

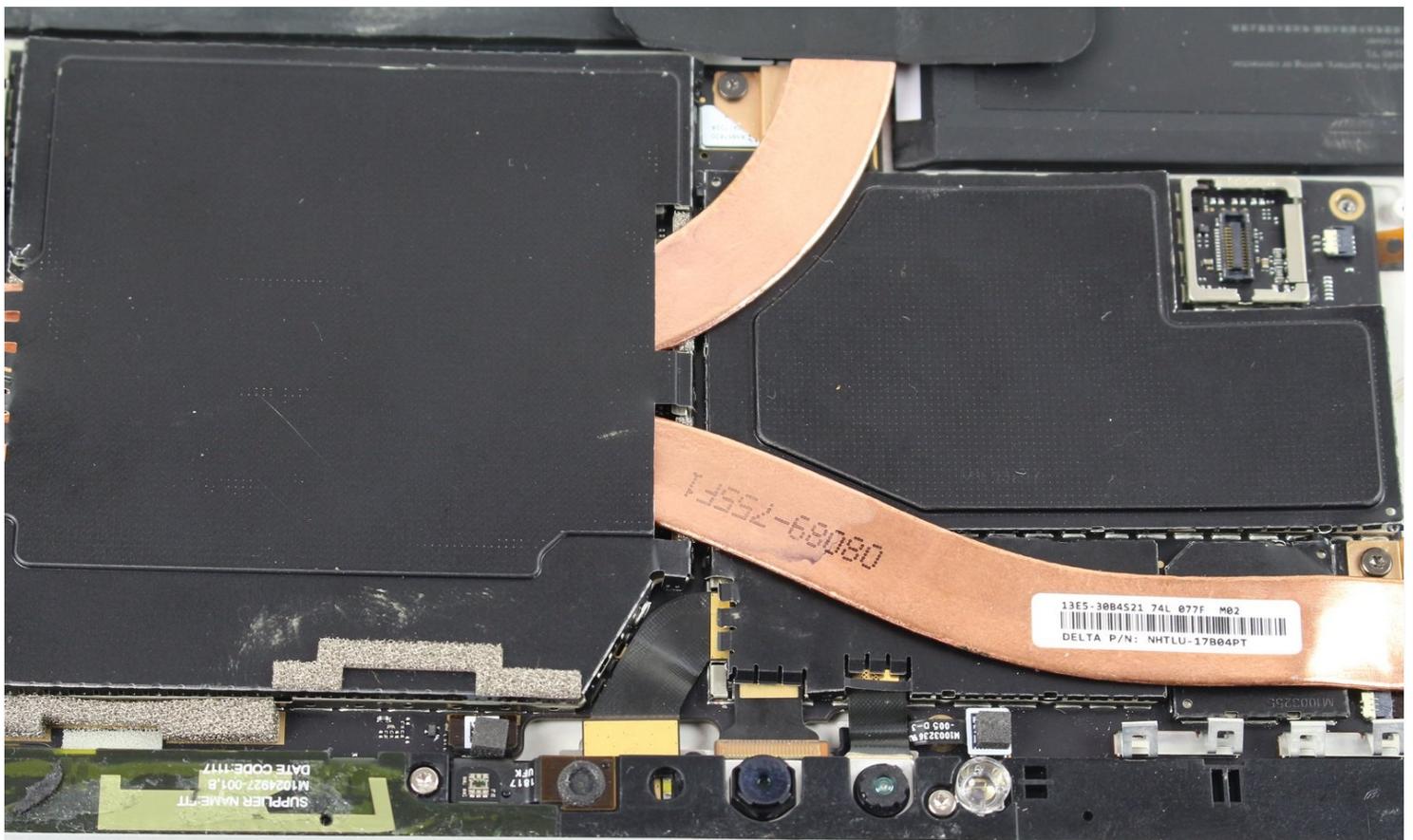


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# Microsoft Surface Pro 5 Front and Rear Camera Replacement

This guide will go over how to replace the...

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# INTRODUCTION

This guide will go over how to replace the cameras on the Microsoft Surface Pro 5, also known as the Microsoft Surface Pro (2017). The Microsoft Surface Pro 5 has two cameras: one front facing and one rear facing. Both are located underneath the black tie bar. The iOpener is used in this guide, but a hair dryer or heat gun could also be used. See instructions for the iOpener [here](#).

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## TOOLS:

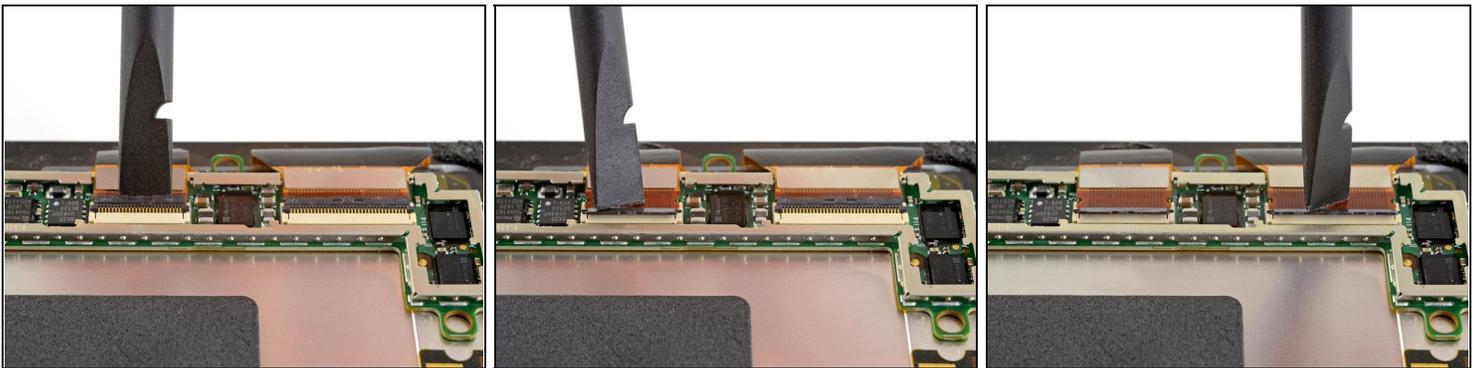
[Tesa 61395 Double-Sided Tape](#) (1)  
[Microfiber Cleaning Cloths](#) (1)  
[Isopropyl Alcohol](#) (1)  
[Tweezers](#) (1)  
[iOpener](#) (1)  
[iFixit Opening Picks \(Set of 6\)](#) (1)  
[iFixit Opening Tool](#) (1)  
[T5 Torx Screwdriver](#) (1)  
[T4 Torx Screwdriver](#) (1)  
[Spudger](#) (1)  
[Suction Handle](#) (1)  
[Heat Gun](#) (1)

## PARTS:

[Surface Pro 5/6 Adhesive Strips](#) (1)

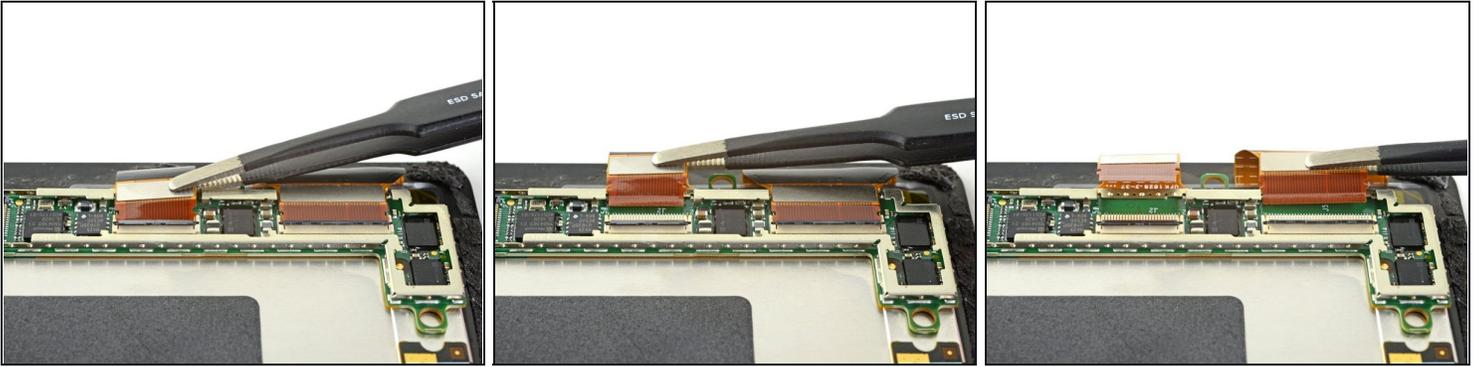
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## Step 1 — Disconnect the display board



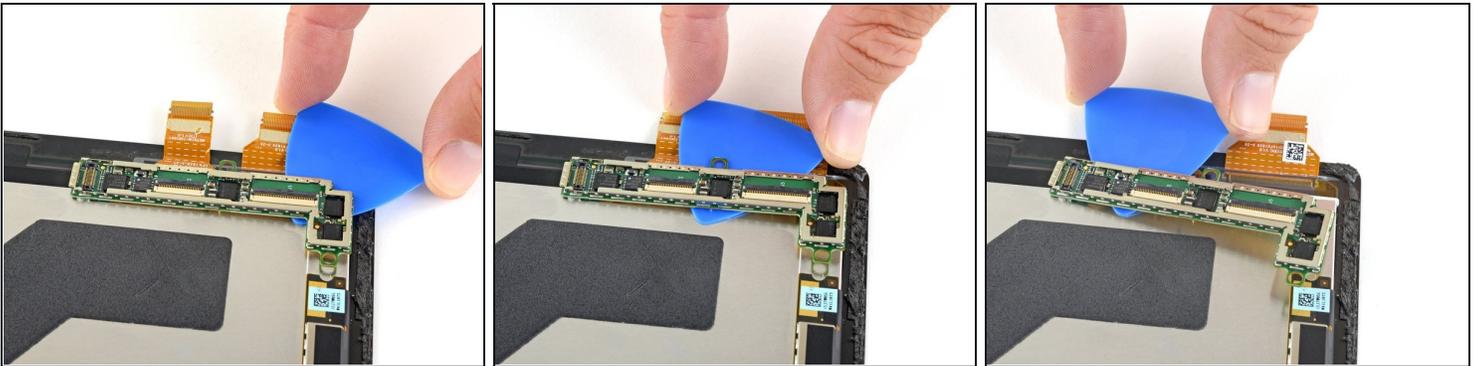
- Use a spudger to flip up the small locking flaps on the display cable ZIF connectors.

## Step 2



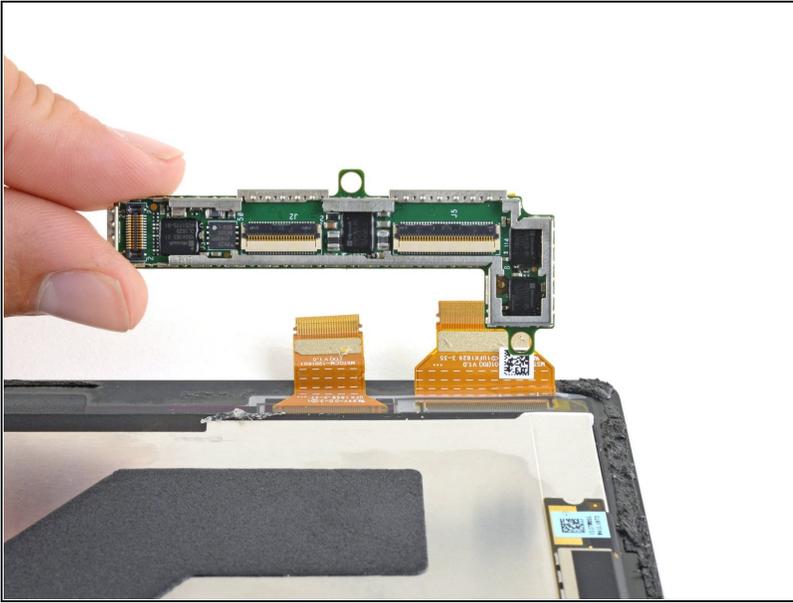
- Use tweezers to slide the display cables straight out of their sockets on the display board.

## Step 3 — Remove the display board



- Slide an opening pick under the display board to separate the adhesive holding it onto the back of the screen.

## Step 4



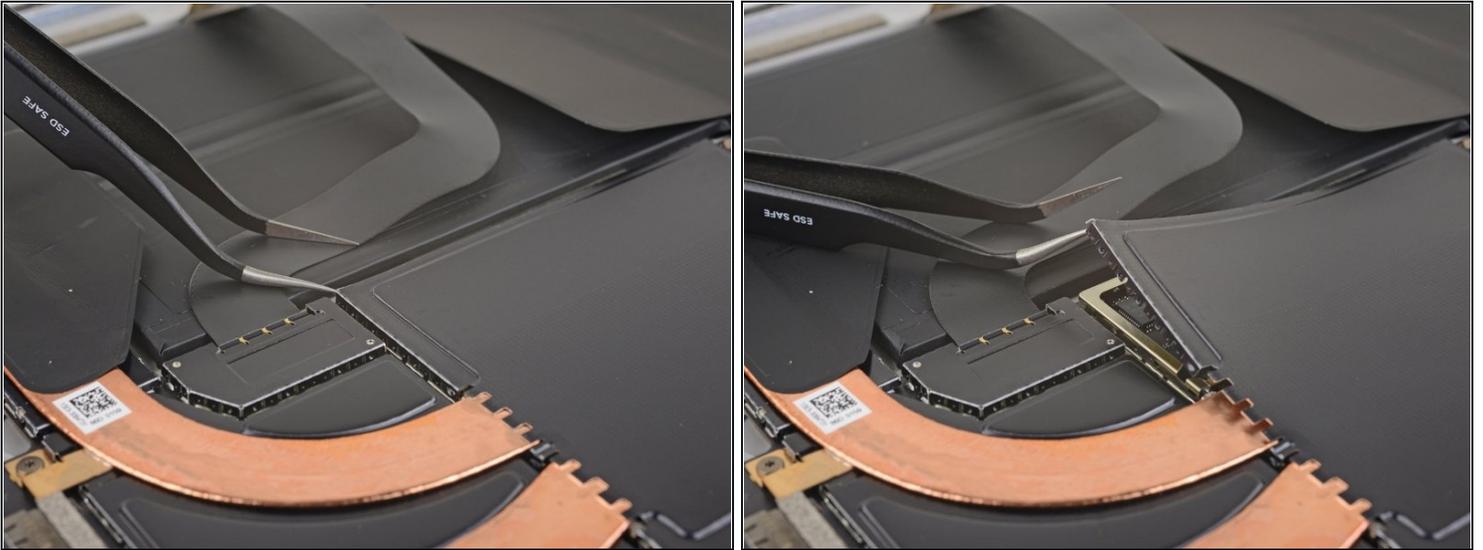
- Remove the display board.
- ☑ During reassembly, use a strong double-sided tape or a [precut adhesive card](#) to secure the display board. Clean off the old adhesive before applying new adhesive.
- To ensure correct positioning, plug in both display connectors before adhering the board to the display.

## Step 5



- Only the screen remains.

## Step 6 — Remove the heat sink shield

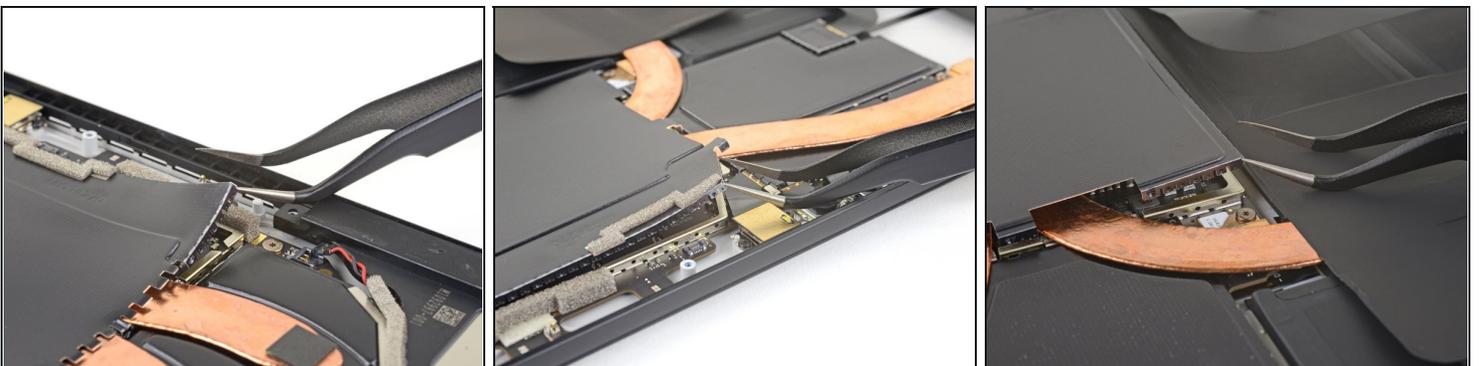


- Insert one point of a pair of pointed tweezers into a gap in the corner of the EMI shield covering the heat sink.
- Use the tweezers to pry the EMI shield away from the motherboard as much as you can without bending it. Do not remove it yet.

⚠ Try not to deform the shield too much—you will need to reinstall it during reassembly.

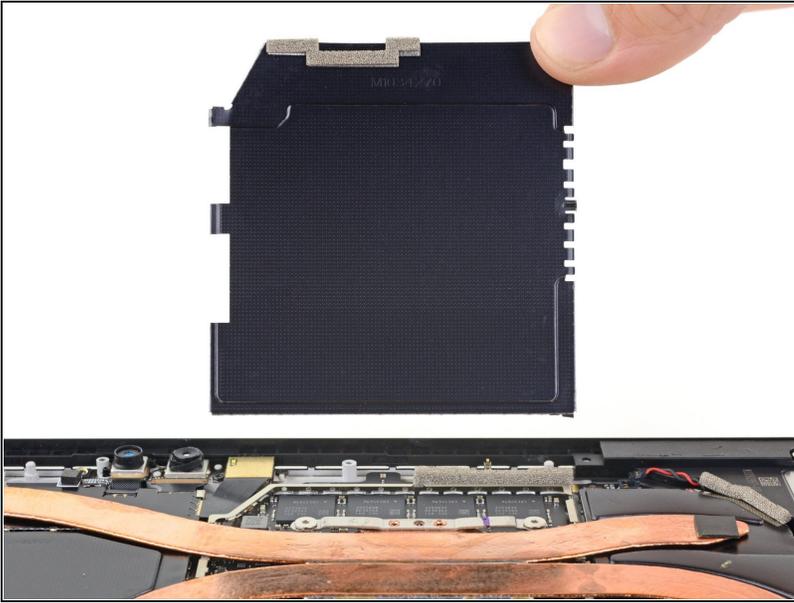
⚠ Take care not to puncture the battery with the tweezers while working on this shield.

## Step 7



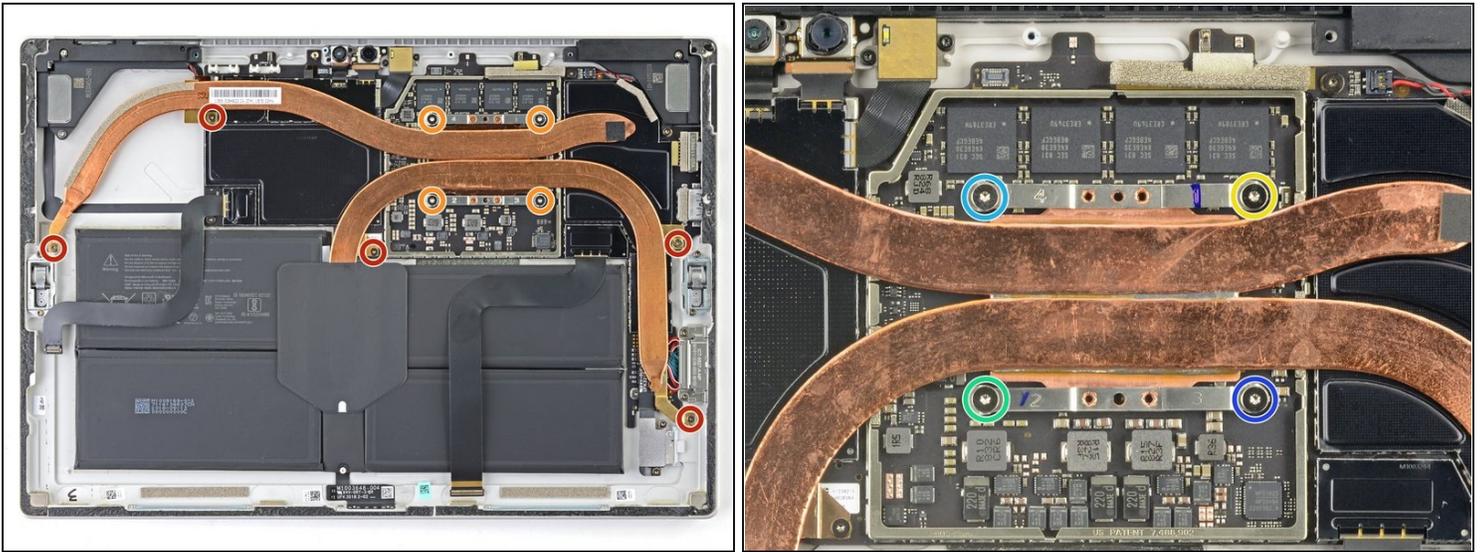
- Repeat the last step for each corner of the EMI shield covering the heat sink.

## Step 8



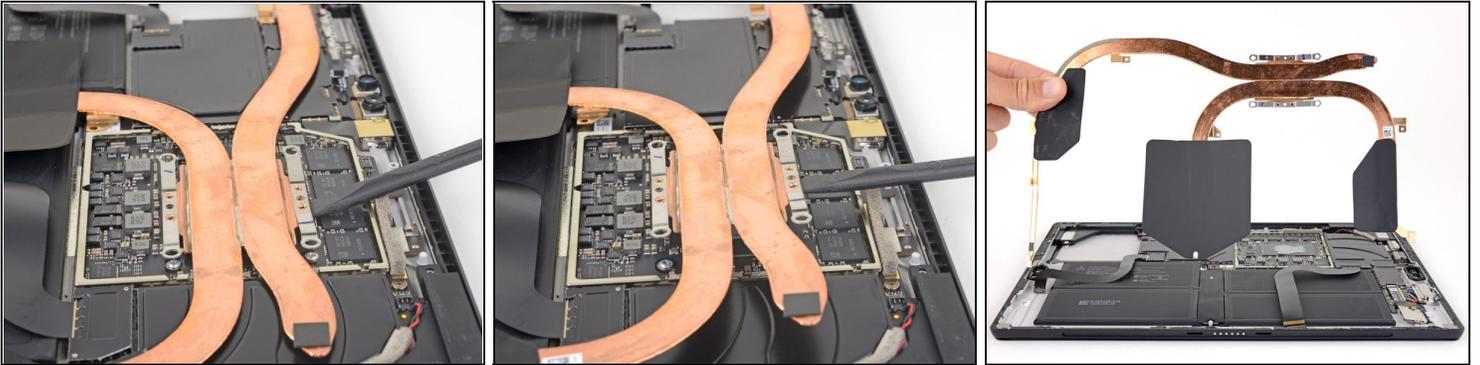
- Remove the heat sink shield.

## Step 9 — Remove the heat sink



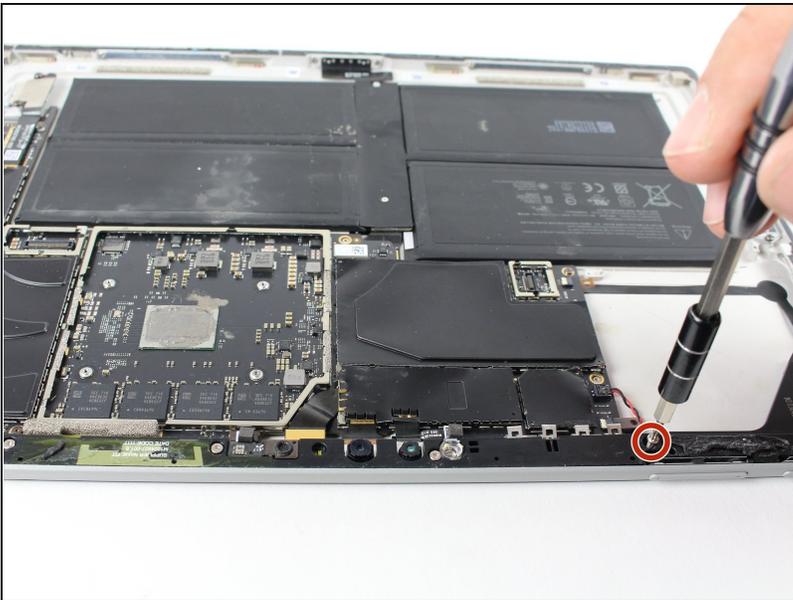
- Remove the ten Torx screws securing the heat sink:
  - Five 2.6 mm-long T3 screws
  - Four 3.3 mm-long T5 screws
- ☑ During reassembly, tighten the heat sink screws in the following criss-cross pattern, one turn at a time, until they're tight:
  - Screw 1
  - Screw 2
  - Screw 3
  - Screw 4

## Step 10



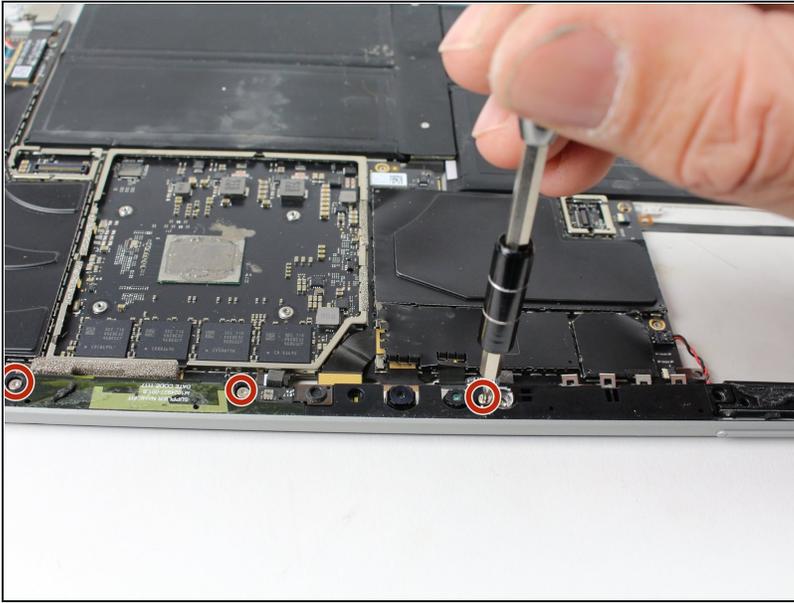
- Use the flat end of a spudger to gently pry the heat sink straight up and off of the CPU.  
⚠ Take care not to dent or crease the heat sink pipes during removal.
- ☑ During reassembly, make sure to [properly clean the heat sink and CPU, and apply new thermal paste.](#)

## Step 11 — Camera Tie Bar



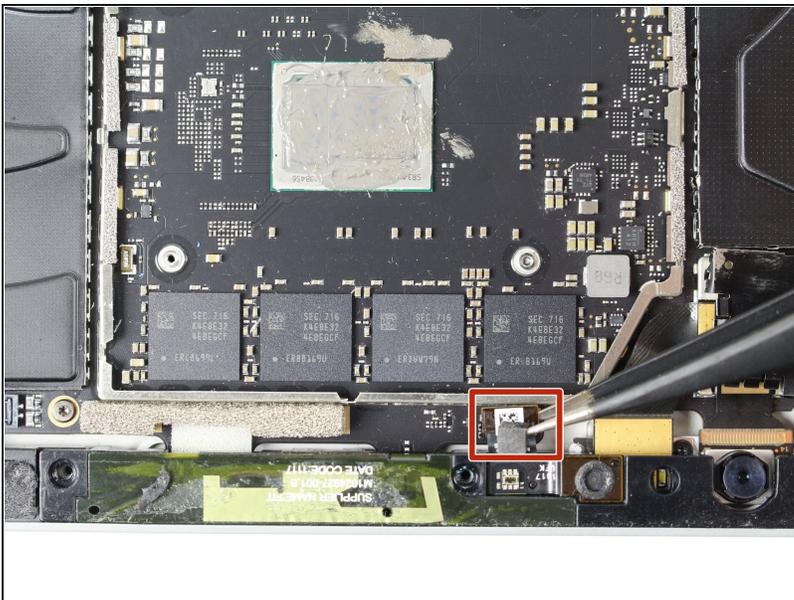
- Remove the Torx T5 x 6mm screw connecting the black tie bar to the power button/volume control/speaker assembly.

## Step 12



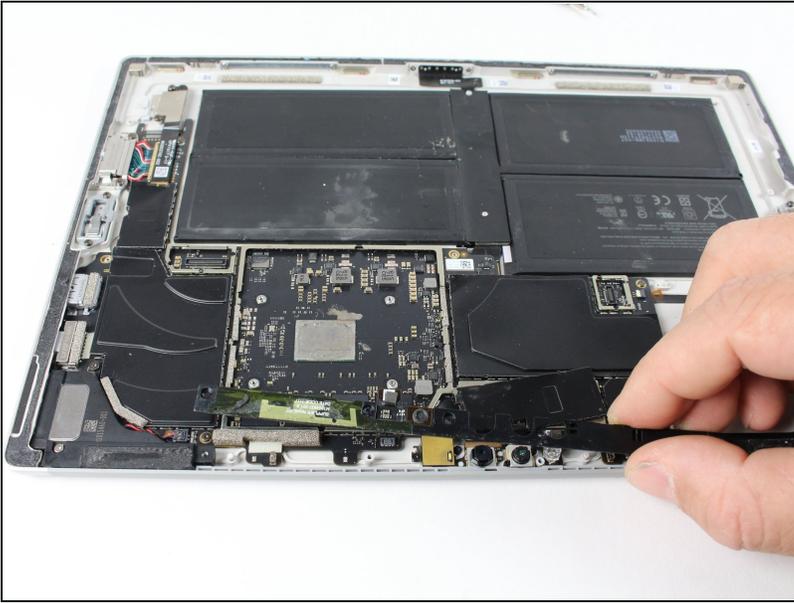
- Remove the remaining three Torx T5 x 4.5mm screws holding down the camera tie bar.

## Step 13



- Disconnect the small ribbon cable connecting the camera tie bar to the motherboard by pulling up with tweezers.

## Step 14



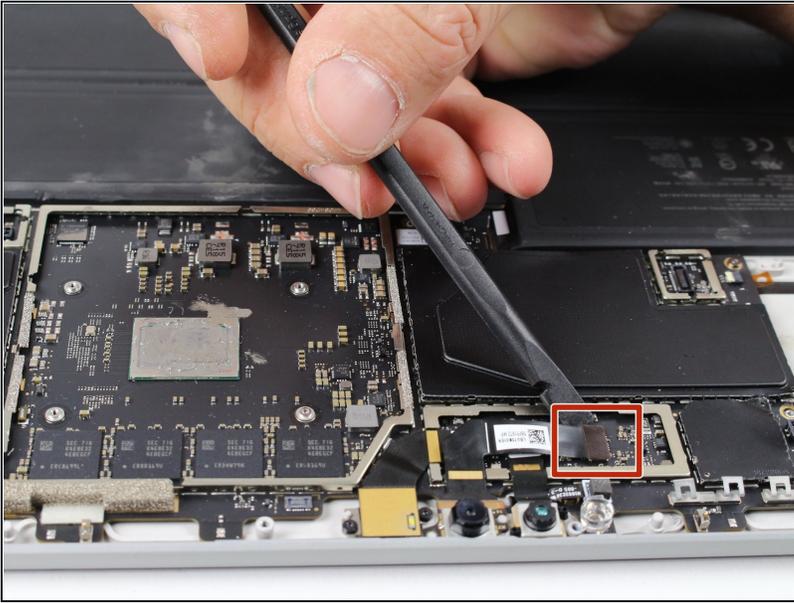
- Lift the camera tie bar off of the device.

## Step 15 — Front and Rear Camera



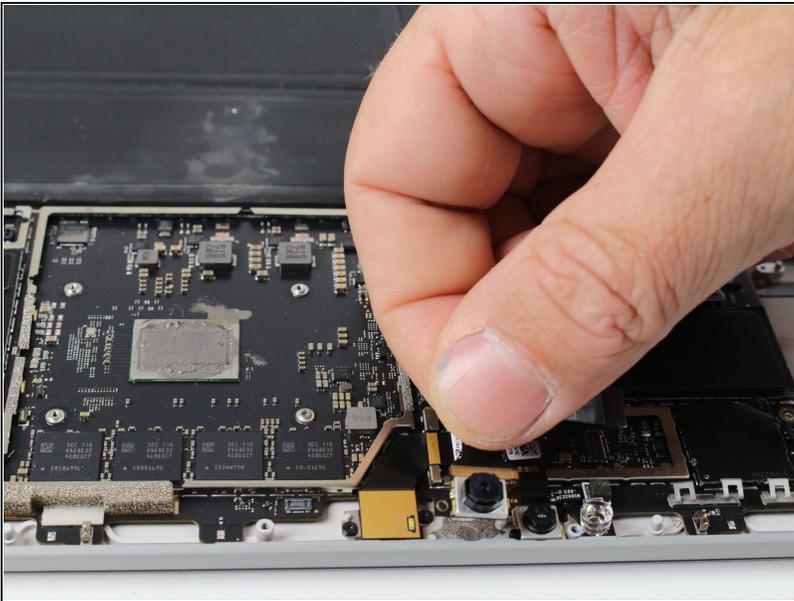
- Pry off the metal cover covering the front and rear camera ribbon cable motherboard connections using a nylon spudger.

## Step 16



- Lift the front camera ribbon cable off the motherboard using the nylon spudger.

## Step 17



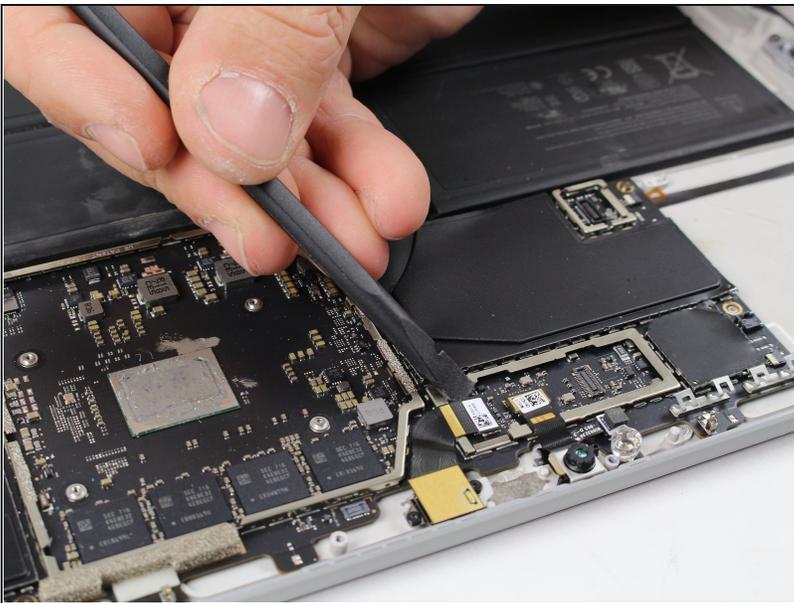
- Remove the front camera.

## Step 18



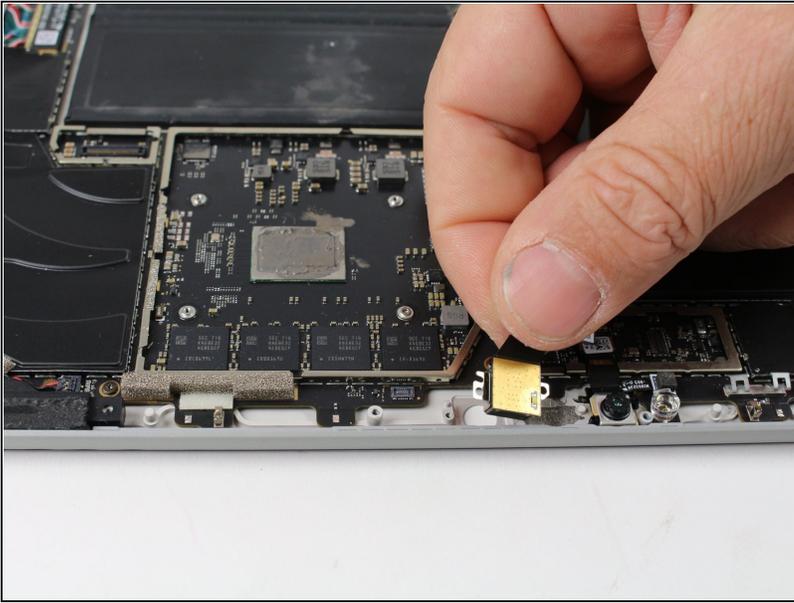
- Remove the two Torx T3 x 2.5mm screws holding down the rear camera.

## Step 19



- Lift the rear camera ribbon cable off the motherboard using the nylon spudger.

## Step 20



- Remove the rear camera.

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