



# Motorola Moto Z2 Force Display and Fingerprint Sensor Replacement

How to replace the display and fingerprint sensor on your Moto Z2 Force.

Written By: Tarun Thiruma



## INTRODUCTION

Use this guide to remove or replace the screen and fingerprint sensor on your Motorola Moto Z2 Force. The fingerprint sensor on the Z2 Force is very difficult to remove from the screen assembly, so if you need to replace it, you should probably replace the entire screen assembly.

**Warning:** The screen assembly of this device is comprised of a rigid midframe and a flexible plastic display that can split apart during disassembly. Excessive heat on the display can also cause it to bubble up or warp, and this is very difficult to remedy. If you plan on reusing the screen assembly, heed all warnings carefully and **take care to not overheat the display**.



### TOOLS:

- [iFixit Opening Picks set of 6](#) (1)
- [iOpener](#) (1)
- [Spudger](#) (1)
- [Tweezers](#) (1)
- [Suction Handle](#) (1)








### PARTS:

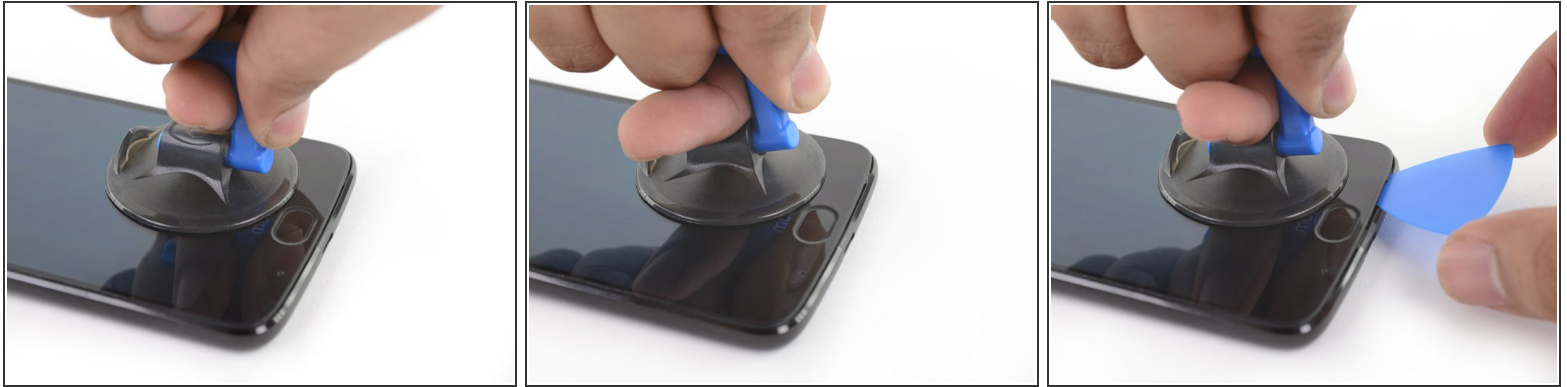
- [Moto Z2 Force Display Adhesive](#) (1)

## Step 1 — Heat the Screen Adhesive



-  Power your phone off before you begin.
-  If possible, drain the battery before disassembly. When the battery is charged, there's increased risk of a dangerous thermal event if the battery is overheated or damaged during repairs.
- [Prepare an iOpener](#) and heat the front of the phone along its bottom edge for about two minutes, or until it's slightly too hot to touch. This will help soften the adhesive securing the screen assembly.
-  You may need to reheat and reapply the iOpener several times to get the phone warm enough. Follow the iOpener instructions to avoid overheating.
-  Since the display is made of plastic, it is especially susceptible to warping and display damage. If you notice the display bubbling up or wrinkling, stop heating immediately and cool down the device before trying again.
-  A hair dryer, heat gun, or hot plate may also be used, but be careful not to overheat the device.

## Step 2 — Release the Screen Assembly



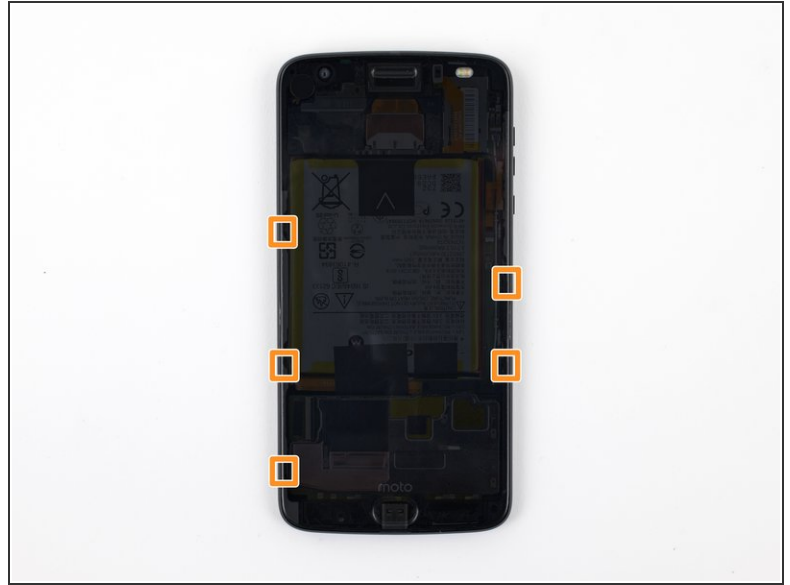
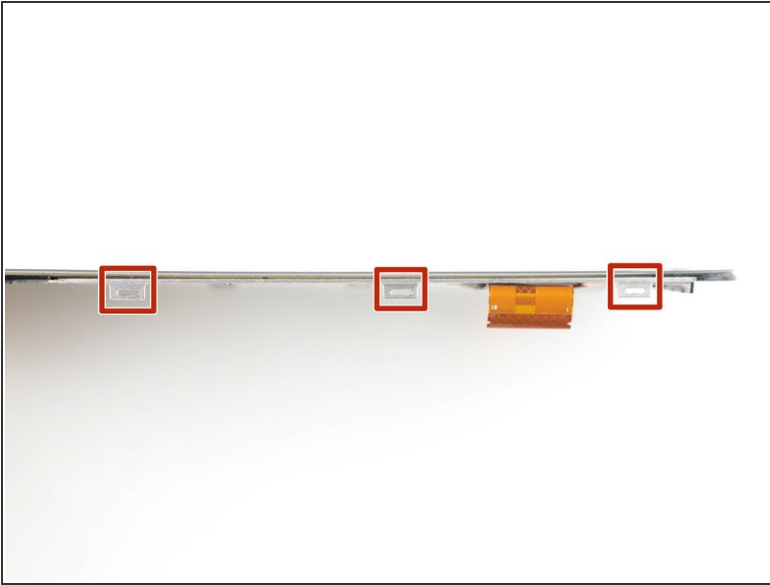
- Apply a suction cup to the right edge of the display as close as possible to the bottom of the device without overlapping the fingerprint sensor.
- Pull up on the suction cup with firm, constant pressure to create a slight gap along the bottom edge between the screen assembly and rear case.
  - ⓘ This may require a significant amount of force, but you only need to open a very slight gap with the suction cup to insert your tool.
- ⚠ As the display on top of the screen assembly is flexible, you may end up separating the right edge of the display from the screen assembly instead of lifting the entire assembly. Try to pull up just the bottom edge of the screen assembly to prevent warping the display.
- ⓘ If you have trouble, apply more heat to further soften the adhesive, and try again. The adhesive cools quickly, so you may need to heat it repeatedly.
- Insert an opening pick into the gap you opened behind the screen assembly.
- ⓘ Ensure your tool is behind the entire screen assembly and not just the display. You should notice a small [plastic tab](#) unclip from the device's frame if you have done this correctly.

## Step 3



- Slide the tool all along the bottom edge of the phone to slice through the adhesive securing the screen assembly and release the plastic clips.
- Leave your tool here underneath the bottom edge of the screen assembly to prevent it from re-adhering to the frame. Continue to the next step with a new tool.

## Step 4



- When separating the screen assembly from the rest of the device, you will need to disengage five metal clips securing it to the device's frame.
- Three of these clips are located on the left side of the device, and two are located on the right side.
- You will need to work around these clips with your tool in order to fully disengage them.
- You can either carefully slide the tool around these clips, or leave a pick on one side of the clip while prying the other side with another pick.

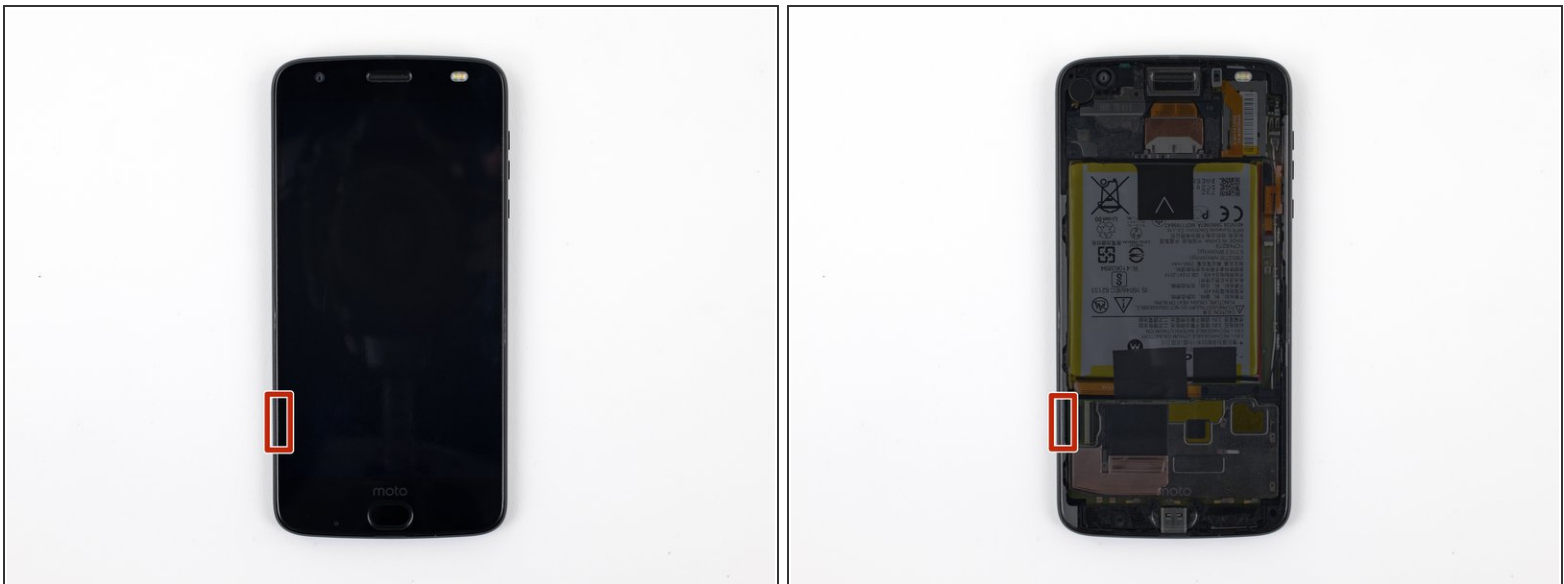


## Step 5



- Slide your tool all along the right side of the device to release the clips and adhesive securing the screen assembly.

## Step 6



- When separating the left side of the screen assembly, take care to not snag the display cable located on the left edge near the bottom of the display.

## Step 7



- Slide your tool all along the left edge of the phone to separate the clips and adhesive securing the screen.

## Step 8



- Apply an iOpener to the top edge of the phone to soften the adhesive underneath.



## Step 9



- Slide your tool along the top edge of the screen to slice through its adhesive.

**⚠** Take care to not insert your tool more than ~4 mm past the edge of the display to prevent damaging the front facing sensor array.

## Step 10



- There are two large pads of adhesive securing the screen assembly near the top edge but further past the 4 mm that have already been sliced through.
- The front facing sensor array and cable surround the right patch of adhesive from the top and right, so prying or slicing from the top or right edge may damage the cable. The following steps will describe how to separate the adhesive from the left edge.

## Step 11



- Insert an opening pick as deep as possible under the left corner of the display to slice through the left patch of adhesive.

## Step 12 — Pry Up the Screen Assembly



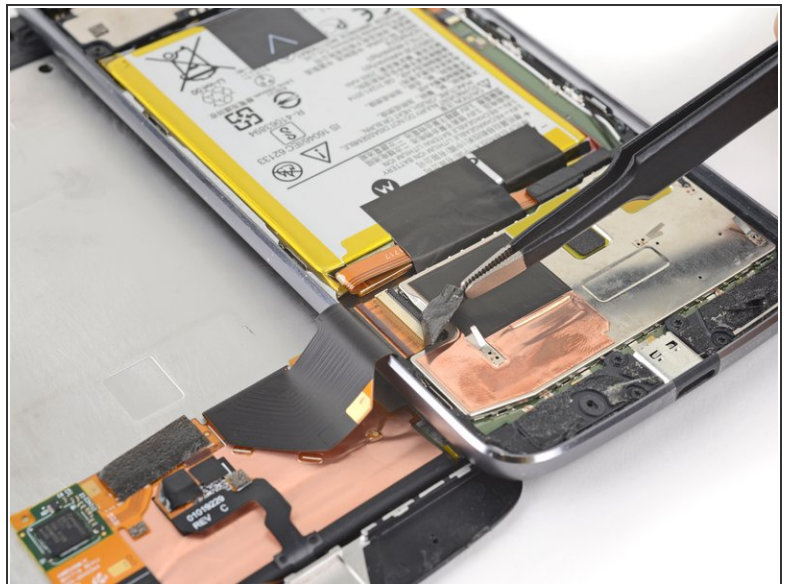
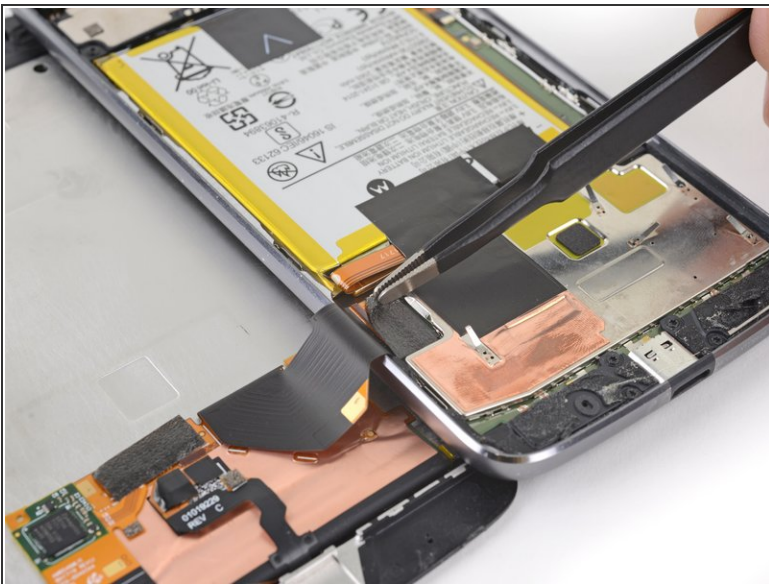
- Slowly and carefully slide the flat end of a spudger under the left edge of the device. Gradually insert it deeper to pry up the top edge of the screen assembly and release the right patch of adhesive.
- Reheat the adhesive to soften it as needed.
- ⓘ Alternatively, you can [apply high concentration \(>90%\) isopropyl alcohol](#) underneath the screen assembly and wait ~5 minutes to allow it to penetrate and weaken the adhesive.
- ⚠ Only pry the assembly up enough to slide the spudger underneath and release the adhesive. The assembly is still attached via the display cable, and prying the left side too much may damage it.

## Step 13 — Open the Screen Assembly



- If the screen assembly remains stuck, re-heat and slice the adhesive repeatedly as needed.
- Lift the screen assembly from the right edge and swing it open, away from the phone. It is still attached to the phone chassis at the lower left edge, so do not fully remove it yet.

## Step 14 — Disconnect the Display Cable

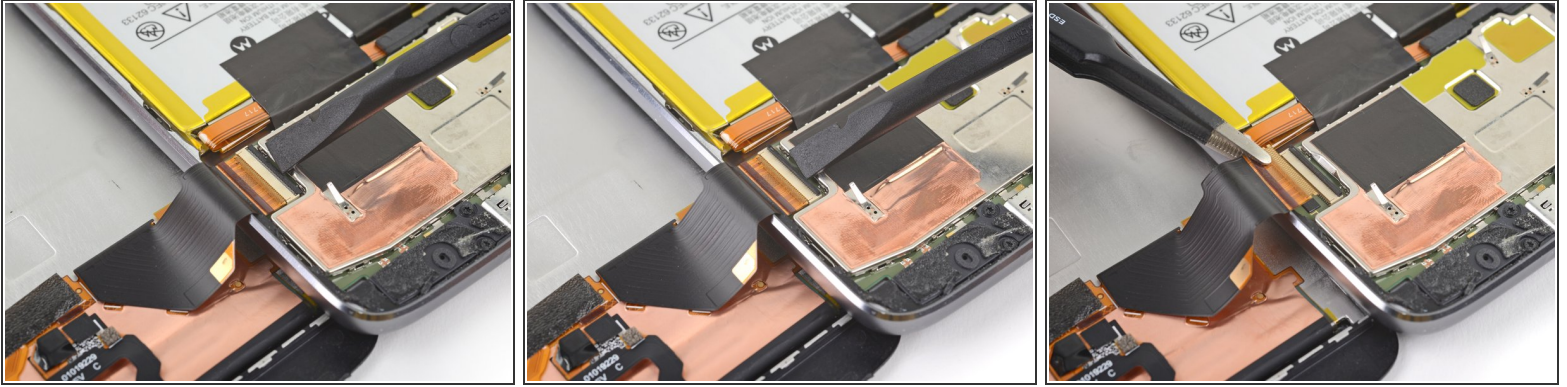


- Use a pair of tweezers to remove the black piece of tape covering the battery connector.
- ⓘ Try your best to keep this piece of tape intact and retain it for reassembly.

This document was generated on 2020-03-03 06:05:00 PM (MST).



## Step 15



- Use a spudger to pry up the locking tab on the display cable's [ZIF connector](#).
- Slide the display ribbon cable out of the connector.

## Step 16 — Remove the Screen Assembly



- Remove the screen assembly.
- ✦ When putting your device back together, be sure to reconnect the display, turn the device on, and test all functionality before closing your device and sealing it back up.
- ✦ During reassembly, pause here and [replace the adhesive around the edges of the display](#) if you are reusing your screen assembly.
- ✦ After closing your device back up, stack something heavy, like a textbook or two, on top of the device for 30-60 minutes. This ensures a strong adhesive bond.

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.