



# Motorola Moto G5 Plus Battery Replacement

Remove or replace a broken or worn battery in a Motorola Moto G5 Plus.

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## INTRODUCTION

Use this guide to replace the lithium-ion battery in your Motorola Moto G5 Plus. With daily use, a typical battery will last around 18-24 months before losing significant capacity. If your battery no longer holds a full charge or is causing unexpected shutdowns, you can follow the instructions below to restore your phone to good working order.

**Before disassembling your phone, discharge the battery below 25%.** A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.

**If your battery is swollen, do not heat your phone [and take appropriate precautions](#).** If needed, you can use a dropper or syringe to inject isopropyl alcohol (90+%) around the edges of the display to weaken the adhesive. Swollen batteries can be very dangerous, so wear eye protection and exercise due caution, or take it to a professional if you're not sure how to proceed.



### TOOLS:

- [Phillips #00 Screwdriver](#) (1)
- [Tweezers](#) (1)
- [iFixit Opening Picks set of 6](#) (1)
- [Spudger](#) (1)
- [SIM Card Eject Tool](#) (1)
- [iOpener](#) (1)
- [Suction Handle](#) (1)




### PARTS:

- [Motorola Moto G5 Plus replacement battery](#) (1)
- [Tesa 61395 Tape](#) (1)
- [Motorola Moto G5 Plus Display Adhesive](#) (1)

## Step 1 — Display Assembly




 Be sure to power off your phone before you begin.


- Use a SIM eject bit, SIM eject tool, or paper clip to remove the SIM card from your phone.

## Step 2

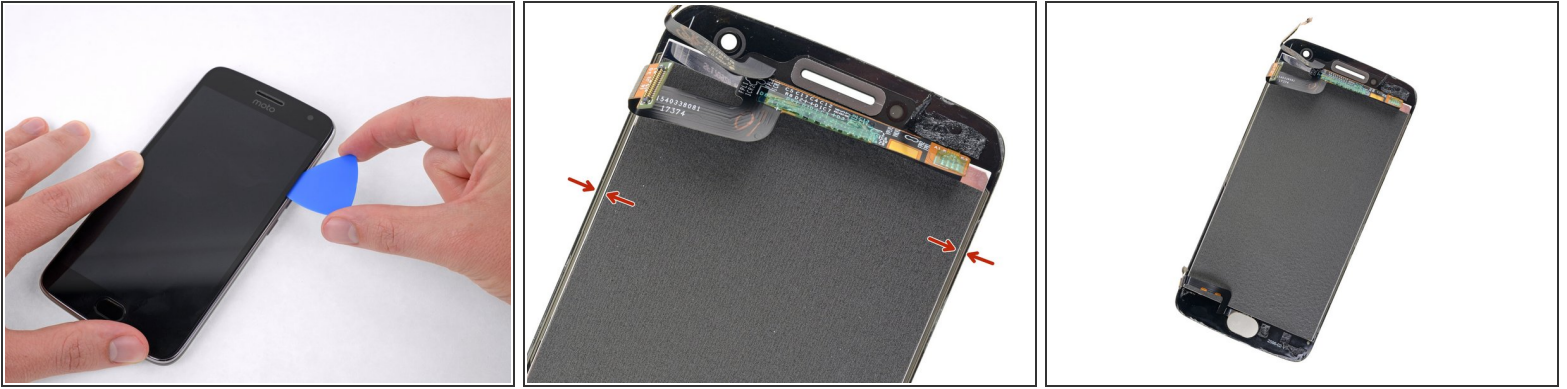


- [Prepare an iOpener](#) and heat the front of the phone along its left edge for about two minutes, or until it's slightly too hot to touch. This will help soften the adhesive securing the display.

 You may need to reheat and reapply the iOpener several times to get the phone warm enough to cut the adhesive. Follow the iOpener instructions to avoid overheating.

 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 both susceptible to heat damage.

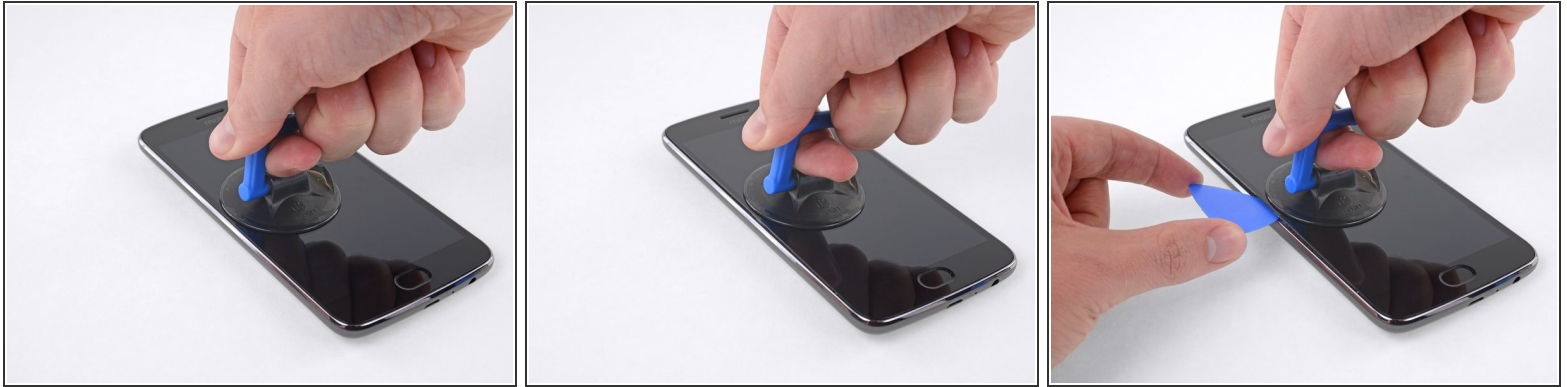
## Step 3



- i** In the following steps you will be cutting through the adhesive around the edge of the display assembly.
- Refer to the second and third images and familiarize yourself with the width of the adhesive around edges of the display.
- !** If you plan to re-use the display assembly, be particularly careful as you cut the adhesive on the sides of the phone. Don't insert your tool more than 2 mm into the phone, and angle it down (away from the display assembly) as much as possible.



## Step 4



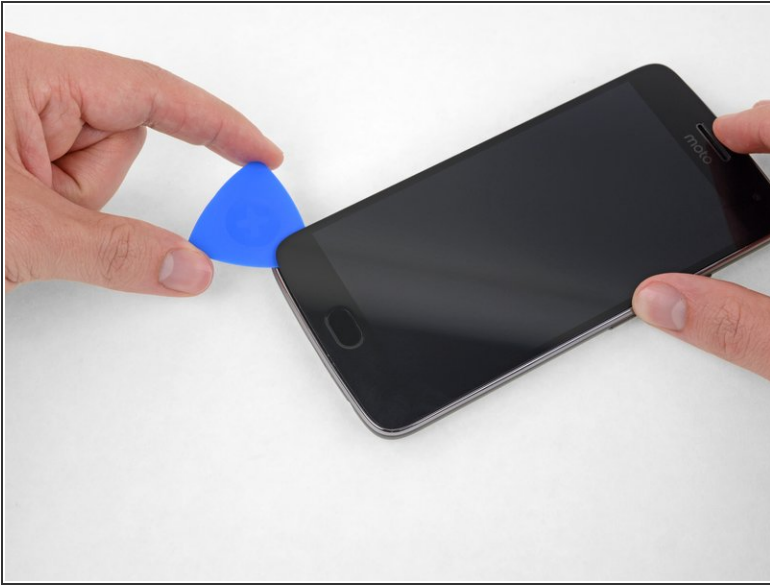
- Apply a suction cup to the display, near the middle of the left edge.
- Pull the suction cup with firm, constant pressure to create a slight gap between the display panel and the rear case.
- ⓘ If the screen is cracked, the suction cup may not stick. In that case, try lifting with [strong tape](#), or superglue the suction cup in place and allow it to cure so you can proceed.
- If the display doesn't separate even with significant force, apply more heat to further soften the adhesive and try again. The adhesive cools quickly, so you may need to heat it repeatedly.

## Step 5



- Slide the tool along the left edge of the phone, cutting through the adhesive securing the display.
- ⓘ As you move on to cutting the adhesive around the rest of the display, it may help to leave an opening pick in place here and grab another for the following steps.

## Step 6



- Slide the opening pick down and cut the adhesive around the bottom of the display.
- ⓘ If the adhesive is too tough to cut, continue to heat it until it softens enough to cut fairly easily. Excessive prying or force used here could permanently damage the display or other components.
- ⚠ Be careful as you slide your pick around the top and bottom edges of the display. The display cables, fingerprint sensor, and fingerprint sensor cable are all housed fairly close to the edge of the display and can easily be damaged. Refer to [this image](#) to see the exact location of the cables.

## Step 7



- Continue cutting through the adhesive on the top and right sides of the phone.
- ⓘ The proximity sensor, earpiece speaker, and front-facing camera are all located along the top edge of the phone, but are housed beneath the display unit. You shouldn't come into contact with any of them as you insert your pick to cut the adhesive.

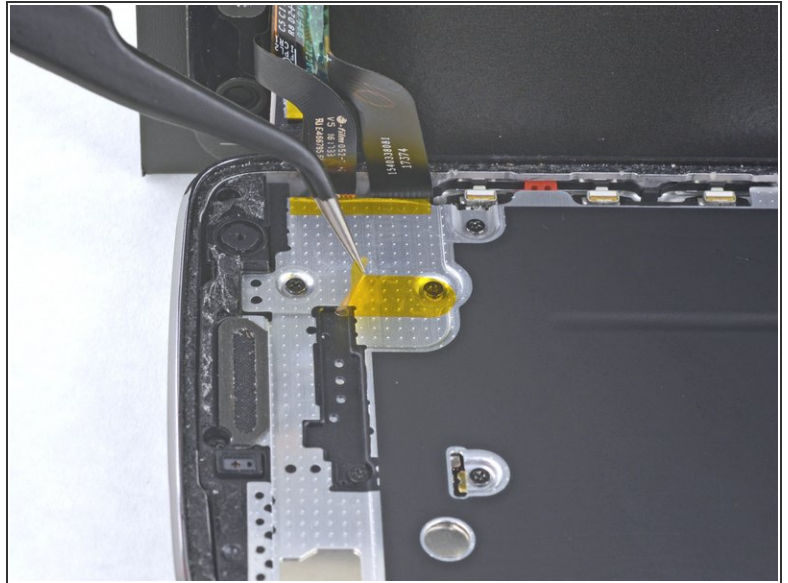
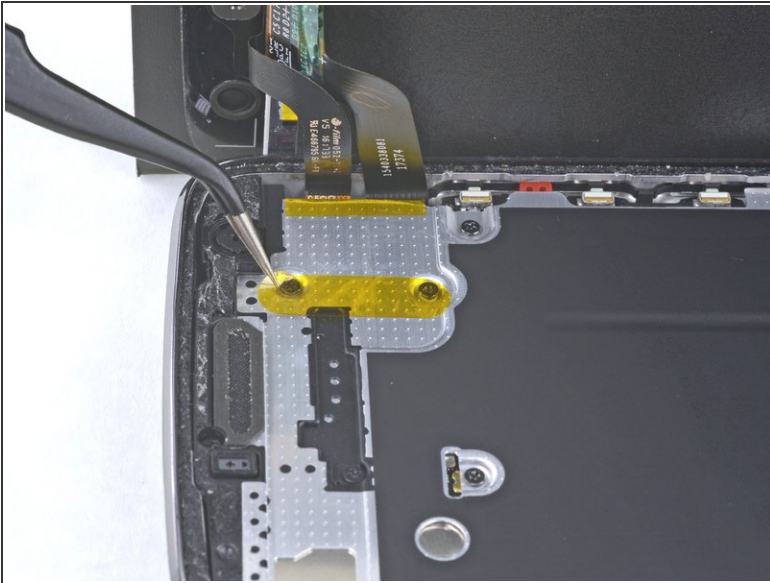
## Step 8



- Once all the adhesive is cut, carefully lift open the display from the left edge.
- ⚠ Don't fully remove the display yet. There are still cables connecting the display assembly that can rip easily.
- Prop the display unit at a 90 degree angle against a box to prevent the display and fingerprint cables from bending or tearing.

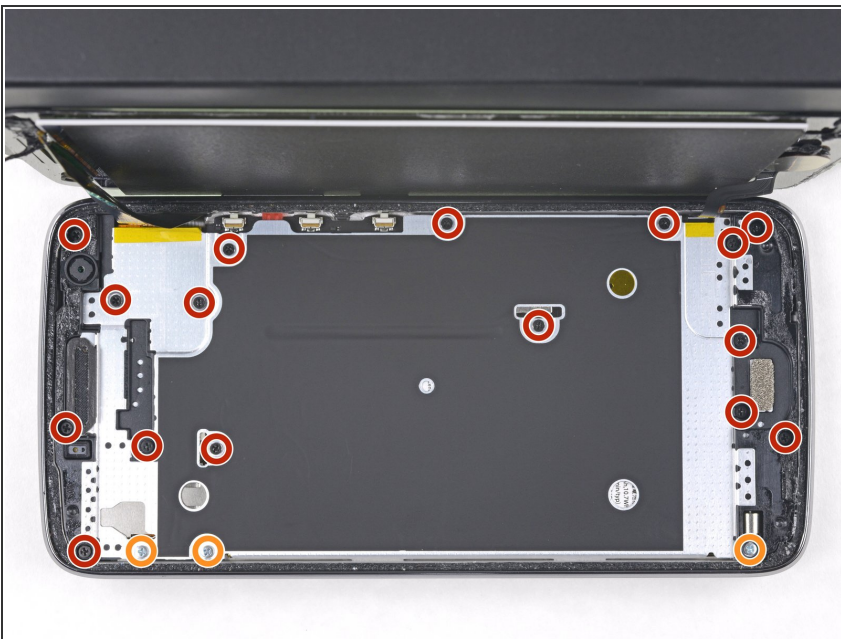


## Step 9



- Remove the yellow sticker covering two of the black Phillips screws below the earpiece.

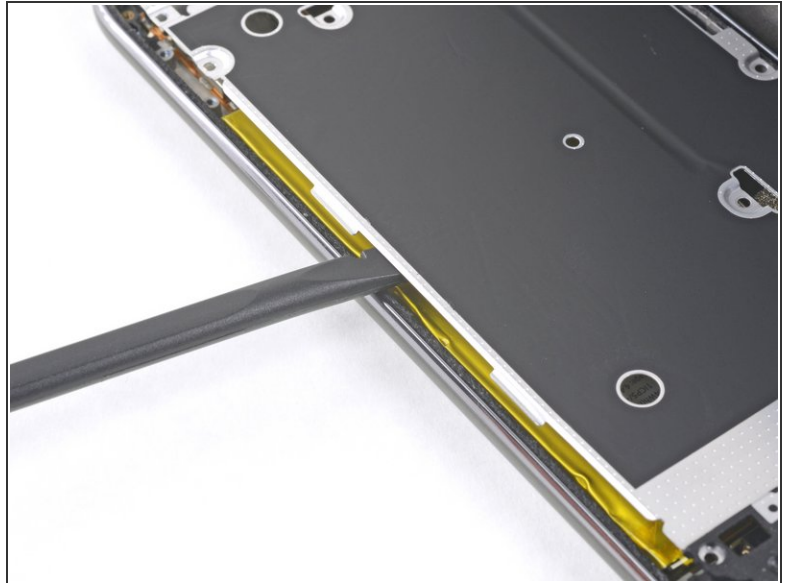
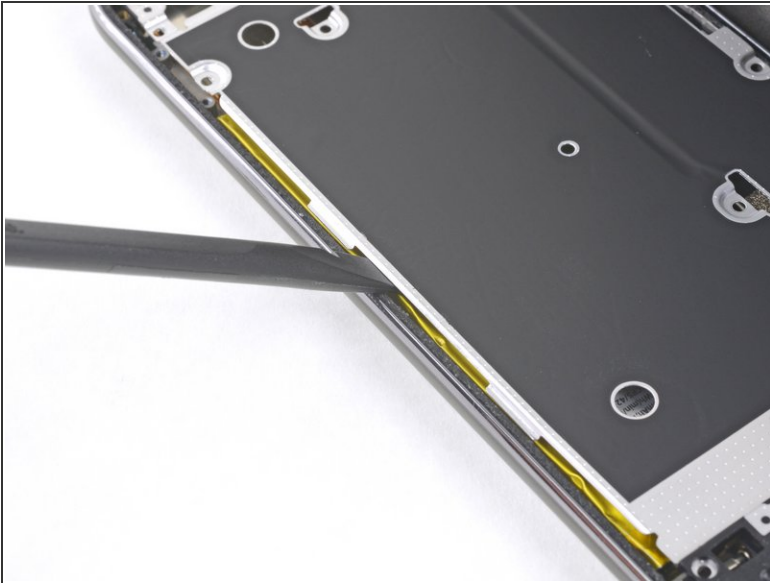
## Step 10



- Remove the following Phillips screws from the midframe:
  - Sixteen 3.8 mm black screws
  - Three 2.4 mm silver screws



## Step 11



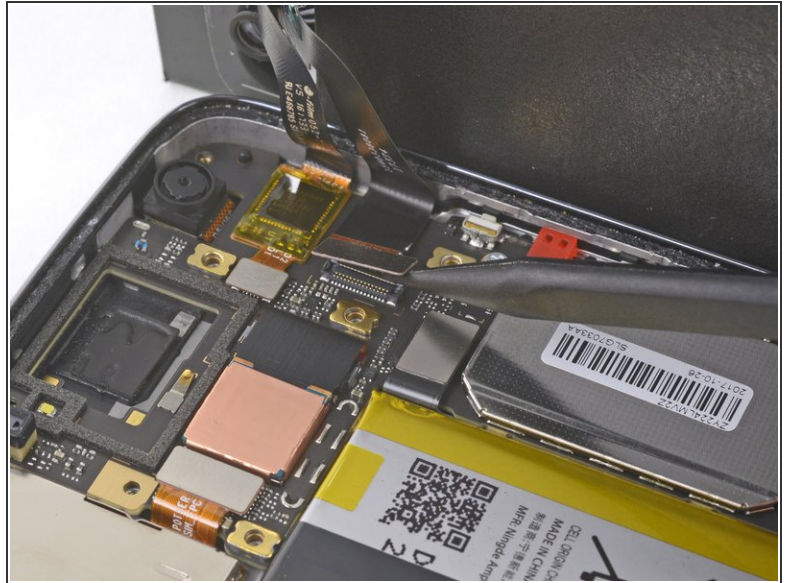
- Insert the flat end of a spudger between the midframe and the left edge of the phone and carefully pry to release the two clips holding the midframe in place.

## Step 12



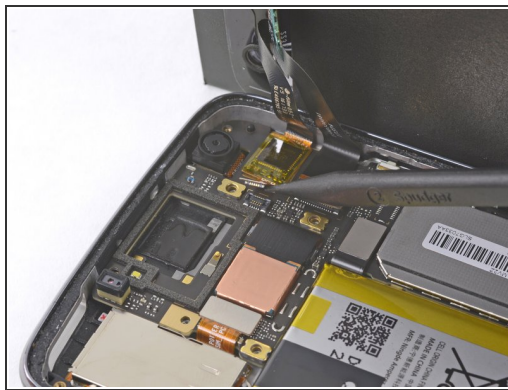
- Lift the midframe up and away from the phone.

## Step 13



- Use the point of a spudger to disconnect the larger of the two display cable connectors.

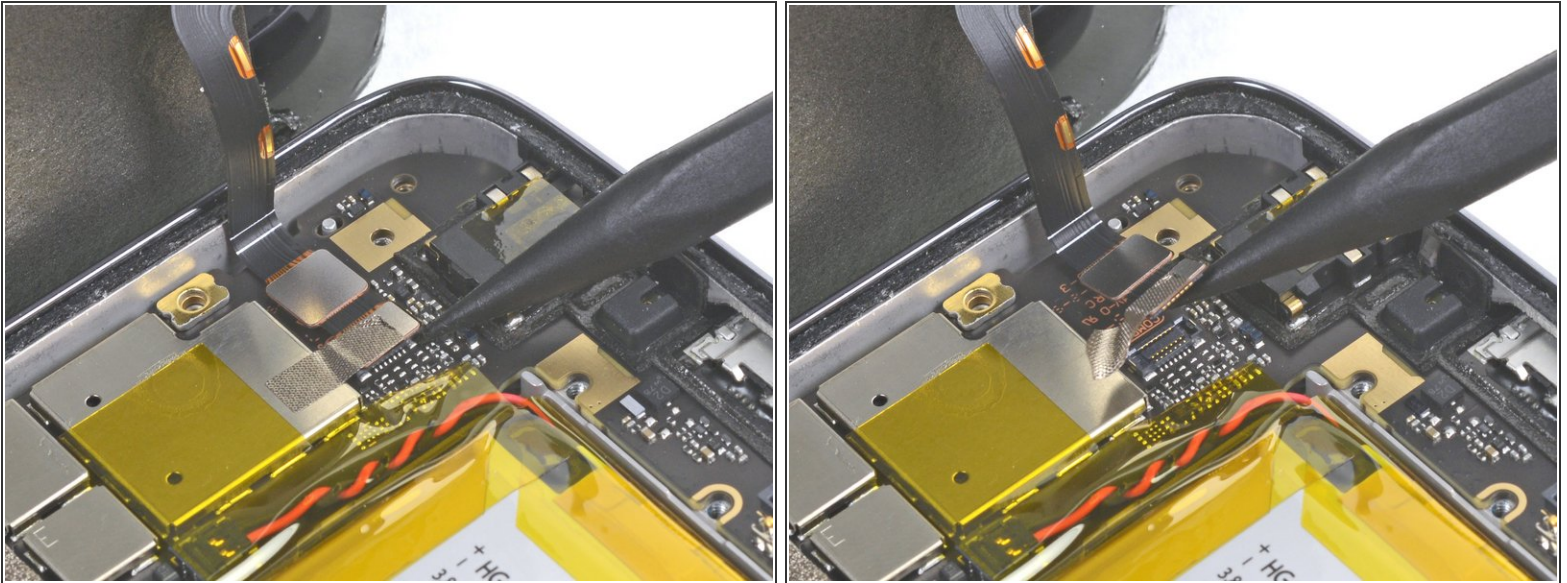
## Step 14



- Disconnect the smaller display cable connector.
- ⓘ This cable houses a display controller chip encased in yellow tape. You do not need to remove the yellow tape. The chip is lightly adhered to the motherboard, but should come up with minimal effort.
- Gently continue lifting the cable to break the adhesive seal and pull the cable away from the motherboard.



## Step 15



- At the opposite end of the phone, disconnect the fingerprint sensor cable.
- ⓘ The fingerprint sensor cable is taped to a shield above it. As you lift the cable, lift the tape up with it. You can also remove the tape before disconnecting the cable.

## Step 16



- Remove the display assembly from the phone.
- ✦ Before you reinstall the display assembly, thoroughly remove any remaining adhesive and glass from the frame of the device with isopropyl alcohol.
- ✦ Be sure to turn on your phone and test your repair before installing new adhesive and sealing the display assembly.
- ❗ If your replacement display doesn't have touch functionality and you're sure that it has been installed correctly, back up your data and [perform a factory reset](#).

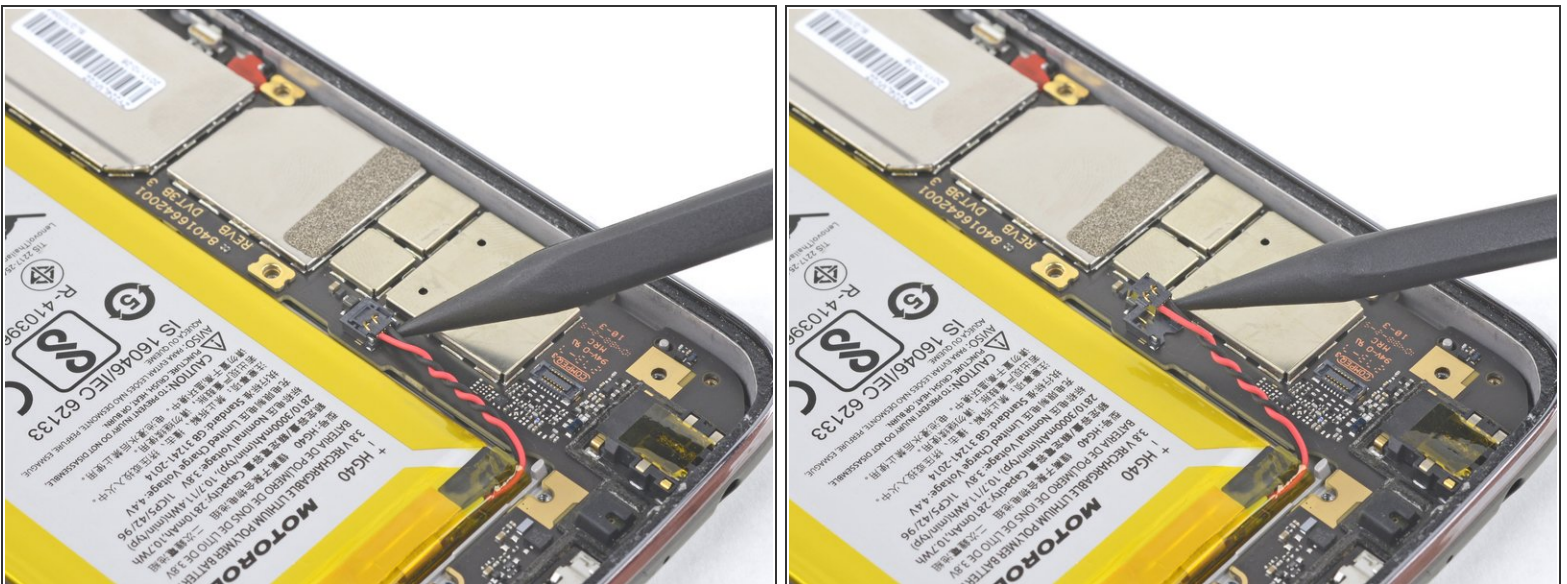


## Step 17 — Battery



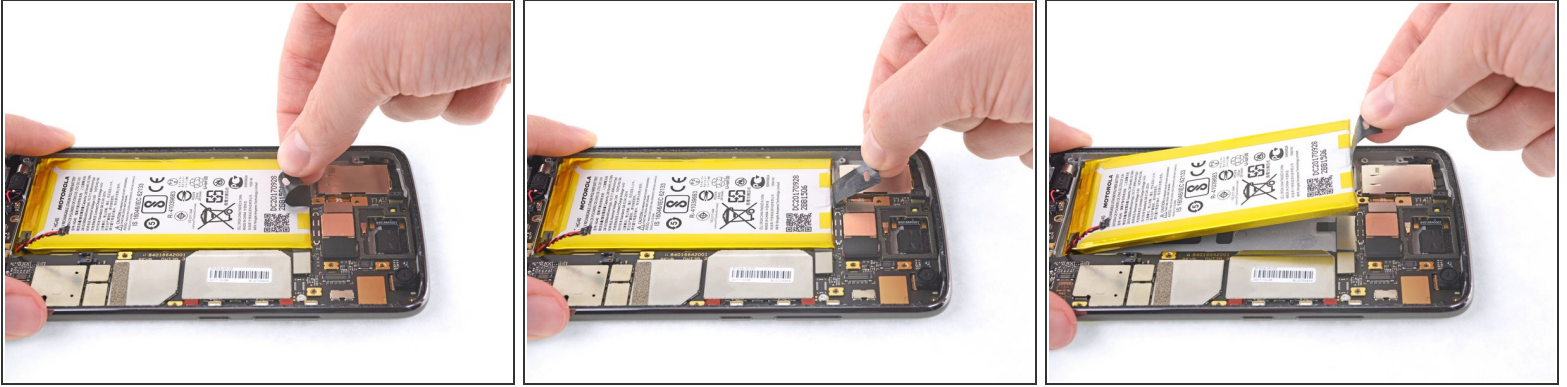
- Remove the yellow tape covering the battery connector.

## Step 18



- Use the point of a spudger to disconnect the battery by prying its connector straight up from the motherboard.

## Step 19



- Peel back the black pull tab from the top of the battery and pull straight up with firm, steady pressure to break the adhesive holding the battery in place.

**i** The battery is held in place by multiple strips of adhesive. You may be able to break the adhesive using the pull tab, but if not, apply an iOpener to the back of the device to soften the adhesive and proceed to the next step.

## Step 20

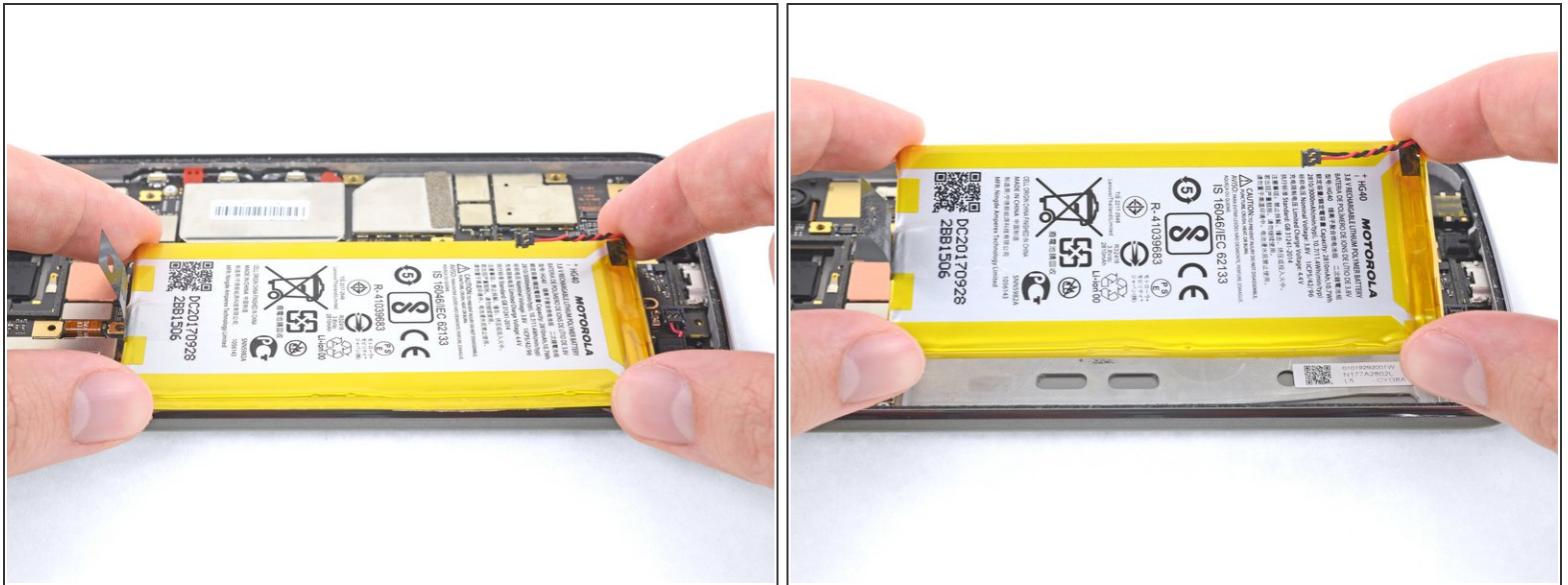


- If your pull tab breaks or the adhesive is too strong to break, use an opening pick to gently pry the battery out of the case.


⚠ Only pry from the edge of the device. Prying from any other side can cause severe damage to exposed components.





## Step 21



- Once the battery is loose, remove it from the phone.

 Do not reuse the battery after it has been removed. The stress of removal can cause hidden damage to the battery cell, creating a potential safety hazard. Replace it with a new battery.

 To install a new battery:

- Remove any remaining adhesive from the phone, and clean the entire area under the battery with isopropyl alcohol.
- Apply a few new strips of [pre-cut adhesive](#) or [Tesa tape](#).
-  If you are attaching the battery with a custom-cut adhesive, [follow this guide](#).
- Press the new battery firmly into place for 5-10 seconds.

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

After completing this guide, [calibrate your newly-installed battery](#).

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.