Lenovo ThinkPad T460 LCD Cable Replacement
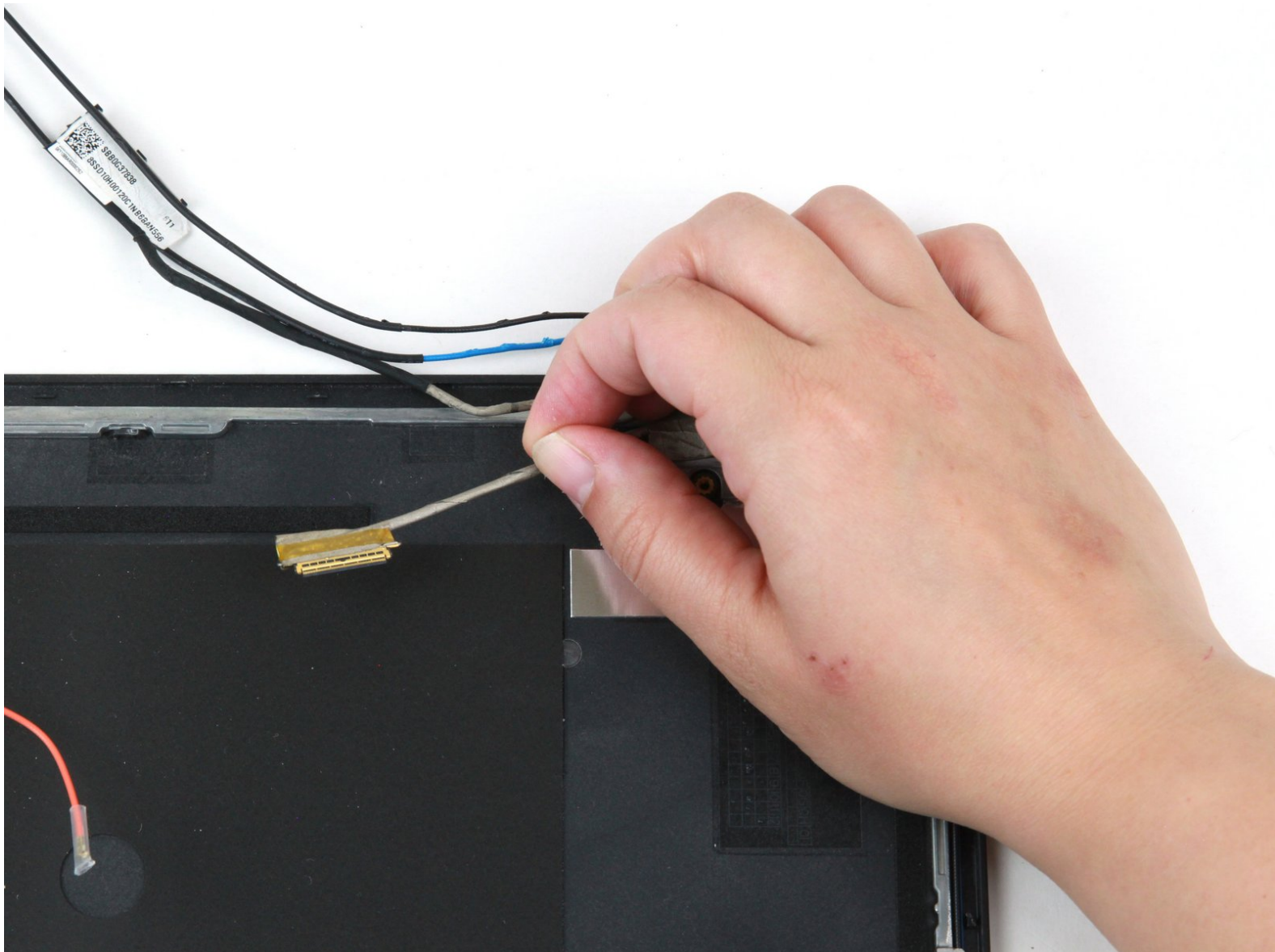
How to replace the LCD cable in your Lenovo ThinkPad T460 laptop.

Written By: Kristen Gismondi

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INTRODUCTION

Use this guide to replace the LCD cable in your Lenovo ThinkPad T460 laptop.

Some signs your LCD cable may be faulty include a blank, black, or flickering screen, no backlight, or horizontal or vertical lines. These symptoms may also indicate that the LCD panel is faulty, rather than the cable itself.

Before attempting a display panel replacement, you may be able to resolve the issue using Lenovo's troubleshooting guide.

Make sure to disable the internal battery, power down your device, and disconnect from any external power sources before you begin.

🔧 TOOLS:

- Spudger (1)
- Phillips #1 Screwdriver (1)
- ESD Safe Tweezers Blunt Nose (1)

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Step 1 — External Battery

⚠ Before you begin this guide, make sure to <u>disable the internal battery</u>, power down your device, and disconnect from any external power sources.

- Place the laptop so that the bottom is facing upwards.

- Slide the latch on the left side of the battery to the left until it clicks in place.

Step 2

- Slide the latch on the right side of the battery to the right and hold it in place with your thumb.

- Use your other hand to slide the battery towards the back of the laptop.

- Lift the battery up and away from the laptop.

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Step 3 — Bottom Cover

- Loosen the eight captive screws in the bottom cover using a Phillips #1 screwdriver.

Step 4

- Insert the flat end of a spudger in between the bottom cover and the rest of the laptop, starting in the lower left corner.

- Pry the lower left corner of the bottom cover up by a few millimeters.

- Slide the spudger along the bottom of the laptop to release the clips until you reach the lower right corner.

- (i) You may hear some snapping noises as the clips are released.

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Step 5

- Slide the spudger along the right and top sides of the bottom cover to release the clips.

- (i) You may hear some snapping noises as the clips are released.

- ⚠ Potential for device damage: If the clips do not release easily, check to ensure that the captive screws are fully loosened. Forcing the clips to detach can crack the bottom cover.
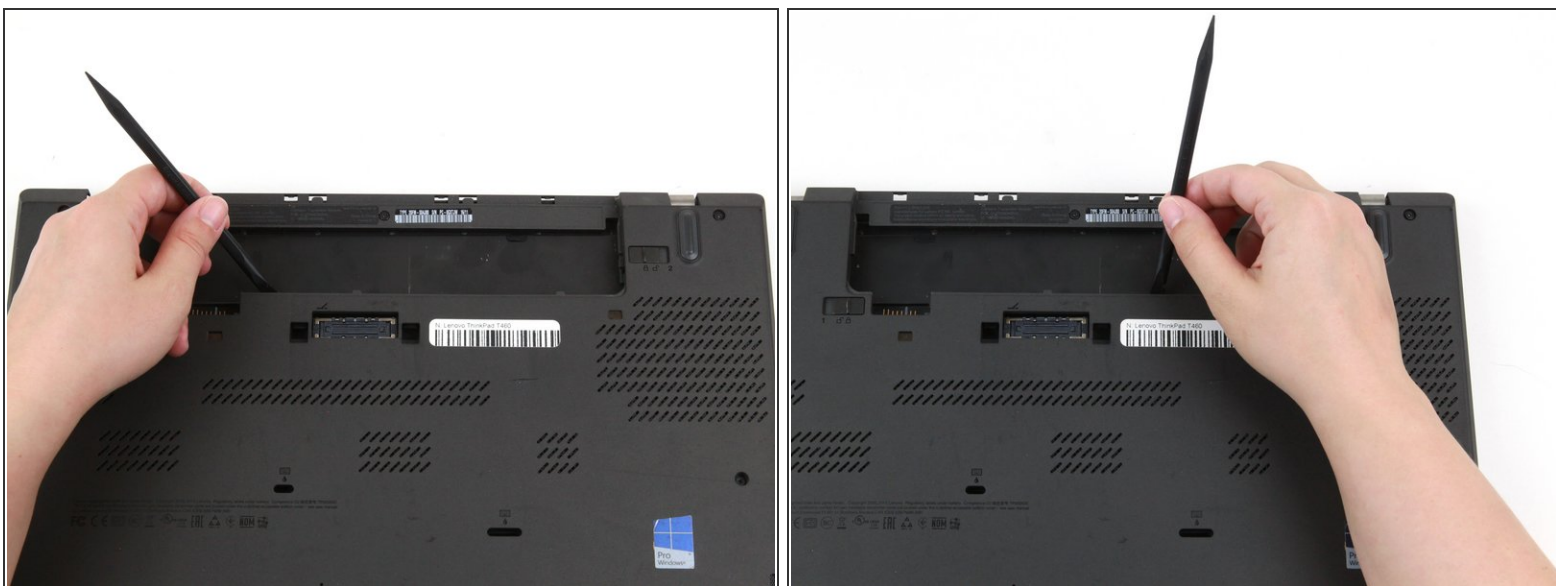
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Step 6

- Use the spudger to pry the upper left corner up by a few millimeters.

- Pry up the sections of the bottom cover with printed logos of the ports.

⚠ Potential for device damage: Prying inside the ports themselves can damage your laptop. Be sure to only pry up on the sections of the cover that extend past the ports.

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Step 7

- Use the spudger to pry up the bottom cover in the lower portion of the external battery compartment by a few millimeters.

Step 8

- Use both hands to lift the bottom cover up and away from the laptop.

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Step 9 — LCD Assembly

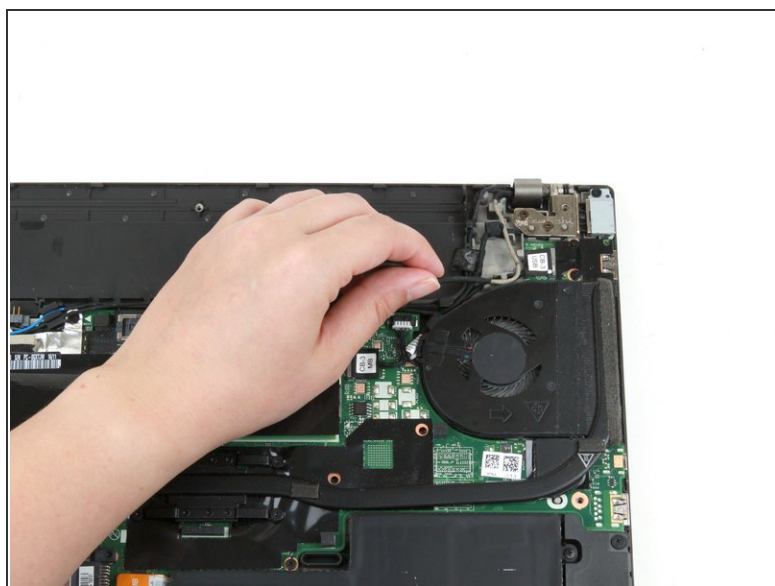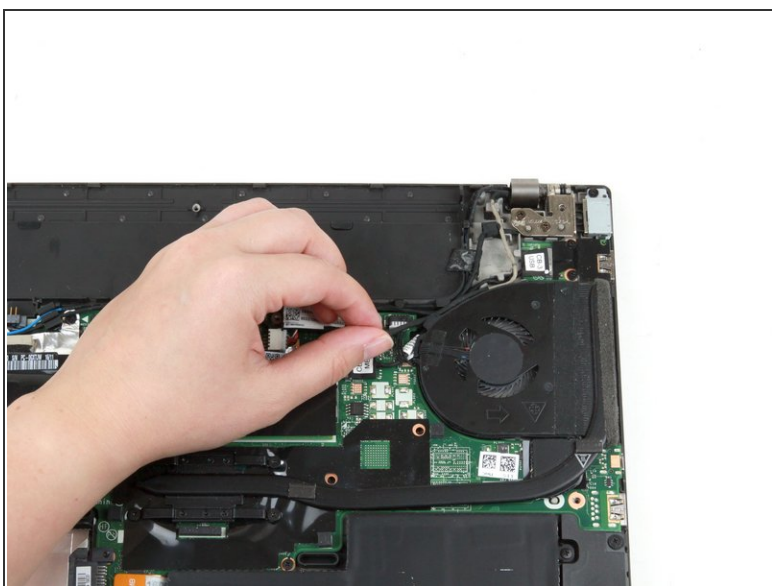- Remove the two 3.7 mm screws from the LCD cable bracket using a Phillips #1 screwdriver.

Step 10

- Use a pair of tweezers to lift the LCD cable bracket away from the motherboard.

Step 11

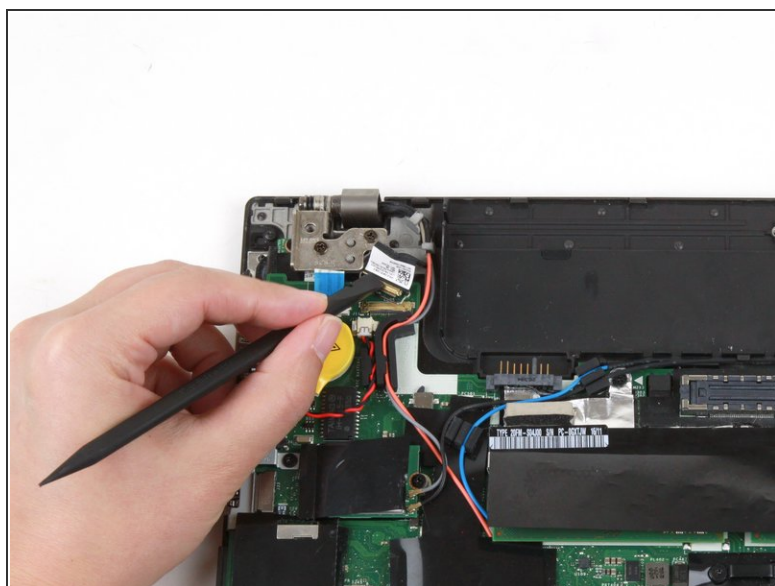- Use the flat end of a spudger to disconnect the [flat-topped](#) LCD cable connector.
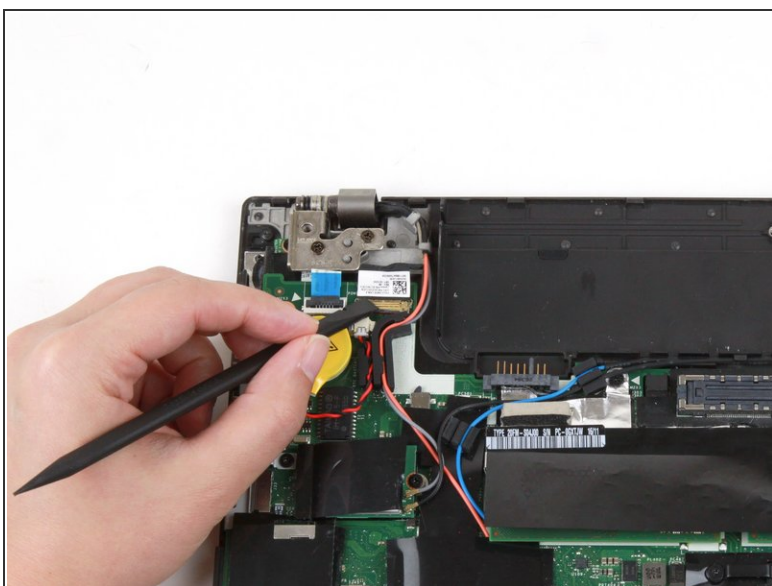
Step 12

- Use your fingers to remove the cable from its slots.

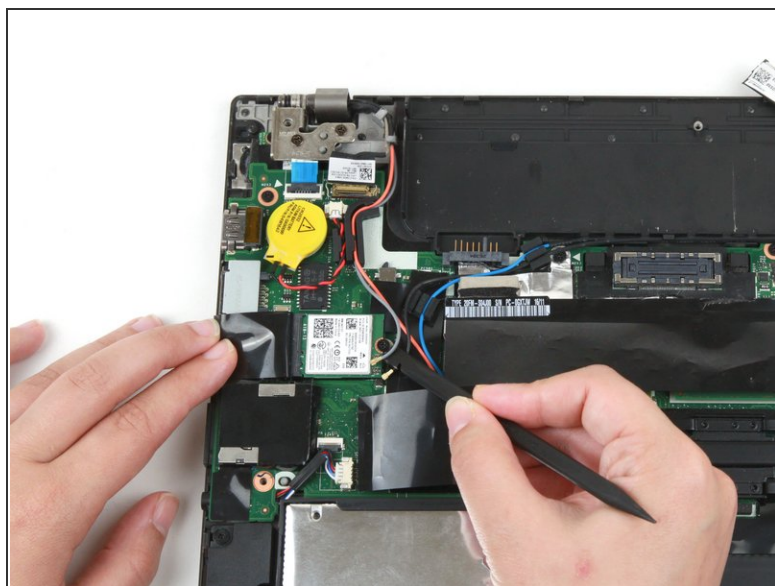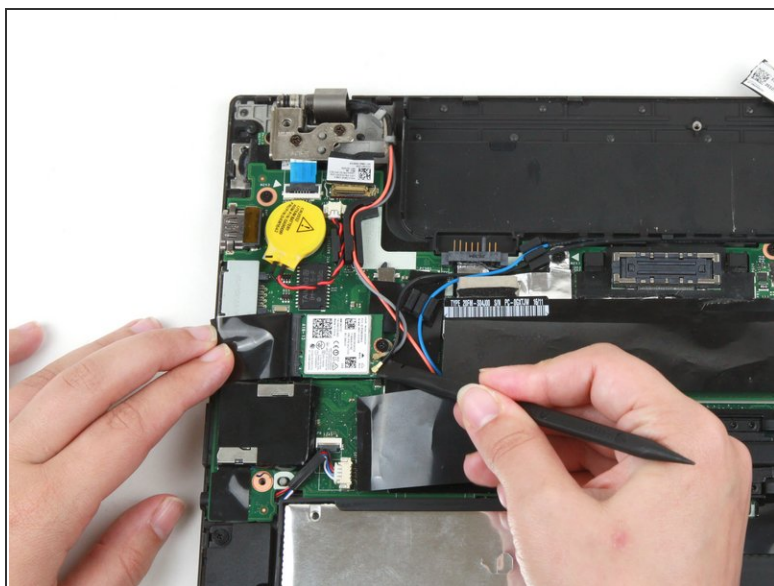This document was generated on 2021-09-02 06:15:20 PM (MST).

Step 13

- Use the pointed end of a spudger to lift up the metal clip on the camera/microphone cable.

Step 14

- Use the flat end of a spudger to detach the camera/microphone cable connector from its socket.
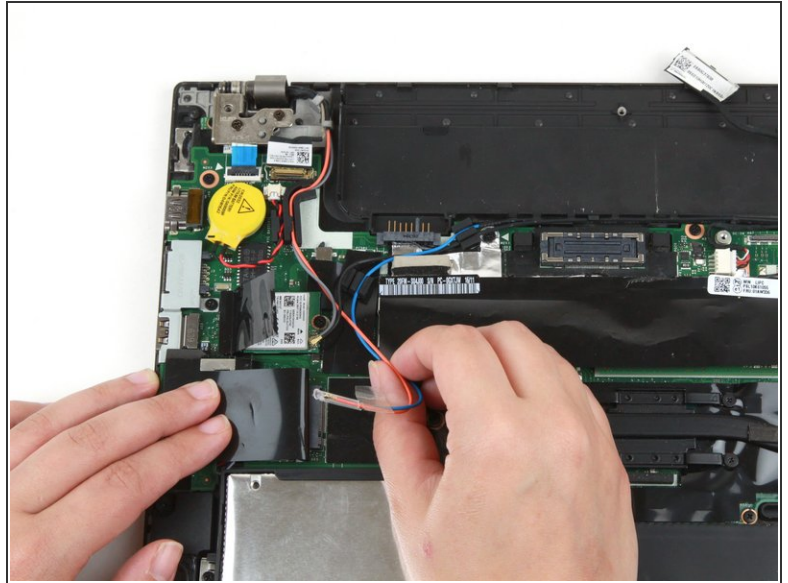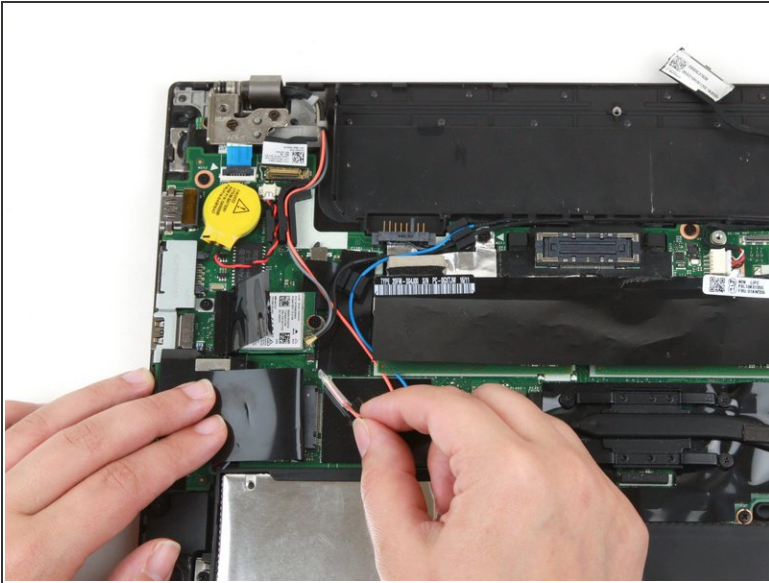
Step 15

- Use the flat end of a spudger to disconnect the black and gray coaxial cables from the Wi-Fi card.
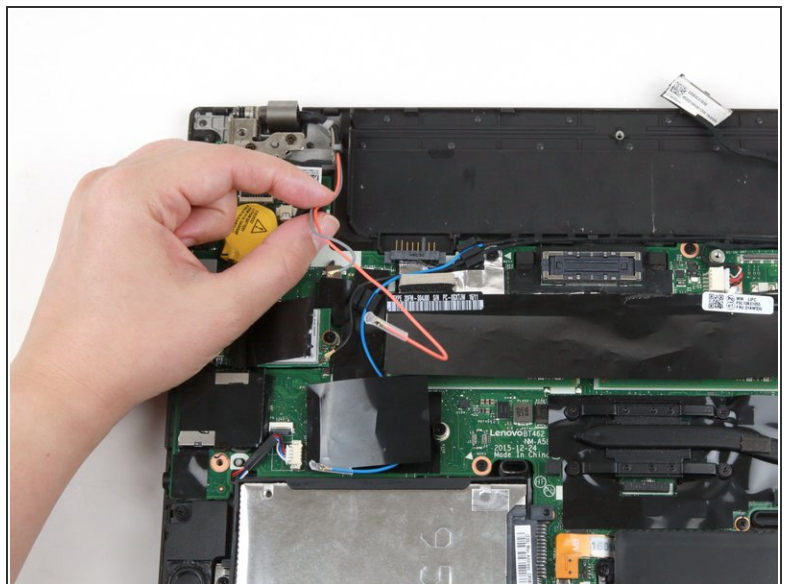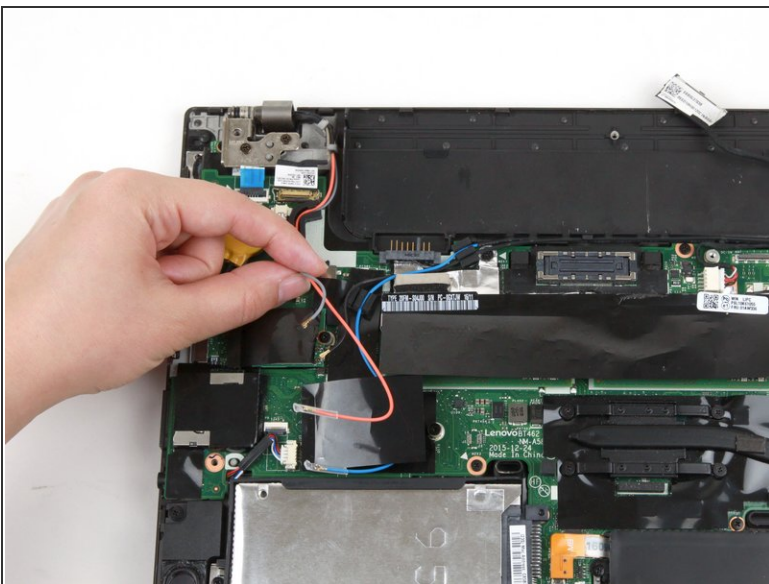
- ⊠ When reassembling, reattach the gray wire on the top and the black wire on the bottom.

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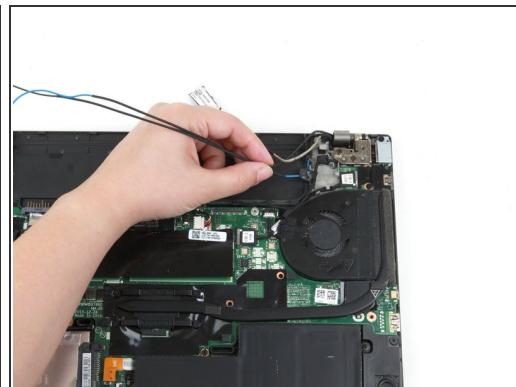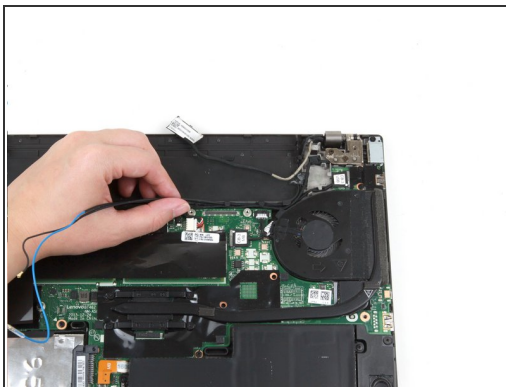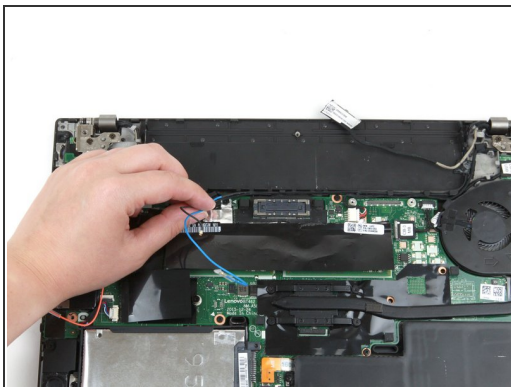
Step 16

- If your laptop has a WWAN card, disconnect the red and blue coaxial cables using the flat end of a spudger.

- If your laptop does not have a WWAN card, remove the tape holding the red and blue coaxial cables in place.
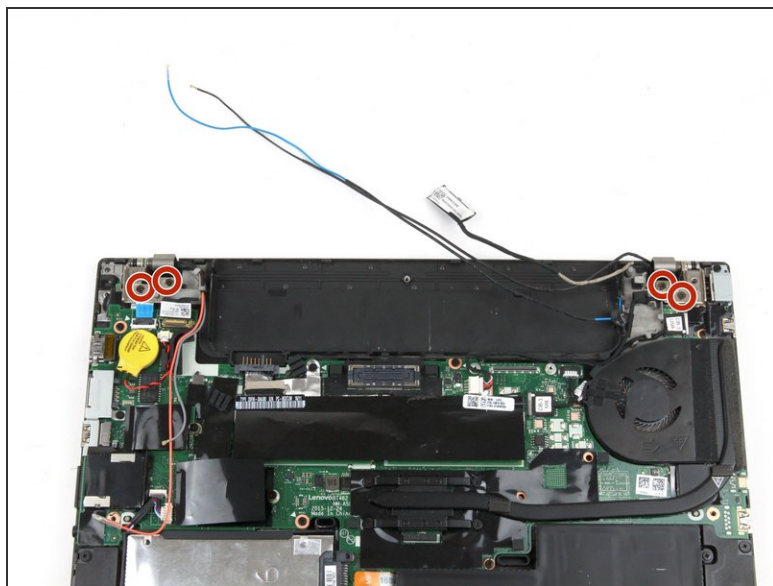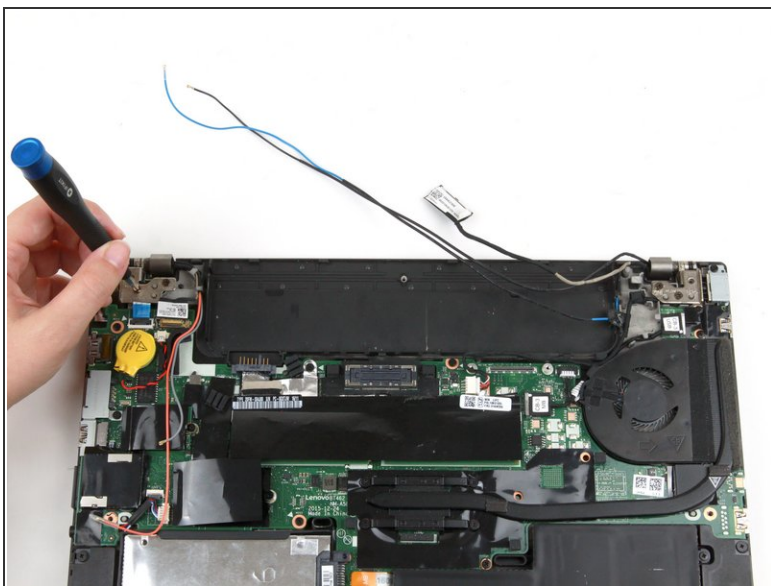
Step 17

- Use your fingers to remove the gray and red coaxial cables from their slots along the motherboard.

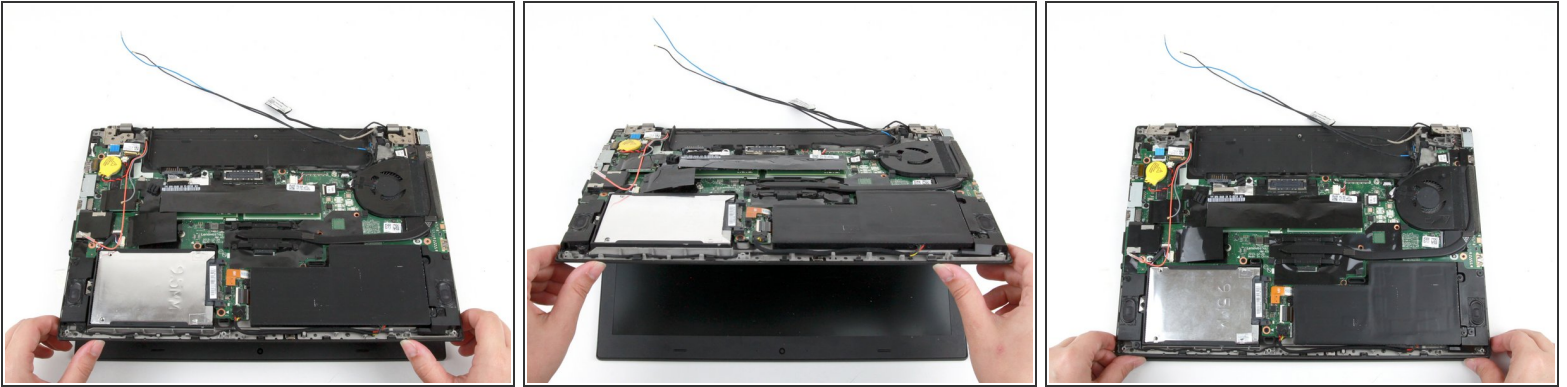This document was generated on 2021-09-02 06:15:20 PM (MST).

Step 18

- Use your fingers to remove the blue and black coaxial cables from their slots along the top of the motherboard.
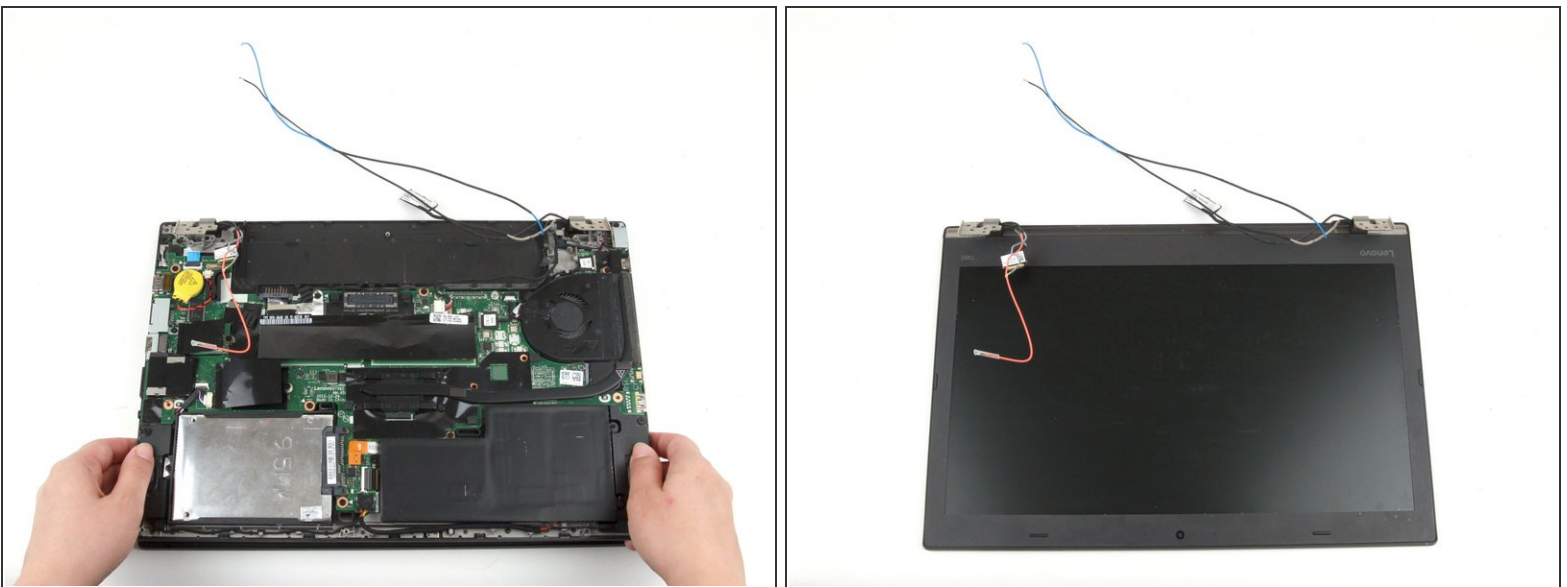
Step 19

- Remove the four 4.7 mm screws from the hinges using a Phillips #1 screwdriver.

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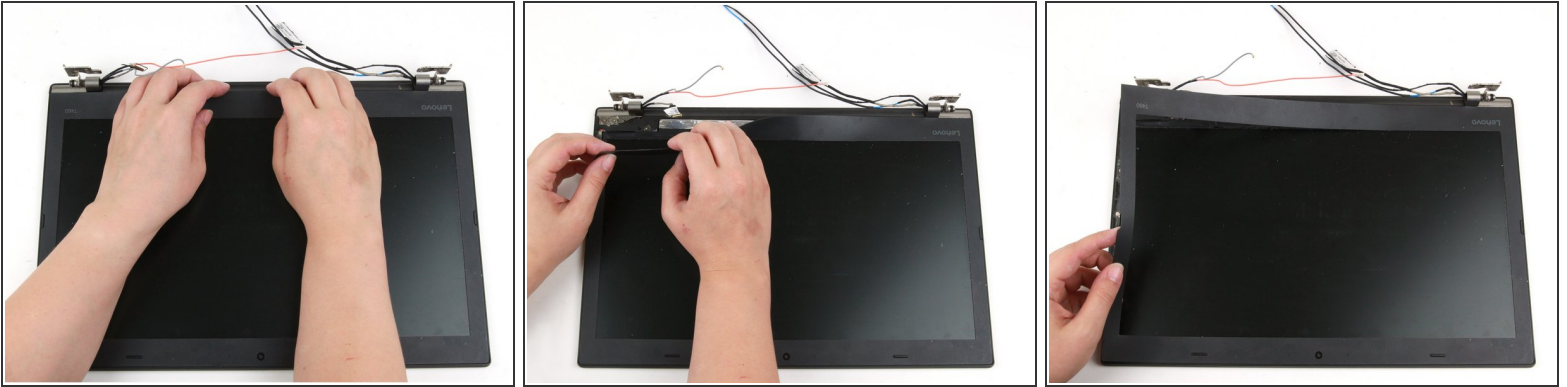
Step 20

- Lift the bottom of the laptop up by a few inches to rotate the two upper hinges.

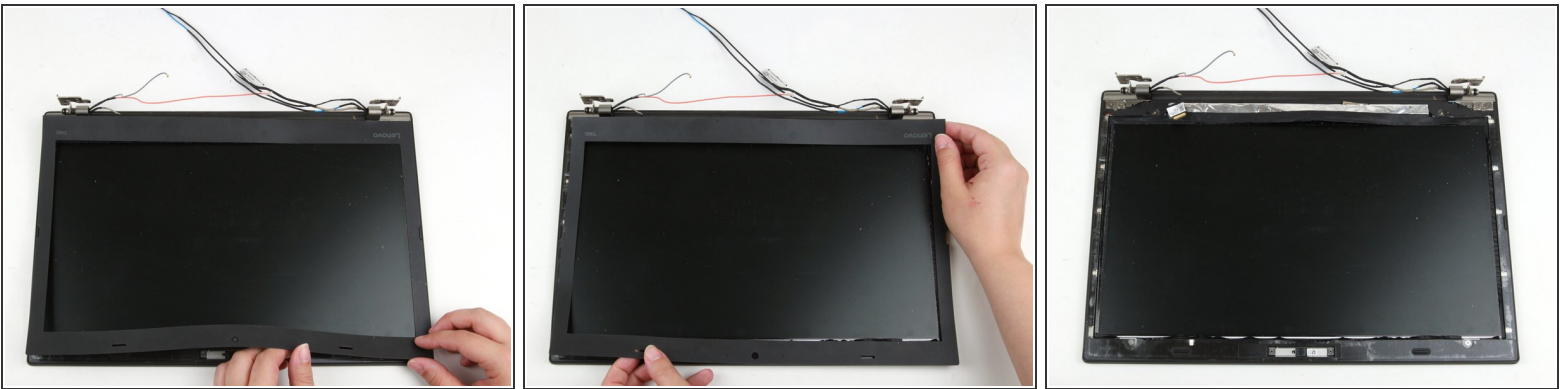- Place the bottom of the laptop back down.

Step 21

- Use both of your hands to lift the bottom of the laptop away from the LCD assembly.
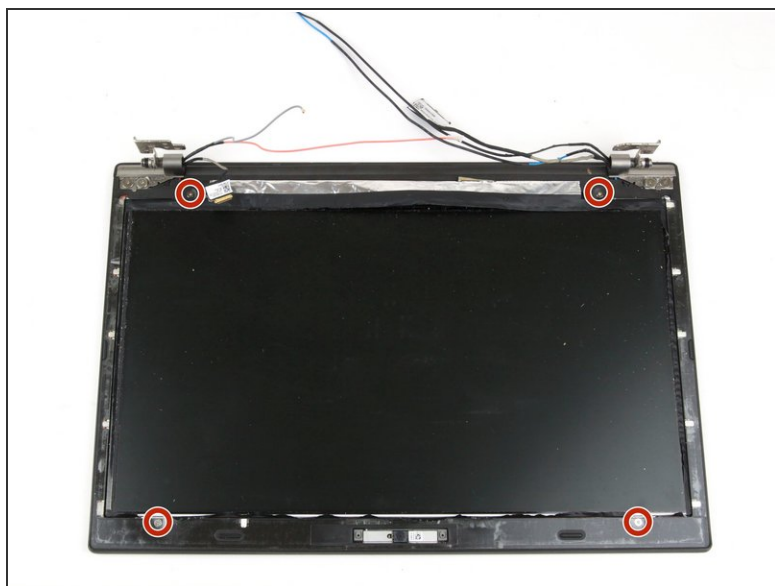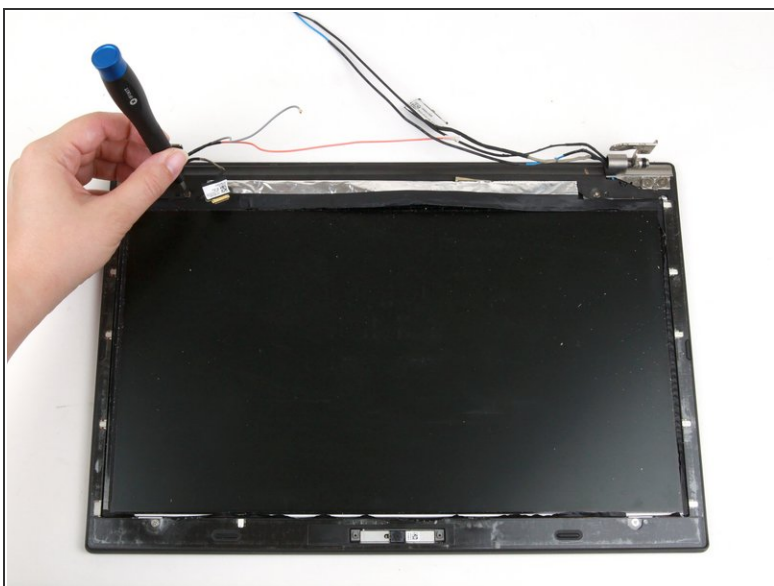
Step 22 — LCD Bezel Assembly

- Use your hands to peel up the thin LCD bezel sheet from the rest of the display, starting in the area between the hinges.

- Use your hands to continue peeling the bezel sheet away from the left side of the laptop.
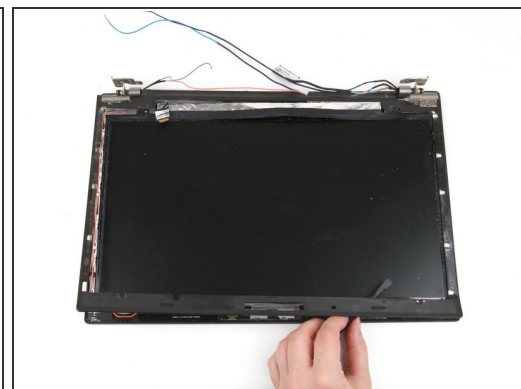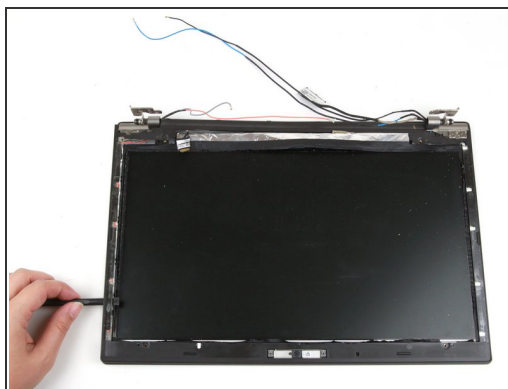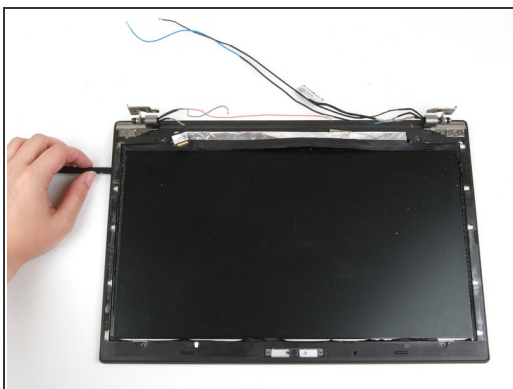
Step 23

- Use your hands to continue peeling the bezel sheet away from the bottom and right sides of the laptop.

- Use both hands to lift the LCD bezel sheet up and away from the laptop.

- 📌 When reassembling, you may have to reapply adhesive beneath the LCD bezel sheet.

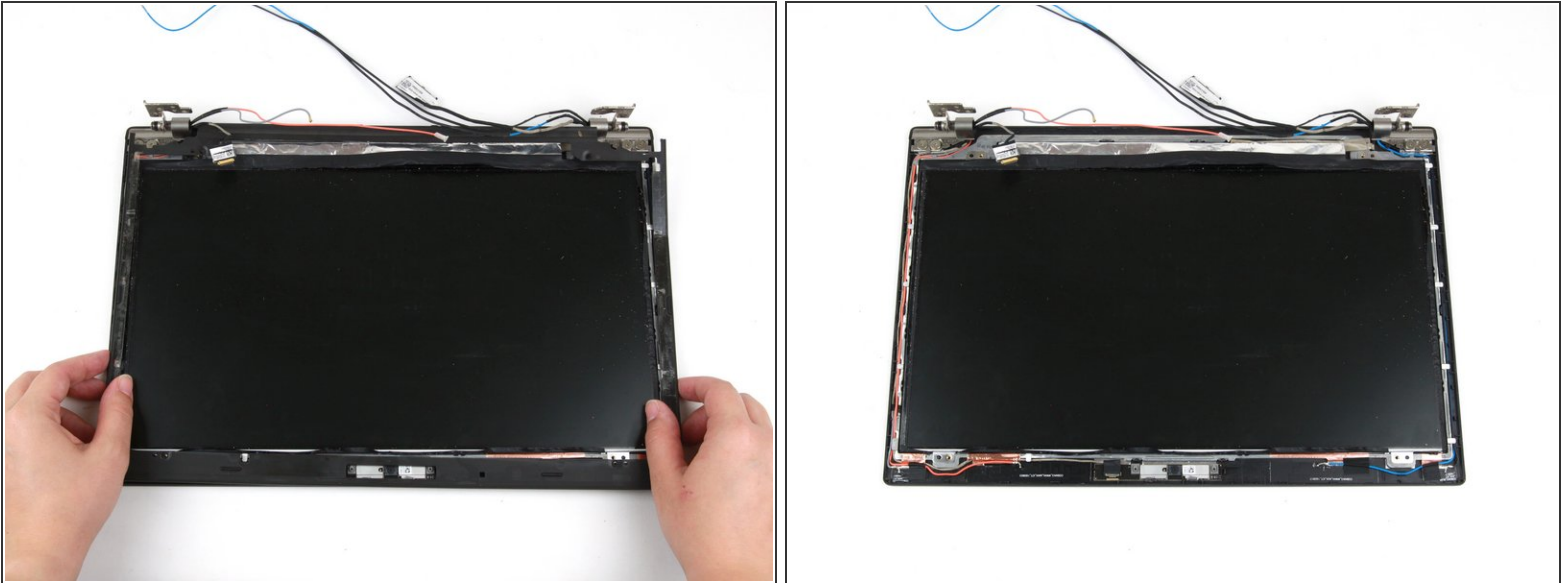This document was generated on 2021-09-02 06:15:20 PM (MST).

Step 24

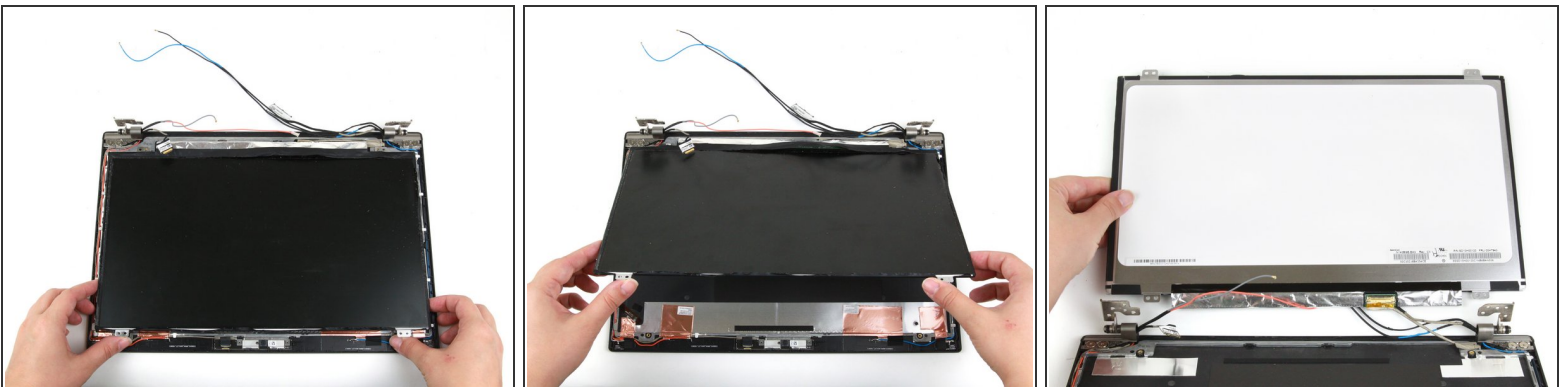- Remove four 3.3 mm screws from the LCD bezel using a Phillips #1 screwdriver.

Step 25

- Use the flat end of a spudger to create a gap between the bezel and the display, starting in the upper left corner.

- Continue to use the spudger around the left side, bottom, and right side of the laptop to detach the clips securing the bezel to the display.

- (i) You may hear loud snaps when detaching the clips; this is normal.

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Step 26

- Use both hands to lift the bezel up and away from the display assembly.
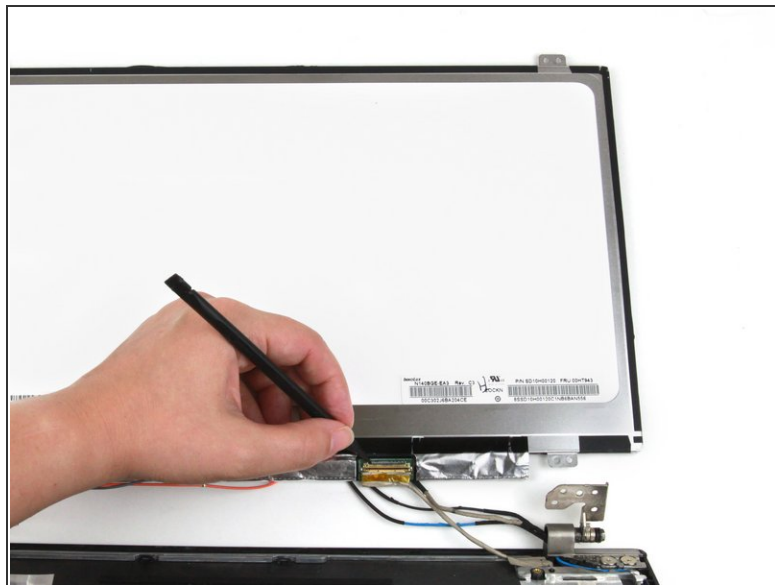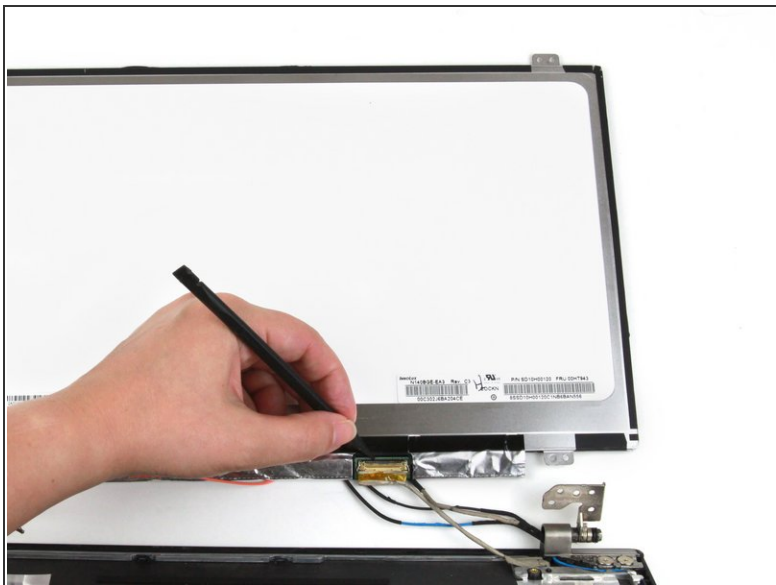
Step 27 — LCD Panel

- Use both hands to lift the bottom corners of the display panel

- Gently flip the display panel over.

⚠ Potential for device damage: The display cable is still connecting the display panel to the rest of the display assembly, so be sure to flip the display panel over with caution.

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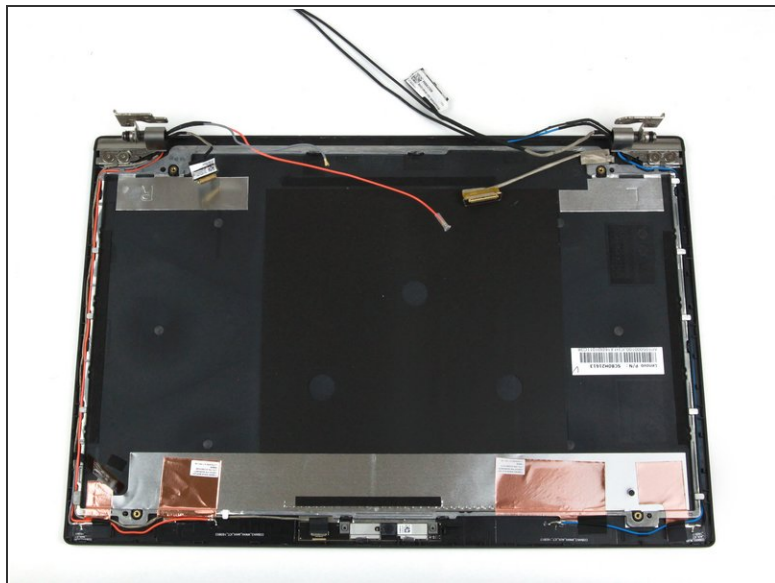
Step 28

- Use the pointed end of a spudger to flip up the metal bar securing the connector.

Step 29

- Use the flat end of a spudger to disconnect the display cable from its socket.

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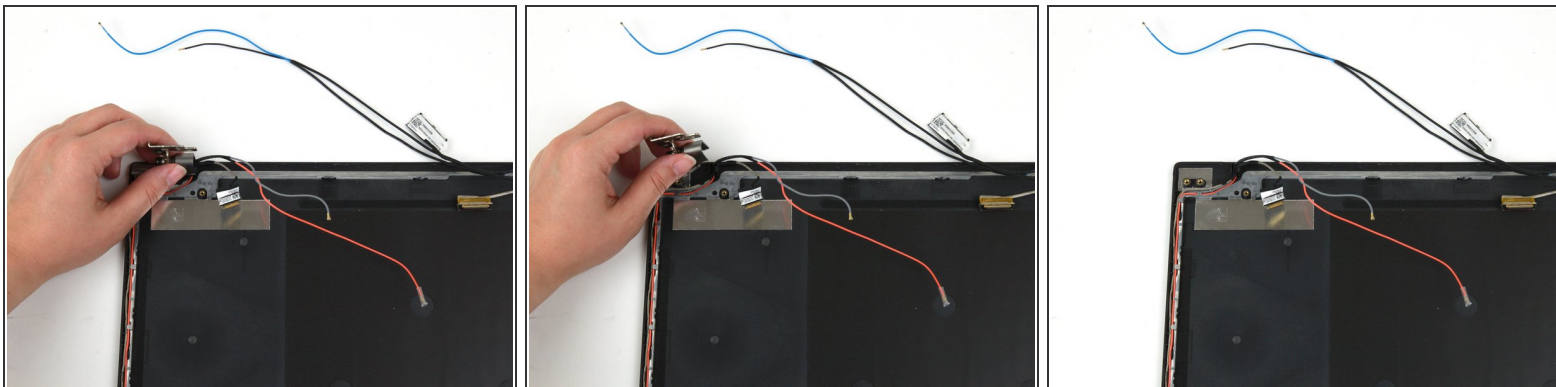
Step 30

- Use your hands to remove the display panel from the rest of the display assembly.

Step 31 — Hinges

- Remove the four 3.2 mm hinge screws using a Phillips #1 screwdriver.

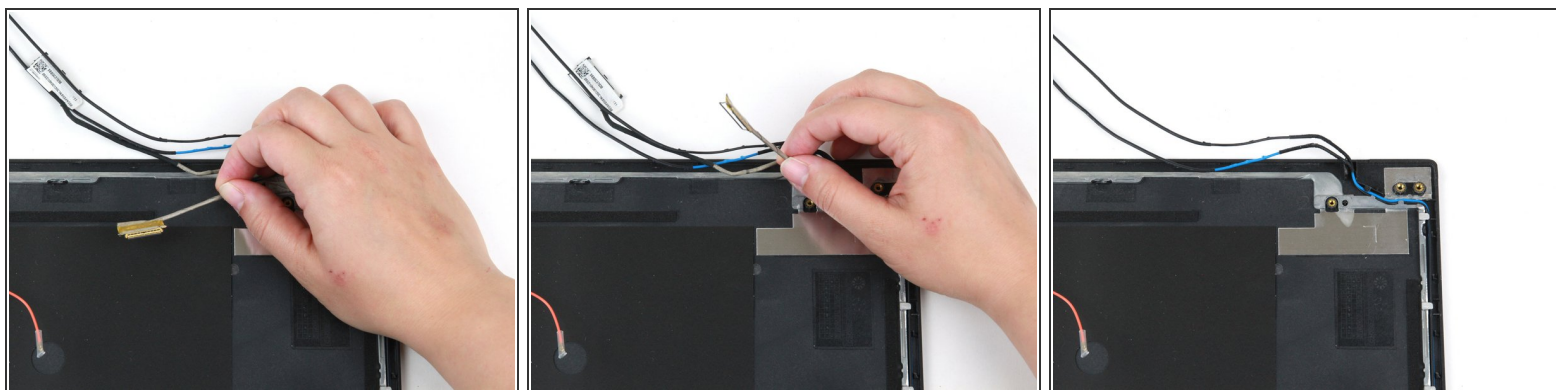This document was generated on 2021-09-02 06:15:20 PM (MST).

Step 32

- Use your fingers to lift the hinge in the upper left corner up and away from the laptop.

Step 33

- Use your fingers to lift the hinge in the upper right corner up and away from the laptop.

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Step 34 — LCD Cable

- Use your fingers to lift the gray LCD cable up and away from the laptop.

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 Answers community for help.