



iPhone XS Rear-Facing Cameras Replacement

Use this guide to remove and replace the rear...

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INTRODUCTION

Use this guide to remove and replace the rear cameras in the iPhone XS. The rear camera assembly consists of two individual modules: one wide-angle camera and one telephoto camera. Both modules are replaced as a single unit.

Both iPhone XS and XS Max use the same camera; the part can be swapped freely between the two models.

Note: This guide instructs you to completely detach the display cables and remove the display assembly in order to better access the rear cameras—however, it's possible to remove and replace the rear cameras with the display cables still connected. Advanced readers may skip disconnecting the display in order to save time, as long as the display is properly supported and the display cables are not damaged.

TOOLS:

[Anti-Clamp](#) (1)
[Tri-point Y000 Screwdriver](#) (1)
[Spudger](#) (1)
[Tweezers](#) (1)
[P2 Pentalobe Screwdriver iPhone](#) (1)
[iOpener](#) (1)
[iFixit Opening Picks \(Set of 6\)](#) (1)
[Suction Handle](#) (1)
[iFixit Opening Tool](#) (1)
[Phillips #000 Screwdriver](#) (1)

PARTS:

[iPhone XS/XS Max Rear Camera](#) (1)
[iPhone XS Display Assembly Adhesive](#) (1)

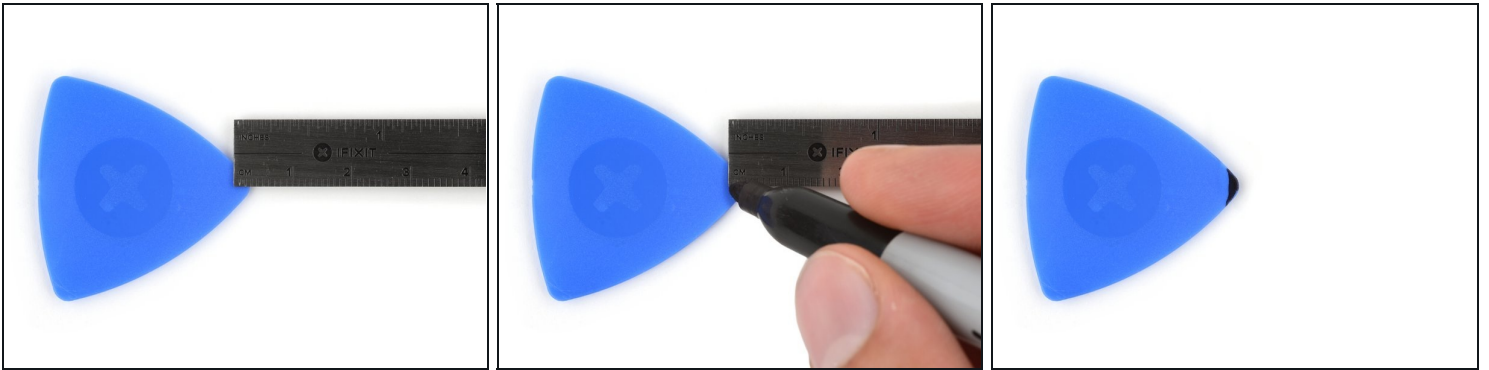
Step 1 — Pentalobe Screws



⚠ Before you begin, discharge your iPhone battery below 25%. A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.

- Power off your iPhone before beginning disassembly.
 - Remove the two 6.9 mm-long pentalobe screws at the bottom edge of the iPhone.
- ⓘ Opening the iPhone's display will compromise its waterproof seals. Have replacement seals ready before you proceed past this step, or take care to avoid liquid exposure if you reassemble your iPhone without replacing the seals.

Step 2 — Mark your opening picks



- ① 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.
 - ① You can also mark the other corners of the pick with different measurements.
 - ① Alternatively, [tape a coin to a pick](#) 3 mm from the tip.

Step 3 — Tape over any cracks



- ① 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.
- ① If all else fails, you can superglue the suction cup to the screen.

Step 4 — Anti-Clamp instructions



- ① 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.**
- ① 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.
- ① 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.

Step 5



- Pull the blue handle forward 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



- [Heat an iOpener](#) and thread it through the arms of the Anti-Clamp.
 - ① You can also use a [hair dryer](#), [heat gun](#), or hot plate—but extreme heat can damage the display and/or internal battery, so proceed with care.
- Fold the iOpener so it lays on the bottom edge of the iPhone.
- Wait one minute to give the adhesive a chance to release and present an opening gap.
- Insert an opening pick into the gap under the screen and the plastic bezel, **not the screen itself**.
 - ① 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 three steps.**

Step 7



- ① Heating the lower edge of the iPhone helps soften the adhesive securing the display, making it easier to open.
- Use a hairdryer or heat gun or [prepare an iOpener](#) and apply it to the lower edge of the iPhone for about a minute in order to soften up the adhesive underneath.

Step 8



- If you're using a single suction handle, apply it to the bottom edge of the phone, while avoiding the curved portion of the glass.

Step 9



- Pull up on the suction cup with firm, constant pressure to create a slight gap between the front panel and rear case.
- Insert an opening pick into the gap under the screen and the plastic bezel, **not the screen itself**.
- ① The watertight adhesive holding the display 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 tool.

Step 10



- Slide the opening pick around the lower left corner and up the left edge of the iPhone, slicing through the adhesive holding the display in place.
- ⚠ Don't insert your pick more than 3 mm, as you may damage internal components.

Step 11 — Screen information



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

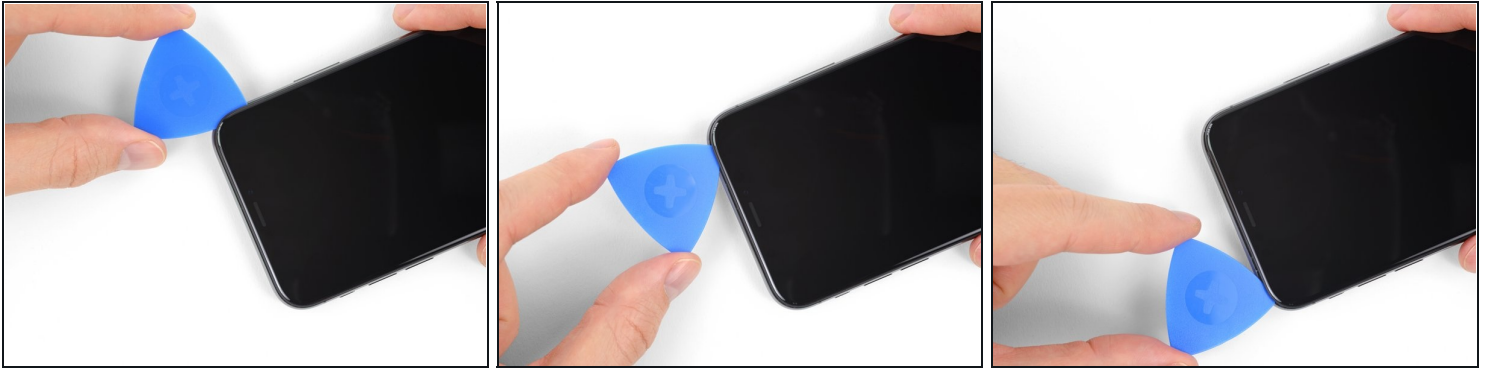
Step 12



- Re-insert your pick at the bottom edge of the iPhone, and slide it up the right side to continue separating the adhesive.

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

Step 13



① The top edge of the display is secured with both glue and clips.

- Slide the opening pick around the top corner of the display, while gently pulling or wiggling the display **down** in the direction of the Lightning port.

⚠ The clips will break if you use too much force. Work carefully and be patient.

⚠ Don't insert your pick more than 3 mm, as you may damage the front panel sensor array.

- Slide the pick to the opposite corner and cut any remaining adhesive securing the display.

Step 14



- Pull on the small nub on the suction cup to remove it from the front panel.

Step 15



- Open the iPhone by swinging the display up from the left side, like the back cover of a book.
- ⚠ Don't try to fully separate the display yet, as several fragile ribbon cables still connect it to the iPhone's logic board.
- Lean the display against something to keep it propped up while you're working on the phone.
- ★ During reassembly, lay the display in position, align the clips along the top edge, and carefully press the top edge into place before snapping the rest of the display down. If it doesn't click easily into place, check the condition of the clips around the perimeter of the display and make sure they aren't bent.

Step 16 — Display Assembly



- Remove five screws securing the logic board connector bracket, of the following lengths:
 - Three 1.0 mm Y000 screws
 - One 1.3 mm Y000 screw
 - One 3.7 mm Phillips 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.

Step 17



- Remove the bracket.
 - ⓘ The bracket may be lightly adhered in place. Lift gently but firmly to separate it.
 - ★ During reassembly, this is a good point to power on your iPhone and test all functions before you seal the display in place. Be sure to power your iPhone back down completely before you continue working.

Step 18



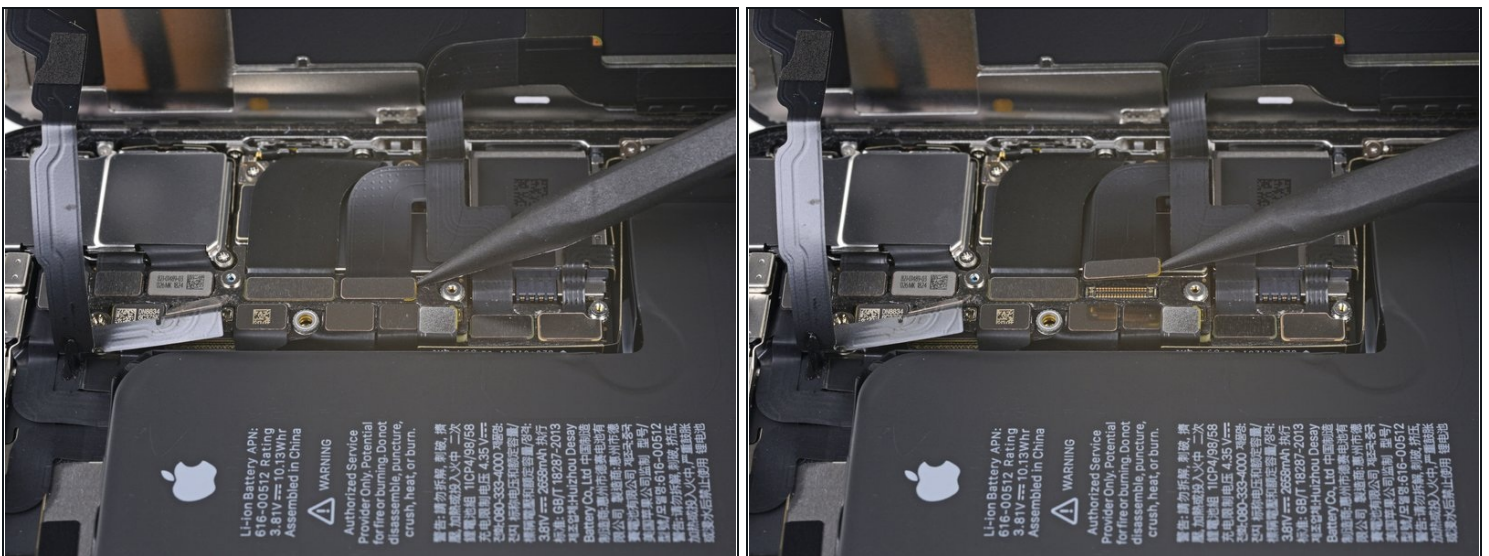
- Use a spudger or a clean fingernail to pry the battery connector up from its socket on the logic board.
 - ⓘ Try not to damage the black silicone seal surrounding this and other board connections. These seals provide extra protection against water and dust intrusion.
- Bend the connector slightly away from the logic board to prevent it from accidentally making contact with the socket and providing power to the phone during your repair.

Step 19



- Use a spudger or a fingernail to pry up and disconnect the front panel sensor assembly connector.

Step 20



- Use a spudger or a fingernail to disconnect the OLED panel cable connector.
 - ☑ 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.

Step 21



- Use a spudger or fingernail to pry the digitizer cable connector up from its socket.
 - ☑ This connector's recessed location makes it tricky to reconnect. Take your time and align it carefully, then gently press it into place with your fingertip—first one side, then the other. You should feel it click into place.
 - ☑ If any part of your screen doesn't respond to touch after your repair, disconnect the battery and then re-seat this connector, making sure it clicks fully into place and that there's no dust or other obstruction in the socket.

Step 22



- ① The front panel sensor assembly flex cable is lightly adhered in place.
- Carefully lift the cable until the adhesive separates.

Step 23



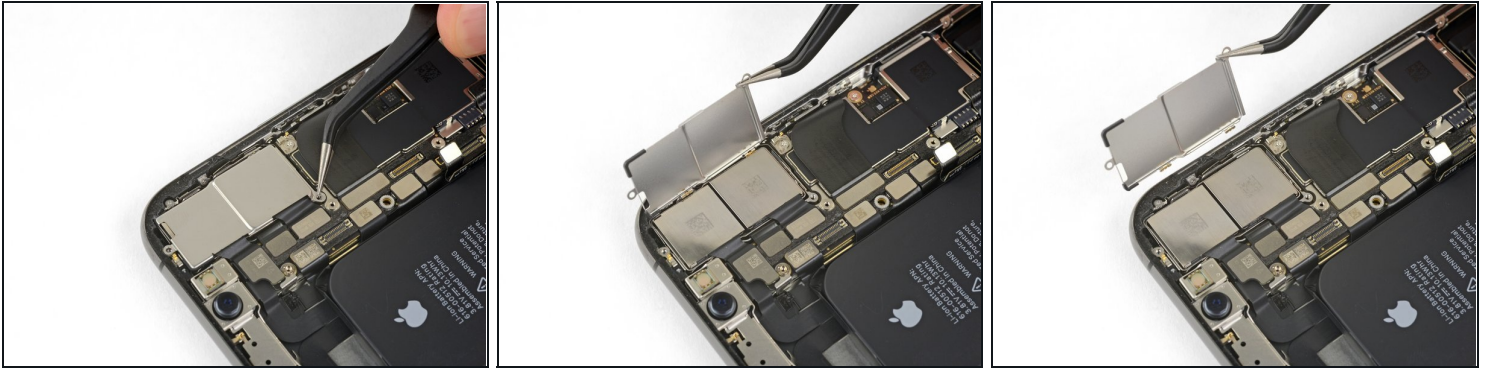
- Remove the display assembly.
- ✦ During reassembly, pause here if you wish to [replace the waterproof adhesive around the edges of the display](#).

Step 24 — Rear-Facing Cameras



- Remove the two screws securing the rear camera cover:
 - One 1.4 mm Y000 screw
 - One 2.0 mm Phillips screw

Step 25



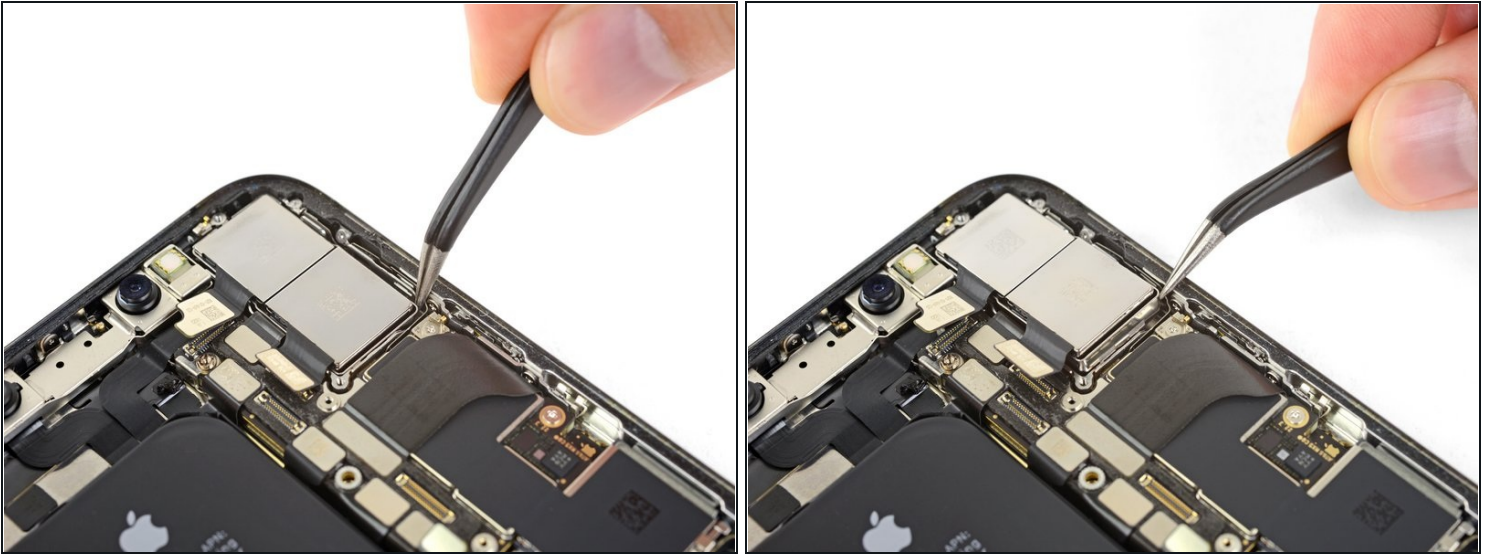
- Lift the camera cover from the edge closest to the battery, and remove it.
- ☑ To reinstall the camera cover, follow the images exactly in reverse: first, lower the outside edge until the two protruding gold tabs on the cover are slotted securely into the bracket on the outer edge of the camera module. Then, hinge the cover closed.
⚠ If the two gold tabs are not seated correctly, the cover will not lay flat.

Step 26



- Use an iFixit opening tool or a fingernail to disconnect the two camera cable connectors by prying them straight up from their sockets.

Step 27



- Insert both tips of your tweezers or a pointed pry tool at the bottom right corner of the camera, between the camera assembly and the iPhone's frame.
- Gently pry up to lever the camera out of the iPhone.
 - ① The camera assembly is not glued down, but it is firmly press-fit into place. A spudger or plastic pry tool may not be strong enough to lever it out.

Step 28



- Remove the rear-facing camera assembly.

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