



# iPad Pro 9.7" Battery Replacement

Remove and replace a worn out battery in the iPad Pro 9.7".

Written By: Arthur Shi



# INTRODUCTION

Follow this guide to remove and replace the battery for the iPad Pro 9.7".

If your iPad is not the cellular enabled model, skip the first step.

Because there are steps in this guide where the battery may remain connected to the logic board, leave the iPad on until the battery is **completely discharged** (the iPad turns itself off) before attempting this guide.

Have plenty of high concentration (over 90%) isopropyl alcohol to help make residue cleanup easier.

If your battery is swollen, [take appropriate precautions](#).

For optimal performance, calibrate your newly installed battery after completing this guide: Charge it to 100% and keep charging it for at least 2 more hours. Then use your device until it shuts off due to low battery. Finally, charge it uninterrupted to 100%.

## TOOLS:

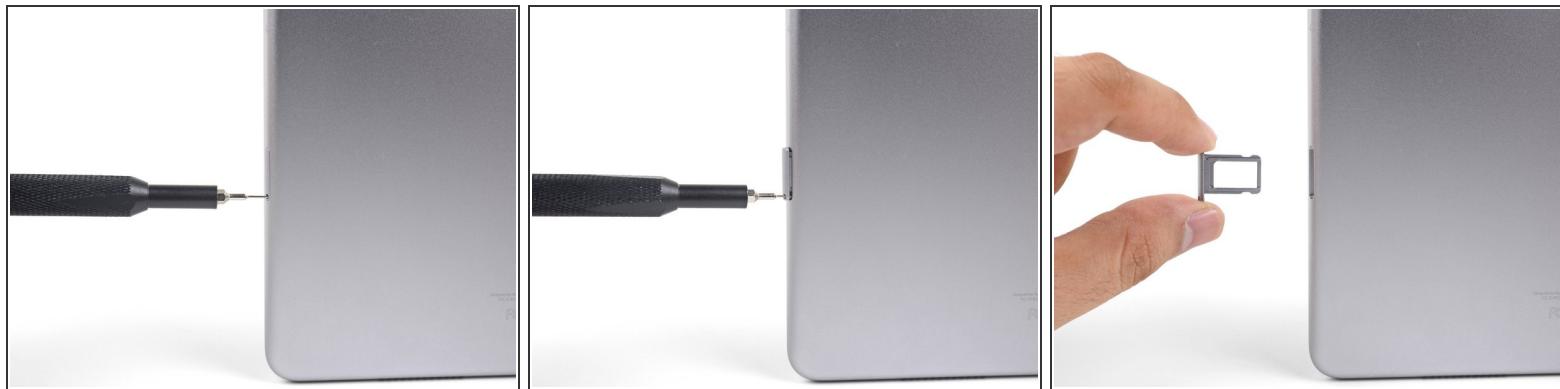
- [SIM Card Eject Tool](#) (1)
- [iOpener](#) (1)
- [Suction Handle](#) (1)
- [Phillips #000 Screwdriver](#) (1)
- [Battery Blocker](#) (1)
- [Spudger](#) (1)
- [iFixit Opening Picks set of 6](#) (1)
- [Tweezers](#) (1)
- [iFixit Opening Tools](#) (1)
- [Plastic Cards](#) (1)
- [iFixit Adhesive Remover \(for Battery, Screen, and Glass Adhesive\)](#) (1)
- [Painter's Tape](#) (1)
- [High Content Rubbing Alcohol](#) (1)
- [Latex or nitrile gloves](#) (1)
- [Utility Scissors](#) (1)
- [Large Needle Nose Pliers](#) (1)
- [Safety Glasses](#) (1)



## PARTS:

- [iPad Pro 9.7" Battery](#) (1)
- [iPad Pro 9.7" Adhesive Strips](#) (1)

## Step 1 — SIM Card Tray



- Insert a SIM card eject tool, bit, or a paperclip into the small hole in the SIM card tray, located near the bottom edge of the iPad.
- Press firmly to eject the tray.
- Remove the SIM tray.

## Step 2 — iPad Pro 9.7" Opening Procedure



- If your display glass is cracked, keep further breakage contained and prevent bodily harm during your repair by taping the glass.
- Lay overlapping strips of clear packing tape over the iPad's display until the whole face is covered.
  - ⓘ This will keep glass shards contained and provide structural integrity when prying and lifting the display.
- Do your best to follow the rest of the guide as described. However, once the glass is broken, it will likely continue to crack as you work, and you may need to use a metal prying tool to scoop the glass out.

 Wear safety glasses to protect your eyes, and be careful not to damage the LCD screen.

## Step 3



**i** The following steps involve using an iOpener to soften the adhesive holding the front panel assembly in place. When using the iOpener, be sure to heat it in the microwave for no more than 30 seconds.

- Handling it by the tabs on either end, place a heated iOpener over the top edge of the iPad.
- Let the iOpener sit on the iPad for two minutes to soften the adhesive securing the front panel to the rest of the iPad.

## Step 4



- ⓘ While the iPad looks uniform from the outside, there are delicate components under certain portions of the front glass. To avoid damage, only heat and pry in the areas described in each step.
  - As you follow the directions, take special care to avoid prying in the following areas:
    - Home Button
    - Front Facing Camera
    - Main Camera

## Step 5



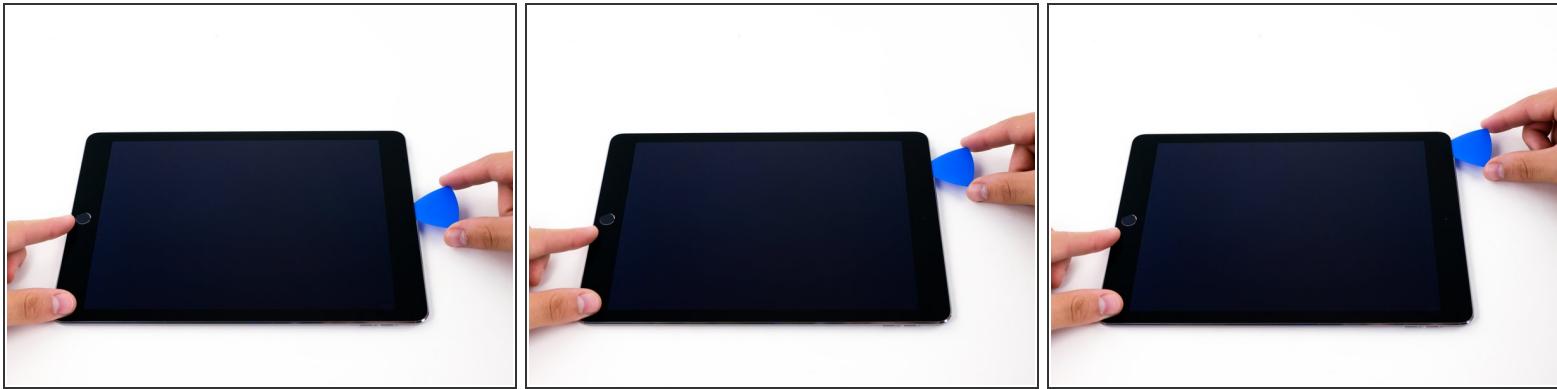
- Place a suction cup over the iPad's front-facing camera and press down to create a seal.
- *(i)* To get the most leverage, place the suction cup as close to the edge as possible without going past the edge of the display.

## Step 6



- Firmly pull up on the suction cup to create a small gap between the front panel and the rear case.
- **⚠** Do not pull too hard or you may shatter the glass.
- Once you've opened a sufficient gap, insert an opening pick into the gap to prevent the adhesive from resealing.

## Step 7

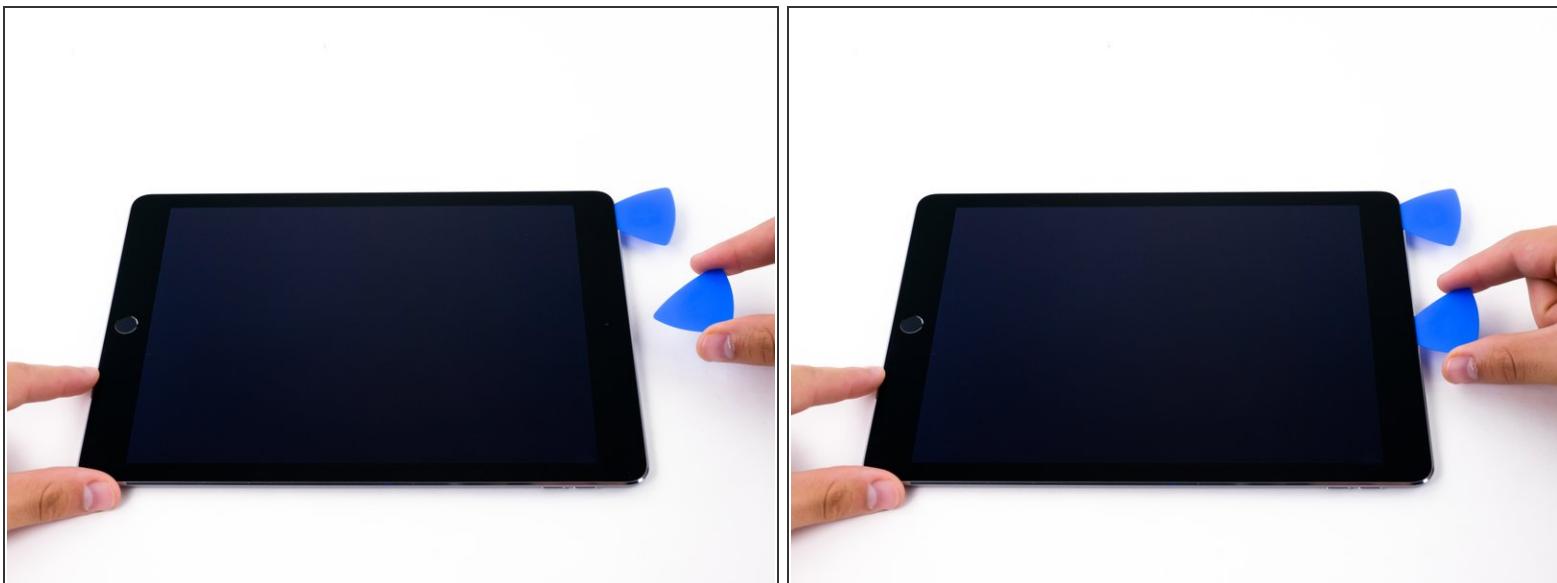


- Slide the pick along the edge of the display, towards the headphone jack.
  - If there is still a considerable amount of resistance when sliding the opening pick, repeat the iOpener heating procedure and apply additional heat.

**⚠** Don't insert the pick past the bezel into the display area, or you will damage it.

**ⓘ** A good rule of thumb is to never insert the opening pick more than a quarter inch into the iPad.

## Step 8



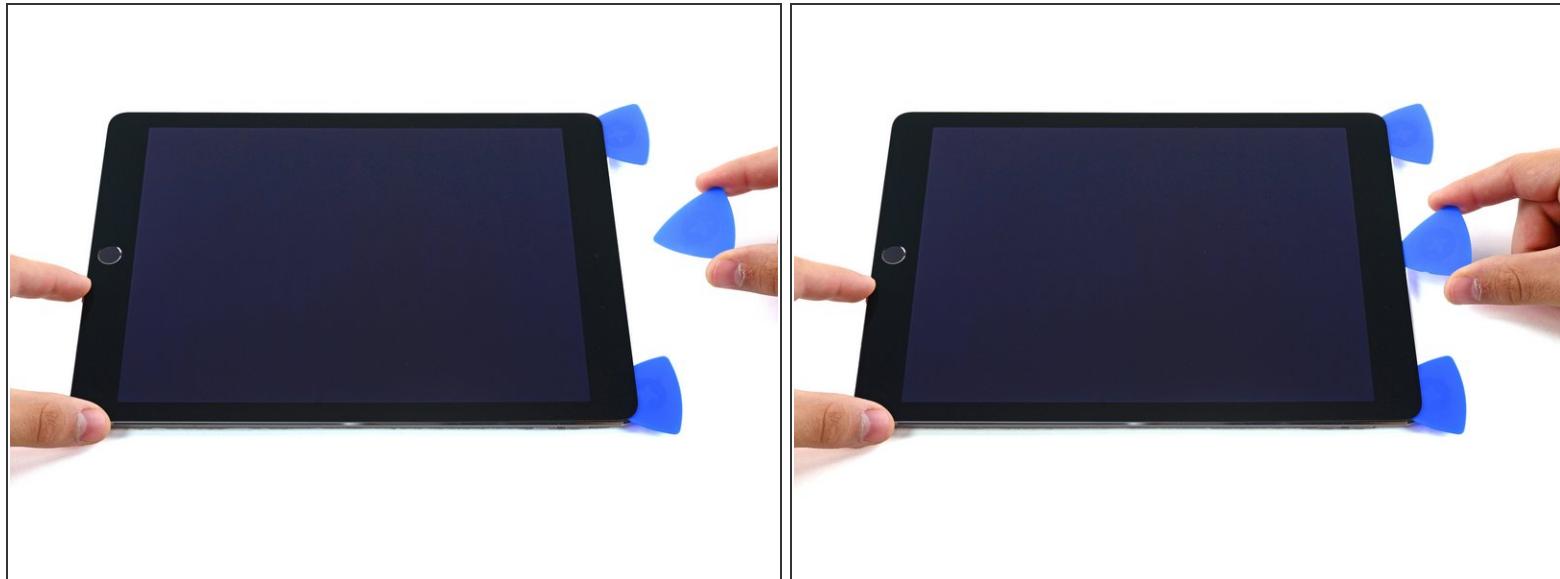
- Insert a second opening pick by the front-facing camera.

## Step 9



- Slide the second pick along the top edge of the iPad, towards the Sleep/Wake Button.

## Step 10



- Insert a third pick by the front-facing camera.

## Step 11



- Bring the right opening pick down and around the top right corner of the iPad.

## Step 12



- Bring the left opening pick around the top left corner of the tablet.

## Step 13



- Reheat the iOpener and lay it over the right edge of the display to loosen the adhesive underneath.

## Step 14



- Slide the right opening pick roughly halfway down the display.

## Step 15



- Reheat the iOpener and apply heat to the left side of the iPad.

## Step 16



- Slide the left-hand opening pick about halfway down the edge of the display.

## Step 17



- Slide the opposite opening pick down to the bottom right corner of the iPad.
- ⓘ If necessary, reheat the adhesive on the right edge to loosen the display assembly.

## Step 18



- Slide the left-hand opening pick down the edge of the display until you reach the corner.

## Step 19



- Use the iOpener to apply heat to the bottom edge of the iPad.

## Step 20



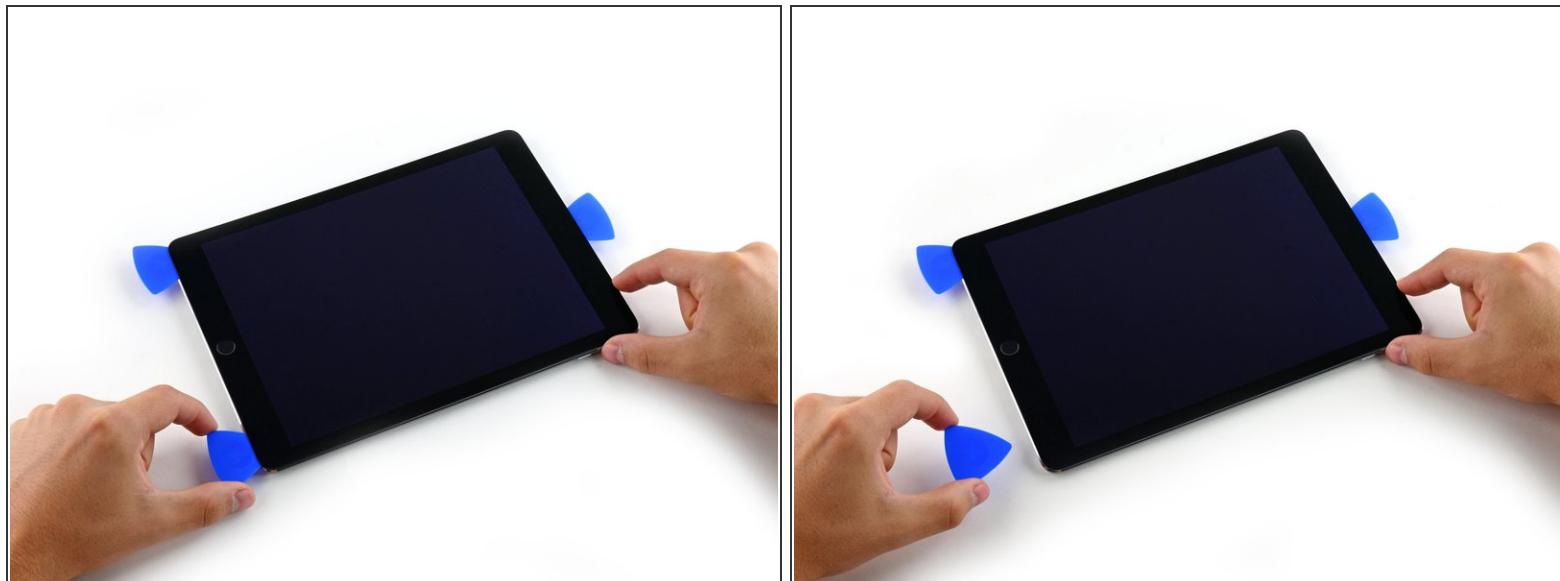
- Bring the right-hand opening pick around the bottom corner of the iPad.

## Step 21



- Repeat for the left-hand pick.
- ⓘ Reheat and reapply the iOpener as needed.

## Step 22



- Remove the right-hand opening pick at the bottom of the iPad.

## Step 23



- Slide the left-hand opening pick along the bottom edge of the display, then remove it from the bottom right corner of the iPad.

**⚠** Be very careful to not insert the pick more than a quarter inch into the display to avoid damaging the Home Button and display cables underneath.

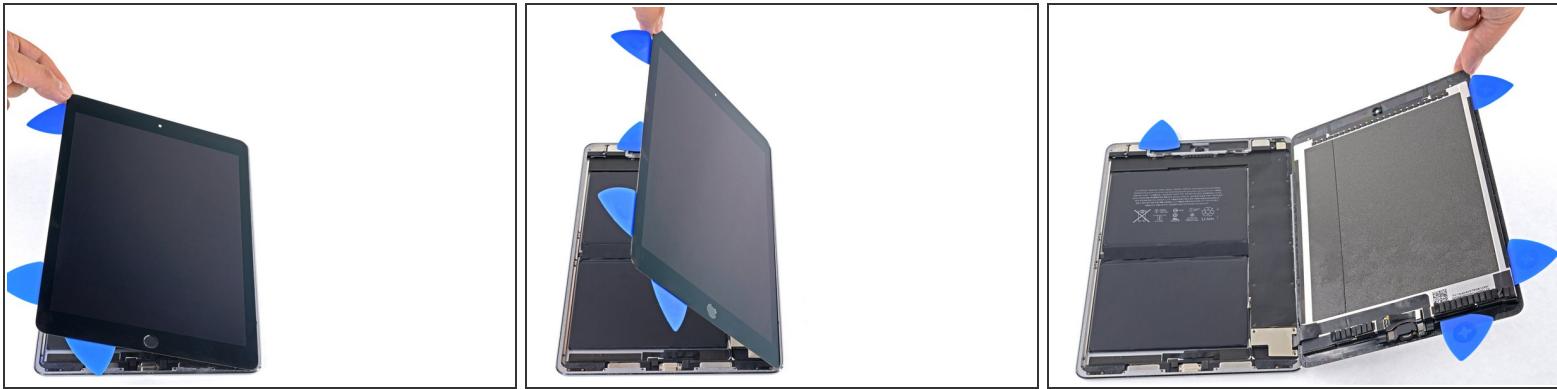
## Step 24 — iPad Pro 9.7" Opening Display Assembly



- Use picks to ensure most of the adhesive has been cut through on the top, left, and bottom sides.
- Twist the top and bottom picks to separate the display assembly from the rear case.

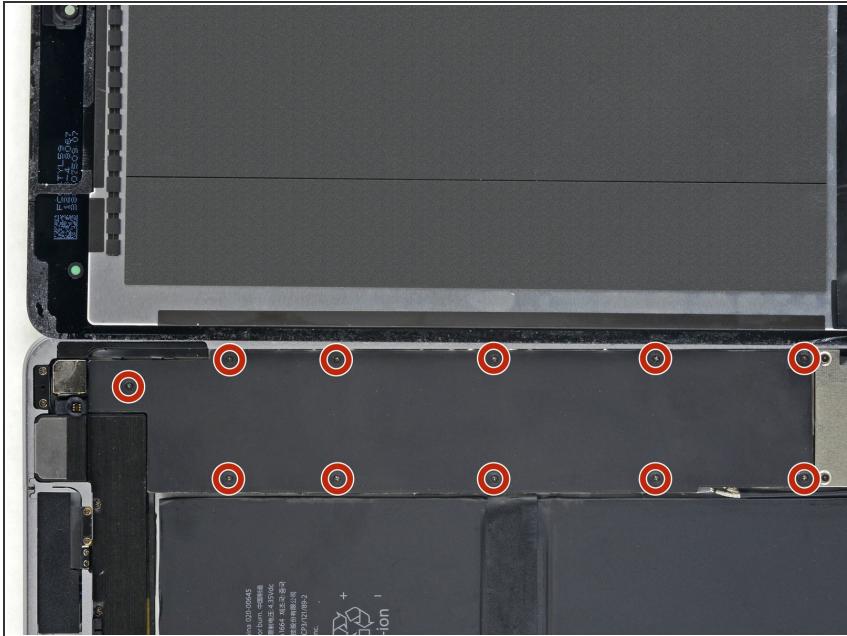
**⚠** Do not attempt to remove the display—it is still attached to the rear case.

## Step 25



- Swing the display assembly towards the right of the case, using the right edge as a hinge.
  - As you move the display assembly, make sure that the display ribbon cable is not being stressed.
- Continue swinging the display assembly until it lays flat next to the rear case.

## Step 26 — iPad Pro 9.7" Battery Disconnect



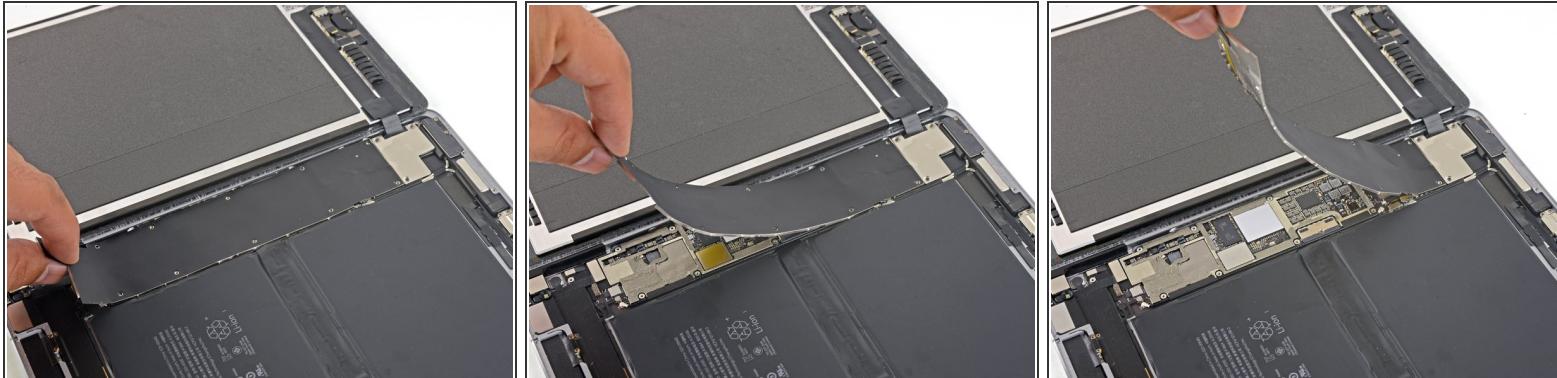
- Remove the eleven 1.3 mm Phillips screws securing the EMI shield.

## Step 27



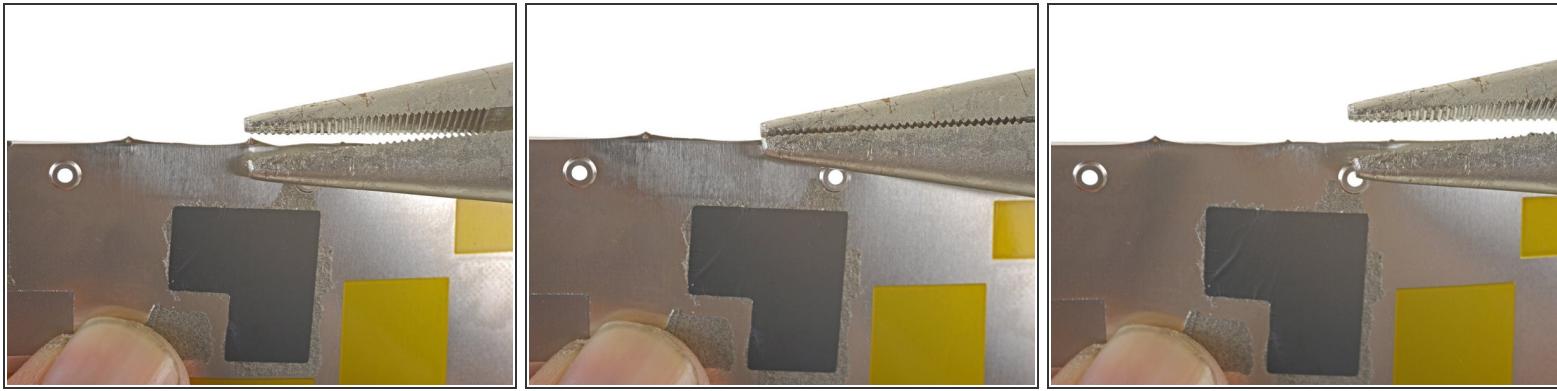
- Apply a [heated iOpener](#) to the EMI shield on the logic board for one minute.

## Step 28



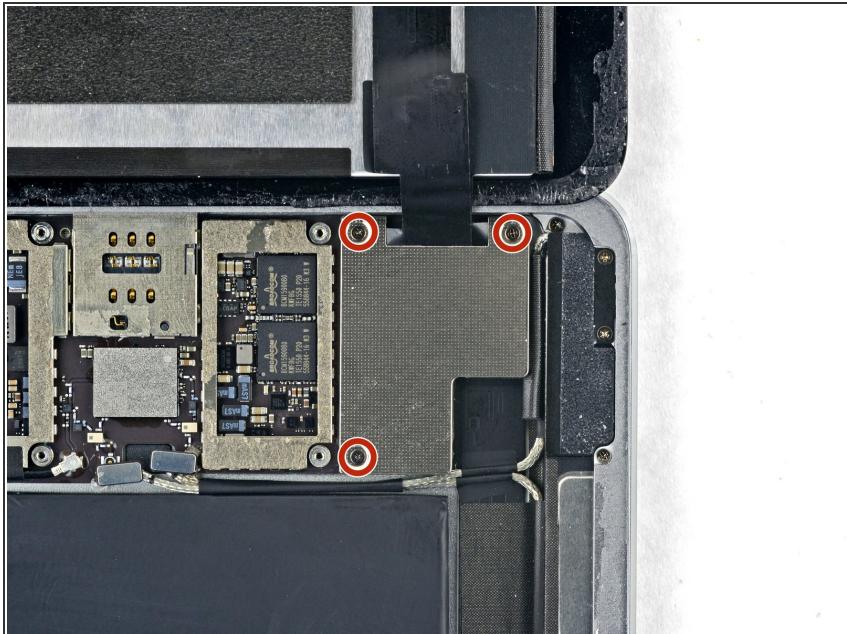
- Lift the logic board EMI shield, starting at the edge nearest the top of the iPad.
- Slowly peel the EMI shield up from the logic board.
  - *(i)* This takes a bit of force due to the many tiny clips securing the shield, and the shield may deform slightly. That's okay—try to keep the deformation to a minimum, and it will lay flat when reinstalled and screwed down.
- Remove the logic board EMI shield.

## Step 29



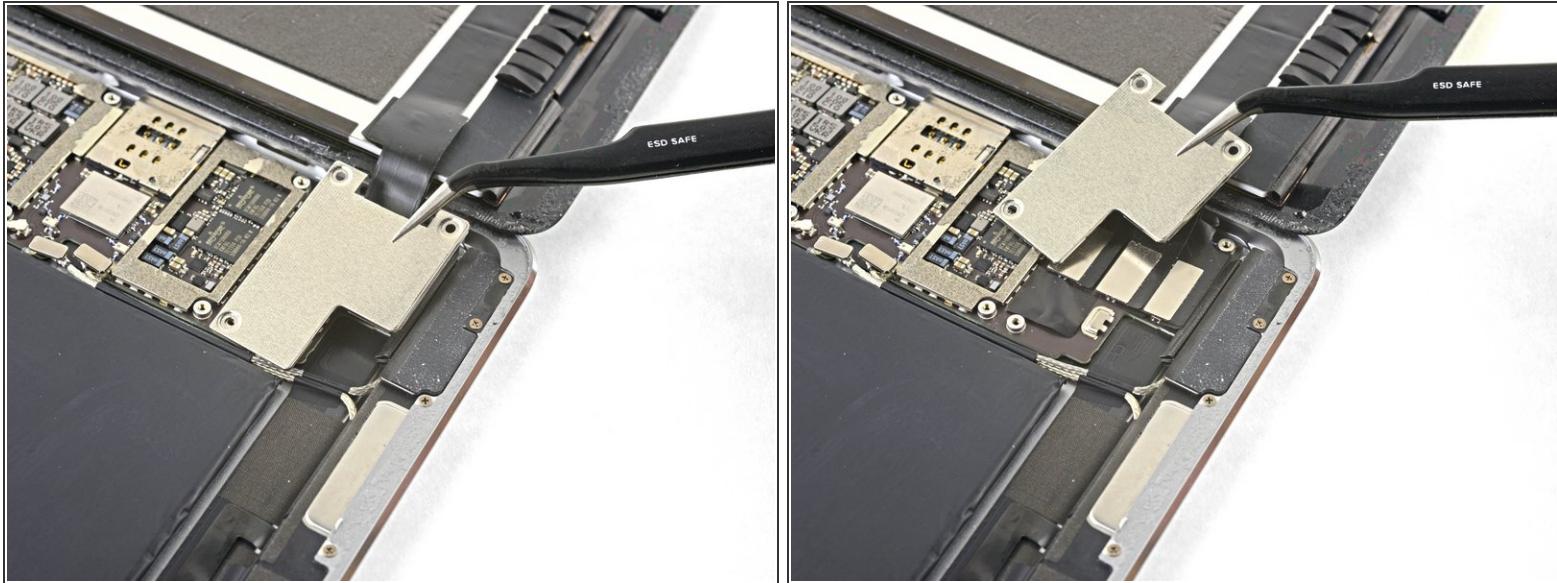
- 💡 If the EMI shield has any sharp protrusions after removal, you should flatten them before reinstalling the shield.
  - Squeeze the sharp protrusion with a pair of pliers to flatten it.
  - Repeat the process for all sharp protrusions along the edges of the EMI shield.

## Step 30 — iPad Pro 9.7" Display Assembly Disconnect



- Remove the three 1.3 mm Phillips #000 screws securing the display cable bracket.

## Step 31



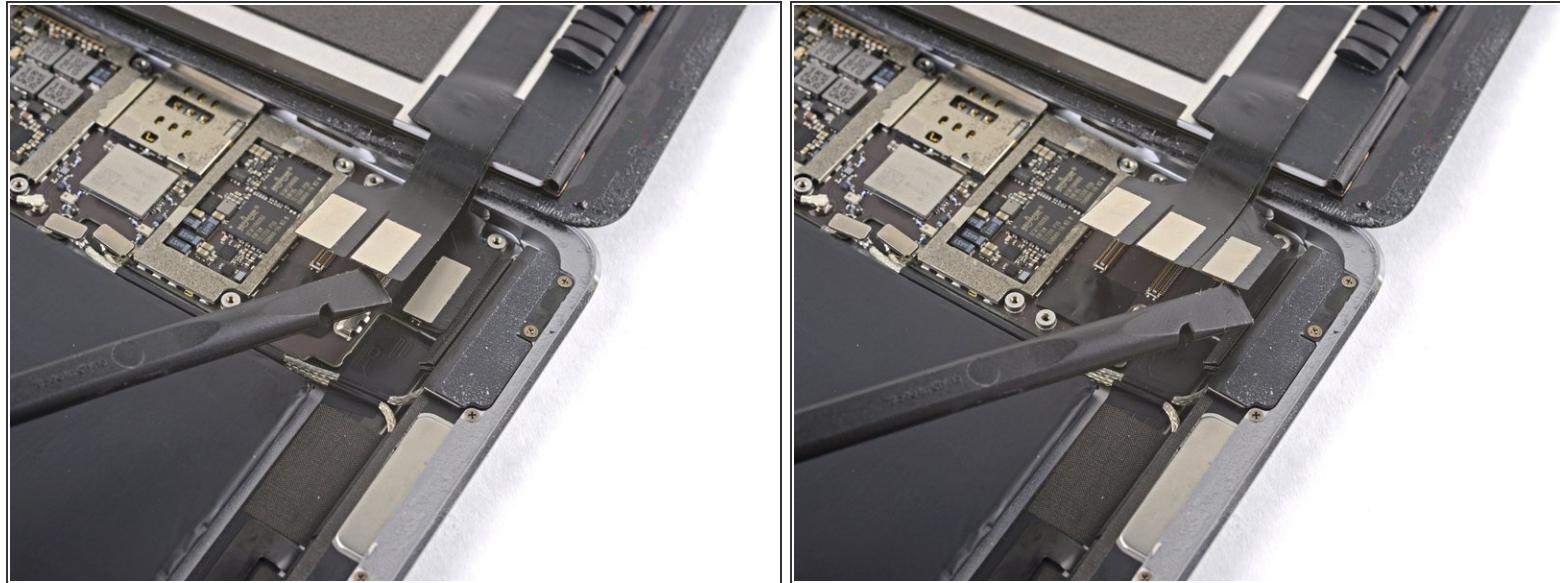
- Remove the display cable bracket.

## Step 32



- Use the flat end of the spudger to disconnect the display assembly connector from the motherboard socket.

## Step 33



- Repeat the previous step for the two remaining connectors.

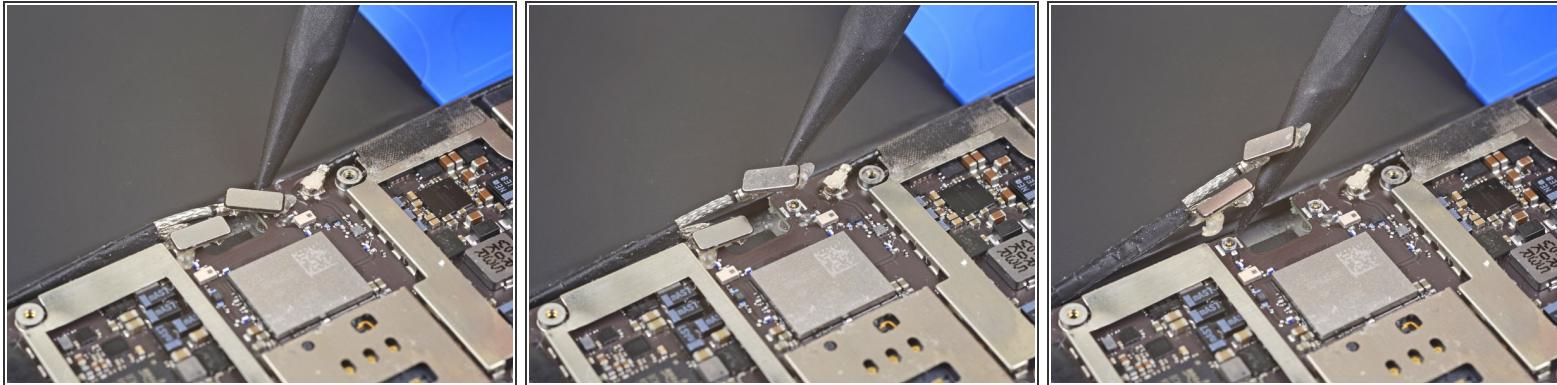
## Step 34



- Remove the display assembly.

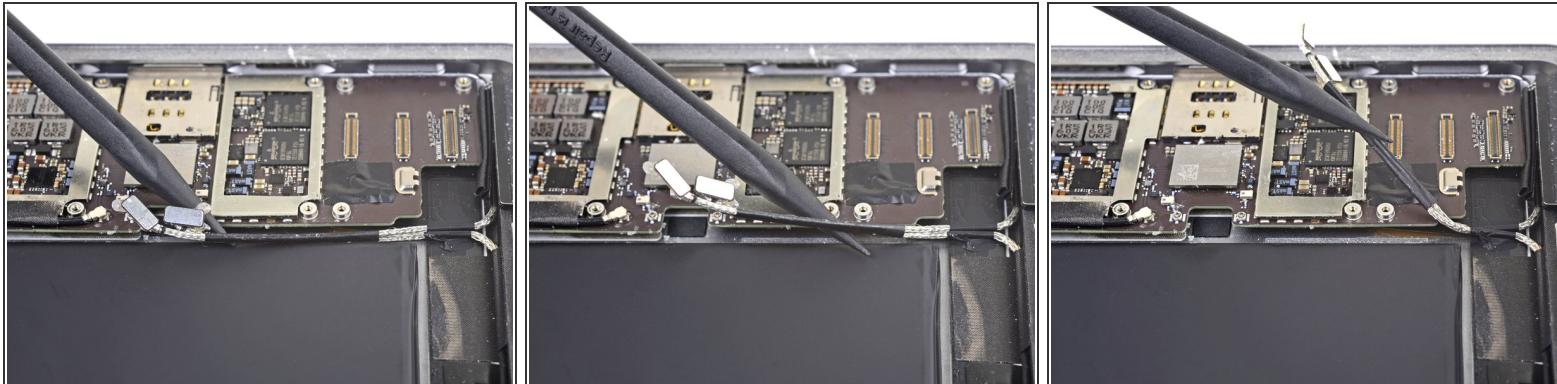
★ If you are reusing the original display assembly, [follow this display adhesive application guide](#) to apply replacement display adhesive during reassembly.

## Step 35 — Battery



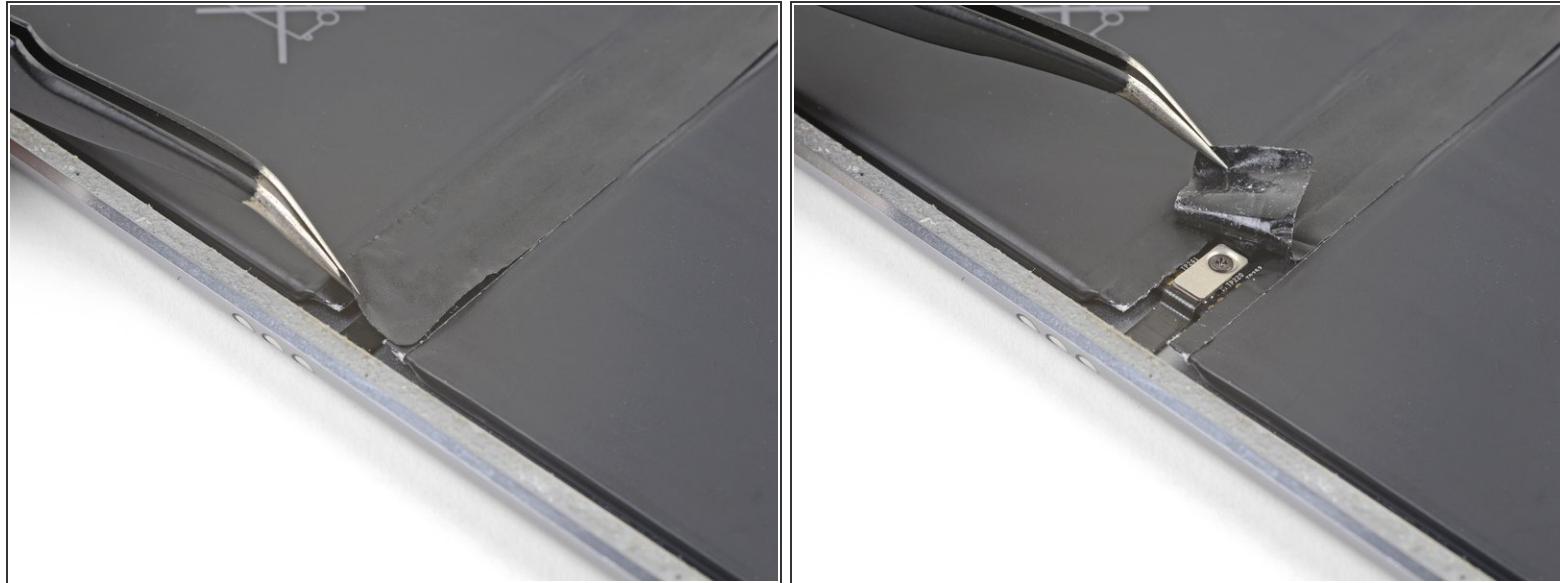
- Use the point of a spudger to pry up and disconnect the two antenna cables which connect the logic board to the lower antennas.

## Step 36



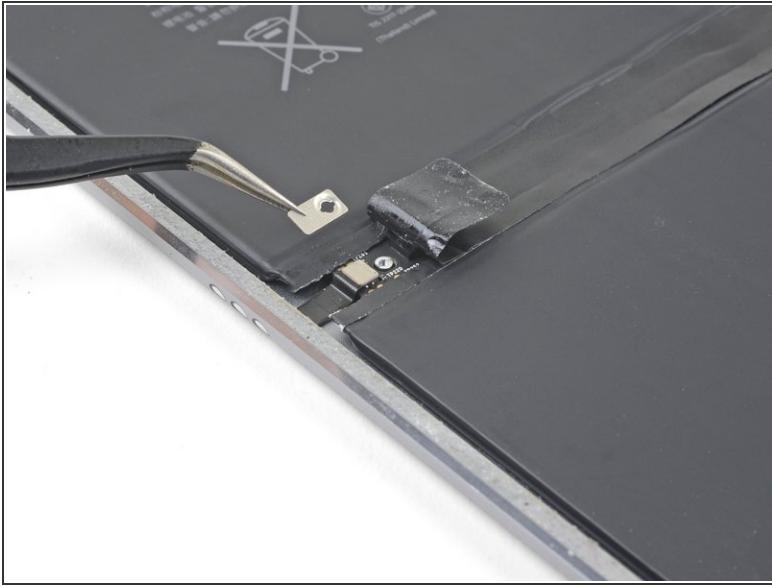
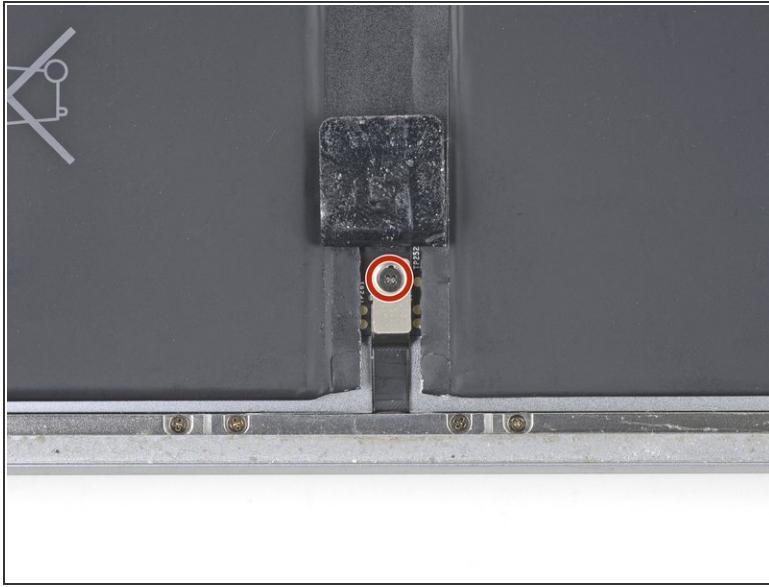
- Use the point of a spudger to pry up and loosen the adhesive holding the two disconnected antenna cables in place.  
 Be careful not to puncture the battery with the spudger.
- Carefully route the cables out from between the battery and the logic board.
- Push the cables away from the battery.

## Step 37



- Use tweezers or a spudger to gently pull up the end of the black tape nearest the Smart Connector. It covers the mid-battery circuit board residing between the two battery cells.
- ① You only need to peel the tape back enough to reveal the connector underneath.

## Step 38



- Remove the 1.7 mm Phillips screw holding the Smart Connector cable cover in place.
- Remove the Smart Connector cable cover.

## Step 39



- Use the point of a spudger to pry up and disconnect the Smart Connector's connector from its socket between the battery cells.
- Push the Smart Connector flex cable up and out of the way.

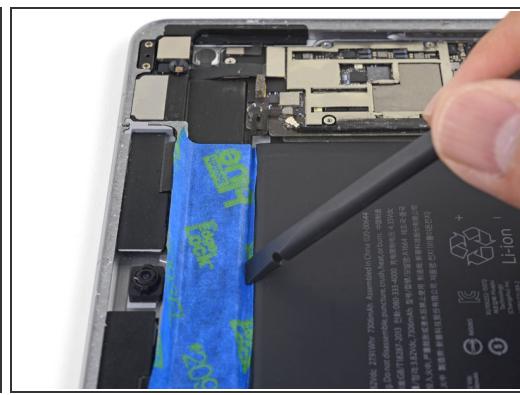
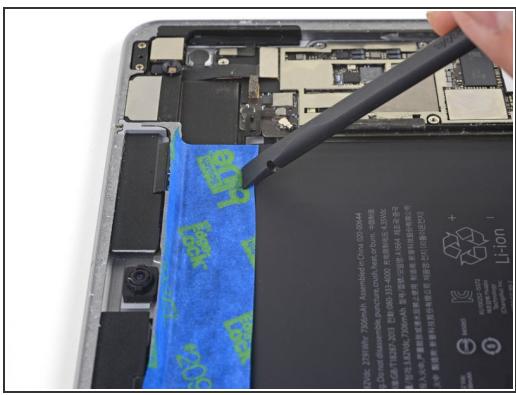
## Step 40



*(i)* The next four steps detail how to mask off the iPad in preparation for the liquid adhesive remover. The tape will help block and absorb excess liquids, keeping major components safe.

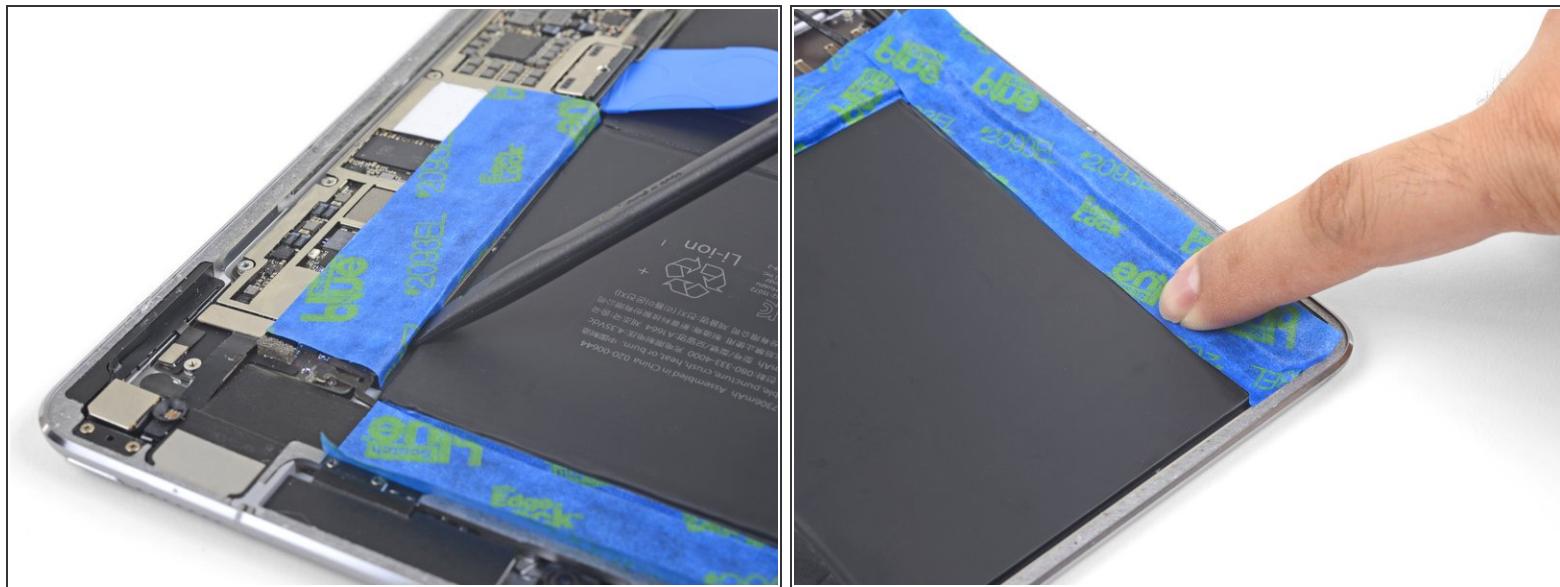
- Apply a piece of masking or painter's tape to the top speaker assembly. The tape should bridge the gap between the battery and the speaker assembly.

## Step 41



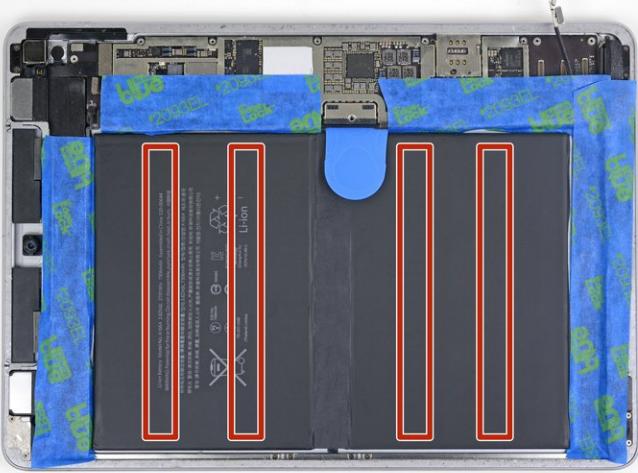
- Use the flat end of a spudger to push the edge of the tape down into the crevice between the battery and the speaker.
- (i)* This creates a tape "wall" which will help prevent any liquid adhesive from pooling behind it.
- Slide the spudger across the entire length of the crevice, pushing tape down to create a boundary.

## Step 42



- Repeat the same procedure on the logic board side and the bottom side of the iPad.
- ⓘ Use two pieces of tape for the logic board side. Leave a gap over the Battery Blocker.

## Step 43



- Once complete, the masking should look like the first image.
- (i)* The adhesive remover may discolor and eventually damage certain plastic components, such as the speaker housings—so check your work and take care not to spill.
- Four strips of strong adhesive hold the battery in place.

## Step 44



- Prepare a work area where the iPad can rest in a tilted position, to allow adhesive remover to trickle down to the adhesive strips.
- *(i)* You can use books, boxes, etc. as long as they will not move.

## Step 45



⚠ iFixit adhesive remover contains acetone, a mild skin and eye irritant.

- Wear eye protection when handling and applying the adhesive remover. (Eye protection is included in your kit.)
- **Do not** wear contact lenses without eye protection.

⚠ Protective gloves are highly recommended beyond this step, as the dissolved adhesive will be very tacky and hard to wash off.

## Step 46



- Pull off the black rubber stopper from your bottle of adhesive remover.

! Twist to loosen or remove the bottle cap before you cut the applicator tip.

i This unseals the bottle and allows the pressure to equalize before you cut the applicator tip. **If you skip this step, the adhesive remover may spray out unexpectedly when the tip is cut.**

- Use scissors to cut off the sealed tip of the applicator.

i Cutting close to the narrow tip will give you better control so you can apply the adhesive remover in small amounts.

! Twist and close the bottle cap securely before you proceed further.

## Step 47



- Carefully insert a plastic card under the bottom right corner of the battery.
- Slowly slide the plastic card across the bottom edge of the battery to make a gap for the liquid adhesive remover.
- *(i)* At this point, you do not need to push the card very deep under the battery. 0.5 inches (13 mm) is more than sufficient.

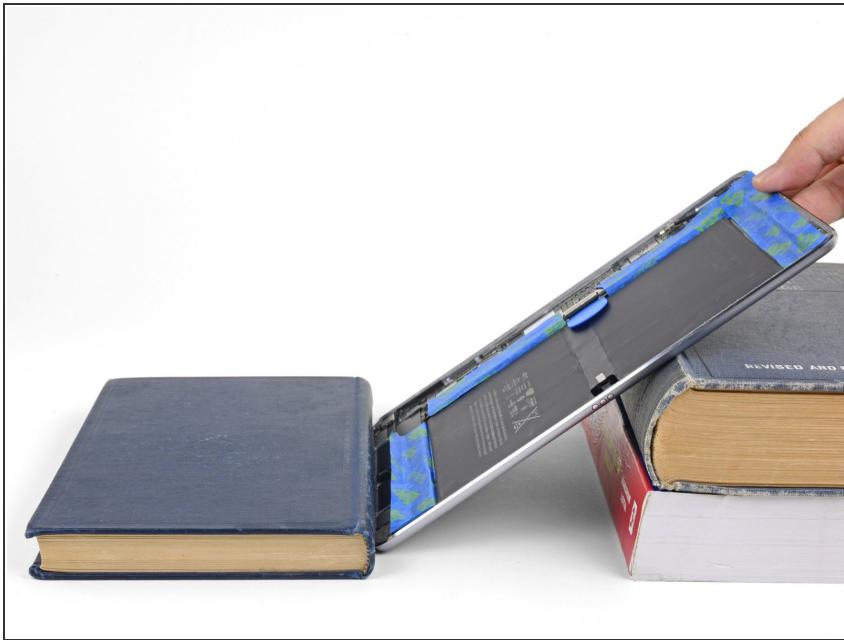
**⚠** While some bending of the battery pack will be inevitable, try not to form any sharp creases, which will compromise the battery structure and potentially trigger a fire hazard.

## Step 48



- Tilt the bottom of the iPad up.
- Apply a few drops of adhesive remover evenly along the elevated edge of the battery.
- *(i)* A little bit goes a long way, so start with a very small amount. You can always add more later if needed. Applying the solvent in small amounts helps prevent unwanted leaks.

## Step 49



- Rest the iPad in a slanted position, bottom edge up, and wait 2-3 minutes to allow the adhesive remover to penetrate and soften the first adhesive strip.

## Step 50



- Slide a plastic card into the bottom edge of the battery.
- Push slowly and firmly. Gently wiggle and twist the card to help it slice through the adhesive.

***(i)*** If you are struggling, tilt the iPad, apply a few more drops of adhesive remover and wait a minute before trying again.

***(i)*** As you are slicing, the Battery Blocker may fall out of position. If that happens, reposition the Battery Blocker before continuing with your work.

## Step 51



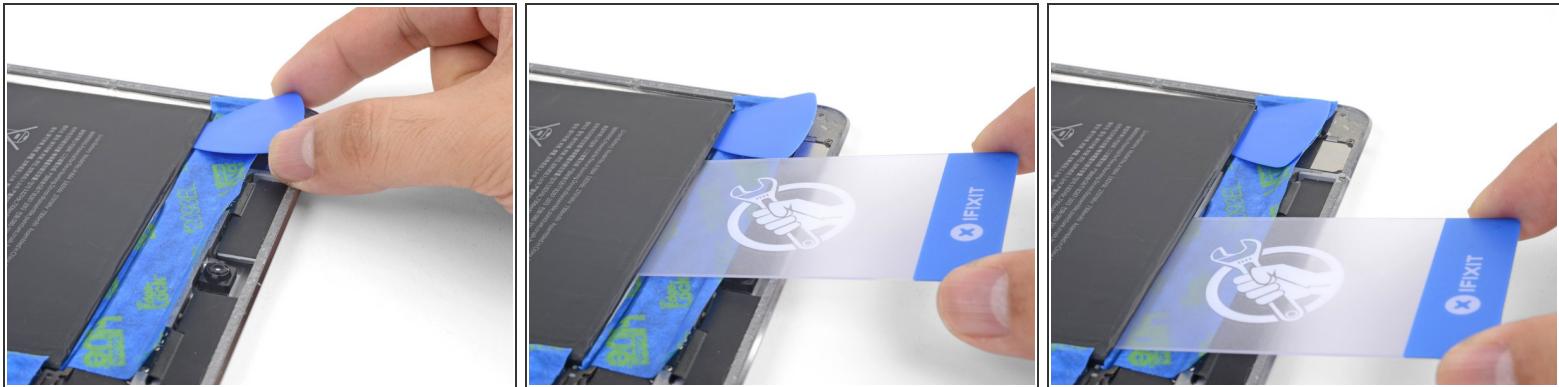
- You can also approach the adhesive strip with the plastic card from battery's other bottom corner.
- Continue slicing until you have separated the battery from the first adhesive strip.

## Step 52



- Tilt the bottom of the iPad up.
- Reapply adhesive remover into the gap for the second adhesive strip, located deeper underneath the bottom battery cell.
- Repeat the application, waiting, and slicing process until the second adhesive strip is separated from the battery.

## Step 53



- Slide an opening pick under the **top edge** of the battery, creating a gap large enough for a plastic card.
- Insert a plastic card under the top edge and slide it across the entire length, creating a gap for the adhesive remover.

## Step 54



- Apply adhesive remover into the gap to help weaken the third adhesive strip.

## Step 55



- Rest the iPad in a slanted position, top edge up, for 2-3 minutes to allow the adhesive remover to weaken the third strip.

## Step 56



- Use a plastic card to slice through the third adhesive strip.

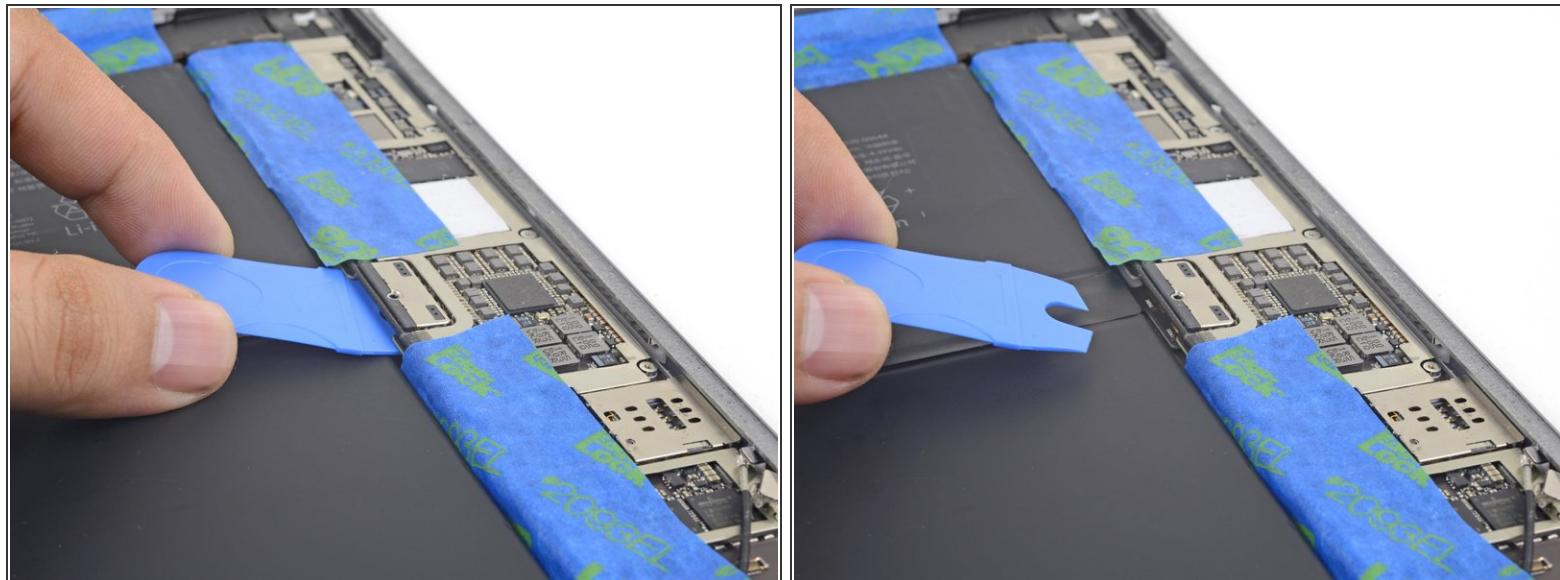
*(i)* If you are struggling, tilt the iPad, apply a few more drops of adhesive remover and wait a minute before trying again.

## Step 57



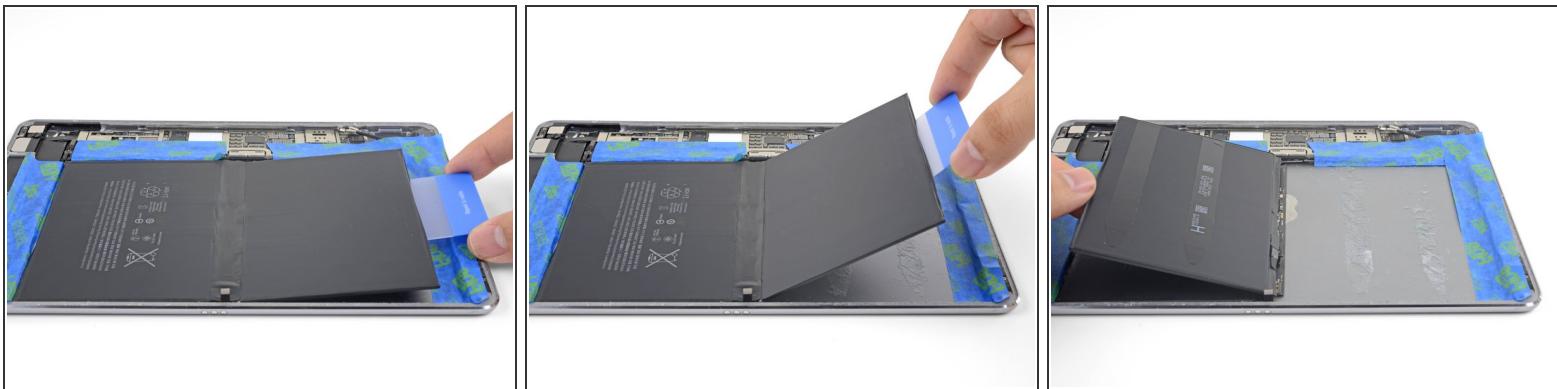
- Repeat the application, waiting, and slicing process to release the last adhesive strip located deeper underneath the top battery cell.

## Step 58



- Slide the Battery Blocker out of its position and remove it.

## Step 59



- Use the plastic card or your fingers to flip the bottom half of the battery over so that it rests on top of the upper half.

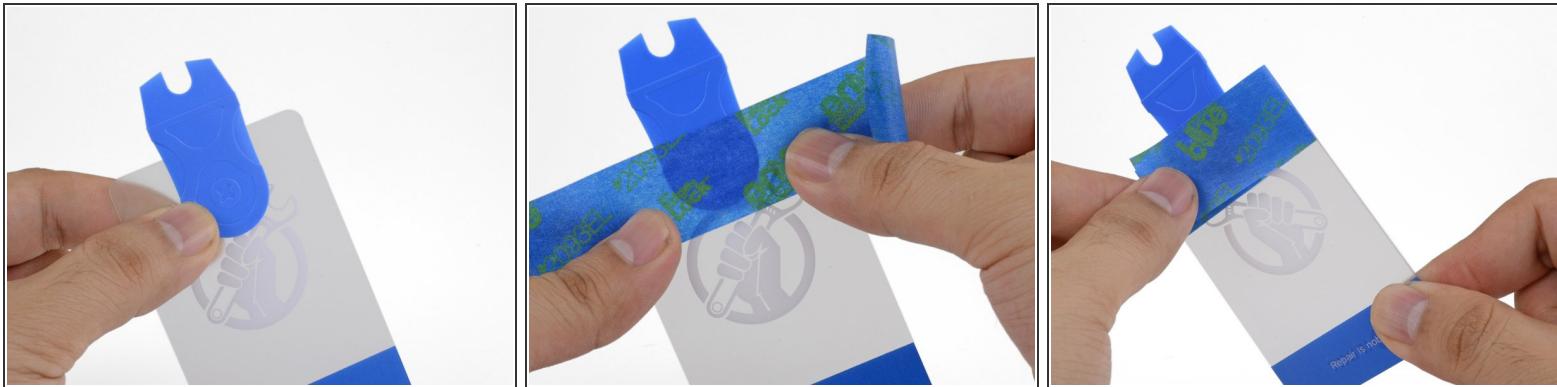
## Step 60



ⓘ The end of the mid-battery circuit board closer to the Smart Connector is held down with adhesive.

- Slide an opening pick underneath the mid-battery circuit board, near the Smart Connector.
- Carefully slice underneath the board around the post to release the board from the rear case.

## Step 61



ⓘ Use this step to create an optional extended Battery Blocker to help remove the battery from the case.

- Place the Battery Blocker on top of the plastic card such that the top half of the Battery Blocker extends past the top of the card.
- Wrap tape around the plastic card so that the Battery Blocker is held in place.

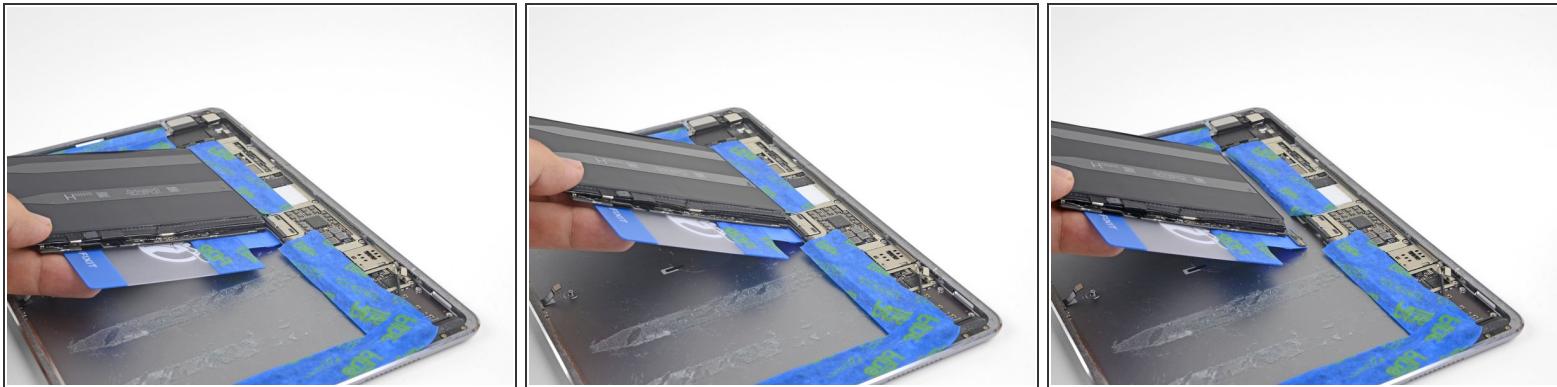
## Step 62



- Slide the extended Battery Blocker under the battery where it contacts the logic board.

ⓘ When positioned correctly, the Battery Blocker's prongs should rest under both the logic board and the battery contacts. They should also surround a screw post.

## Step 63



- ⓘ The goal is to lift the battery contacts high enough such that they clear the screw post underneath the logic board.
- Slowly lever the extended Battery Blocker upwards, pushing the battery contacts and the logic board up.
  - ⓘ The logic board is held to the rear case with strong adhesive. Try to lift just enough to loosen the adhesive surrounding the connector.
  - ⚠ Do not lift the logic board up to the point where the top and bottom edge of the logic board separates from the case.
- Once the extended Battery Blocker has lifted the battery contacts high enough to clear the screw post, pull the battery out of its position.
- Remove the battery and the Battery Blocker.

## Step 64



 The next four steps detail how to install a new battery. **Never reinstall a used battery.**

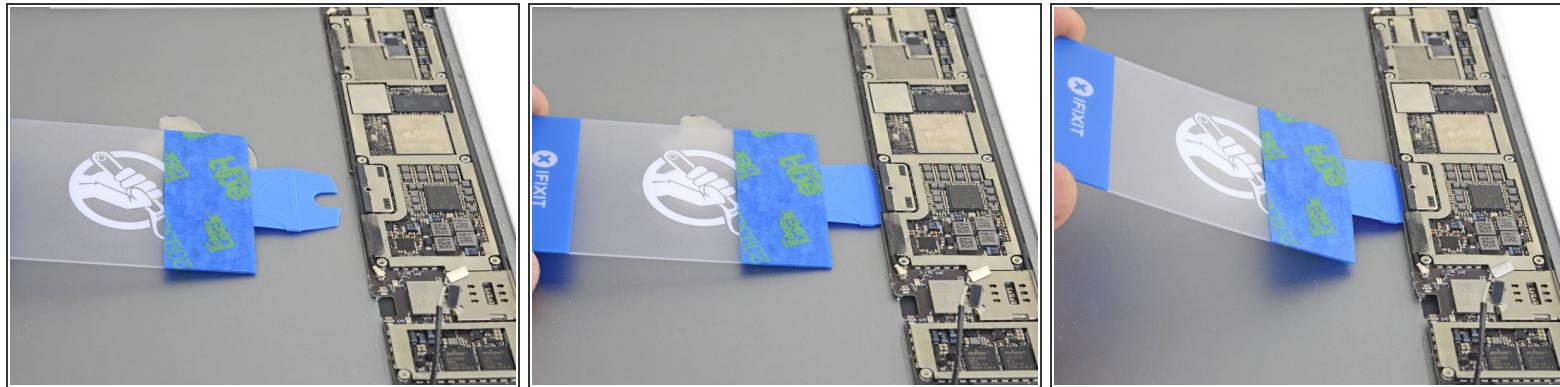
- Thoroughly clean the back case of all adhesive residue.
- Apply adhesive remover or high concentration (over 90%) isopropyl alcohol to the residue.
- Use an opening tool to scrape and loosen the residue.
- Be sure to wipe the residue away in one direction to prevent smearing.

 It is easier to wipe off the residue when it is sufficiently soaked. Once it starts drying up, the residue becomes incredibly tacky.

 If you used adhesive remover, be sure to wipe the surface down with isopropyl alcohol to remove any adhesive remover residue.

- You can remove the masking tape as well as any protective gear once you are done cleaning.

## Step 65



- Slowly insert the extended Battery Blocker under the logic board.  
⚠ If you feel any resistance, the Battery Blocker may have caught on one of the contact springs.  
**Do not push any further.** Remove the Battery Blocker, lift the board up slightly, and try again.
- Lever the tool so that the the Battery Blocker's prongs barely push the logic board above the screw post.

## Step 66

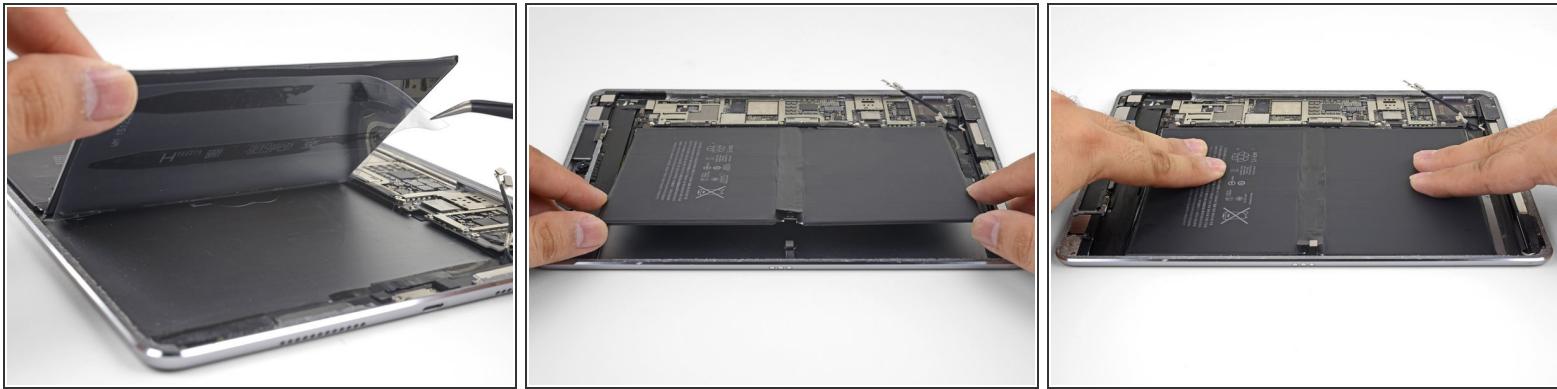


- Lay the replacement battery pack on top of the extended Battery Blocker.
- Allow the battery pack to slide in place underneath the logic board as the battery's contacts clear the screw post.

**⚠** If the battery pack's contacts do not slide into place, the contacts may be caught on the logic board's spring contacts. Slide the battery back out, lift one side of the logic board slightly higher, and try again.

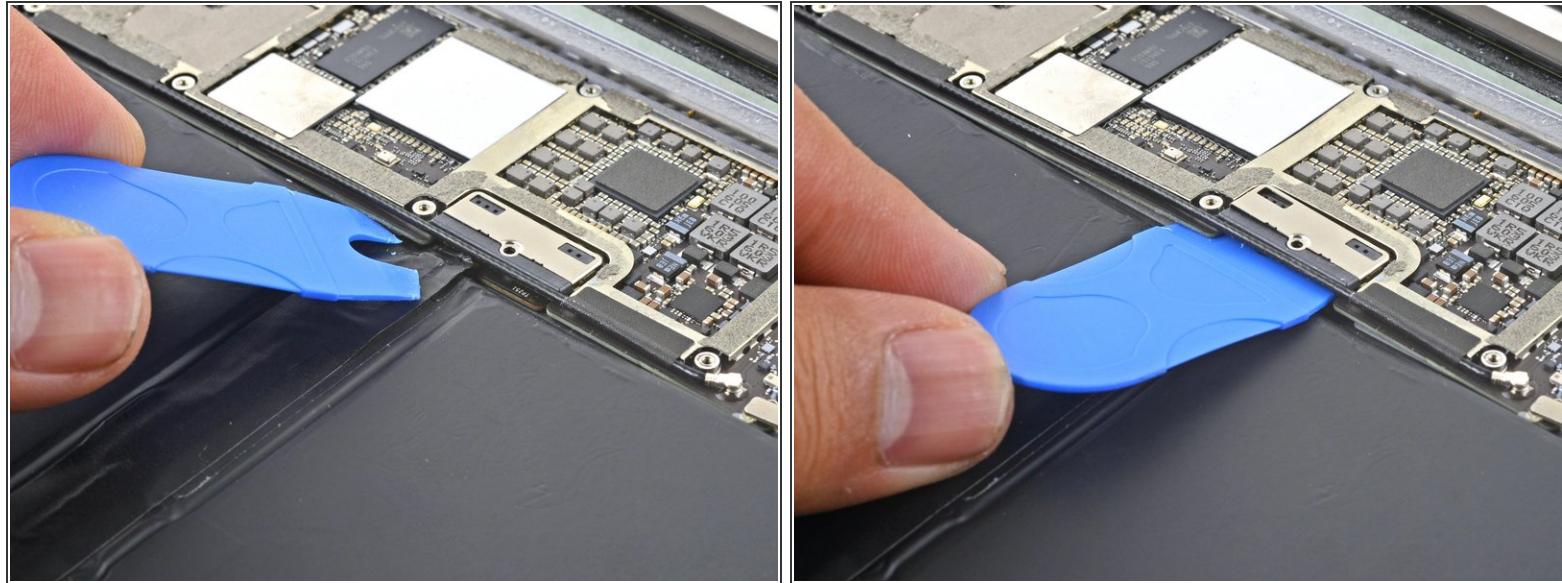
- Remove the Battery Blocker.

## Step 67



- Lift the bottom edge of the battery up slightly.  
*(i)* Do not hinge the battery beyond 45 degrees, or you risk damaging the inter-cell connectors.
- Use tweezers or your fingers to peel the single clear plastic covering off of the entire bottom side of the battery.  
*(i)* At this point, the battery's four adhesive strips are exposed. Be careful handling the battery and try not to touch the strips.
- Align the battery such that it falls in place with the [screw post](#) near the Smart Connector.  
*(i)* Be sure not to trap the Smart Connector cable underneath the battery.
- Gently lay the battery down into its recess.
- Press the battery firmly into place.

## Step 68



- Separate the Battery Blocker from the plastic card if it is still taped together.
- Reinsert the Battery Blocker between the logic board and the battery contacts.
- Resume reassembly.

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

Take your e-waste to an [R2 or e-Stewards certified recycler](#).

Repair didn't go as planned? Check out our [iPad Pro 9.7" Answers Community](#) for troubleshooting help.