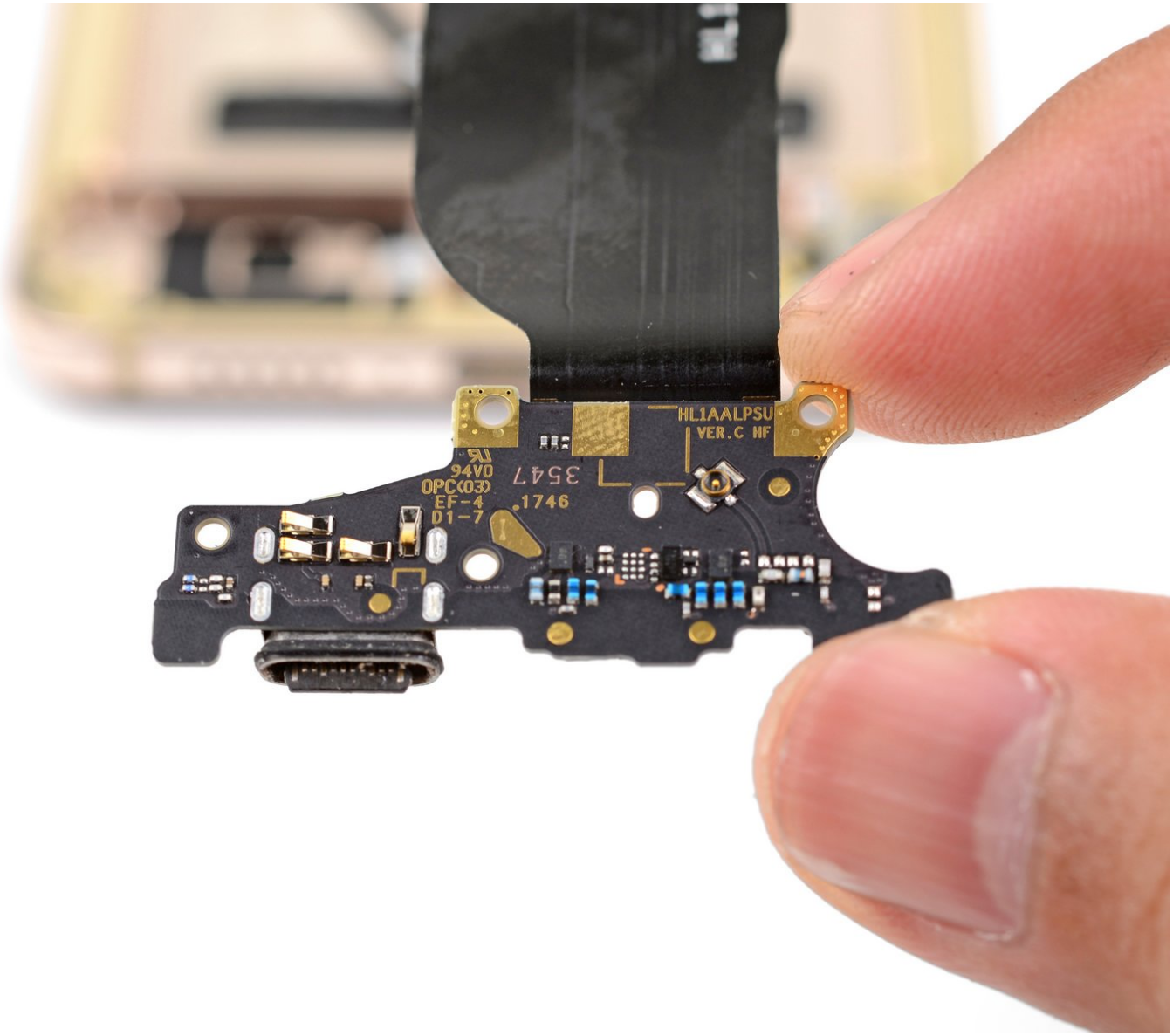
Huawei Mate 10 Daughterboard Replacement

Remove and replace the daughterboard for the Huawei Mate 10. The daughterboard houses the USB-C port, two microphones, and cable interconnects.

Written By: Arthur Shi



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INTRODUCTION

This guide shows how to remove and replace the daughterboard on the Mate 10. The daughterboard acts as an interconnect for the lower components such as the vibration motor and the loudspeaker. It also houses the USB-C port and two downward-facing microphones.

Some images may show the phone with the battery removed. You do not need to remove the battery to replace the daughterboard.

TOOLS:

- iOpener (1)
- Suction Handle (1)
- iFixit Opening Picks set of 6 (1)
- Tweezers (1)
- iFixit Opening Tools (1)
- Phillips #00 Screwdriver (1)
- Spudger (1)

PARTS:

- Huawei Mate 10 Back Cover Adhesive (1)

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Step 1 — Remove the back cover

- Heat an iOpener and apply it to the bottom edge of the phone for two minutes. Re-heat the iOpener as needed.

  A hair dryer, heat gun, or hot plate may also be used, but be careful not to overheat the phone.

- While you wait, note the location of the adhesive holding the back cover in place.

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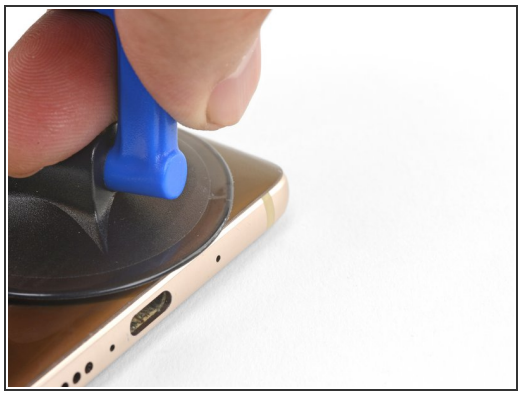
Step 2



- Place a suction cup near the bottom edge of the back cover, on the right side (opposite the speaker grille) of the USB-C charging port, above the microphone hole.
  - If your back cover is badly cracked, covering it with a layer of clear packing tape may allow the suction cup to adhere. If all else fails, you can superglue the suction cup to the back cover.
- Pull on the suction cup with strong, steady force to create a gap.
  - Due to the adhesive's strength, this is very difficult and may take multiple attempts. If you can't create a gap, re-apply heat and try again.
- Insert the point of an opening pick into the gap.

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Step 3

- Slide the pick along the bottom edge and around the bottom-left corner, slicing through the adhesive.
- If the adhesive feels tacky and difficult to slice, re-apply heat to the edge and try again.
- Leave an opening pick in the seam to prevent the edge from re-sealing.

Step 4

- Apply a heated iOpener to the left edge of the phone.
- Use an opening pick to slice through the adhesive on the left edge of the phone.

The adhesive is very thick in some areas. Sustained exposure to heat will help weaken the stubborn adhesive. Take your time, and apply heat liberally.

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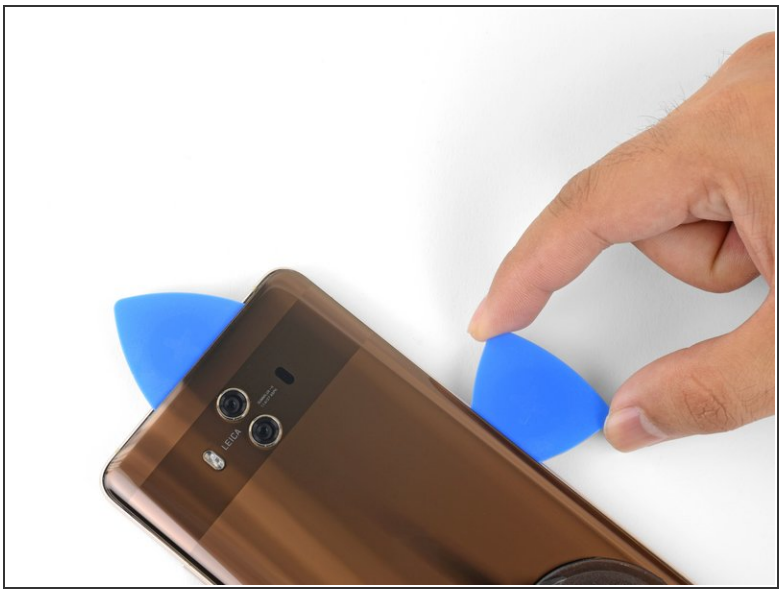
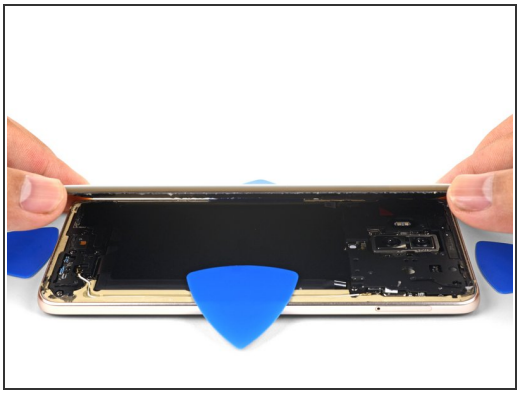
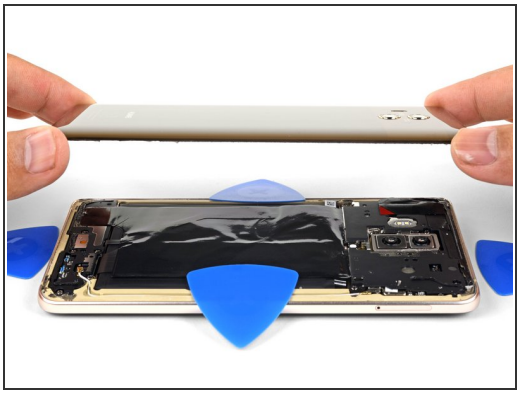
Step 5



- Continue heating and slicing through the remaining edges, leaving opening picks in the seams to prevent the adhesive from re-sealing.

Step 6

- After you cut through the adhesive around the entire perimeter of the back cover, begin to lift it away from the phone.
- Use an opening pick to slice any remaining adhesive.
- Remove the back cover.

During reassembly, this is a good point 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.

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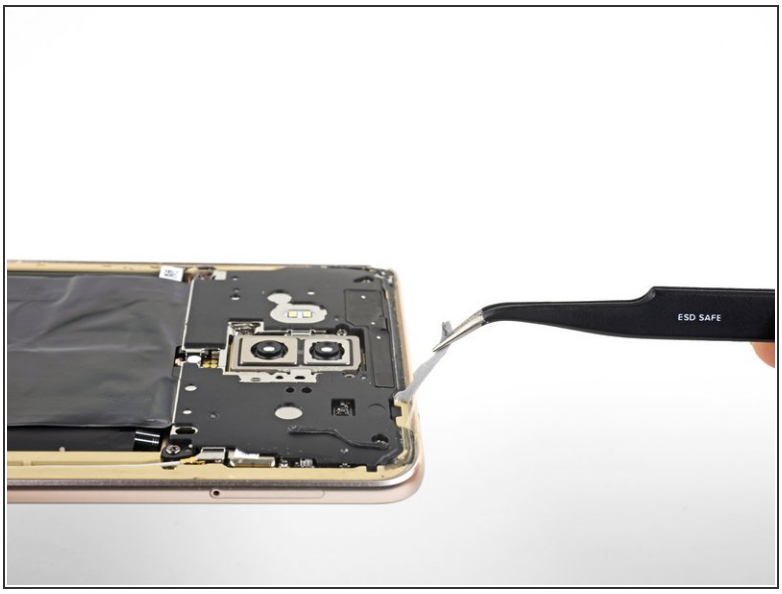
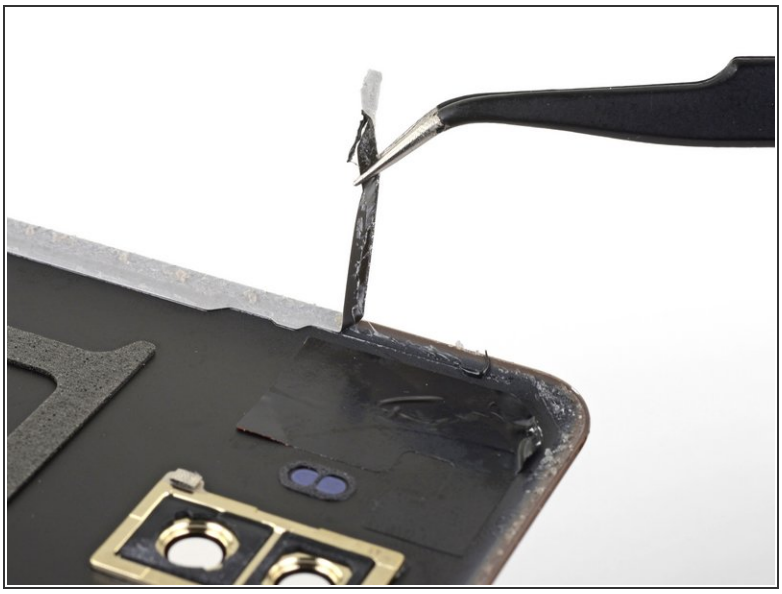
Step 7 — Prep the phone for a new back cover





Before you install a replacement back cover, be sure to remove all traces of perimeter adhesive from the phone frame.

If you are re-using the back cover, carefully remove all traces of adhesive from the back cover.

The glass back cover is fragile and prone to cracking. Do not apply uneven pressure to the back cover as you clean.

- You may pull up chunks of the cover's color coating as you remove the adhesive. To reduce the chances of this occurring, apply heat or high concentration isopropyl alcohol to the adhesive to weaken it.

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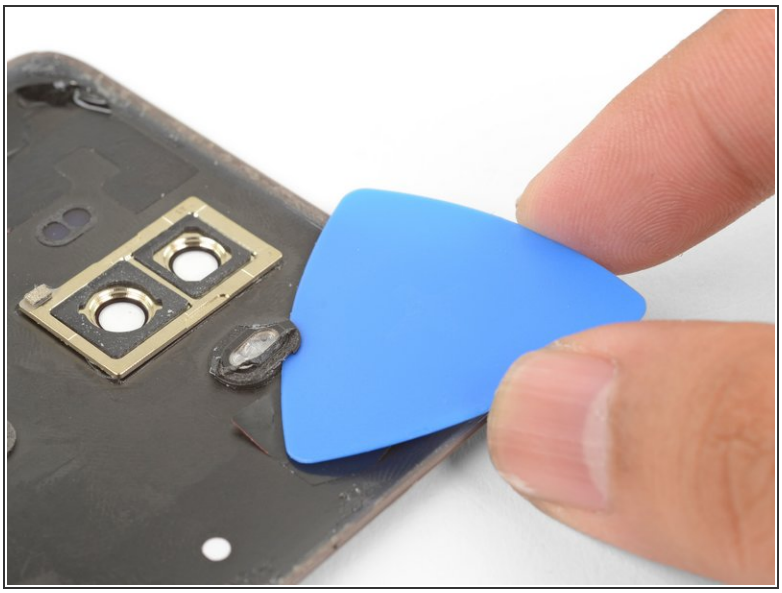
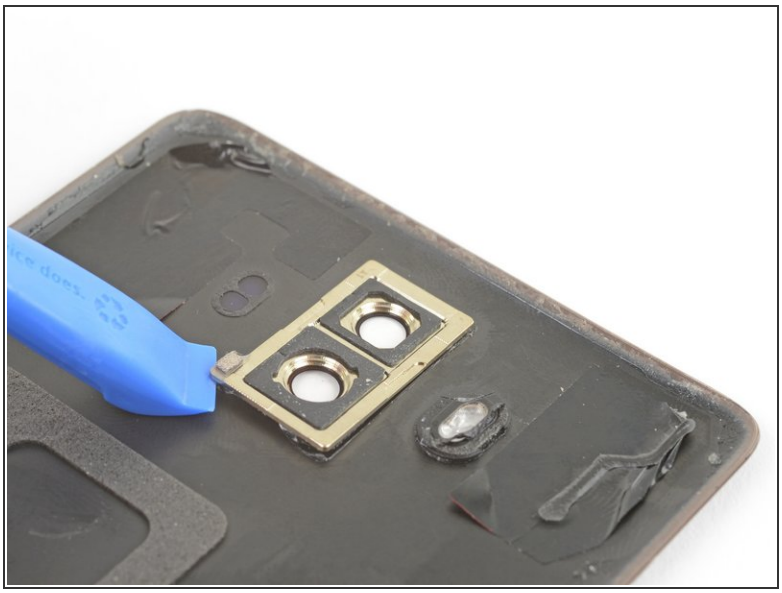
Step 8





If your replacement back cover did not come with a flash diffuser or camera bezel, you will need to transfer them from your old cover to the new one.

- Apply a heated iOpener directly over the bezels for a minute.
- Use an opening pick to slice around the flash diffuser to loosen the adhesive.
  - The flash diffuser is made of plastic and cracks easily. Be sure to slice around the flash completely before you pry it off.
- Use an opening tool to pry up and remove the camera bezel.
- Transfer the parts to your replacement cover.

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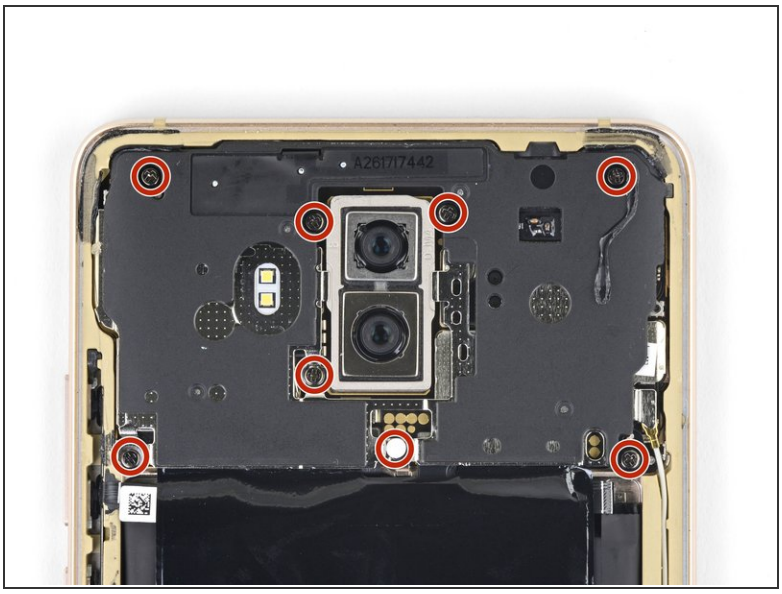
Step 9 — Remove the plastic bracket



The next two steps show how to remove the heat dissipation layer, along with its plastic bracket.

- Remove the eight 3.4 mm long Phillips screws securing the plastic bracket.
  - One screw lies beneath a white sticker. Remove the sticker.
- Insert the point of a spudger underneath the right edge of the plastic bracket and pry up slightly to loosen the shield.

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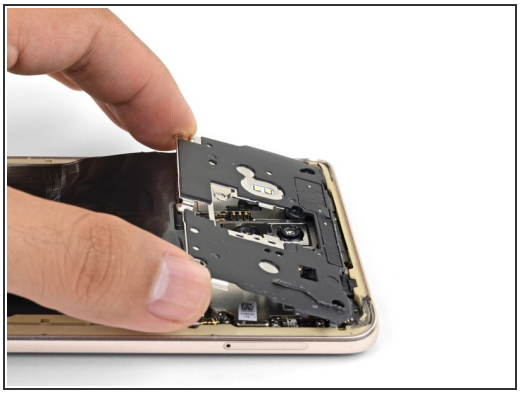
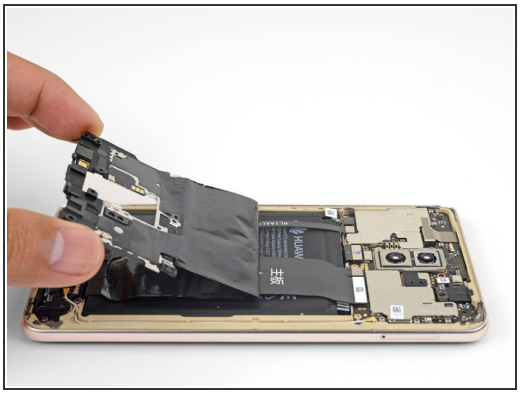
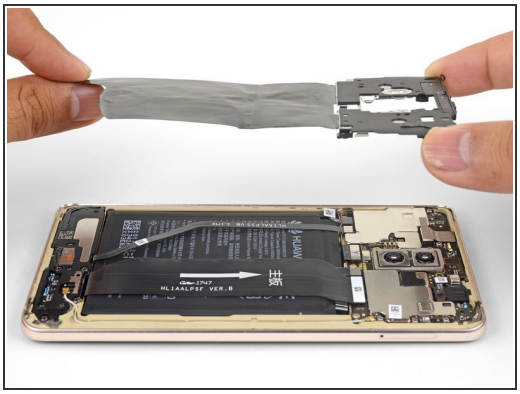
Step 10

- Grasp the the lower edge of the plastic bracket with your fingers and lift the edge up slightly.
- Pull the plastic bracket away from the top edge of the phone.
- Slowly peel the black heat dissipation layer away from the phone. It is held in place with small patches of adhesive.
- Remove the plastic bracket along with the heat dissipation layer.

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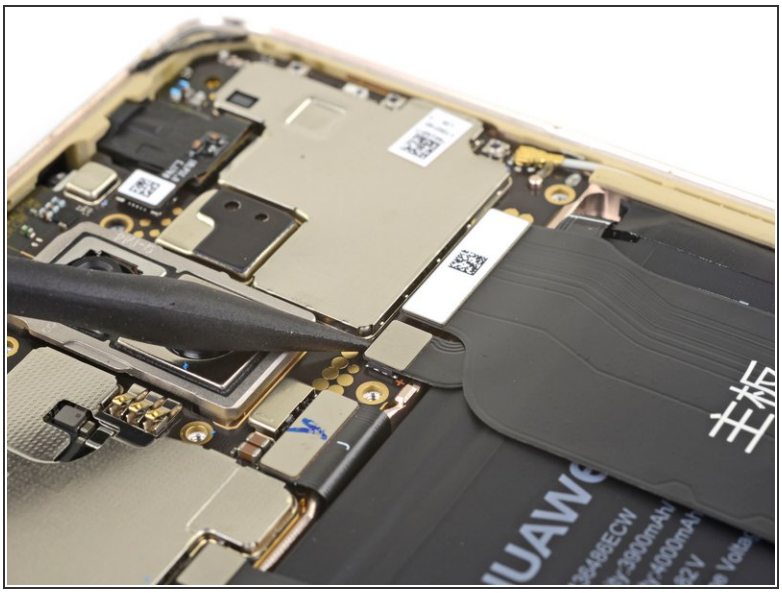
Step 11 — Disconnect the battery



- Use the point of a spudger to pry up and disconnect the battery connector from its motherboard socket.

  When you disconnect connectors like these, be careful not to dislodge the small surface-mounted components surrounding the socket.

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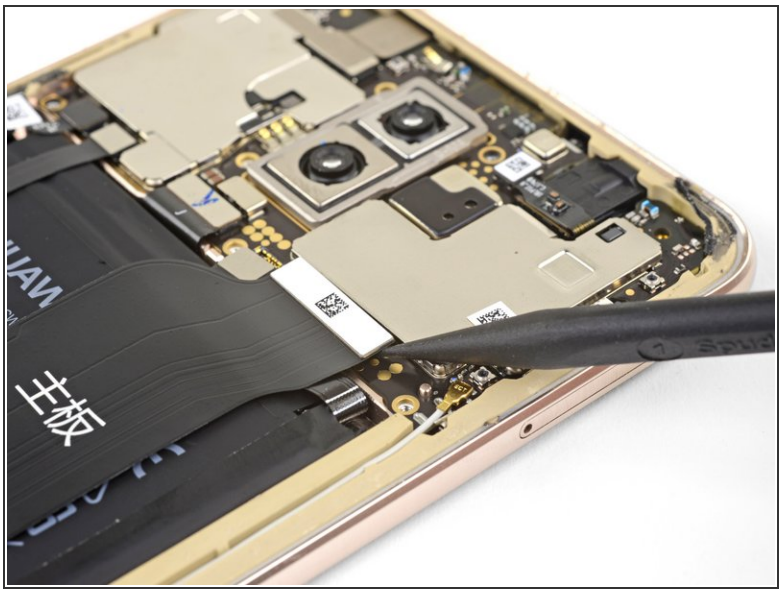
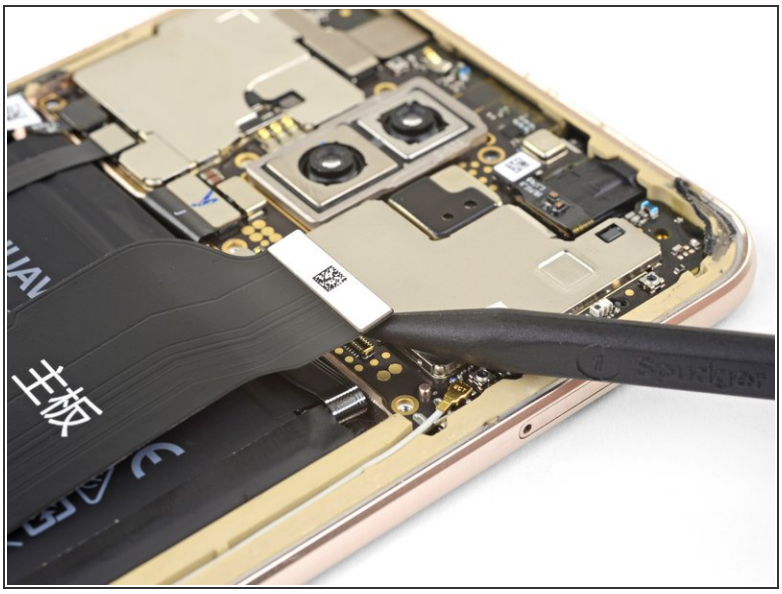
Step 12 — Disconnect the interconnect cable





- Use the point of a spudger to pry up and disconnect the wide interconnect flex cable from its motherboard socket.

To re-attach press connectors like this one, carefully align and press down on one side until it clicks into place, then repeat on the other side. Do not press down on the middle. If the connector is misaligned, the pins can bend, causing permanent damage.

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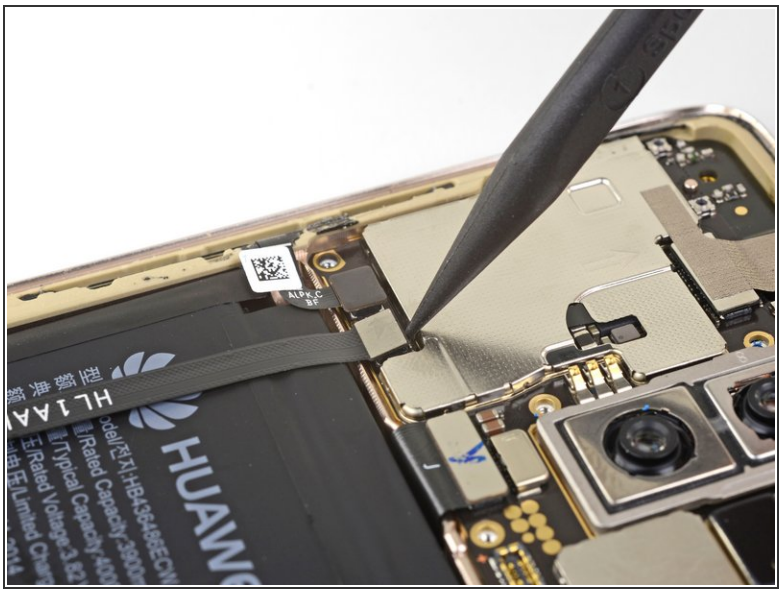
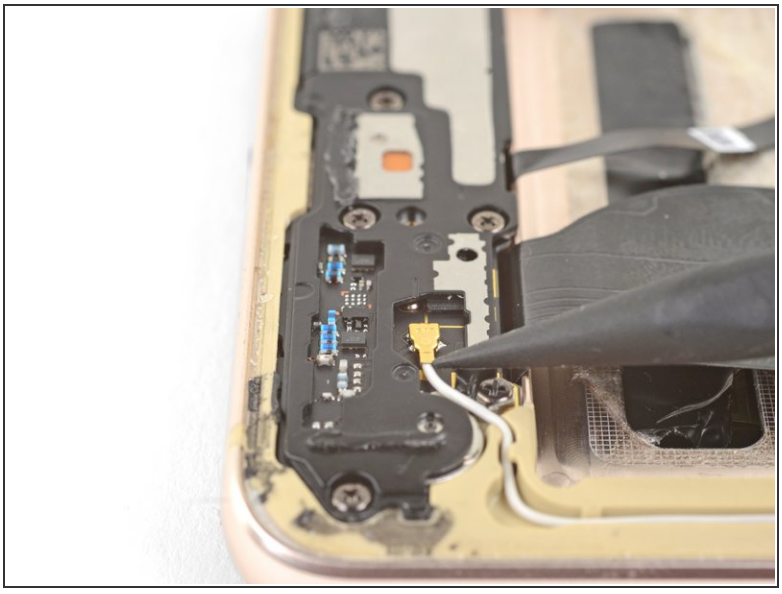
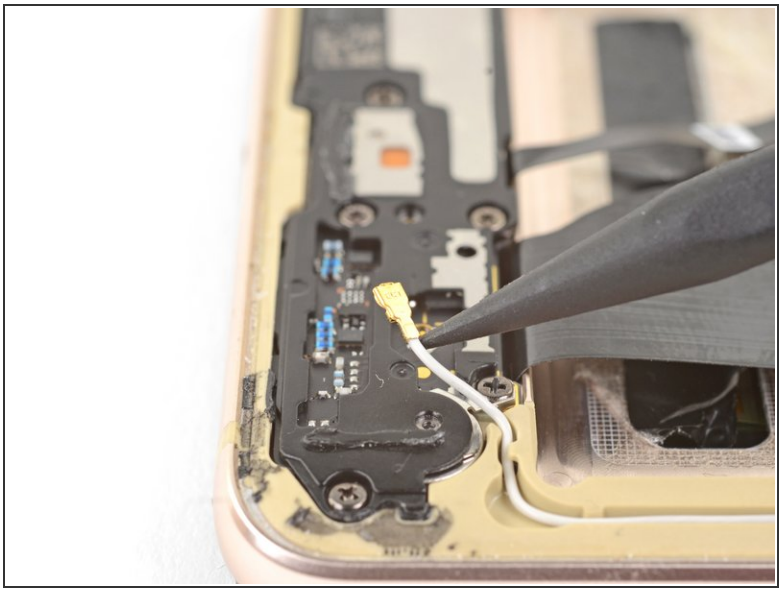
Step 13



- Use the point of a spudger to pry up and disconnect the fingerprint extension cable from its motherboard socket.

Step 14 — Remove the loudspeaker





- Use the point of a spudger to pry up and disconnect the white antenna cable from the bottom of the phone.

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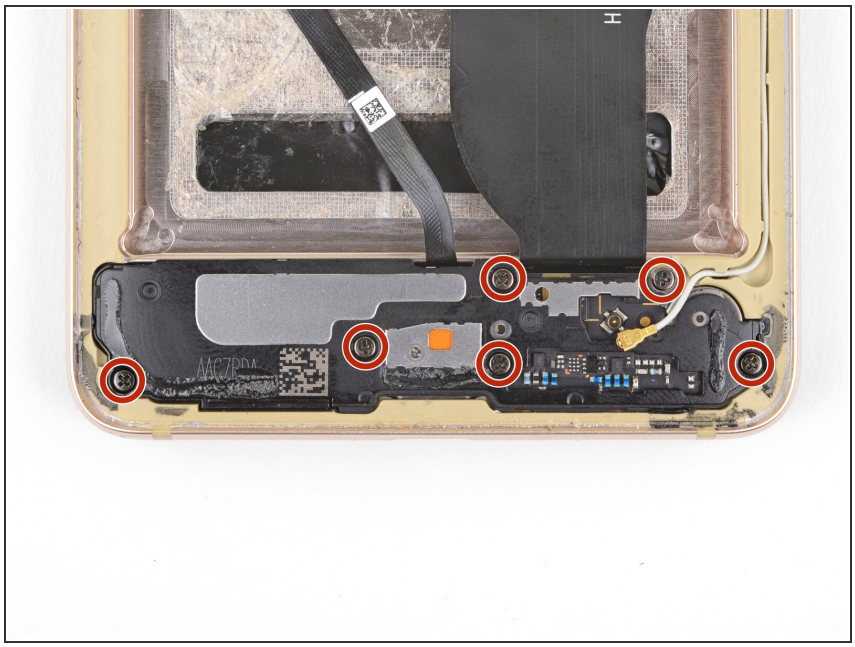
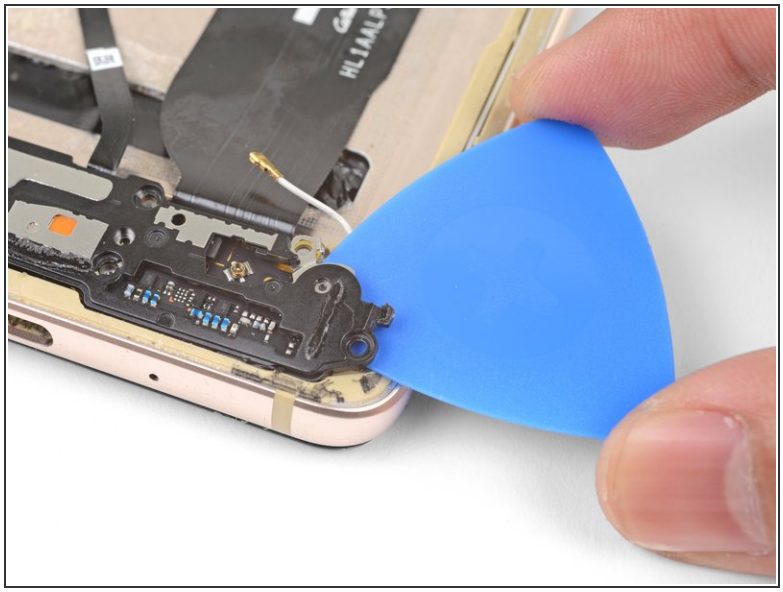
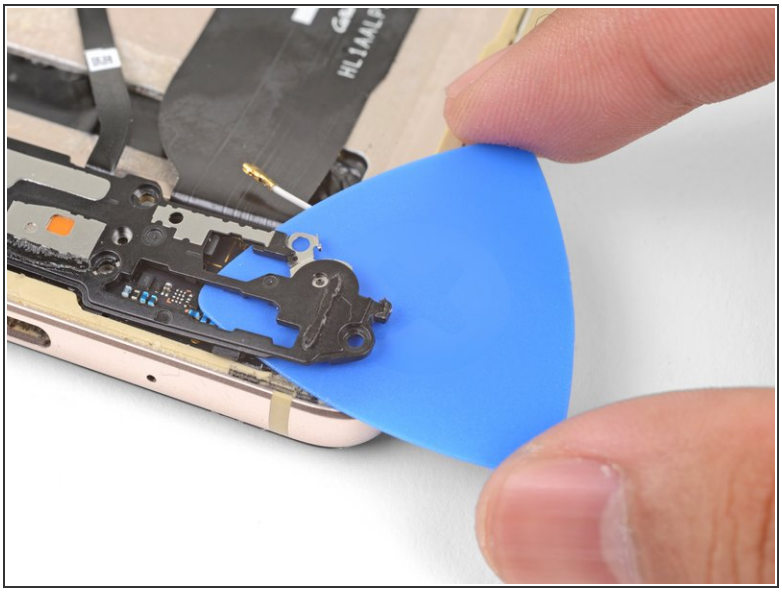
Step 15



- Remove the six 3.4 mm Phillips screws holding the loudspeaker in place.

Step 16





The loudspeaker is still held in place by adhesive and clips.

- Insert an opening pick underneath the right edge of the loudspeaker assembly.
- Carefully slide the opening pick under the right half of the assembly to loosen the clips.

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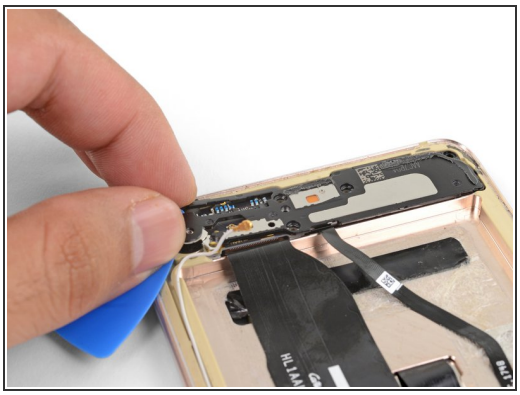
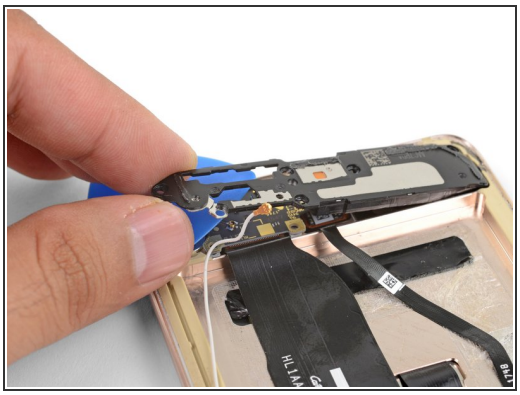
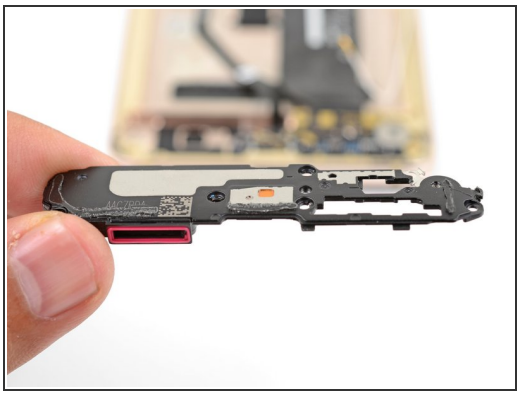
Step 17

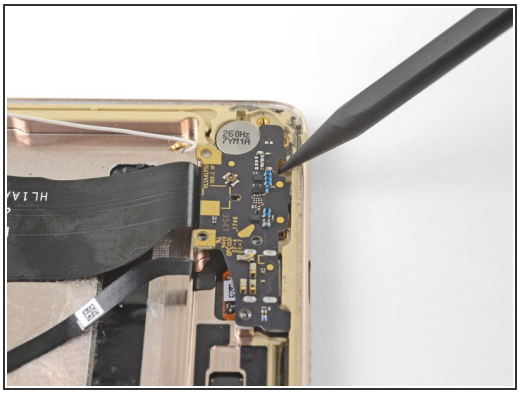
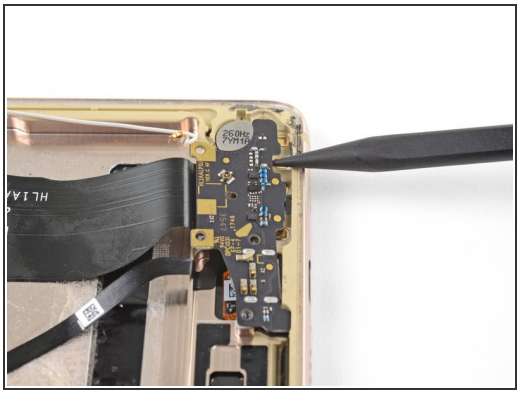
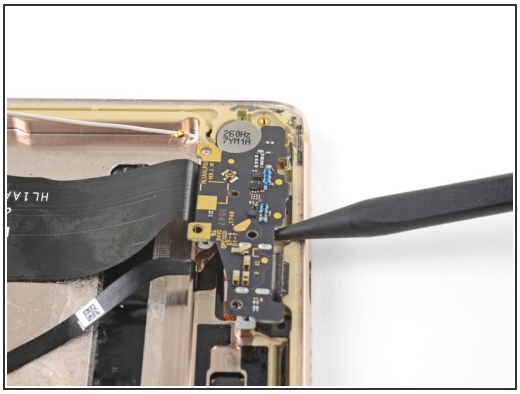




- Grasp the loosened edge of the loudspeaker and gently pull the assembly away from the bottom edge of the phone.

  You may need to wiggle the assembly a little to loosen it from the frame.

- Remove the loudspeaker.

Step 18 — Remove the daughterboard

- Insert the point of a spudger in one of the notches along the bottom edge of the daughterboard.
- Push the daughterboard away from the bottom of the phone to loosen the board.
- Repeat the process with a second notch to fully release the daughterboard.

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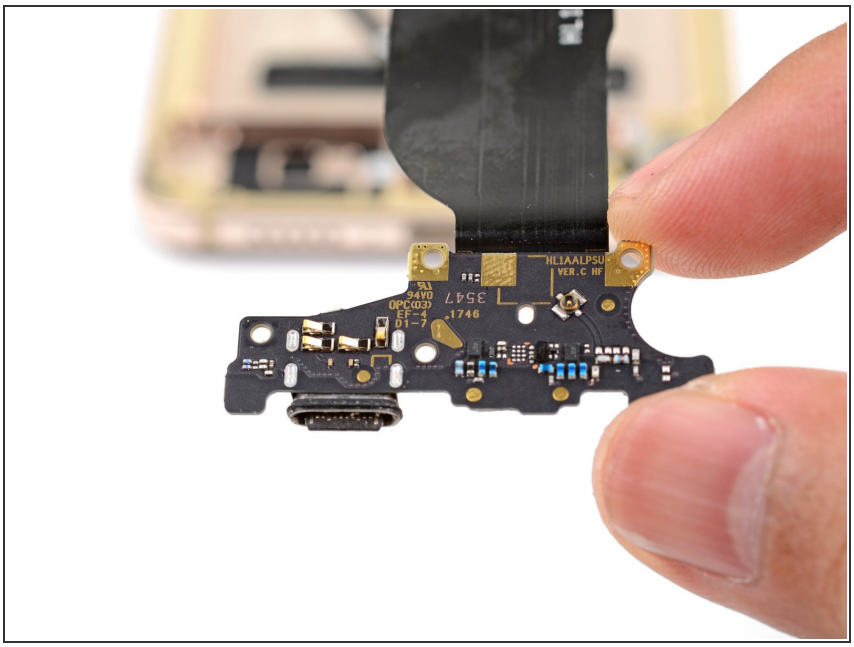
Step 19



- Remove the daughterboard.

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

Repair didn't go as planned? Try some basic troubleshooting, or ask our Mate 10 Answers community for help.

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