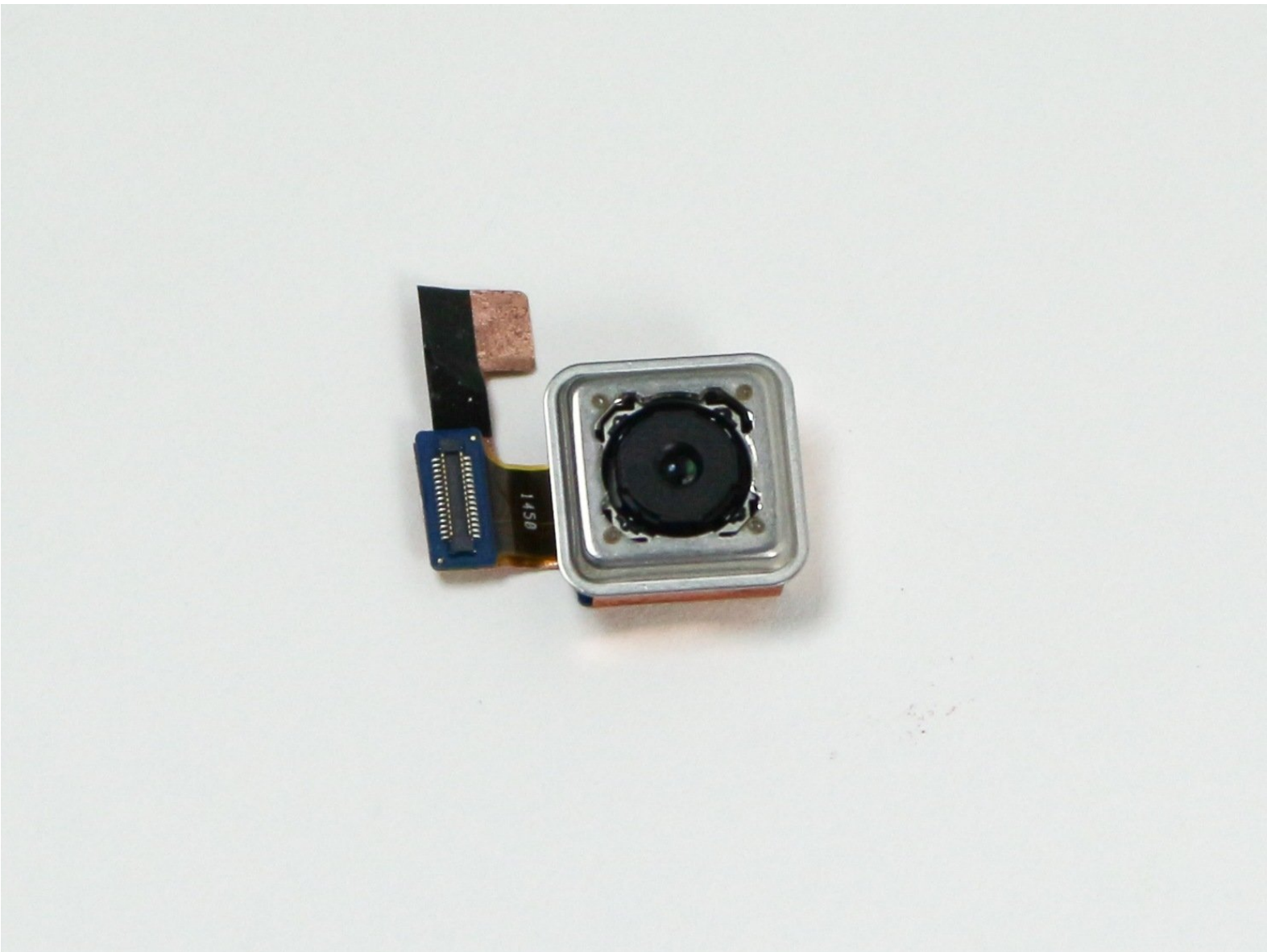




HTC One M9 Rear Facing Camera Replacement

Fix cracked camera glass or a dysfunctional camera to make sure those precious moments are as clear as possible.

Written By: Michael Chan



INTRODUCTION

Users will be able to replace their damaged camera and regain functionality. The camera replacement requires the removal of both the motherboard and the camera chip to remove the camera. Be careful not to damage any other components during the repair.



TOOLS:

- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)
- [iFixit Opening Tools](#) (1)
- [Tweezers](#) (1)
- [T5 Torx Screwdriver](#) (1)
- [iFixit Opening Picks set of 6](#) (1)
- [SIM Card Eject Tool](#) (1)



PARTS:

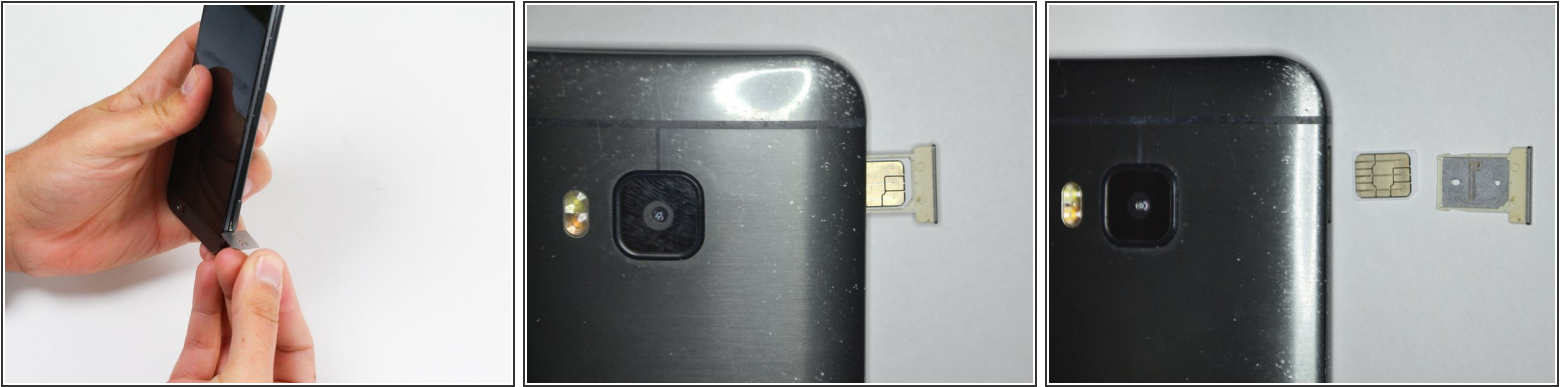
- [HTC One \(M9\) Rear Camera](#) (1)
- [HTC One \(M9\) Camera Board](#) (1)

Step 1 — MicroSD Card



- Insert a microSD card eject tool or a paperclip into the small hole in the microSD card tray, located on the upper right hand side of the phone above the volume buttons.
- Press to eject the tray.
 - ⓘ This may require a significant amount of force.
- ✦ When reinserting the microSD card, ensure that it is in the proper orientation relative to the tray. The contacts should be inserted first and face to rear side.
- ⓘ It is normal, that the microSD card doesn't stay on it own inside the tray. It is also not completely trivial to place it correctly flat inside the tray.

Step 2 — SIM Card



- Insert a SIM card eject tool or a paperclip into the small hole besides the SIM card tray, located on the upper section of the left edge of the phone.
- Press to eject the tray.
 - ⓘ This may require a significant amount of force.
- ✦ When reinserting the SIM card, ensure that its contacts are facing to the rear side. The tapered corner of the SIM card has to point to the outer bottom corner of the tray.

Step 3 — Rear Case



- Using a plastic opening pick or a spudger, gently pry and remove the cover on top of the case.
- Remove the two 4 mm T5 Torx screws on the top of the case.

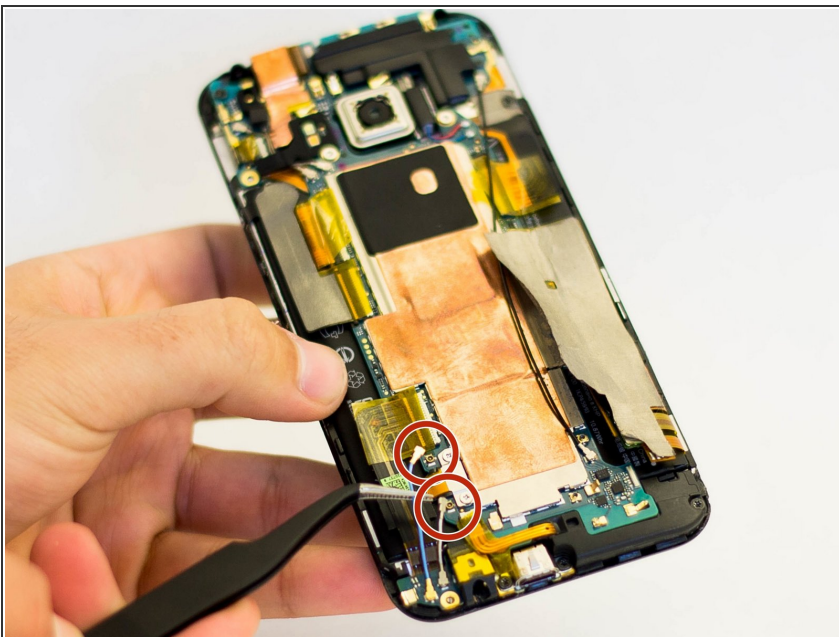
Step 4



- Work a plastic opening pick around the perimeter of the device to separate the rear case from the display assembly.

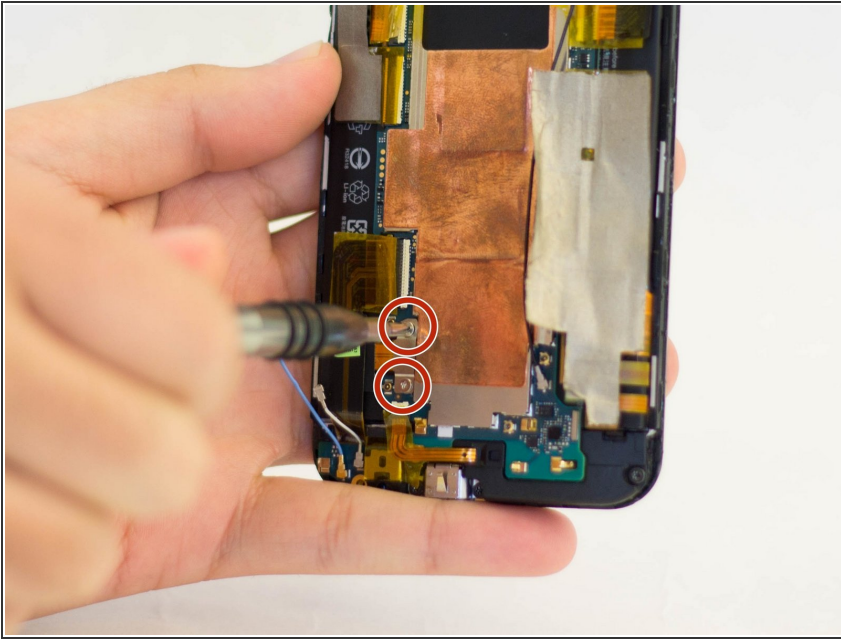
- ⚠ The SIM card tray and Micro SD card tray must be removed before the back cover can be removed.
- ⚠ Be careful around the power and volume buttons, as they are fairly delicate.
- ⚠ Be careful when separating the body from the display assembly, as the rear-facing camera may be stuck to the body with adhesive.

Step 5 — Motherboard



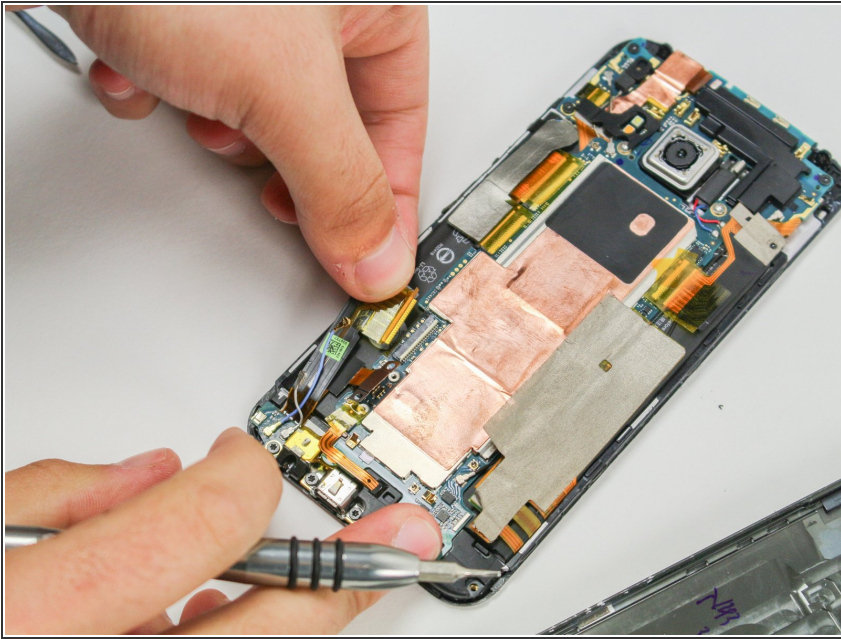
- Use a pair of tweezers to disconnect the blue and white antenna cables. Note that some models of this phone will have only one antenna cable at this location.

Step 6



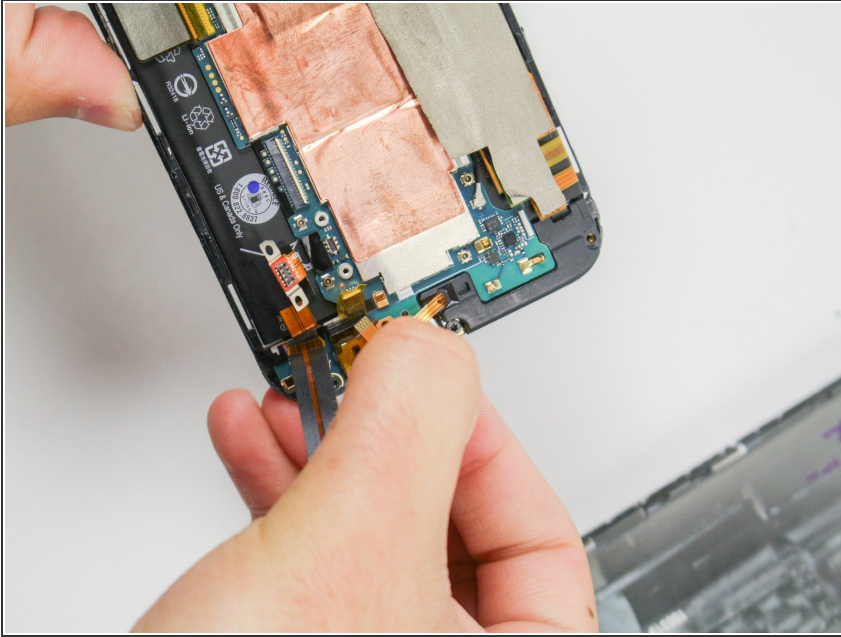
- Remove the two 1.5 mm Phillips screws securing the battery connector to the motherboard.
- Use a spudger to pry the battery connector from its socket, being careful to apply pressure only to the connector and not to the socket.

Step 7



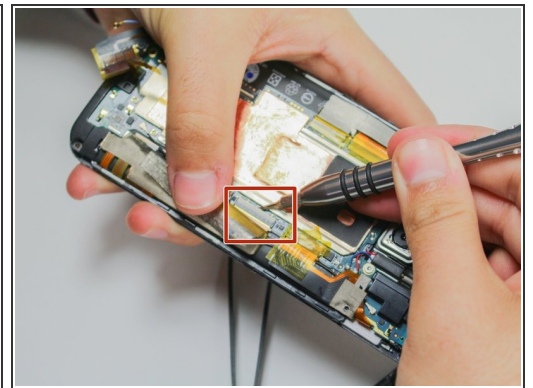
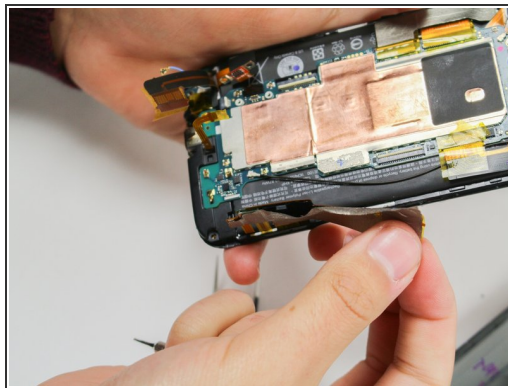
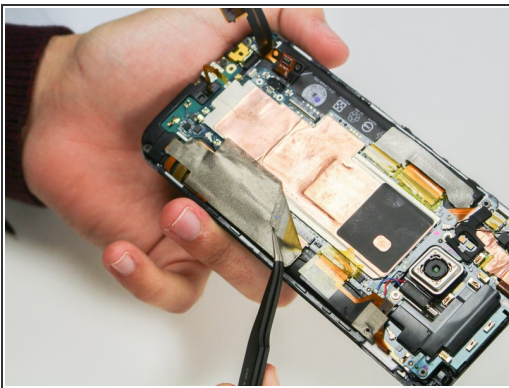
- Peel back the Kapton tape from the ZIF connector, then use your fingernail or a spudger to lift the hinged retainer clip on the ZIF connector and slide the cable out.

Step 8



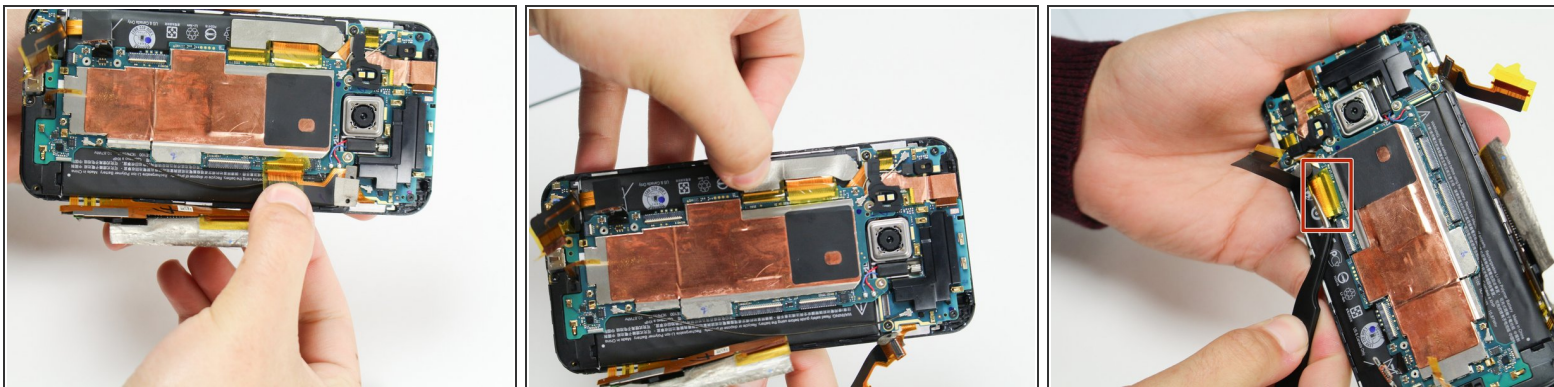
- Peel back the Kapton tape from the ZIF connector, then use your fingernail or a spudger to lift the hinged retainer clip on the ZIF connector and slide the cable out.

Step 9



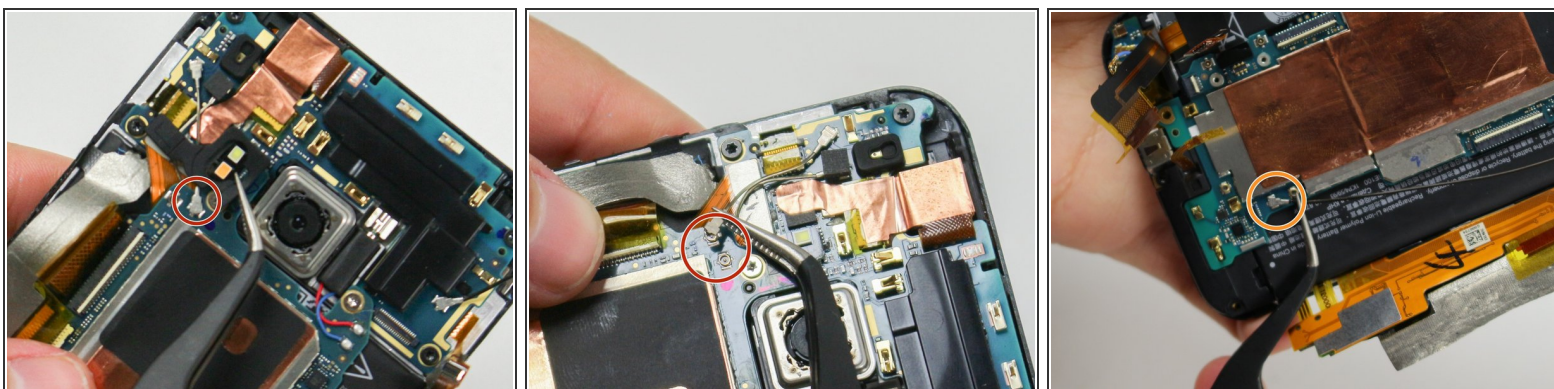
- With the tweezers, carefully lift up on the tape covering the electrical strip shown in the picture.
- ⚠ Be careful with the tape as it can tear easily. You will have better luck if you pull back the orange Kapton tape rather than the silver electrical strip.
- Use your fingernail or a spudger to lift the hinged retainer clip on the ZIF connector and slide the cable out.

Step 10



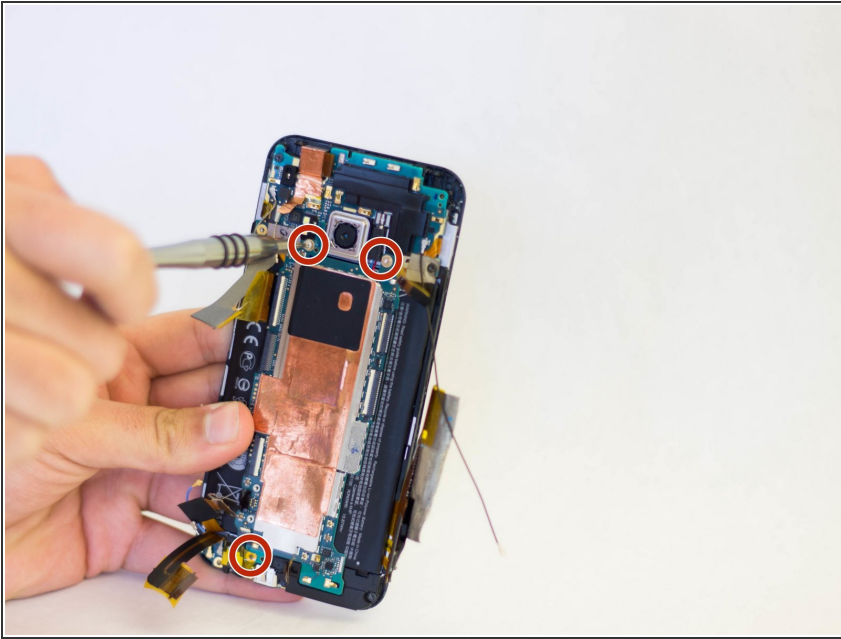
- Peel back the Kapton tape from the remaining three ZIF connectors, then use your fingernail or a spudger to lift the hinged retainer clips on the ZIF connectors and slide the cables out from each.
- ⓘ The third ZIF connector is mostly underneath the motherboard. When reassembling your device, make sure it is placed back underneath.

Step 11



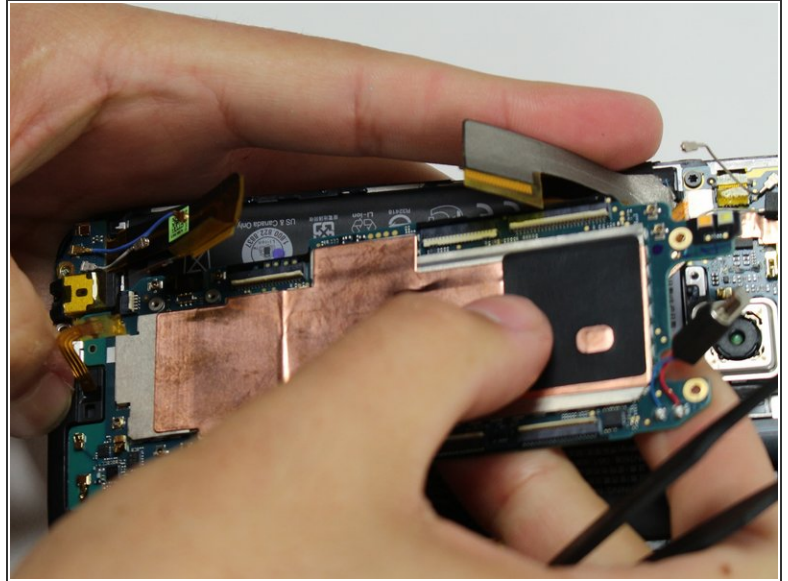
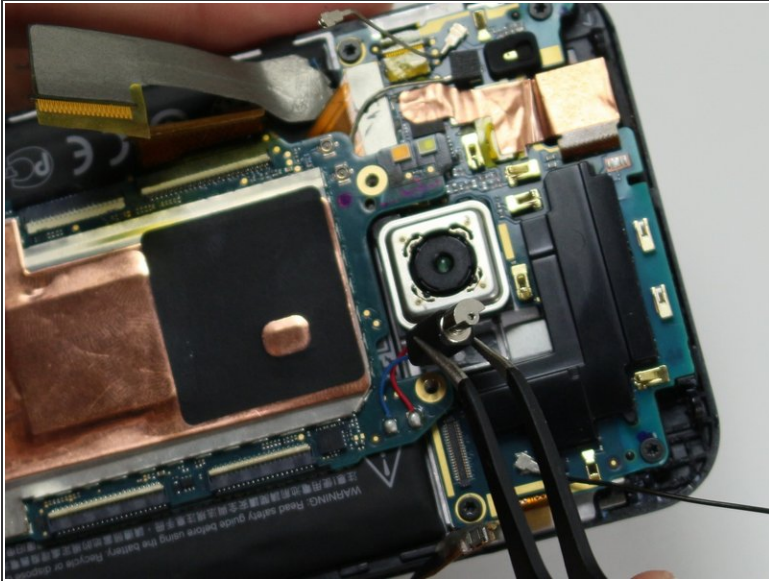
- Remove the dual LED flash cover. This is held on with a small amount of adhesive. Be careful here: the flash cover may be glued to the antenna cable(s) below. Apply a small amount of heat here to soften the adhesive before removal.
- Use a pair of tweezers to disconnect the two antenna cables near the camera. Note that some models of this phone will have only one antenna cable at this location.
- Use a pair of tweezers to disconnect the antenna cable near the bottom of the phone.

Step 12



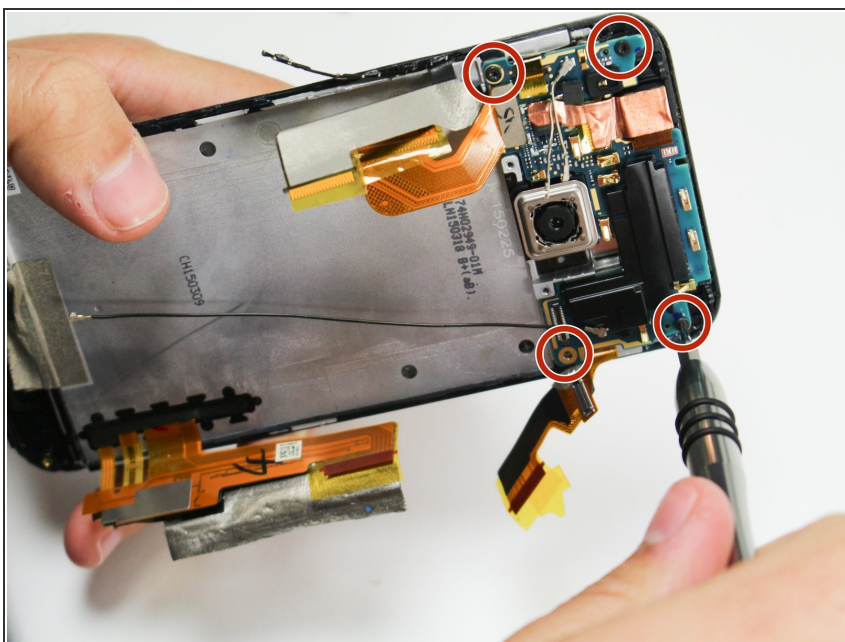
- Remove the three 4mm T5 Torx screws securing the motherboard.

Step 13



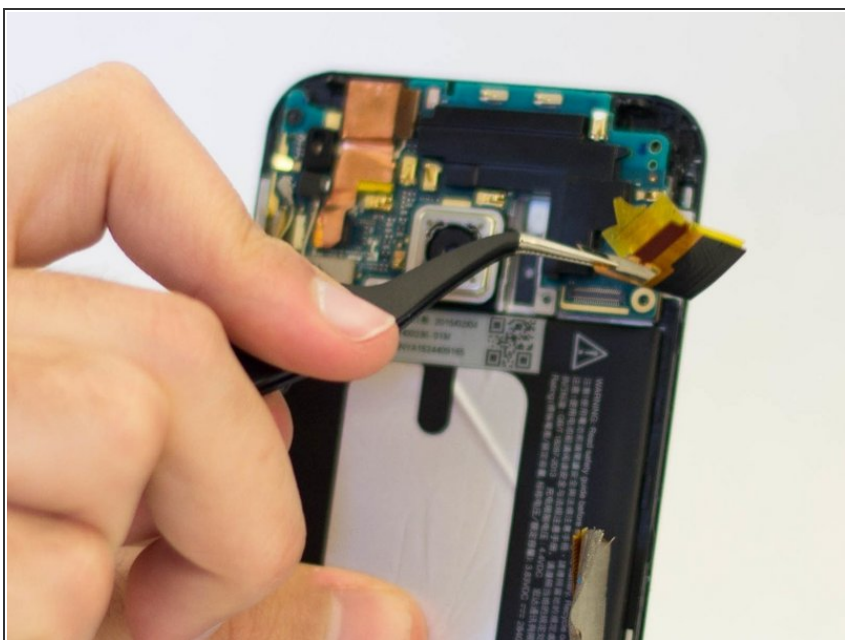
- Use a pair of tweezers to gently lift the vibrator out of its crevice. It is held in only with friction, no adhesive or screws. Be careful when lifting to avoid damaging the wires connecting it to the motherboard.
- Use a plastic opening tool or a spudger to gently pry the motherboard out of the case. lift first from the top (near the camera).
- ⓘ The motherboard is secured with adhesive at the bottom (on the speaker assembly) so you may need to use an iOpener or heat gun to loosen the adhesive. Refer to the [iOpener guide](#) for info on this.

Step 14 — Rear Facing Camera



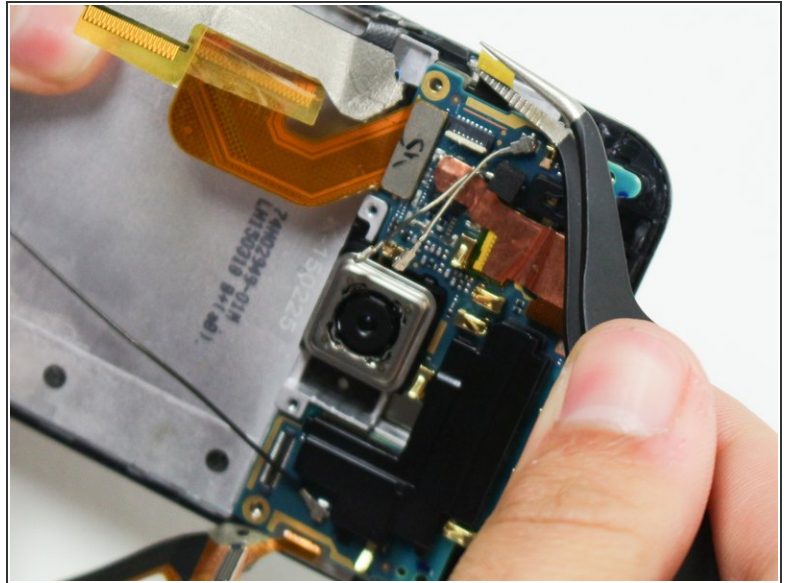
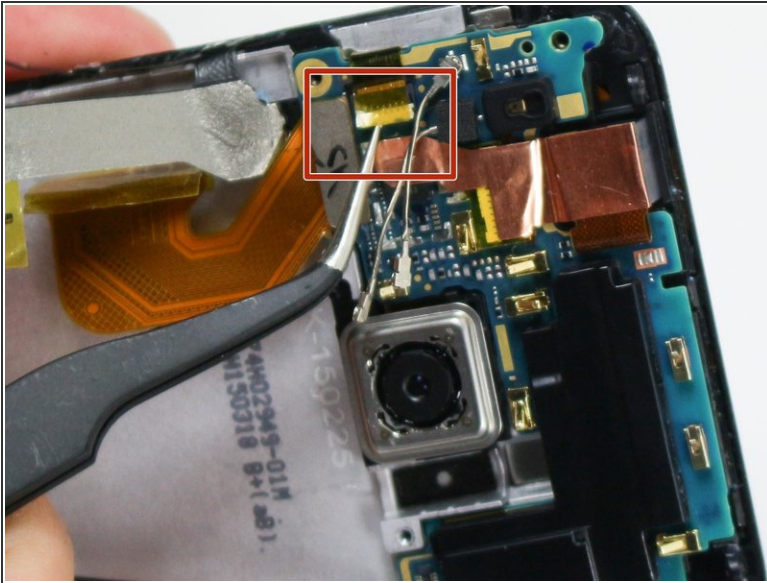
- Remove the four 3 mm T5 Torx Screws that hold down the upper camera chip.

Step 15



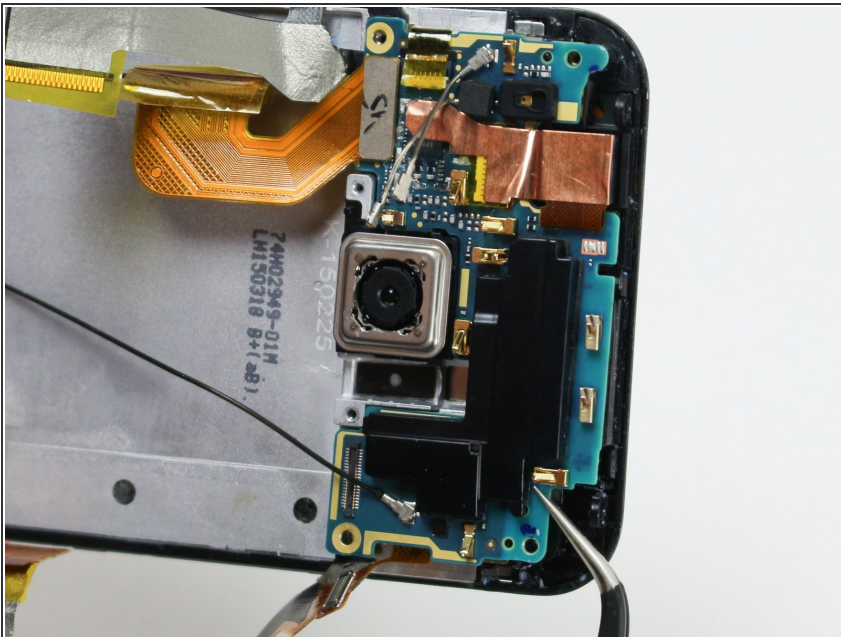
- Using the tweezers, remove the pictured electrical ribbon.

Step 16



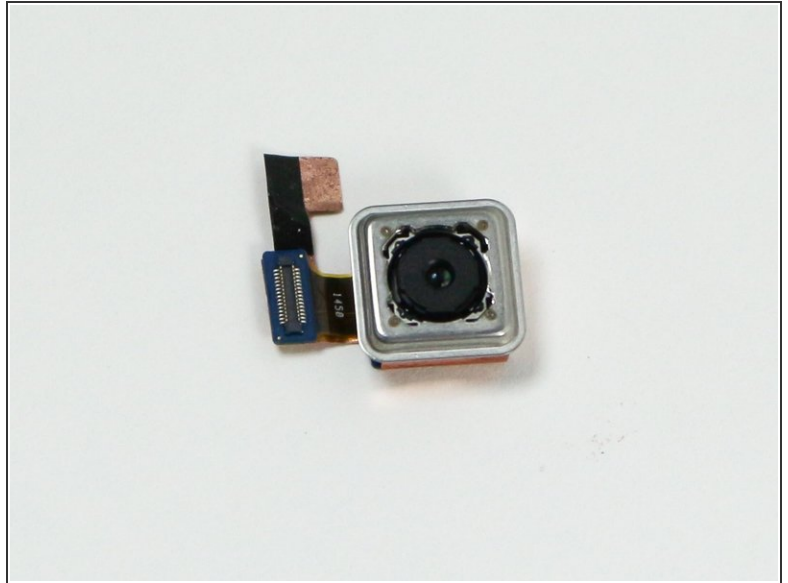
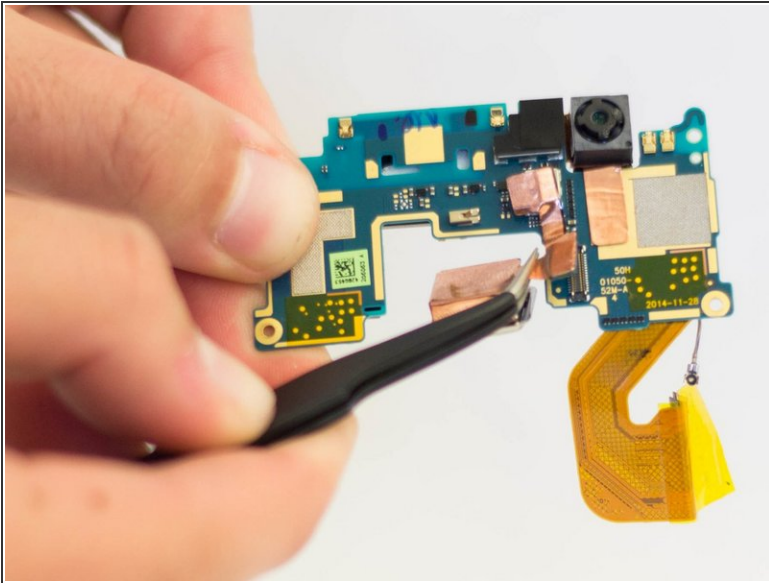
- Using tweezers, disconnect the electrical ribbon on the camera chip.

Step 17



- Using the tweezers, remove the camera chip from the device.

Step 18



- Flip the removed chip over and use the tweezers to remove the back camera from the back of the chip by applying upward force to the ribbon connection.

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