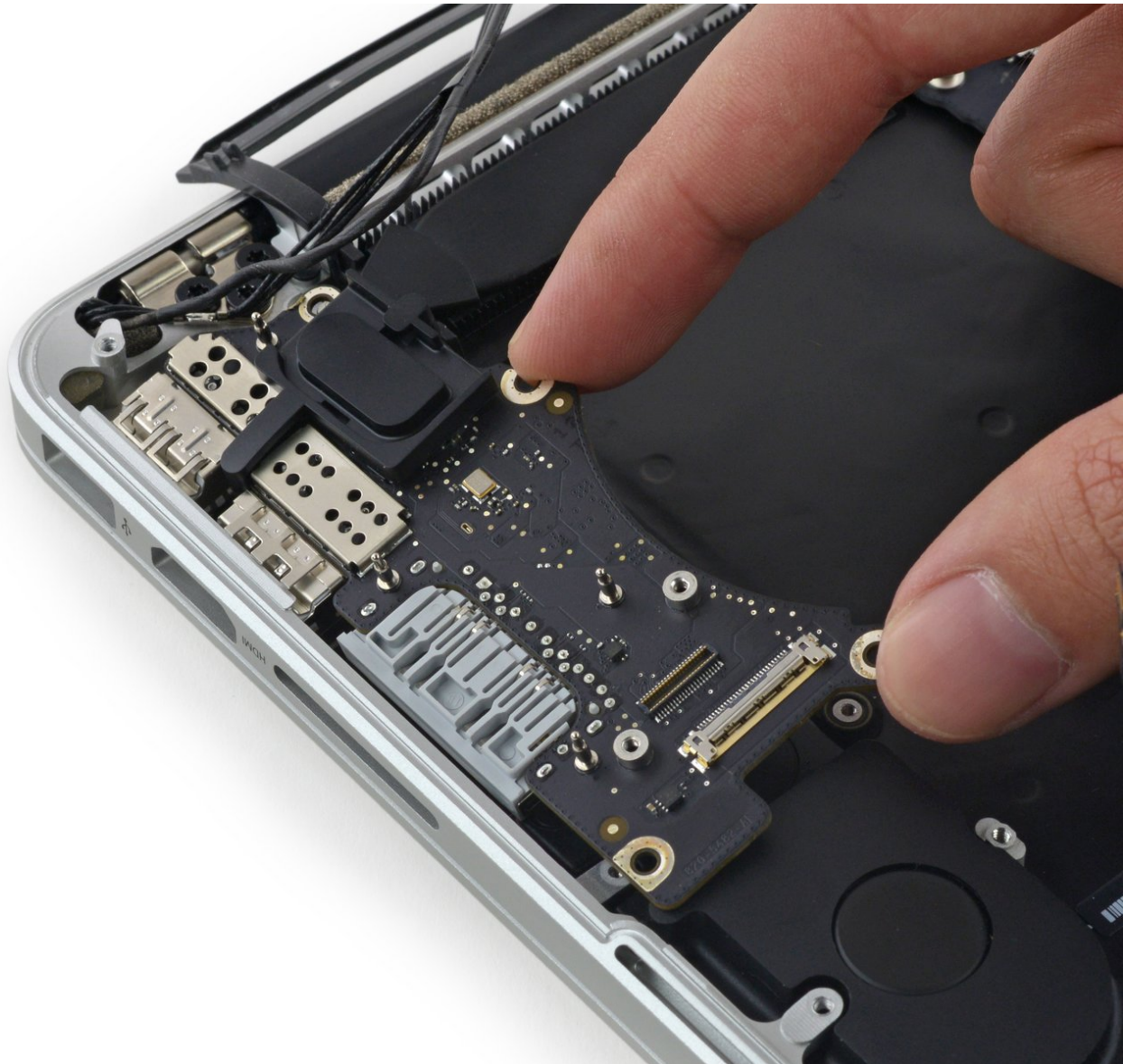# MacBook Pro 15'' Retina Display Mid 2015 I/O Board Replacement

Replace the I/O board on the MacBook Pro 15" Retina Display Mid 2015.

Written By: Andrew Optimus Goldheart

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INTRODUCTION

Use this guide to replace the I/O board containing a USB 3.0 port, HDMI port, and SDXC card reader.

It's not strictly necessary to remove the SSD in order to replace the I/O board, but doing so provides some additional clearance to make this process easier. If you are comfortable replacing the I/O board without removing the SSD, feel free to skip the SSD steps.

TOOLS:

- P5 Pentalobe Screwdriver Retina MacBook Pro and Air (1)
- Spudger (1)
- T5 Torx Screwdriver (1)
- Tweezers (1)

PARTS:

- MacBook Pro 15" Retina (Mid 2015) Right I/O Board (1)
- MacBook Pro 15" Retina (Mid 2015) I/O Board Data Cable (1)

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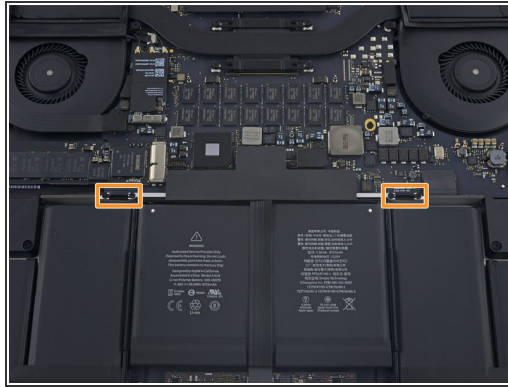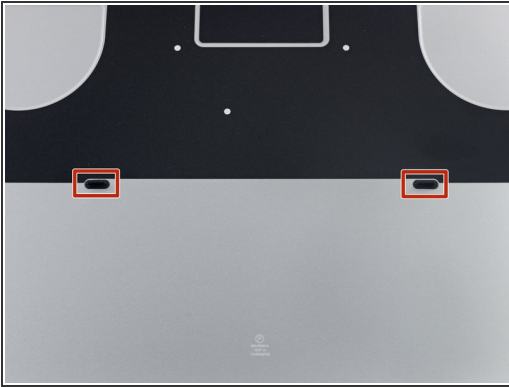www.iFixit.com

Step 1 — Lower Case

- Remove the following P5 pentalobe screws securing the lower case to the MacBook Pro:
  - Eight 3.1 mm
  - Two 2.3 mm

Step 2

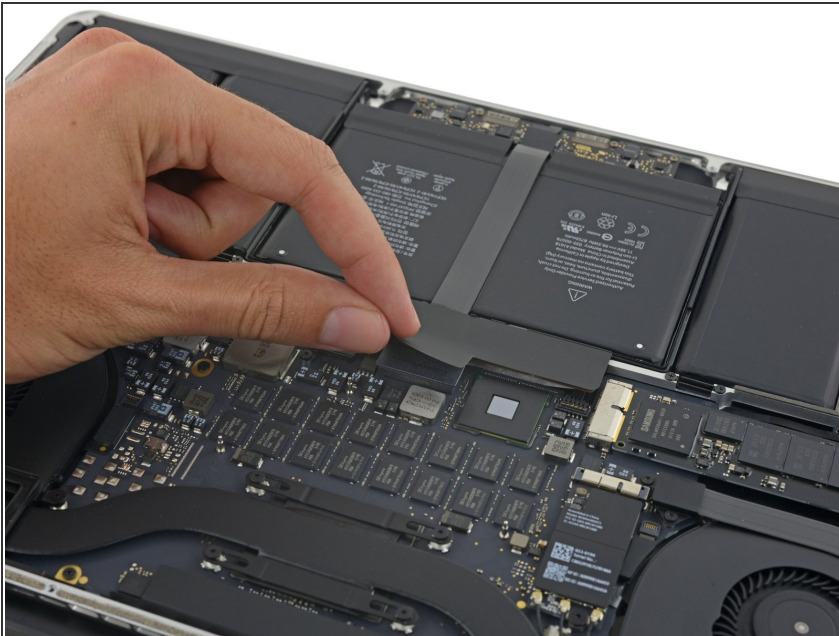- Lifting from the edge nearest the clutch cover, lift the lower case off the MacBook Pro.

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Step 3

ⓘ The lower case has two plastic pegs (red) that fit into plastic clips in the upper case (orange).

⭐ During reassembly, gently push down the center of the lower case to reattach the case to its two plastic clips.
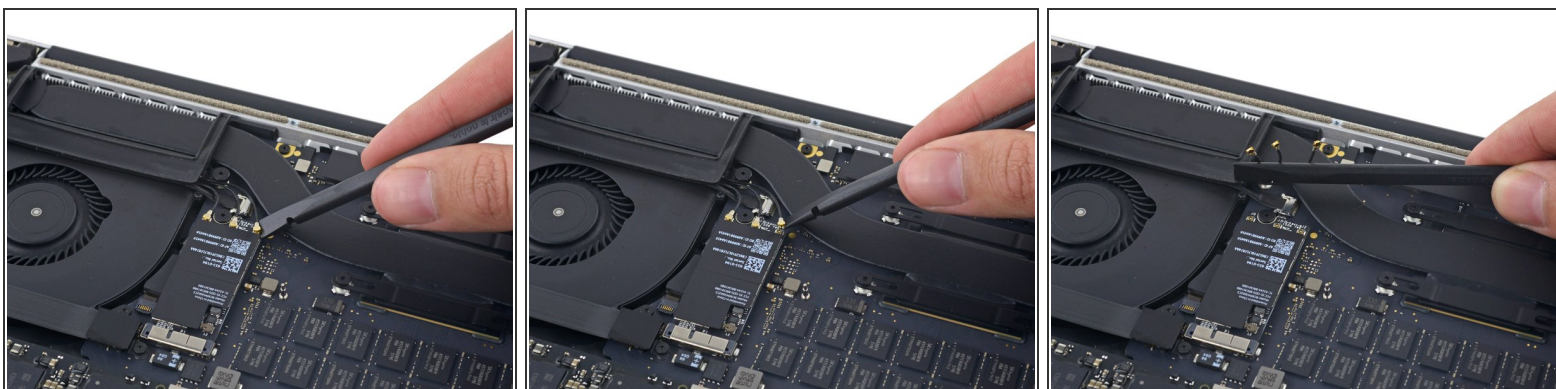
Step 4 — Battery Connector

● Peel back the sticker covering the battery connector.
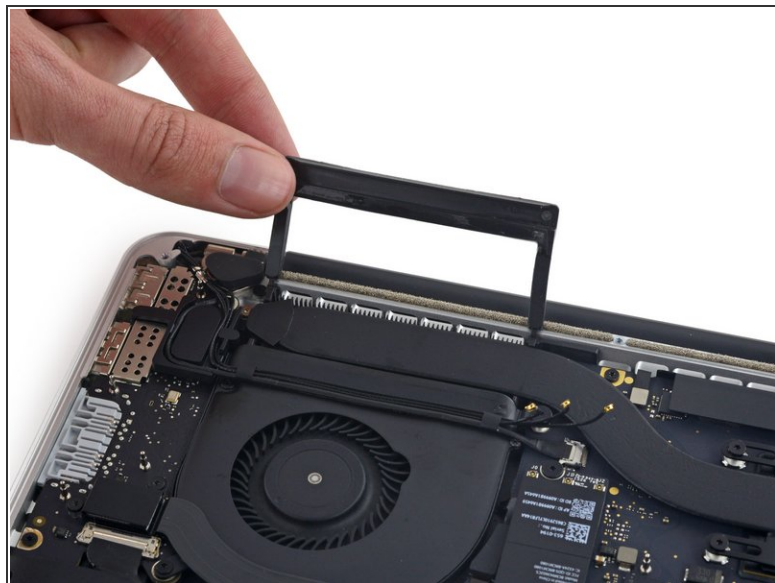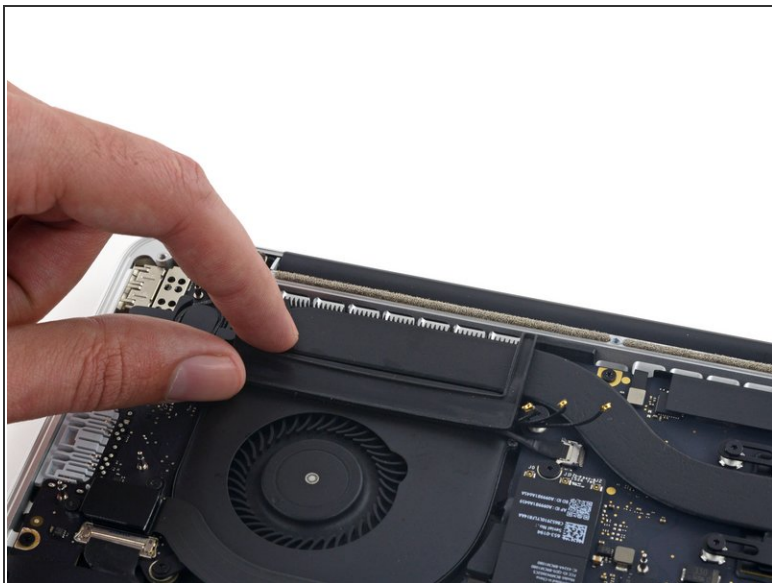
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Step 5

- Gently lift each side of the battery connector to pry the connector out of its socket on the logic board.

- Bend the connector back toward the battery, ensuring that the battery connector doesn't accidentally make contact with the logic board.

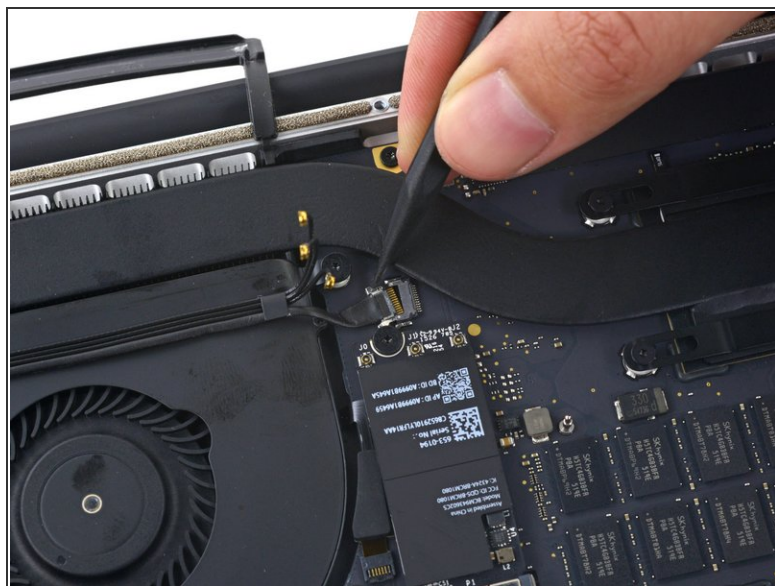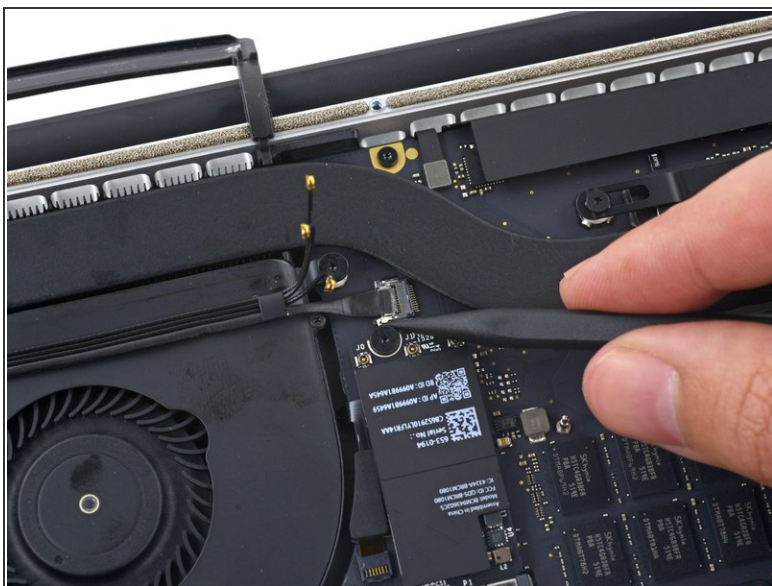## Step 6 — AirPort/Camera Cables

- Use a spudger or tweezers to pry the three AirPort antenna cables straight up off of their sockets on the AirPort board, and bend them up and out of the way.

  ⚠ The cable connection points are **very** fragile. Be careful to lift only on the connector, and not on the socket or cable.

- 📌 To reconnect, align the connector carefully into position over the socket, and press it down firmly with the flat of your spudger.

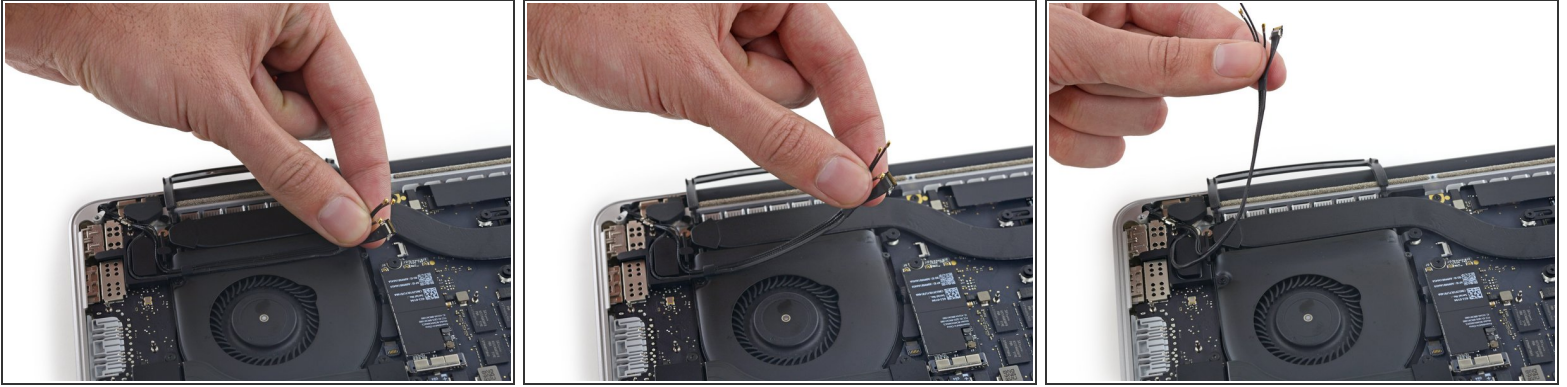This document was generated on 2022-01-26 08:48:34 PM (MST).

Step 7

- Peel the right rubber cover up off the fan and fold it out of the way.
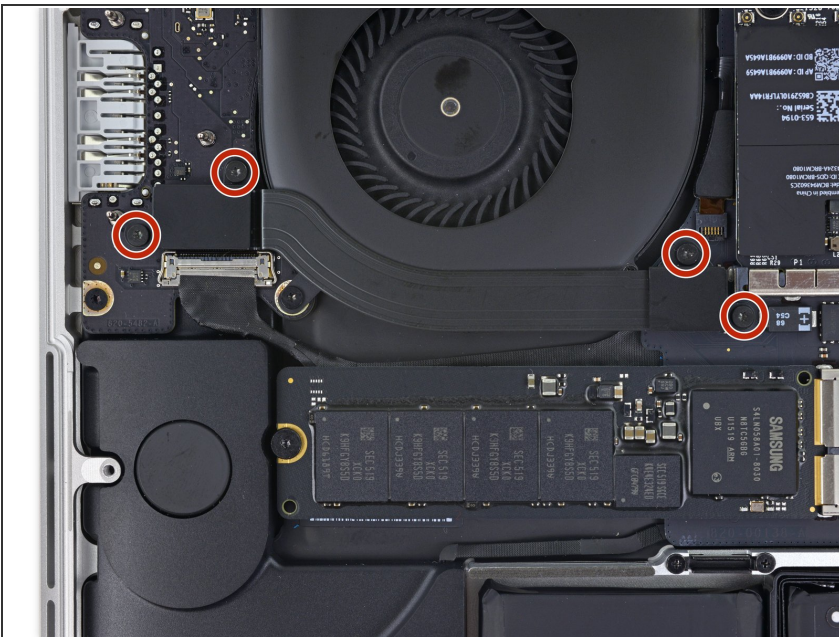
Step 8

- Use the tip of a spudger to push the camera cable connector out of its socket on the logic board.
  - ⓘ Be sure to push parallel to the board, pushing first on one side, then the other to "walk" the connector out of its socket.
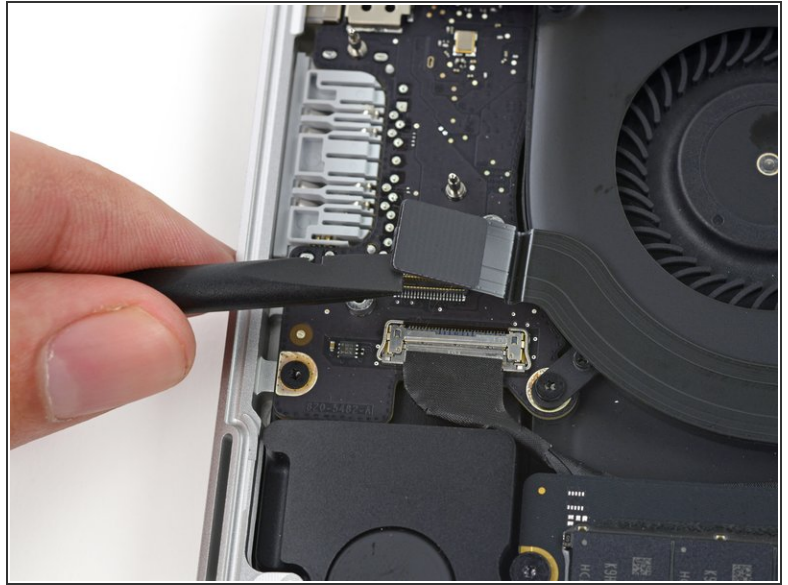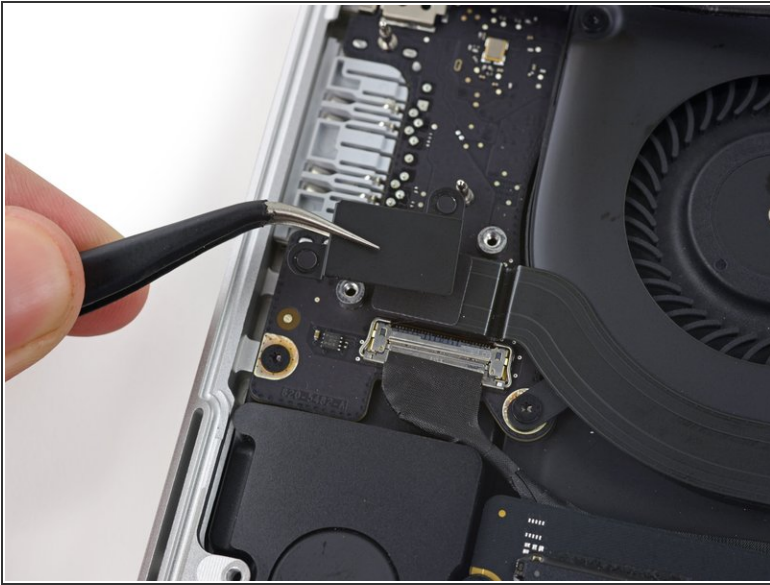
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Step 9

- Use your fingers to pull the AirPort/Camera cables up off the fan.

  (i) The cables are adhered to the fan, so peel them up carefully to avoid damaging them.

- Carefully de-route the cables from the plastic cable guide.

📌 On reassembly, there should be enough adhesive still on these cables to stick them back down to the fan.
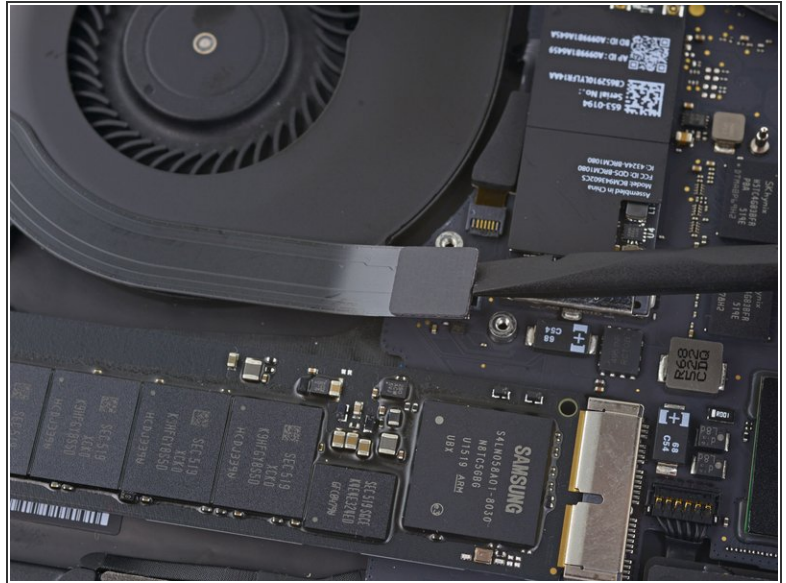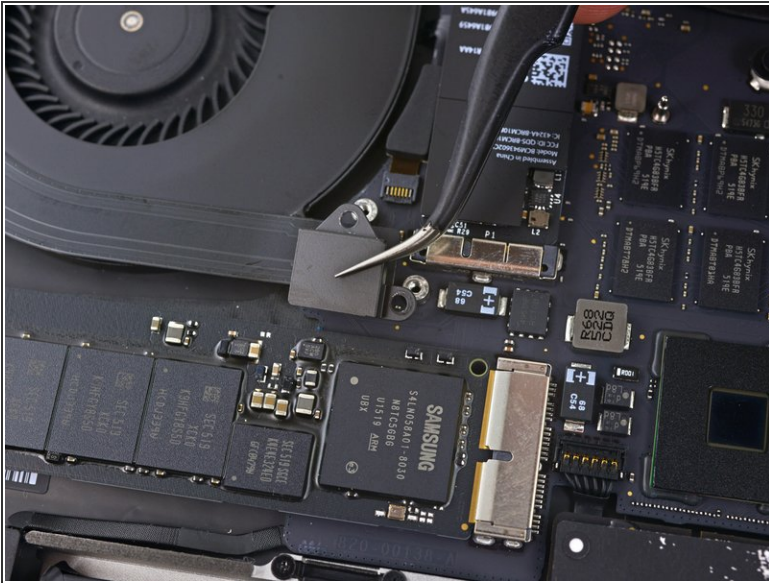
Step 10 — I/O Board Cable (Top)

- Remove the four 2.2 mm T5 Torx screws securing the I/O board cable connector covers.

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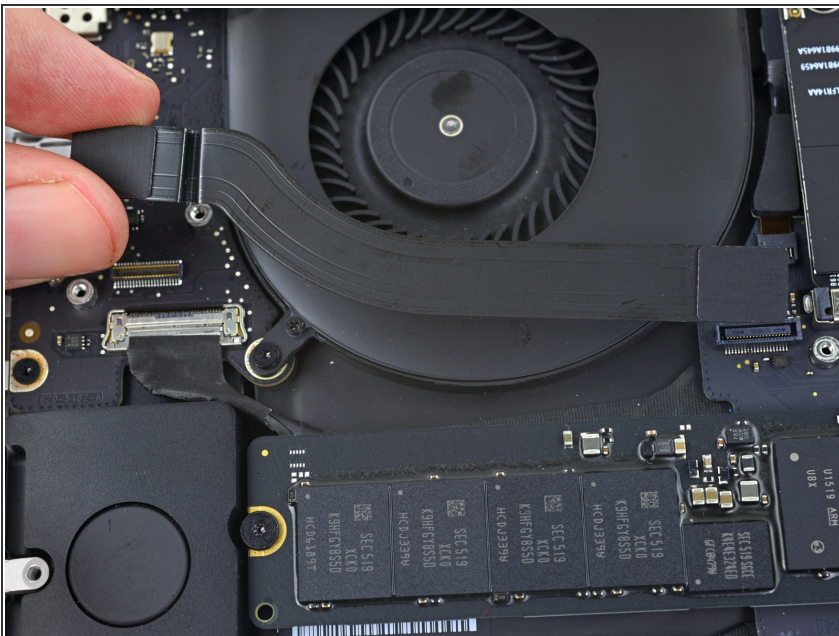
Step 11

- Remove the left connector cover.

- Use the flat end of a spudger to pry the left end of the I/O board cable up from its socket on the logic board.

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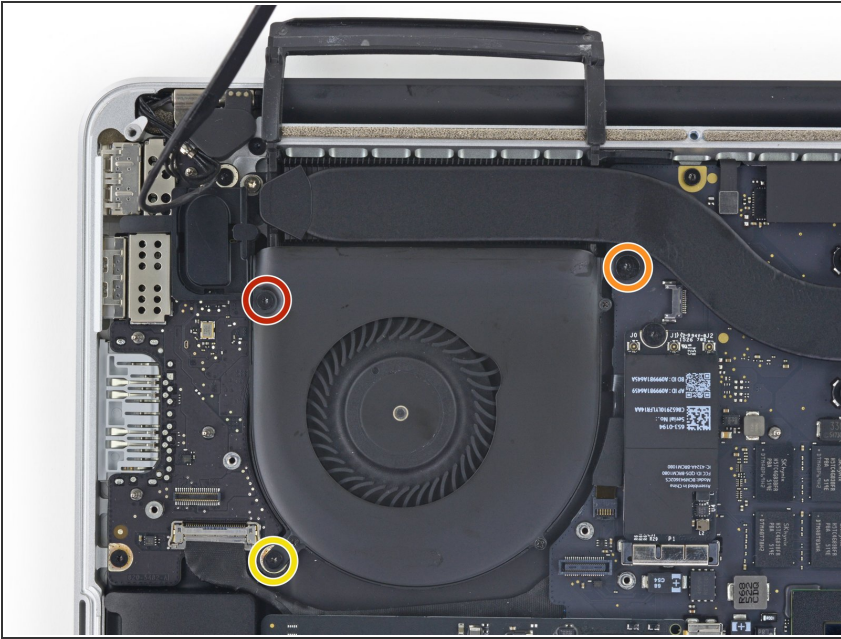© iFixit — CC BY-NC-SA www.iFixit.com Page 8 of 14

Step 12

- Remove the right connector cover.

- Use the flat end of a spudger to pry the right end of the I/O board cable up from its socket on the logic board.
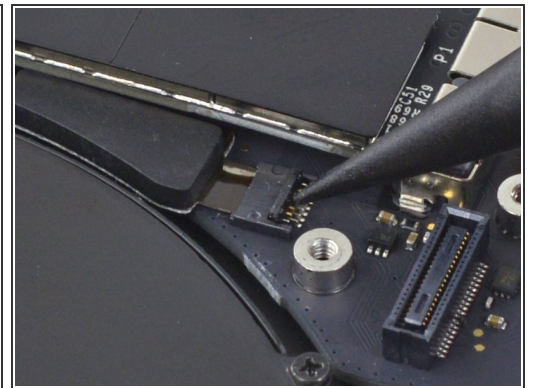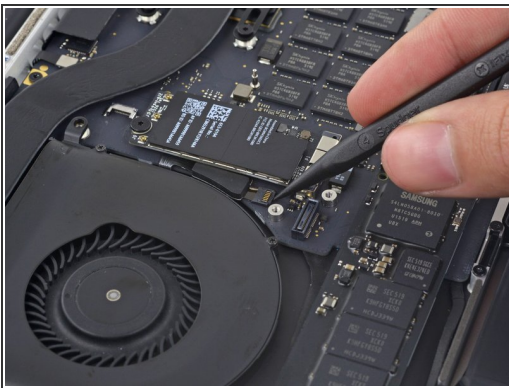
Step 13

- Peel the I/O board cable up from the adhesive securing it to the fan.

- Remove the cable.

Step 14 — Right Fan

- Use a T5 Torx driver to remove the following three screws securing the right fan to the logic board:
  - One 5.0 mm screw with a 2.0 mm long shoulder
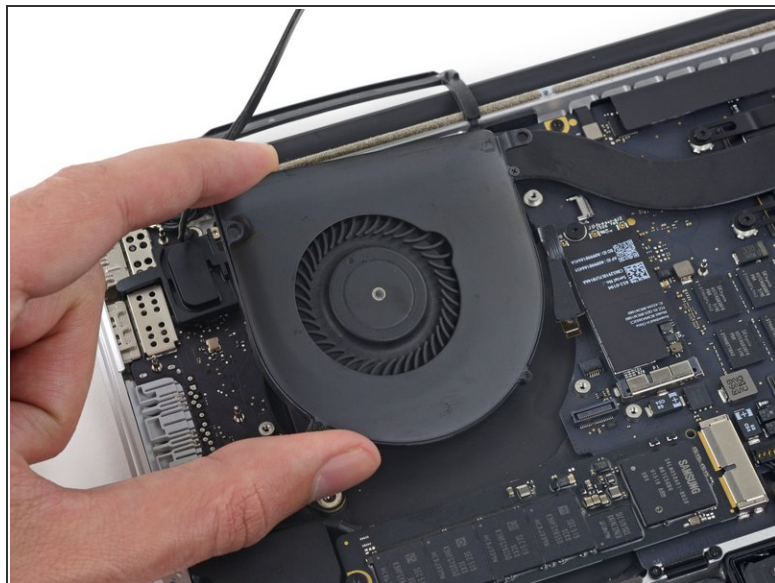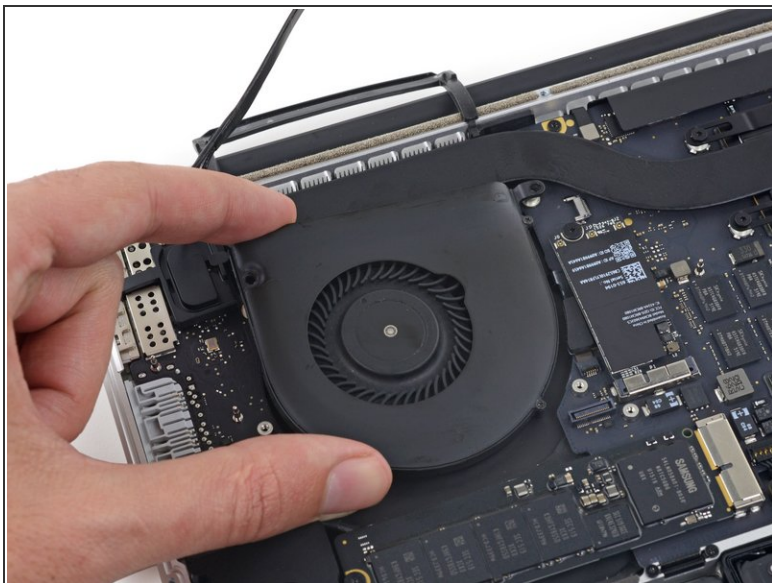 - One 4.0 mm screw with a wide head
  - One 4.4 mm screw

Step 15

- Use the tip of a spudger to flip up the retaining flap on the right fan ribbon cable ZIF socket.

⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.

Step 16

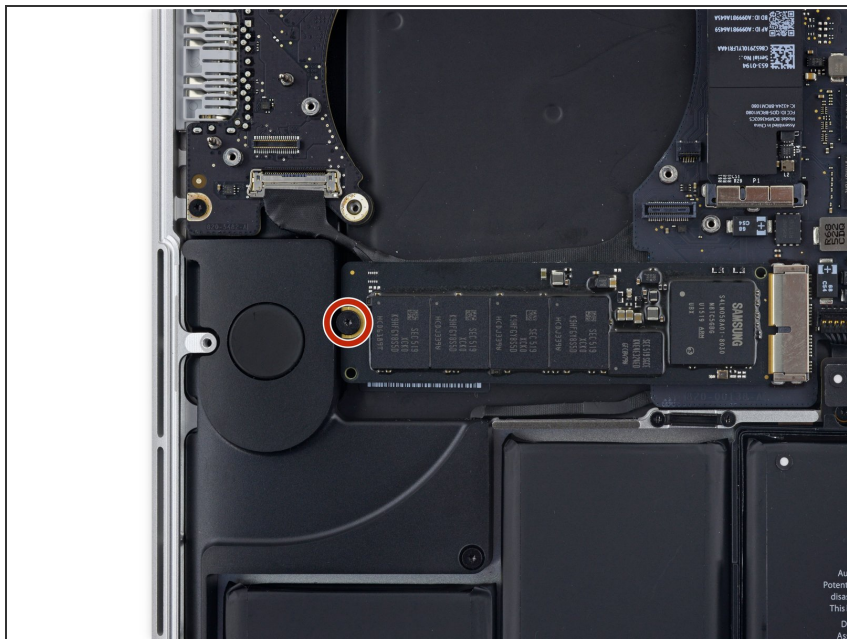- Lift the fan and push it gently towards the back edge of the MacBook to free the fan cable from its socket.

  ⚠ The fan cable may be adhered to the logic board—to avoid tearing the cable, gently peel it up while lifting the fan.

- Remove the fan.

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Step 17 — SSD

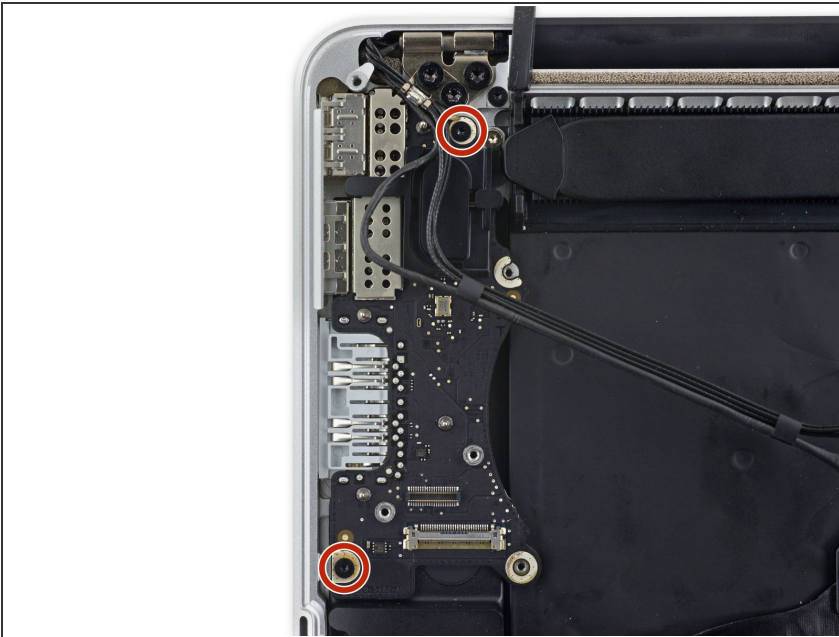● Remove the single 2.9 mm T5 Torx screw securing the SSD to the logic board.

Step 18

● Lift the end of the SSD up enough to pass over the speaker directly behind it.

⚠ Do not lift the SSD too high, or you could damage the contacts or socket.

● Pull the SSD straight out of its socket on the logic board.

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Step 19

- Use the point of a spudger to flip up the locking mechanism on the I/O board connector.

- Flip the spudger around and use the flat end to slide the I/O cable out of the connector.

- (i) Push on the opened locking mechanism for an easy way to slide the I/O cable out of the connector. This could help prevent accidental damage to the cable or connector contacts.

Step 20

- Remove the two 3.1 mm T5 Torx screws from the I/O board.

Step 21

- Slightly lift the interior edge of the I/O board and pull it toward the center of the MacBook, away from the side of the case.

- Remove the I/O board.

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

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