



# MacBook Air 13" Retina Display Late 2018 Logic Board Replacement

Use this guide to replace the logic board in a...

Written By: Adam O'Camb



# INTRODUCTION

Use this guide to replace the logic board in a 2018 MacBook Air.

**Note that Touch ID will not function after replacing the logic board.** The MacBook's original Touch ID sensor is uniquely paired to the T2 chip on the logic board at the factory—and without Apple's proprietary calibration process, even a genuine replacement logic board from another MacBook Air won't work.

If you replace the logic board, you must install a [paired Touch ID sensor](#) to retain Touch ID functionality.



## TOOLS:

[P5 Pentalobe Screwdriver Retina MacBook Pro and Air](#) (1)  
[Tweezers](#) (1)  
[Spudger](#) (1)  
[T3 Torx Screwdriver](#) (1)  
[T4 Torx Screwdriver](#) (1)



## PARTS:

[MacBook Air 13" \(Late 2018-Mid 2019\)](#)  
[1.6 GHz Logic Board and Touch ID Sensor](#) (1)

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## Step 1 — Remove the screws securing the lower case



- i** Before starting this procedure, you should disable your Mac's **Auto Boot** feature. Auto Boot powers on your Mac when you open the lid, and may be accidentally triggered during disassembly. [Use this guide](#) to disable Auto Boot.
- If your MacBook is running Big Sur v11.1 or later, disabling Auto Boot may not work. You can proceed normally, but make sure to disconnect the battery as soon as you're inside.

**⚠** Completely power off and unplug your MacBook Air before you start. Close the display and flip the entire laptop upside-down.

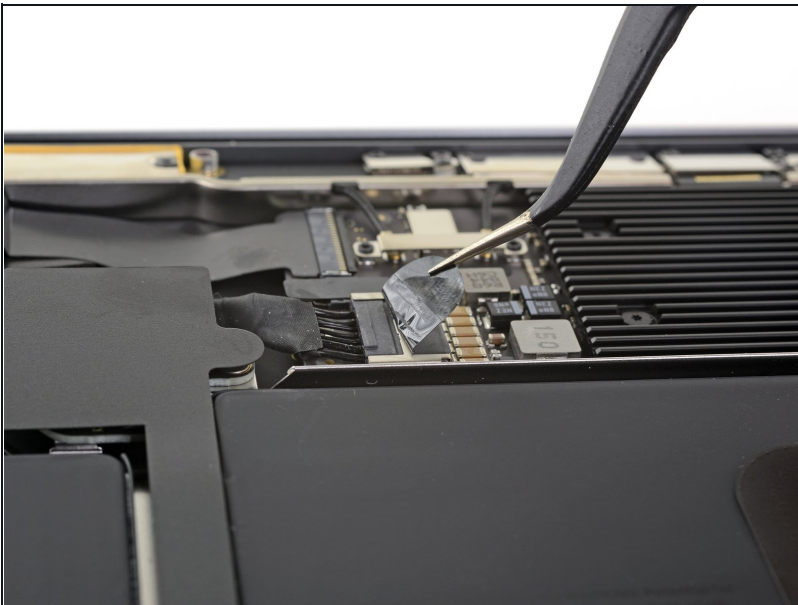
- Use a P5 driver to remove the following screws:
  - Two 7.9 mm screws
  - Two 7.1 mm screws
  - Six 2.6 mm screws

## Step 2 — Remove the lower case



- Wedge your fingers between the display and the lower case and pull upward to pop the lower case off the Air.
- Remove the lower case.
- ★ After reassembly, your MacBook might not turn on until it's connected to a power source (a low power phone charger may work). To test your repair, plug in your charger, allow two minutes for your MacBook to turn on, and check that everything works as expected.

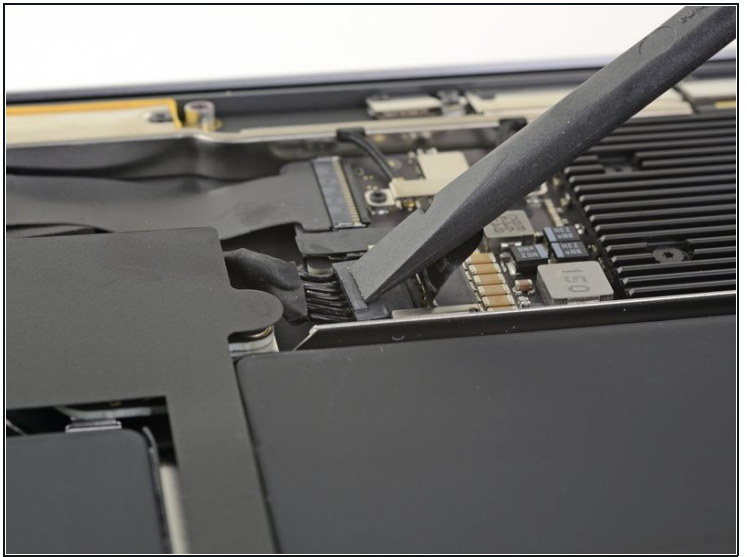
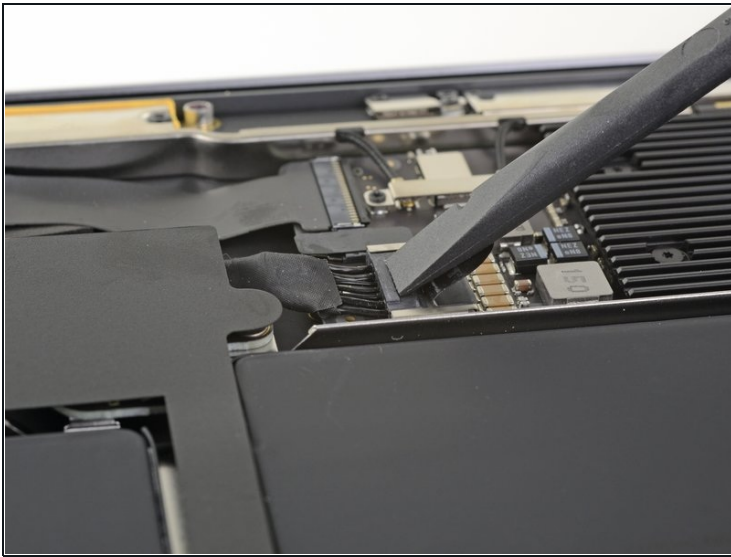
## Step 3 — Disconnect the battery



- Peel back the tape covering the battery connector enough to reveal the connector underneath.

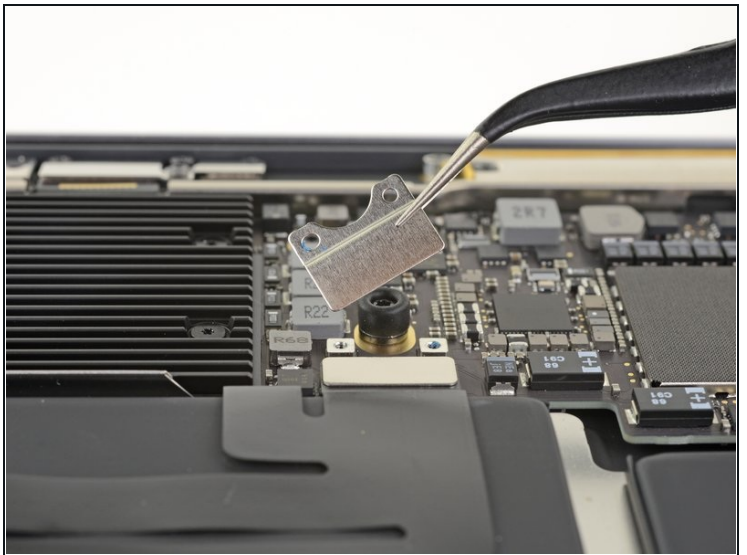
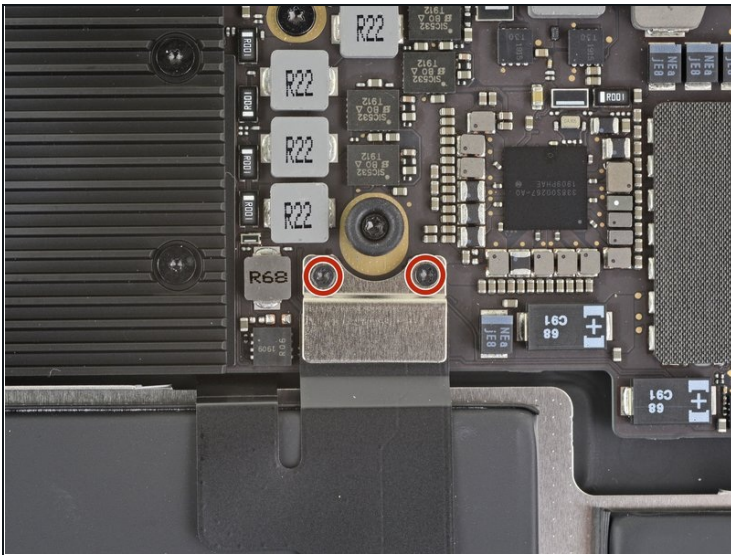


## Step 4



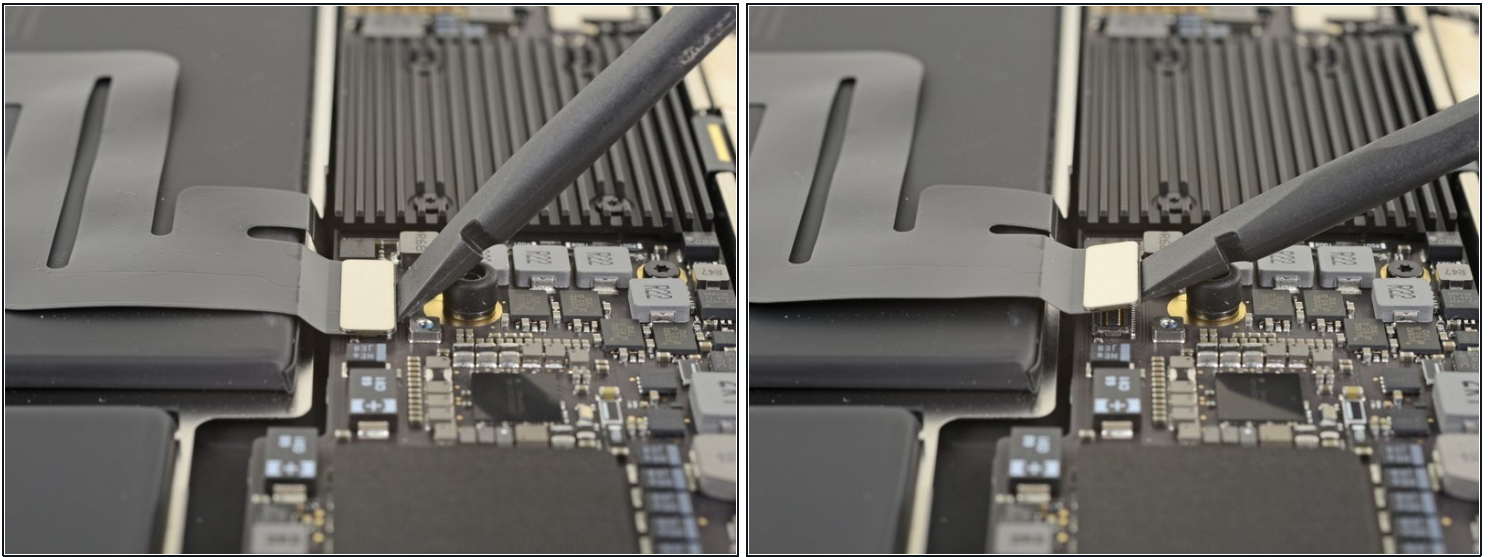
- Use a spudger to slide the battery connector parallel to the logic board and out of its socket on the logic board.

## Step 5 — Disconnect the logic board



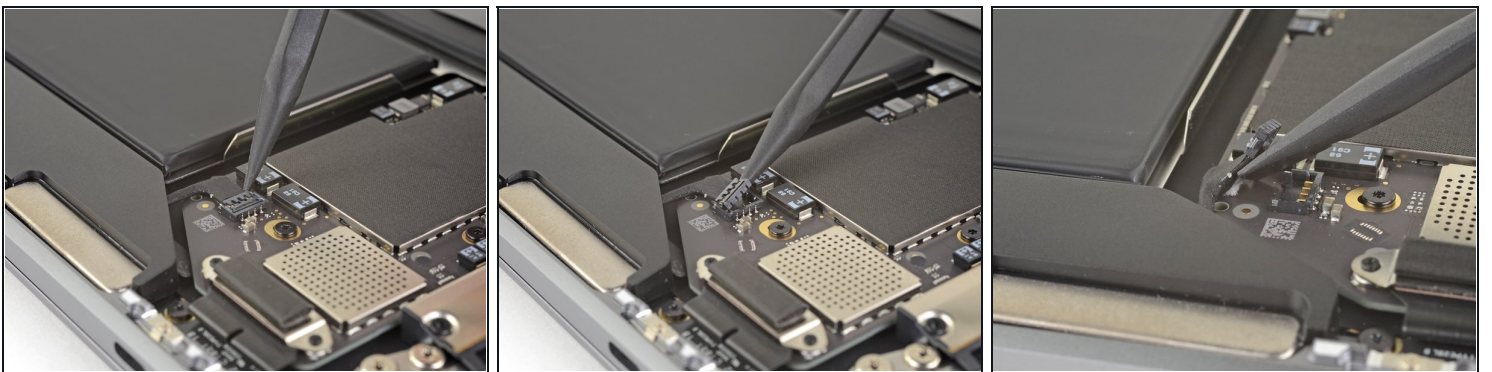
- Use a T3 Torx driver to remove the two 1.4 mm screws securing the trackpad connector bracket.
  - ⓘ Depending on the condition of your bits, a T4 Torx driver may fit better.
- Remove the trackpad connector bracket.

## Step 6



- Use the flat end of a spudger to pry the trackpad cable connector up and out of its socket.

## Step 7

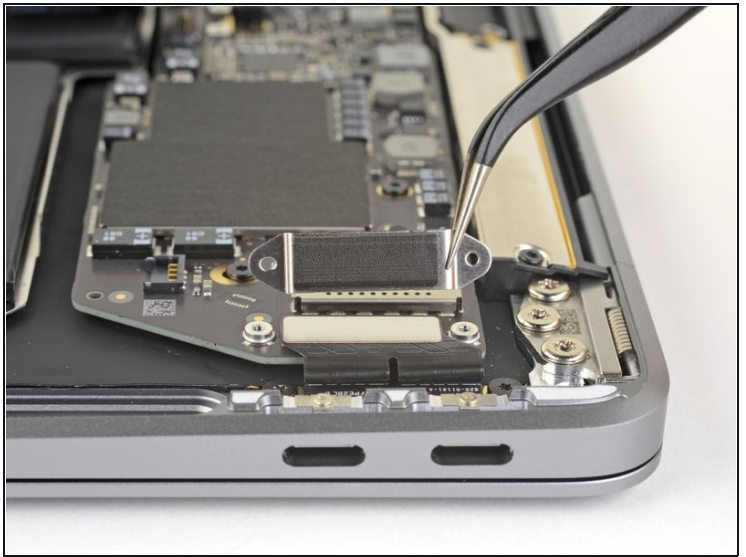


ⓘ If the left speaker is already disconnected, skip this step.

- Slide the tip of a spudger underneath the left speaker cable and pry straight up to disconnect the speaker.
- With the connector disconnected, slide the flat end of a spudger under the cable to separate the adhesive securing the cable to the logic board.



## Step 8



- Use a T3 Torx driver to remove the two 1.3 mm screws securing the USB-C port connector bracket.
- Remove the USB-C connector bracket.

## Step 9



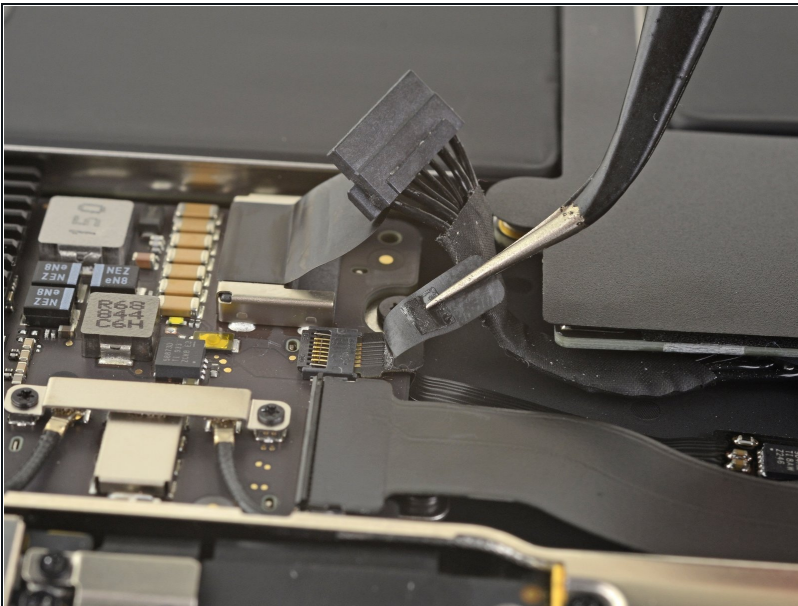
- Use the flat end of a spudger to pry the USB-C cable connector up and out of its socket on the logic board.

## Step 10



- Use a spudger to lift up the small locking flap on the sound board cable's [ZIF connector](#).
- Slide the sound board cable out of the ZIF connector.

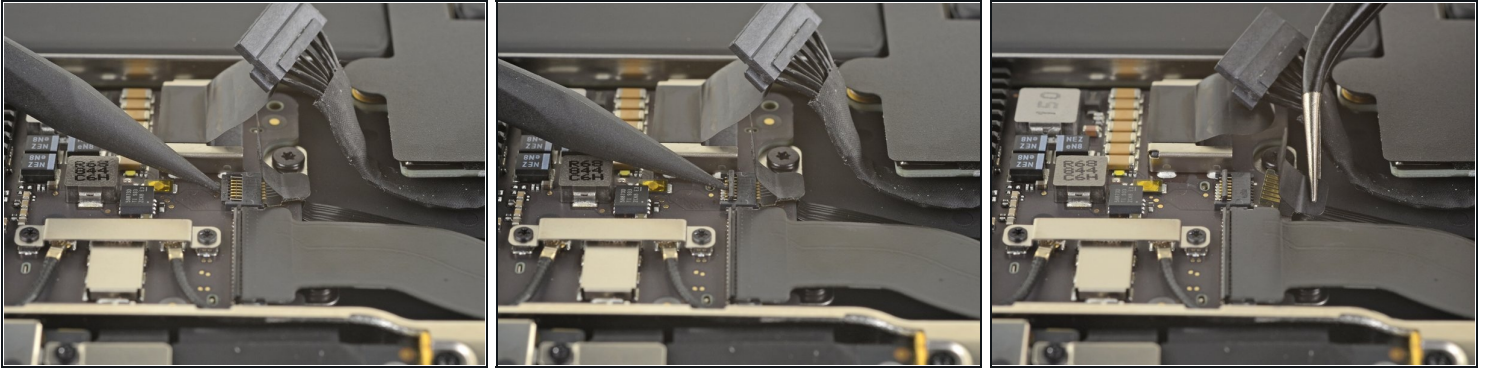
## Step 11



- Peel back the black tape covering the fan cable connector.

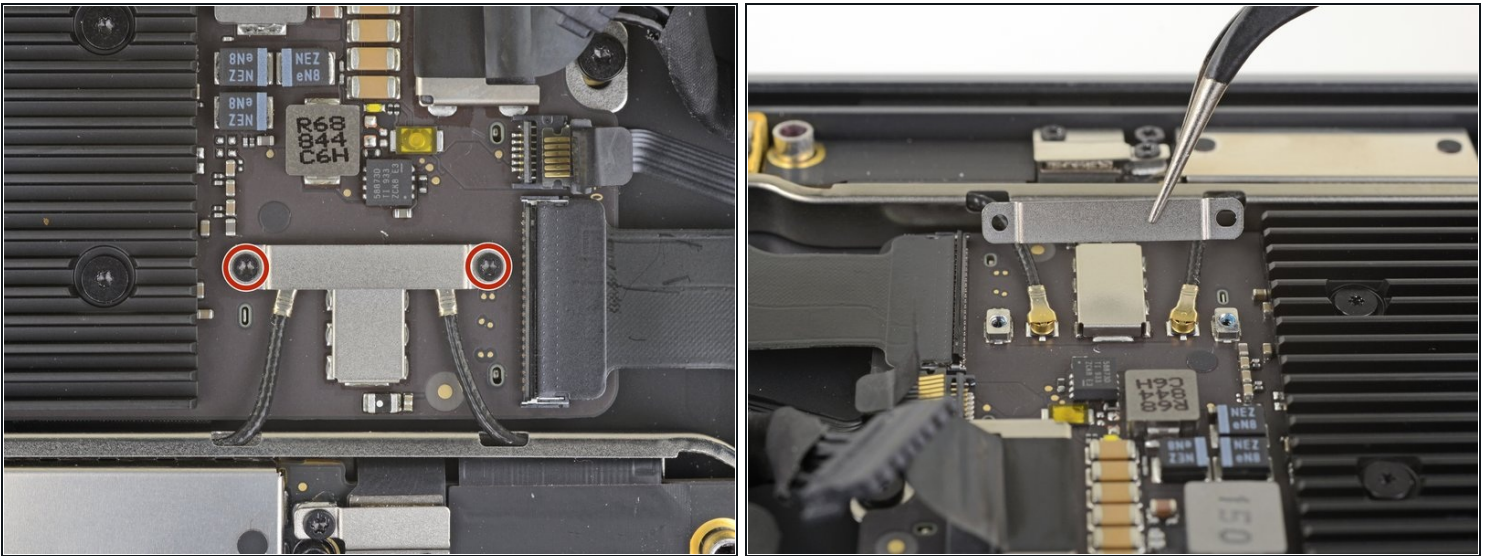


## Step 12



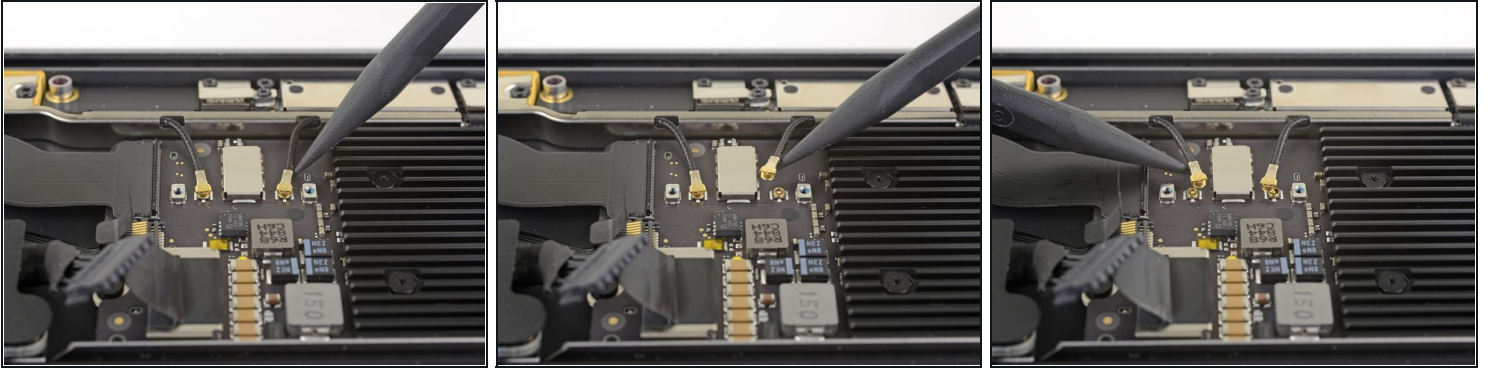
- Use the tip of a spudger to lift up the locking flap on the fan cable's ZIF connector.
- Slide the fan cable out of the ZIF connector.

## Step 13



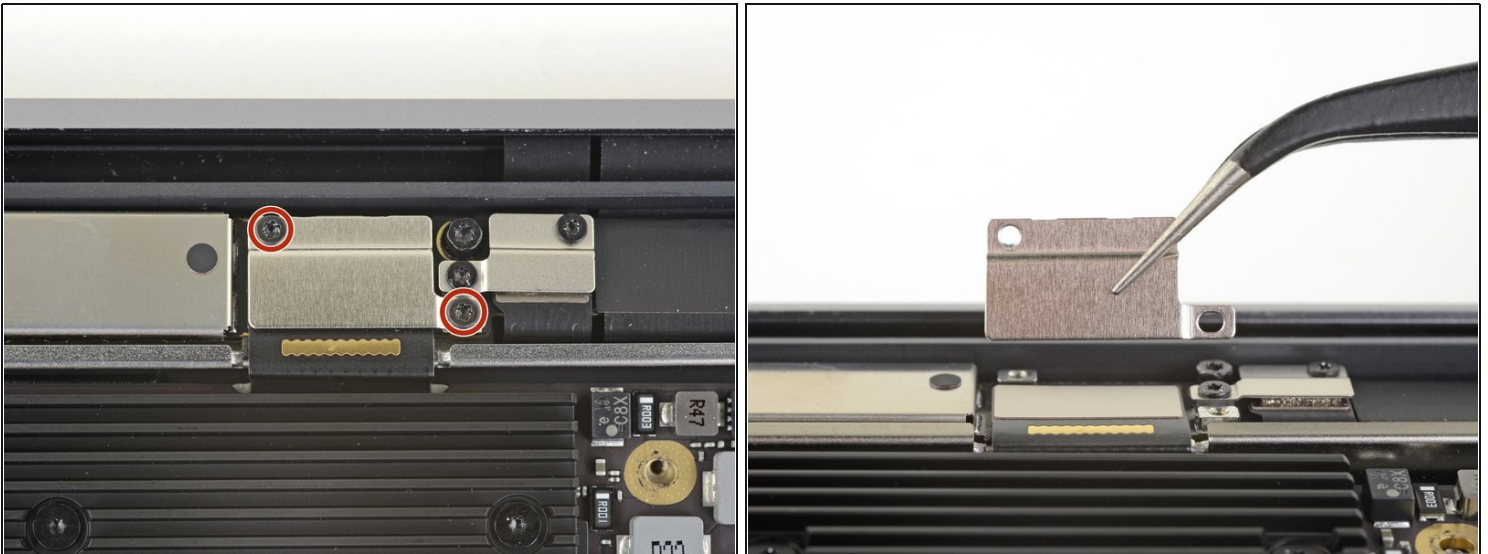
- Use a T3 Torx driver to remove the two 1.4 mm screws securing the antenna cable bracket.
- Remove the antenna cable bracket.

## Step 14



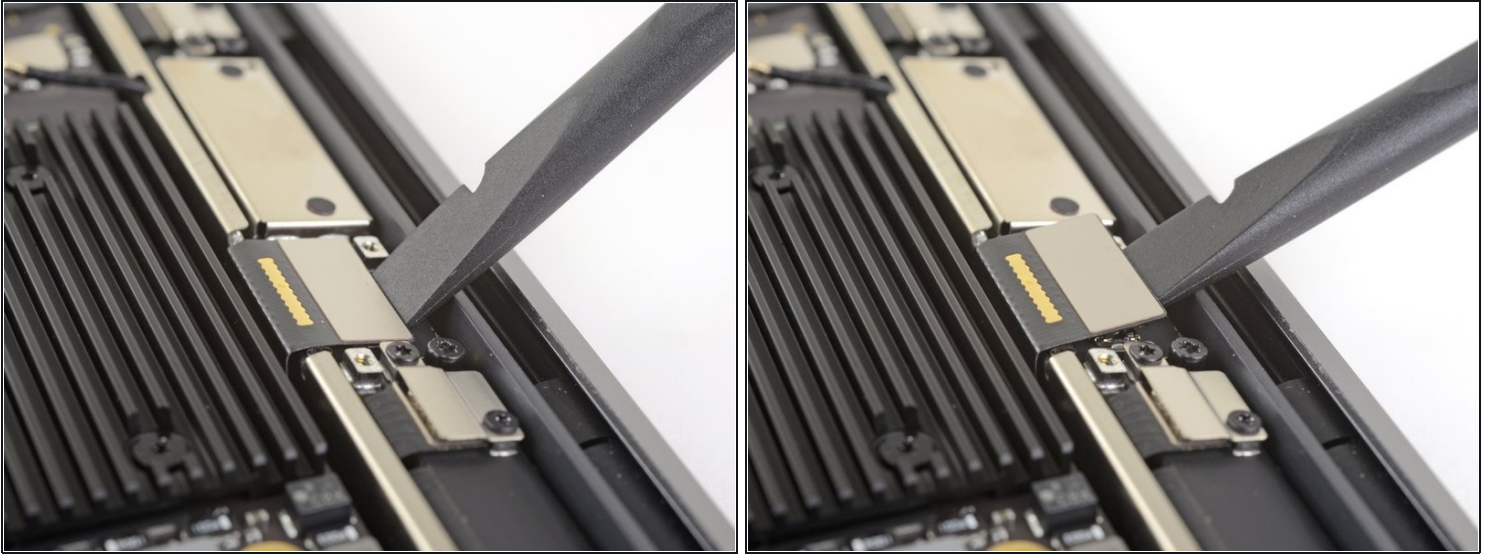
- Insert the point of a spudger under one of the antenna cables close to the connector. Pry straight up to disconnect the cable.
- Repeat for the other antenna cable.

## Step 15



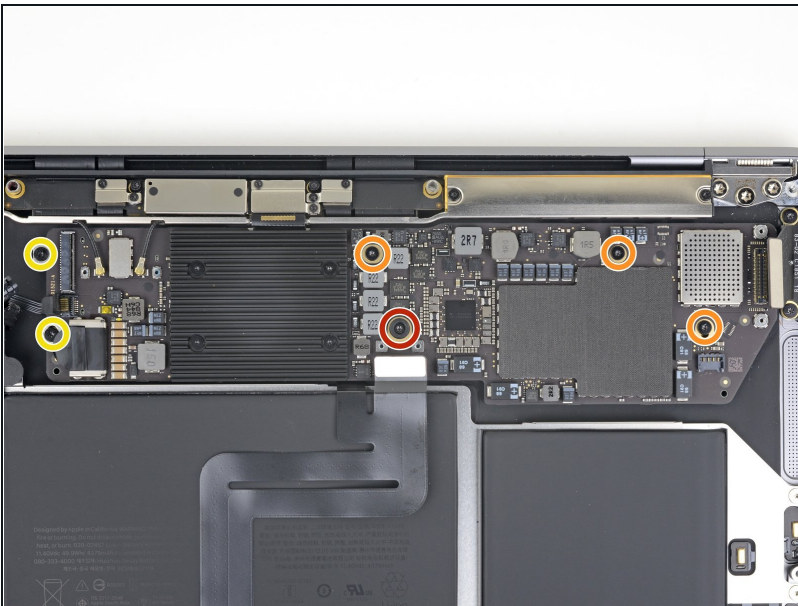
- Use a T3 Torx driver to remove the two 1.5 mm screws securing the display cable connector bracket.
- Remove the display cable connector bracket.

## Step 16



- Use the flat end of a spudger to pry up the display cable connector.

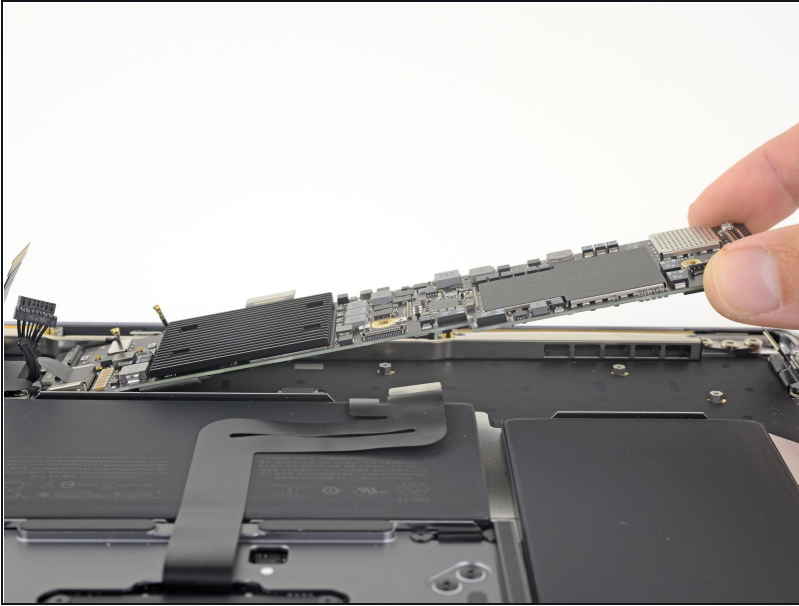
## Step 17 — Unscrew the logic board



- Use a T5 Torx driver to remove the following screws:
  - One 5.5 mm screw
  - Three 2.6 mm screws
  - Two 1.9 mm screws



## Step 18 — Remove the logic board



- Remove the logic board.

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Compare your new replacement part to the original part—you may need to transfer remaining components or remove adhesive backings from the new part before installing.

**To reassemble your device, follow the above steps in reverse order.**

Take your e-waste to an [R2 or e-Stewards certified recycler](#).

Repair didn't go as planned? Check out our [Answers community](#) for troubleshooting help.