1 — Remove the pentalobe screws



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

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, <u>tape a coin to a pick</u> 3 mm from the tip.

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.

A 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.

Step 4 — Anti-Clamp instructions



(i) The next three steps demonstrate the <u>Anti-Clamp</u>, 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.**

(i) For complete instructions on how to use the Anti-Clamp, <u>check out this guide</u>.

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

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.

Step 6



- Support your iPhone on something sturdy such as a hardcover book so it rests handsfree 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.

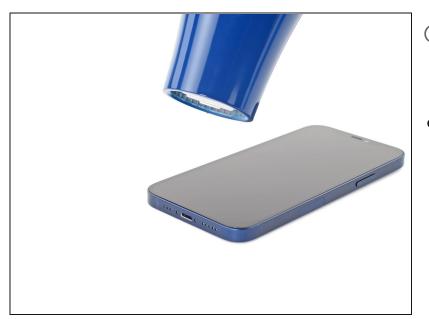
(i) For complete instructions on how to use a hair dryer, <u>check out this guide</u>.

- 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.
 - (i) 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.

Step 7 — Heat the bottom edge



- If you're using a suction handle, follow the next two steps to loosen the screen.
- Use a <u>hair dryer</u> or a <u>heat gun</u> 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.

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 <u>under the screen's plastic bezel</u>.
- 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.

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.

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.

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.

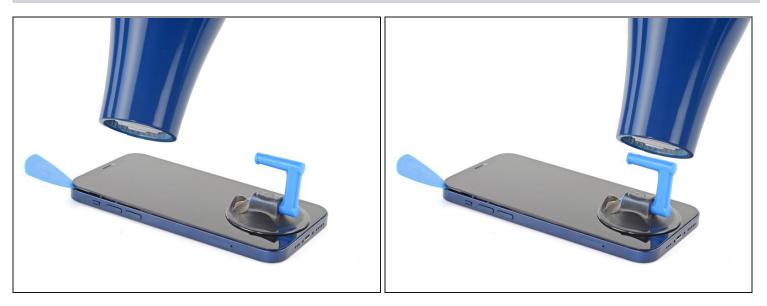
Step 12 — Slice the top edge adhesive



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

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

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.



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.

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.

 i Apply the twisting force gradually.
 - i If you're having trouble separating the adhesive, reheat the left edge.

Step 16 — Open the iPhone

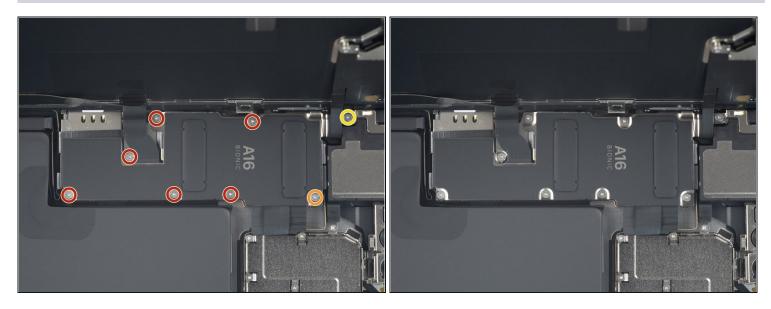


- Rotate your iPhone so the right edge faces you.
- Open your iPhone by swinging the screen up from the right side, like the front cover of a book.
- Lean the screen against something to keep it propped up while you're working on the phone.

If you don't have anything at hand to lean the screen against, your <u>suction handle can</u> <u>do the trick</u>.

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.

Step 17 — Unfasten the battery connector cover screws



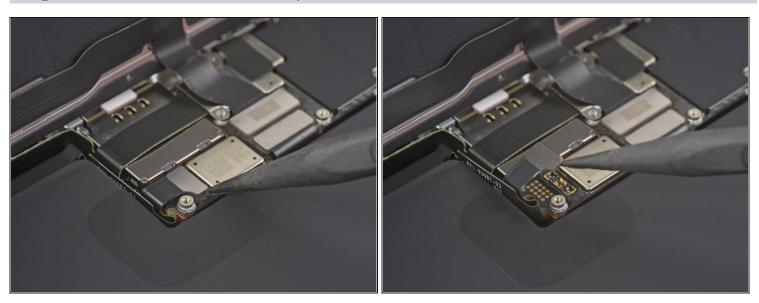
- Use a Y000 screwdriver to remove the eight screws securing the battery connector cover:
 - Six 1.3 mm-long screws
 - One 1.6 mm-long screw
 - One 1.9 mm-long screw
- (i) Throughout this repair, <u>keep track of each screw</u> and make sure it goes back exactly where it came from to avoid damaging your 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.

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.

Step 19 — **Disconnect the battery**

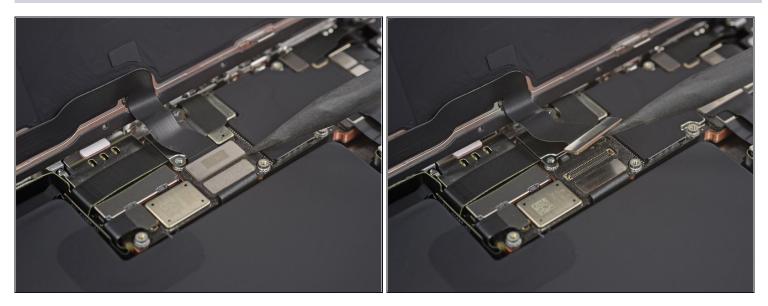


• Use the pointed end of a spudger to disconnect the battery cable by prying the connector straight up from its socket.

⑦ 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.

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 <u>press connectors</u> 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.

Step 21



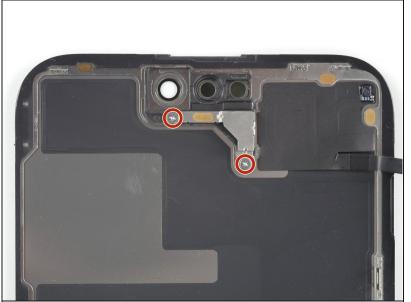
• Use the pointed end of a spudger to disconnect the second display cable by prying the connector straight up from its socket.

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 <u>replace the screen adhesives</u>.

Step 23 — Unfasten the front sensor bracket



- (i) The remaining steps demonstrate how to transfer the <u>front sensor assembly</u> to a new screen. If your replacement screen comes with the assembly preinstalled, skip these steps.
 - Use a PH000 screwdriver to remove the two 1.4 mm-long screws securing the sensor assembly bracket.

Step 24 — Remove the front sensor bracket



• Use tweezers, or your fingers, to remove the front sensor assembly bracket.

Step 25 — Heat the front sensor assembly



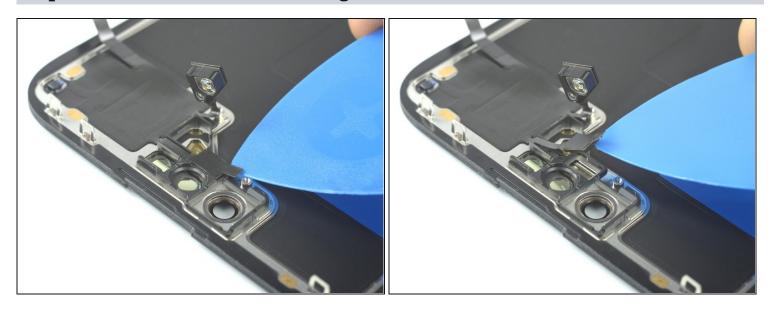
- <u>Heat an iOpener</u> and apply it to the top edge of the screen for two minutes.
 - (i) A <u>hair dryer</u>, <u>heat gun</u>, or hot plate may also be used, but be careful not to overheat the phone—the display is susceptible to heat damage.

Step 26 — Disconnect the proximity sensor



- Insert an opening pick between the proximity sensor and its recess on the screen.
- Pry up with the pick to separate the proximity sensor from the screen.

Step 27 — Disconnect the ambient light sensor



- Insert an opening pick between the ambient light sensor and its recess on the screen.
- Pry up with the pick to separate the ambient light sensor from the screen.

Step 28 — Remove the front sensor assembly



- (i) At this point, the adhesive may have cooled down. If so, apply a heated iOpener to the assembly for one minute before continuing.
- Insert an opening pick under the left side of the front sensor assembly.
- Slide the pick under the assembly to separate it from the frame.

Step 29



• Remove the front sensor assembly.

When transferring the assembly to a new screen, follow these instructions:

- Connect the sensors to their slots in the frame to help align the main section of the assembly.
- Use <u>Tesa tape</u> to re-adhere any sections of the assembly that are no longer sticky.

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.

The best way to secure the new screen is to apply a sheet of custom-cut double-sided tape to the frame and place the screen back in its original position.

Take your e-waste to an <u>R2 or e-Stewards certified recycler</u>.

Repair didn't go as planned? Try some <u>basic troubleshooting</u>, or ask our <u>Answers</u> <u>community</u> for help.