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# Microsoft Surface Pro 5 Power, Volume Button, and Left Speaker Assembly Replacement

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

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# INTRODUCTION

This guide will go over how to replace the power button, volume button, and left speaker unit on the Microsoft Surface Pro 5. 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:

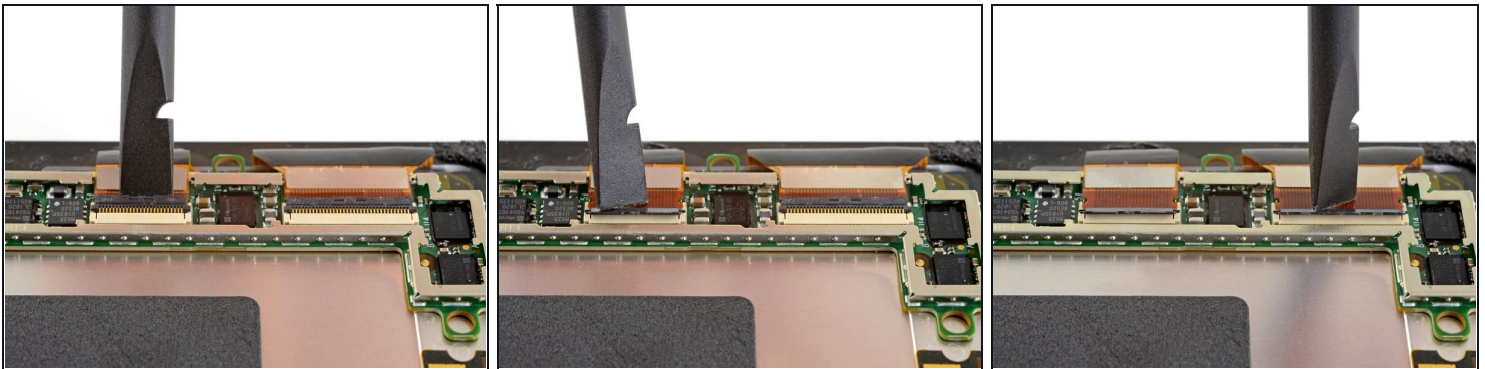
Tesa 61395 Double-Sided Tape (1)  
Microfiber Cleaning Cloths (1)  
Isopropyl Alcohol (1)  
Spudger (1)  
iOpener (1)  
iFixit Opening Picks (Set of 6) (1)  
iFixit Opening Tool (1)  
T5 Torx Screwdriver (1)  
T4 Torx Screwdriver (1)  
Tweezers (1)  
Suction Handle (1)  
Heat Gun (1)

## PARTS:

Surface Pro 5/6 Adhesive Strips (1)

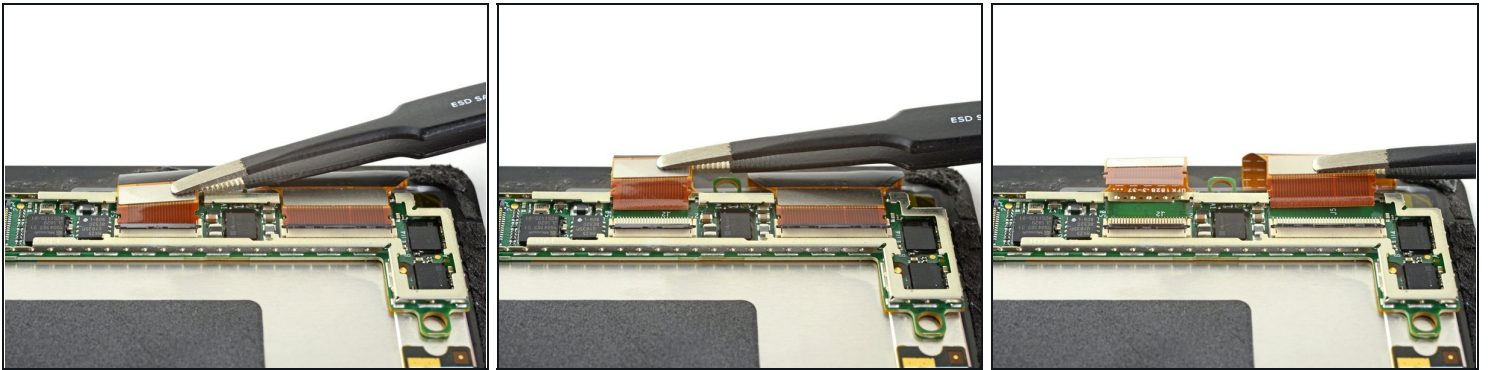
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## Step 1 — Disconnect the display board



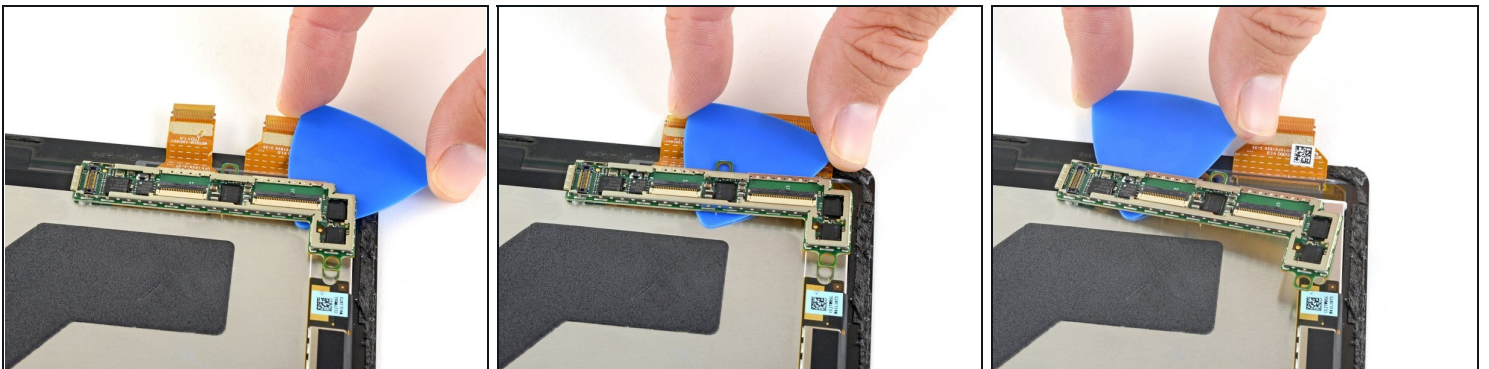
- Use a spudger to flip up the small locking flaps on the display cable ZIF connectors.

## Step 2



- Use [tweezers](#) to slide the display cables straight out of their sockets on the display board.

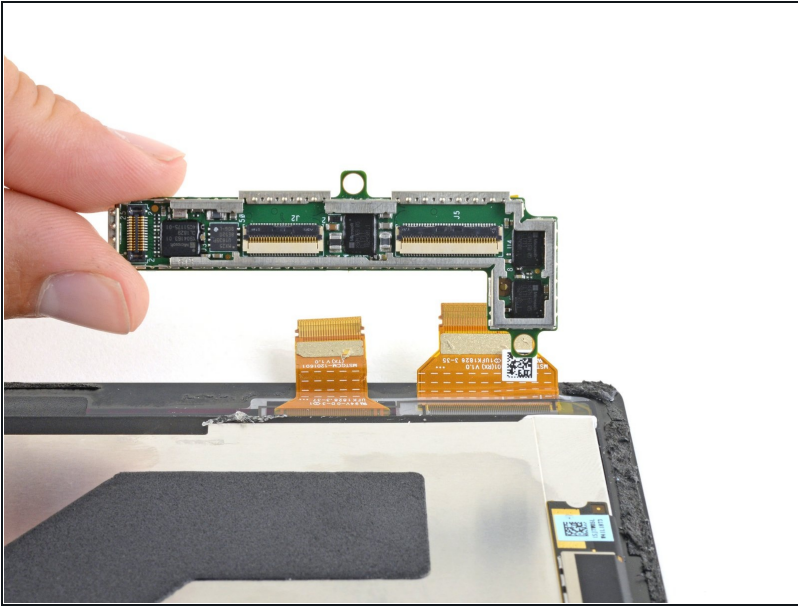
## Step 3 — Remove the display board



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



## Step 4



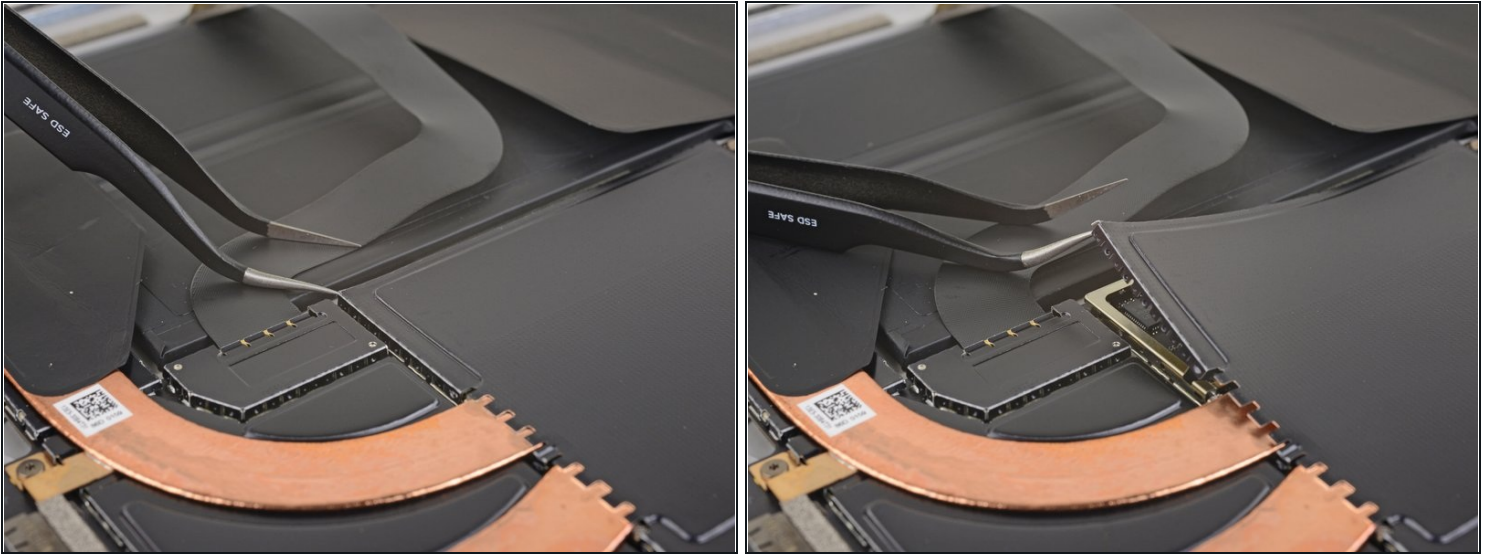
- Remove the display board.
- ★ During reassembly, use a strong double-sided tape or a [precut adhesive card](#) to secure the display board. Clean off the old adhesive before applying new adhesive.
- To ensure correct positioning, plug in both display connectors before adhering the board to the display.

## Step 5



- Only the screen remains.

## Step 6 — Remove the heat sink shield

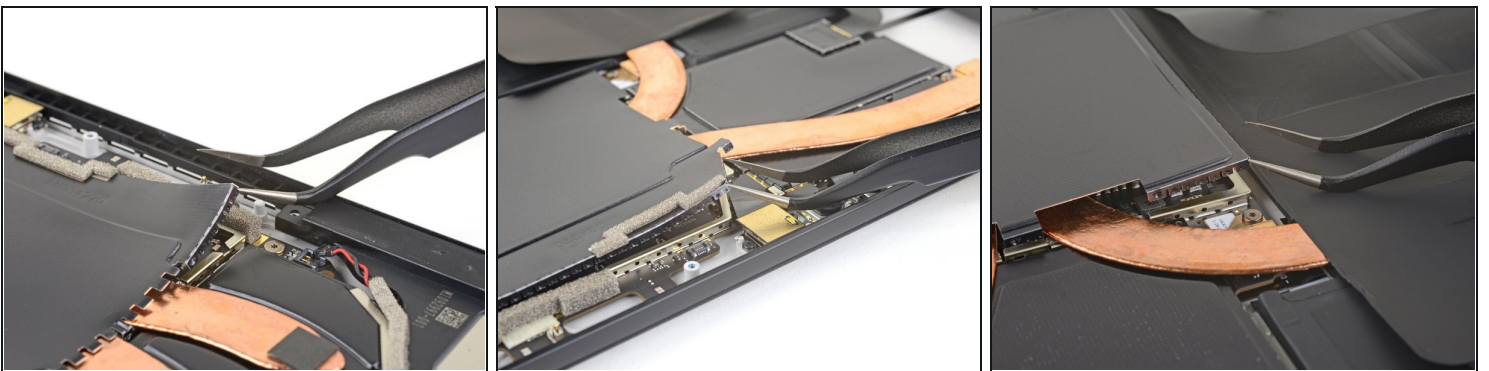


- Insert one point of a pair of pointed [tweezers](#) into a gap in the corner of the EMI shield covering the heat sink.
- Use the tweezers to pry the EMI shield away from the motherboard as much as you can without bending it. Do not remove it yet.

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

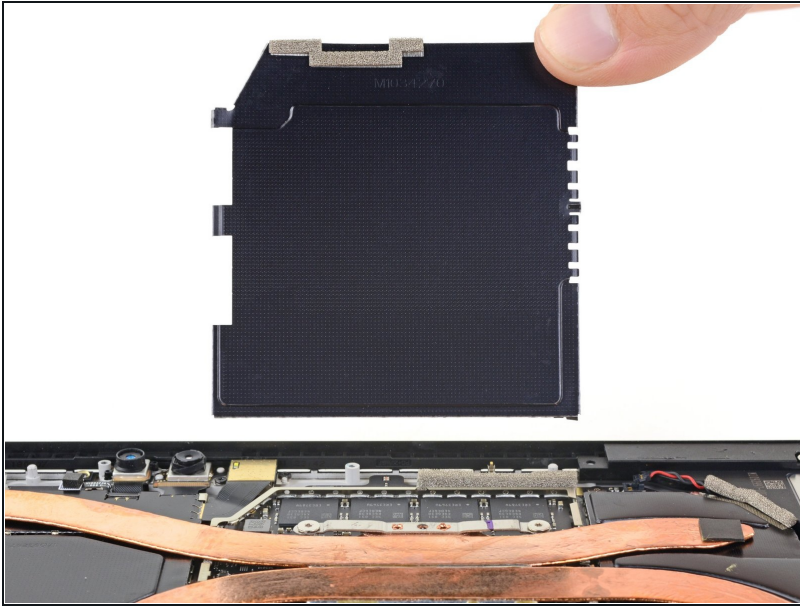
⚠ Take care not to puncture the battery with the tweezers while working on this shield.

## Step 7



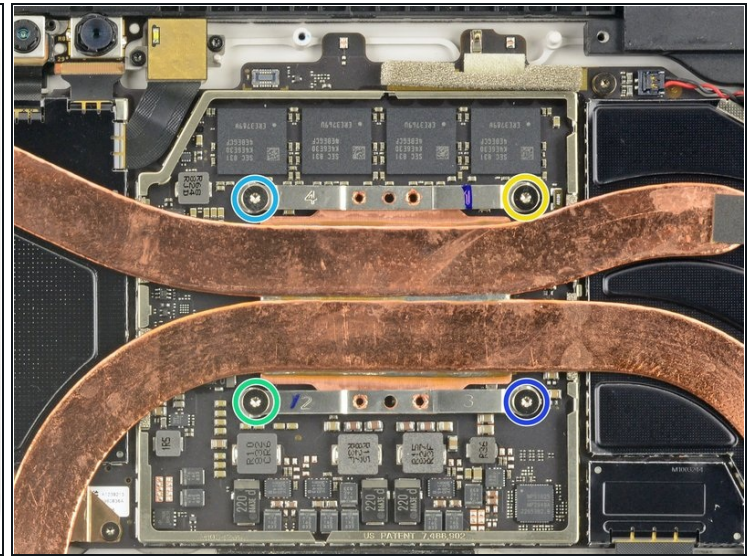
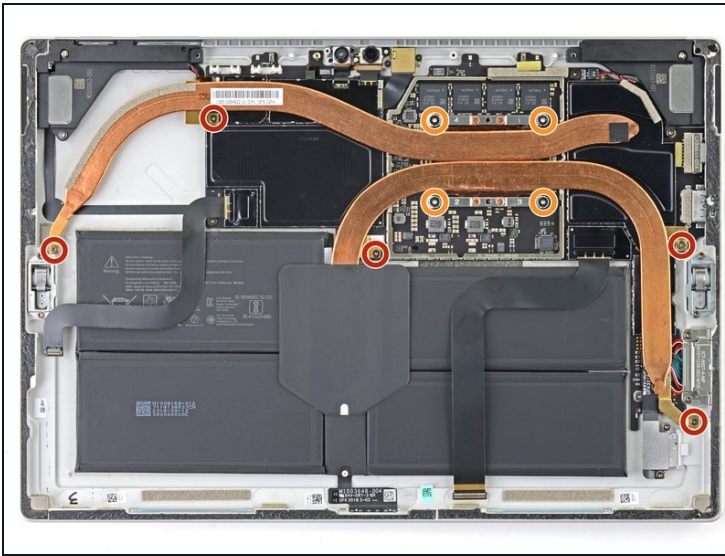
- Repeat the last step for each corner of the EMI shield covering the heat sink.

## Step 8



- Remove the heat sink shield.

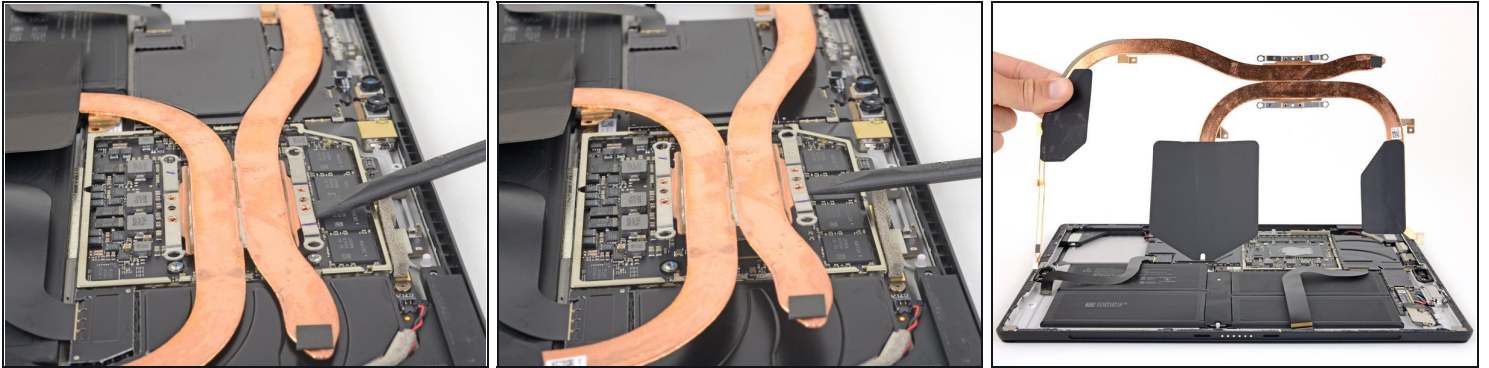
## Step 9 — Remove the heat sink



- 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

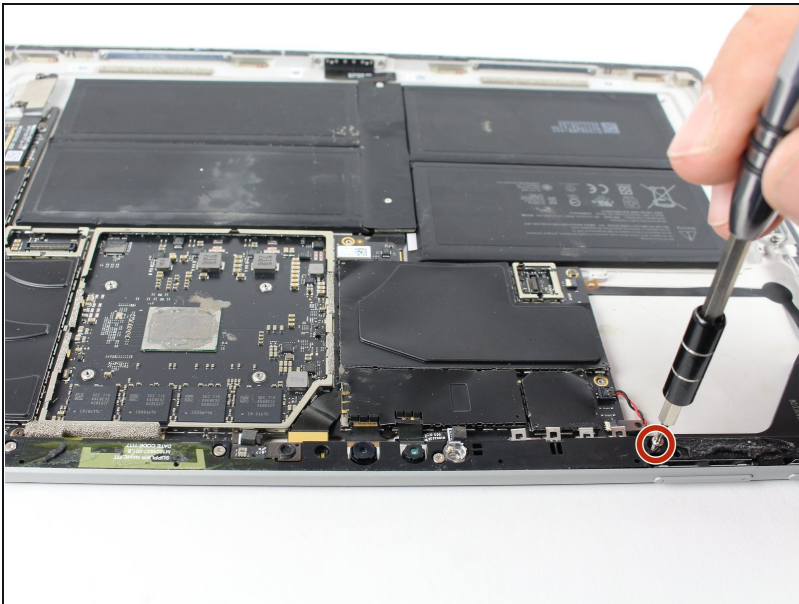


## Step 10



- 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.

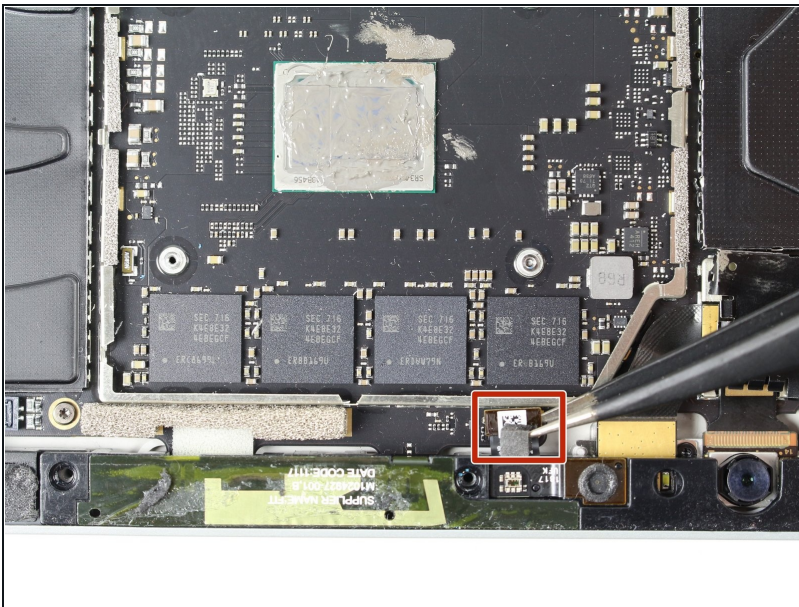


## Step 12



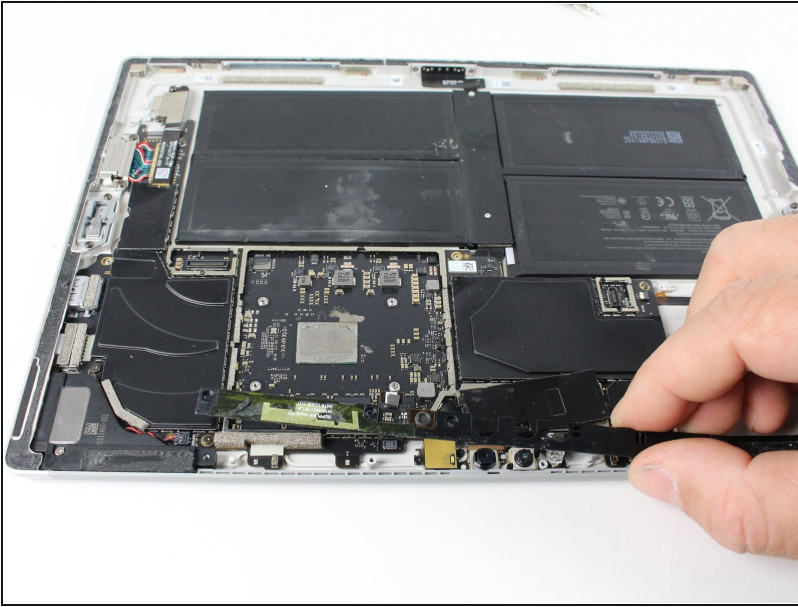
- Remove the remaining three Torx T5 x 4.5mm screws holding down the camera tie bar.

## Step 13



- Disconnect the small ribbon cable connecting the camera tie bar to the motherboard by pulling up with [tweezers](#).

## Step 14



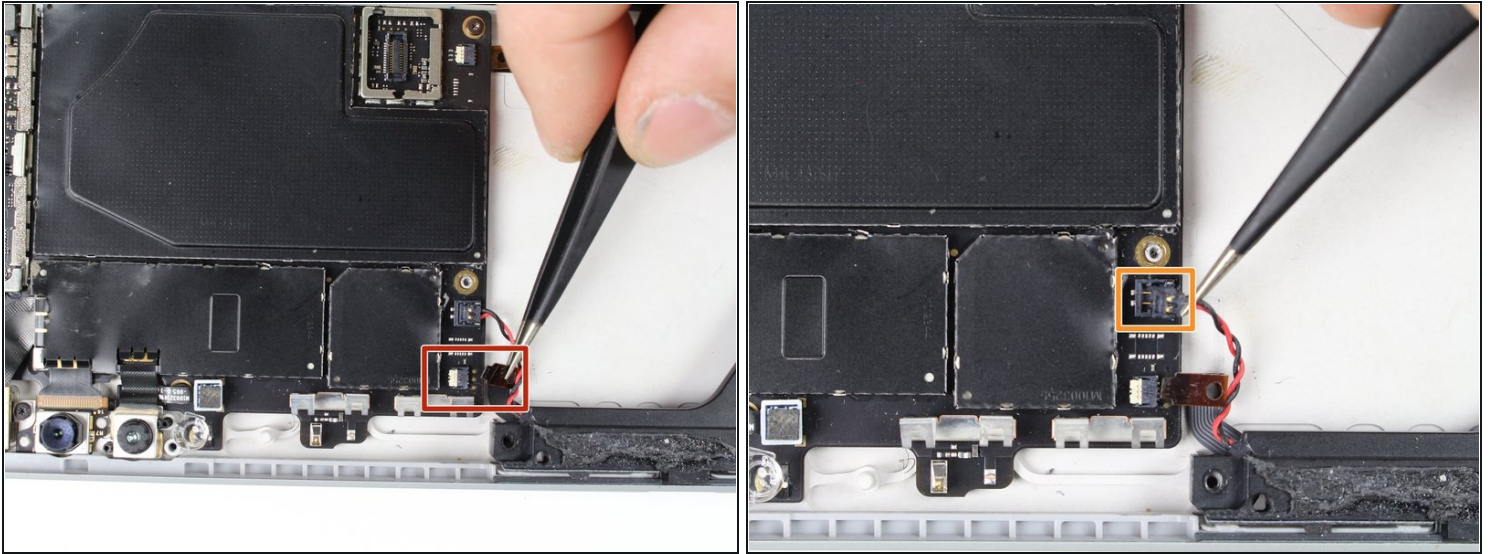
- Lift the camera tie bar off of the device.

## Step 15 — Power Button, Volume Buttons, and Left Speaker Assembly



- Use a Torx T5 to remove the two 4.5mm silver screws on the power button/volume control/speaker assembly.

## Step 16



- Disconnect the small ribbon attaching the assembly to the motherboard by lifting up with [tweezers](#).
- Disconnect the black and red cable connector by lifting up with tweezers.

## Step 17



- Pull the assembly to the left with hands and lift up to remove.

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



