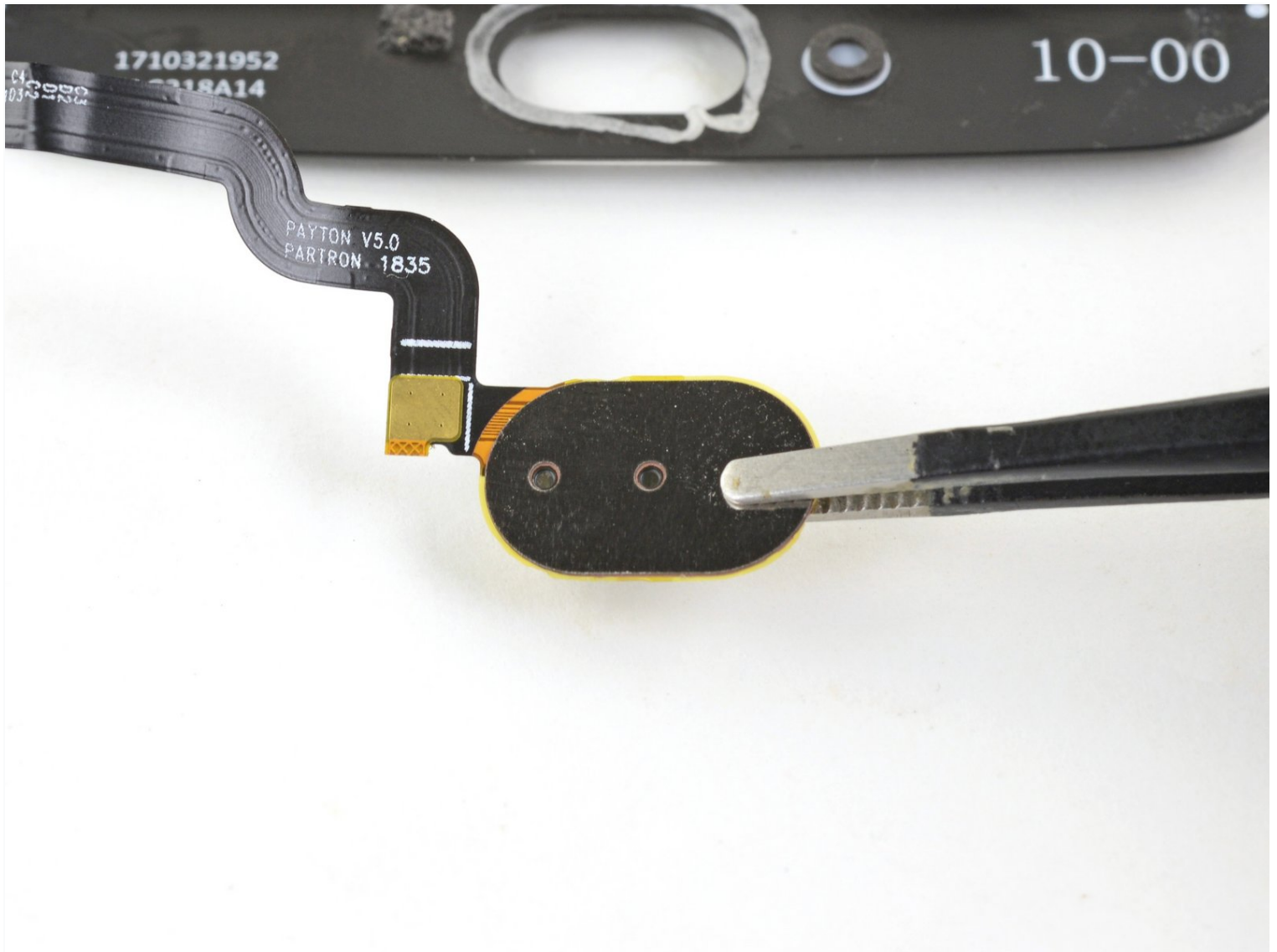




# Motorola Moto X4 Fingerprint Sensor Replacement

Follow this guide to remove and replace the...

Written By: Arthur Shi



# INTRODUCTION

Follow this guide to remove and replace the fingerprint sensor on the Moto X4.

Before you begin, download the [Rescue and Smart Assistant](#) app to backup your device and diagnose whether your problem is software or hardware related.

The guide instructs you to fully detach the screen before removing the fingerprint sensor. You can choose to keep the screen attached while removing the fingerprint sensor, but you risk straining and damaging the display cable in the process.



## TOOLS:

[Suction Handle](#) (1)  
[iFixit Opening Picks \(Set of 6\)](#) (1)  
[Spudger](#) (1)  
[iOpener](#) (1)  
[Tweezers](#) (1)  
[iFixit Opening Tool](#) (1)



## PARTS:

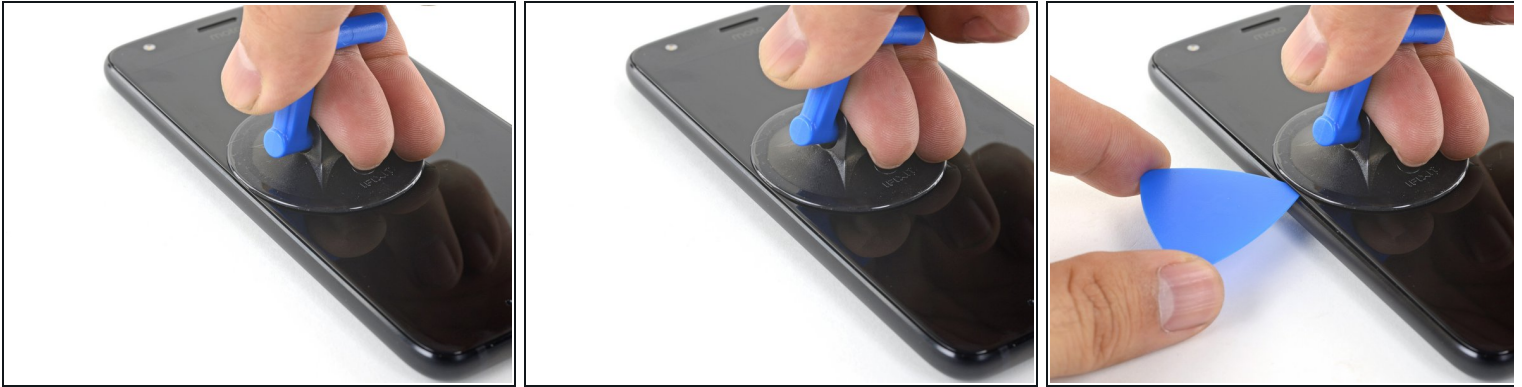
[Moto X4 Display Adhesive](#) (1)  
[Tesa 61395 Tape](#) (1)

## Step 1 — Heat the screen



- ⓘ Before you begin, turn off your phone.
- [Heat an iOpener](#) and apply it to the left edge of the phone for two minutes.
  - ⓘ You may need to reheat and reapply the iOpener several times to get the phone warm enough. 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.
- As you wait, take note of the the following areas:
  - Display cable—be careful not to slice too deeply near the edge here, or you may damage the display cable.
  - Fingerprint sensor cable—be careful not to slice too deeply near the edge here, or you may damage the fingerprint sensor cable.

## Step 2 — Create a gap



- Apply a suction cup to the screen, as close to the heated edge as possible.
- Pull on the suction cup with strong, steady force to create a gap in the seam.
- Insert the point of an opening pick into the gap.
  - ❗ Depending on the age of your phone, this may be difficult. If you are having trouble, apply heat to the edge and try again.

## Step 3 — Slice the screen adhesive



- Slide the opening pick along the edge to slice through the adhesive.
- Leave an opening pick in the seam to prevent the adhesive from re-sealing.

## Step 4



- Heat the top edge of the phone with an iOpener.
- Carefully slice around the corner and through the top edge to separate the adhesive.

## Step 5



- Heat the screen's right edge with an iOpener.
- Be careful not to slice too deeply near the cables to avoid damaging them.
- Use an opening pick to slice along the right edge to separate the adhesive.

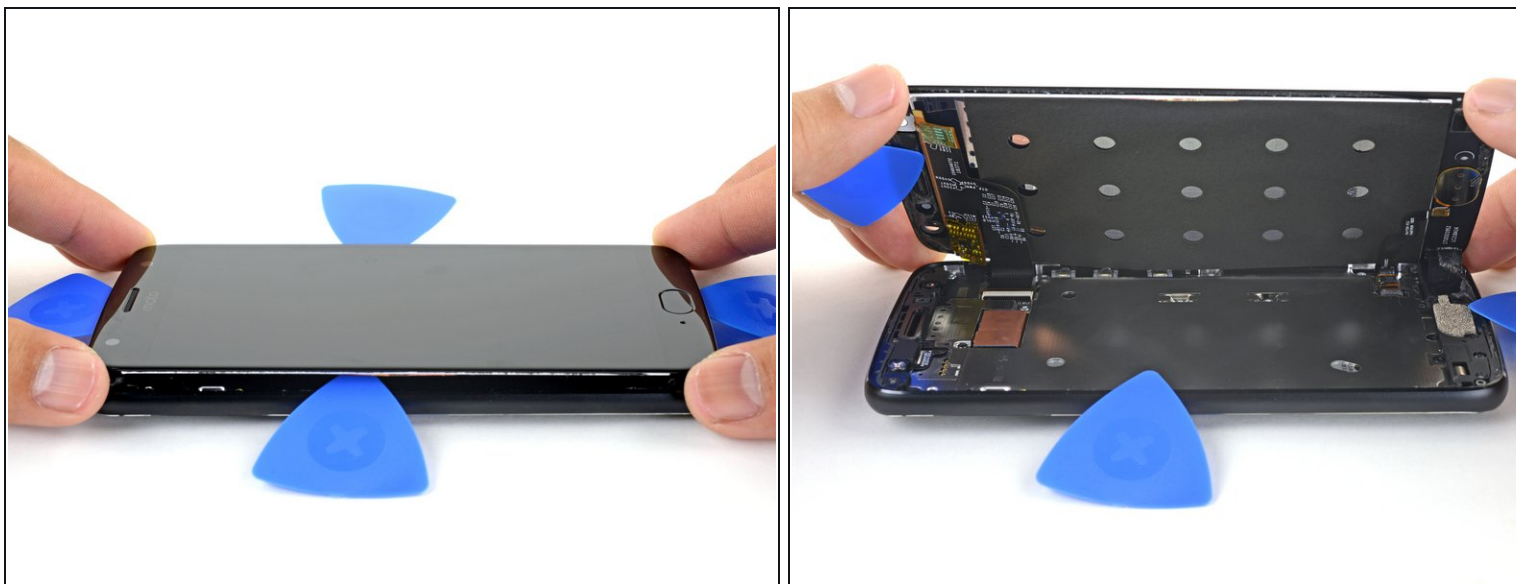


## Step 6



- Repeat the previous steps to heat and slice the bottom edge of the phone.

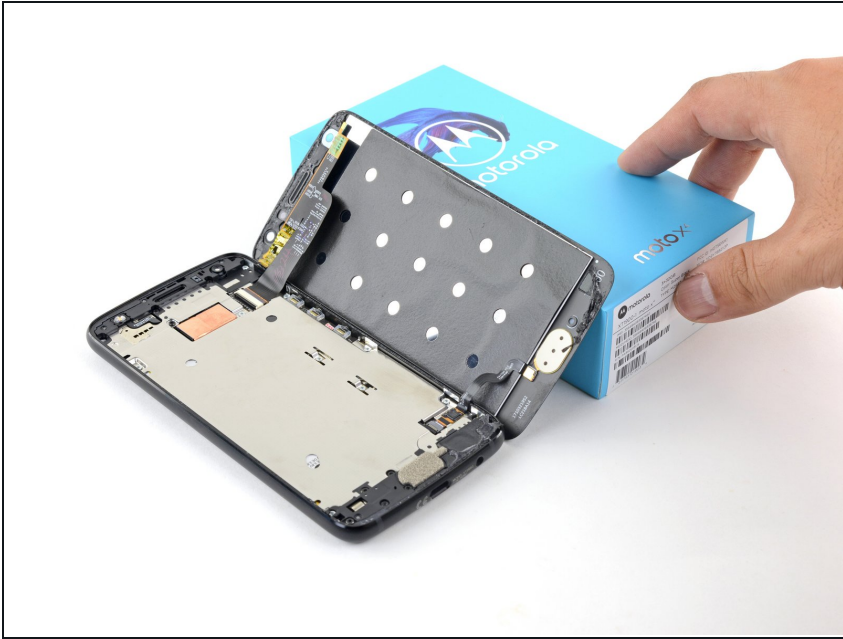
## Step 7



**⚠ Do not try to remove the screen yet—it is still attached to the phone by delicate flex cables.**

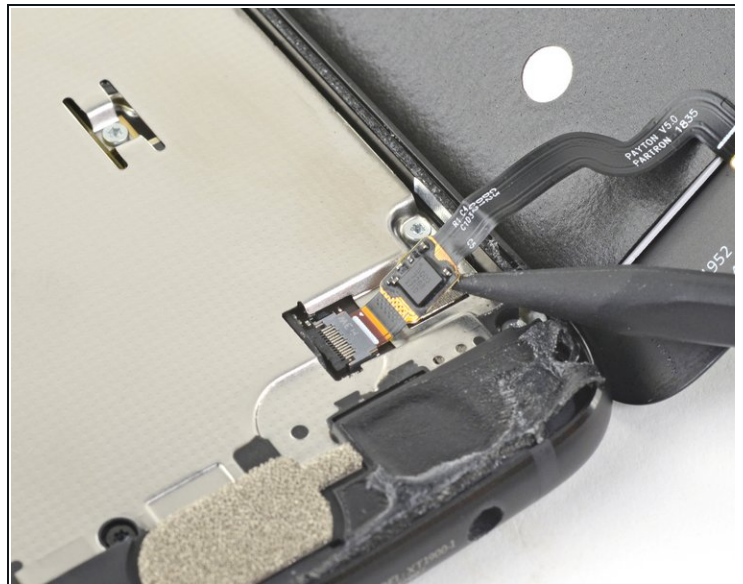
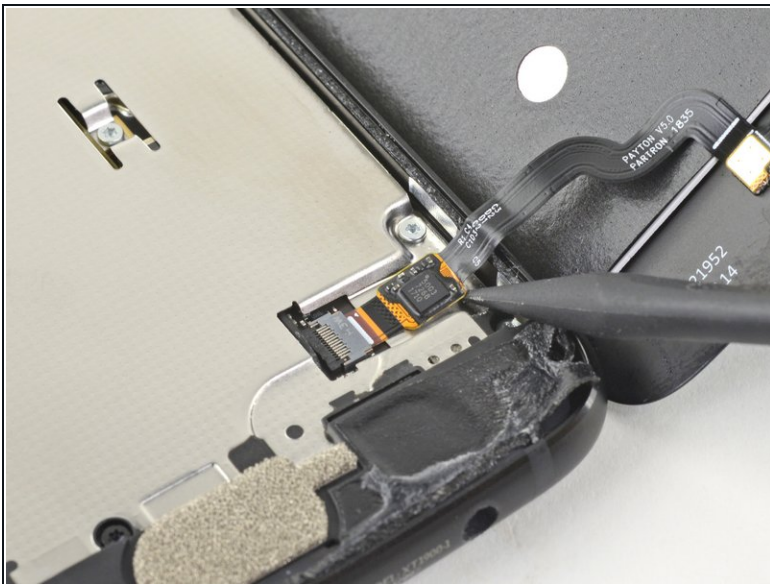
- Carefully lift up the left edge of the screen and cut away remaining adhesives with an opening pick.

## Step 8



- Swing open the screen and prop it up with a small box as you work on disconnecting the flex cables.
- ★ During reassembly, this is a good time to power on your phone and test all functions before sealing it up. Be sure to power your phone back down completely before you continue working.

## Step 9 — Detach the fingerprint sensor cable



- Slide the point of a spudger underneath the fingerprint sensor cable and gently pry up to loosen the cable from the phone.

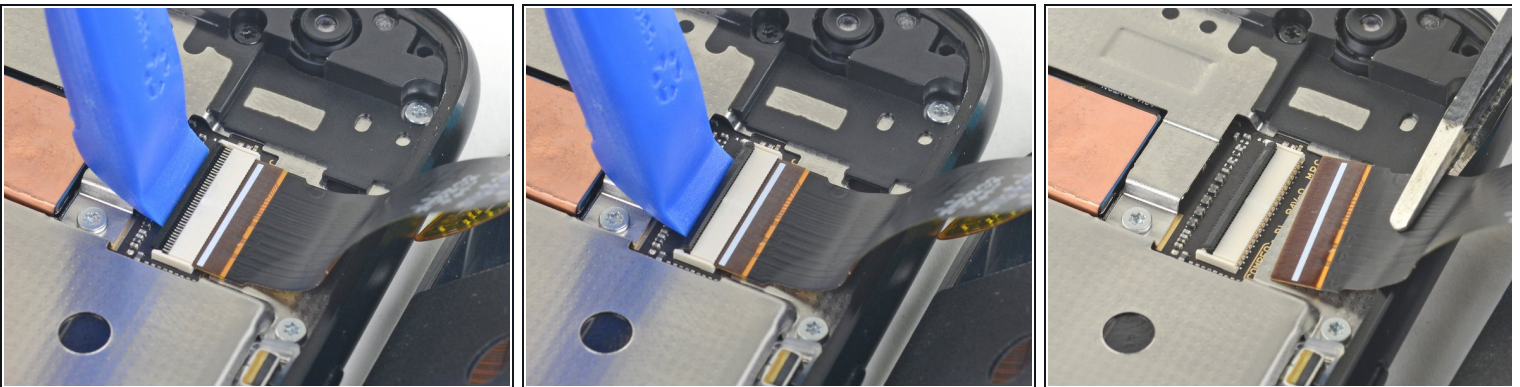
⚠ Do not pull on the cable. It is still attached to the phone by a delicate ZIF socket.

## Step 10 — Disconnect the fingerprint sensor



- Use the point of a spudger to flip up the lock bar on the fingerprint sensor's ZIF socket, near the bottom right of the phone.
- Use tweezers to carefully slide the fingerprint sensor cable out of the socket.

## Step 11 — Disconnect the display cable



- Use an opening tool to flip up the wide lock bar on the display cable's ZIF socket, near the top right of the phone.
- Use tweezers to carefully slide the display cable out of the ZIF socket.



## Step 12 — Remove the screen



- Remove the screen.

✦ During reassembly, [follow this guide](#) to clean the existing adhesive off and install custom-cut adhesives for your phone.

## Step 13 — Heat the fingerprint sensor



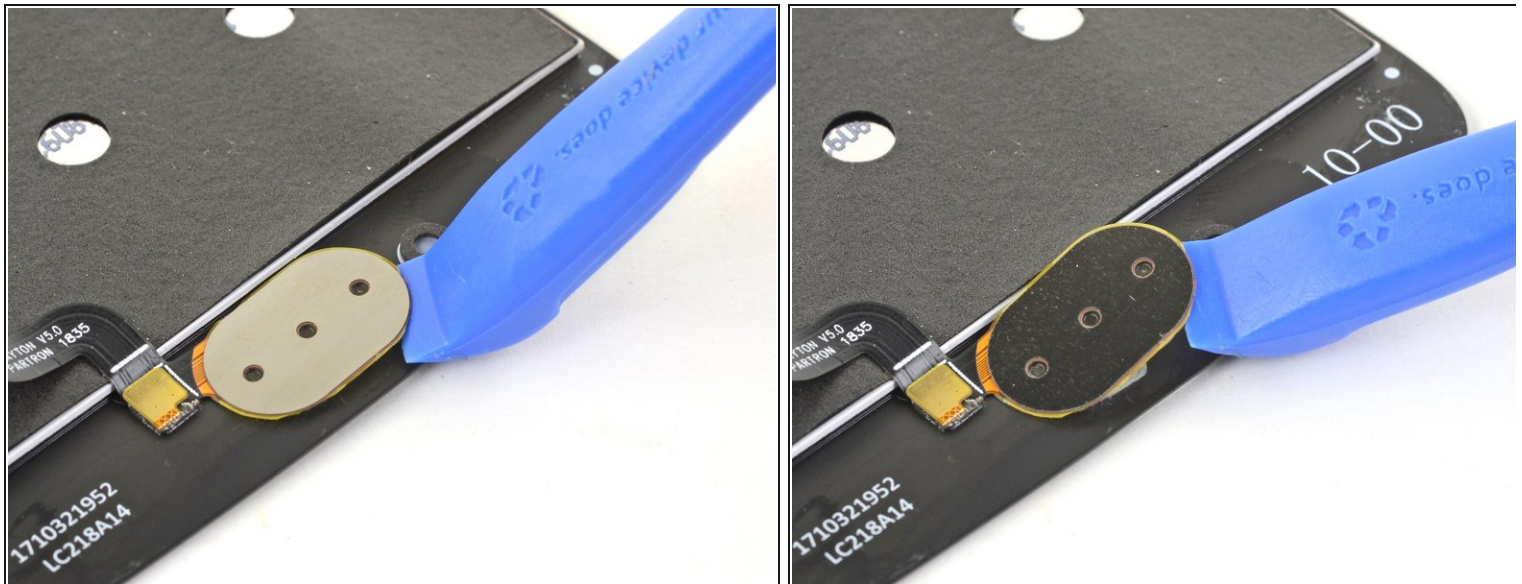
- Apply a heated iOpener to the fingerprint sensor for one minute to soften the adhesive gasket.

## Step 14 — Loosen the fingerprint sensor



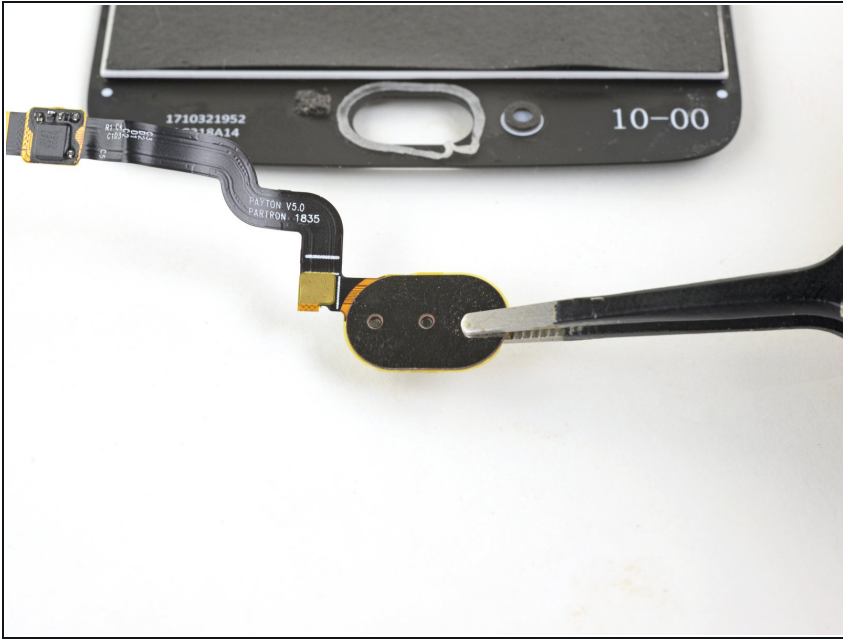
- Slide the point of a spudger under the fingerprint sensor cable and gently pry to loosen the cable from the screen.

## Step 15



- Use an opening tool to pry up and loosen the fingerprint sensor from the screen.

## Step 16 — Remove the fingerprint sensor



- Remove the fingerprint sensor.
- ☑ To reattach the fingerprint sensor, use a precut gasket, or apply some thin strips of Tesa adhesive to the perimeter of the sensor.

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? Try some [basic troubleshooting](#), or ask our [Motorola Moto X4 Answers community](#) for help.