MacBook Air 11" Early 2015 Logic Board Replacement
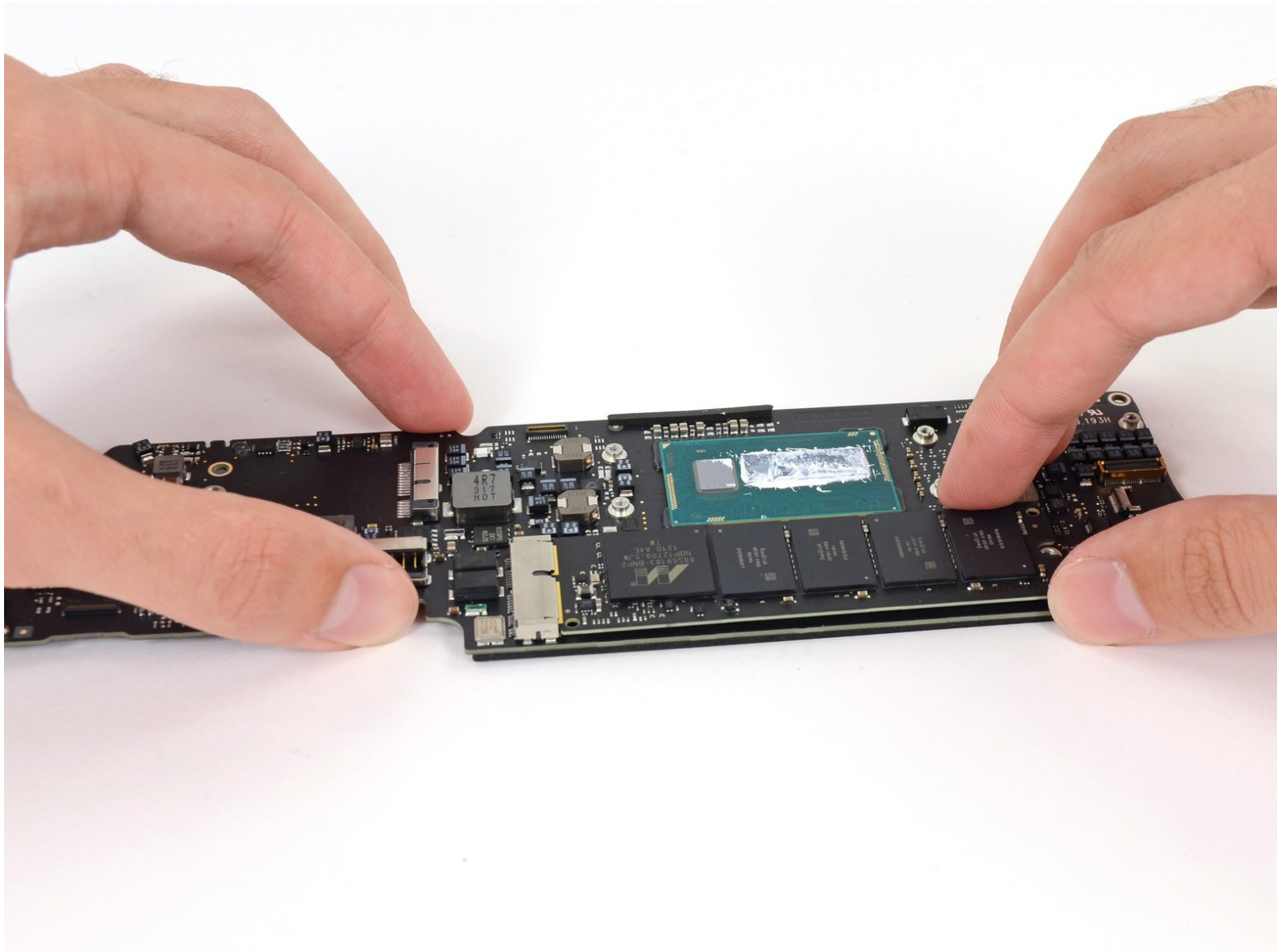
Replace the logic board in your MacBook Air 11" Early 2015.

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This document was generated on 2020-11-28 04:18:41 AM (MST).

INTRODUCTION

Use this guide to replace a faulty MacBook Air 11" Early 2015 logic board.

Be sure to apply a new layer of thermal paste before reinstalling your heat sink on the new board.

TOOLS:

- Arctic Silver ArctiClean (1)
- Arctic Silver Thermal Paste (1)
- P5 Pentalobe Screwdriver Retina MacBook Pro and Air (1)
- Spudger (1)
- T5 Torx Screwdriver (1)
- Tweezers (1)

PARTS:

- MacBook Air 11" (Early 2015) 1.6 GHz Logic Board (1)

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www.iFixit.com

Step 1 — Lower Case

- ⓘ Shut down and close your computer. Lay it on a soft surface top-side down.

- Remove the following ten screws:

  - ● Two 8 mm 5-point Pentalobe screws

  - ● Eight 2.5 mm 5-point Pentalobe screws

- ⓘ The special screwdriver needed to remove the 5-point Pentalobe screws can be found here.

Step 2

- Wedge your fingers between the display and the lower case and pull upward to pop the lower case off the Air.

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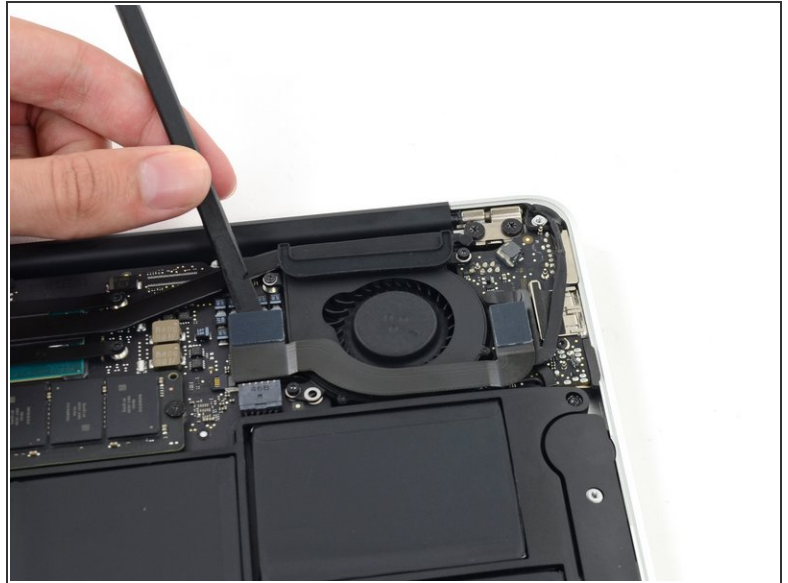
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Step 3 — Battery Connector

⚠️ In this step you will disconnect the battery to help avoid shorting out any components during service.

- Use the flat end of a spudger to pry both short sides of the battery connector upward to disconnect it from its socket on the logic board.

- Bend the battery cable slightly away from the logic board so the connector will not accidentally bend back and make contact with its socket.

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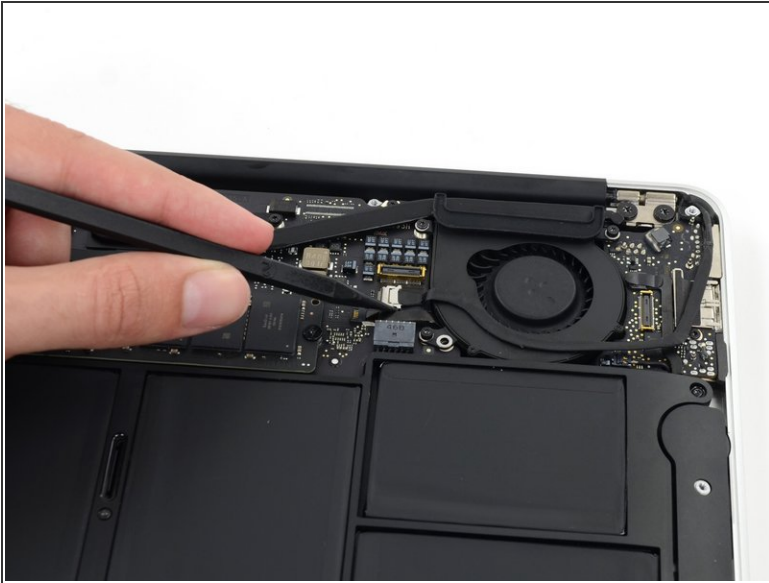
Step 4 — I/O Board Cable

- Use the flat end of a spudger to pry the left and right I/O board cable connectors up off their respective sockets on the I/O board.

Step 5

- Lift and remove the I/O board cable.

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Step 6 — Fan

- Use the tip of a spudger to carefully push on each side of the iSight camera cable connector to loosen it out of its socket on the logic board.
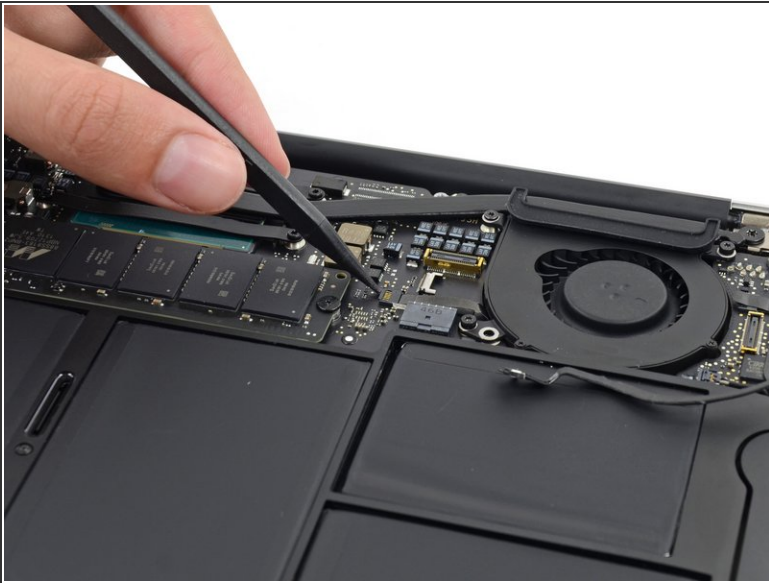
- (i) We recommend you gently "walk" the connector out of its socket.

Step 7

- Peel the iSight camera cable up off the adhesive securing it to the fan.

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Step 8

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

⚠️ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.
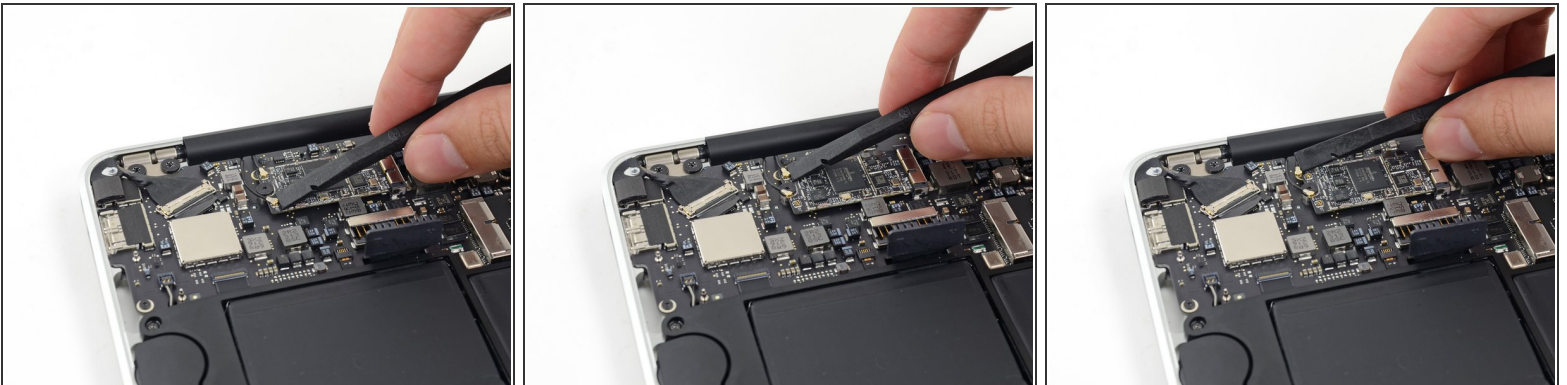
Step 9

- Remove the following three screws securing the fan to the upper case:
  - Two 5.5 mm T5 Torx screws
  - One 4.6 mm T5 Torx screw
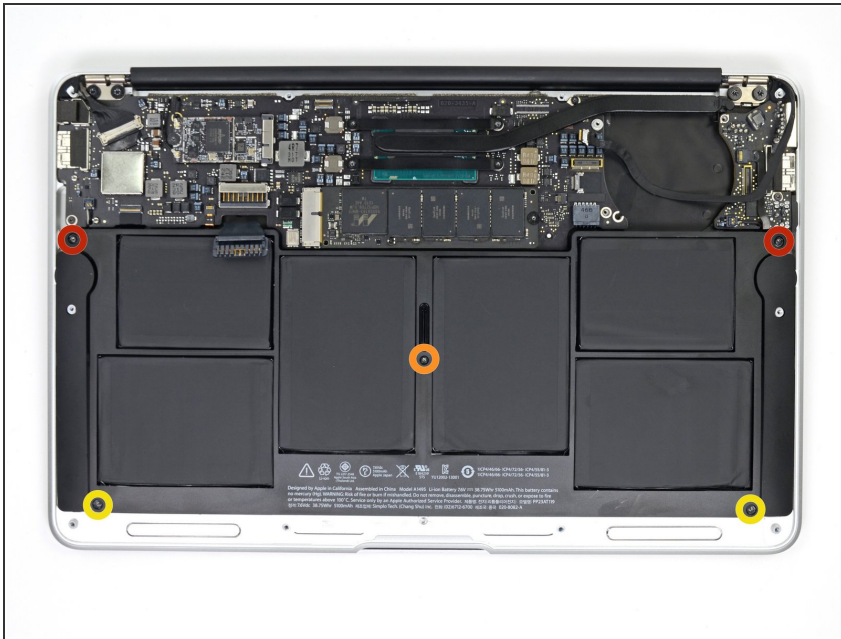   - ℹ️ In some models this is a 3.6 mm T5 Torx screw.

Step 10

- Lift, but **do not** remove the fan out of its recess in the upper case.

- Carefully pull the fan ribbon cable out of its socket as you remove the fan from the Air.

Step 11 — Logic Board Assembly

- Use the flat end of a spudger to pry both antenna connectors up from their sockets on the AirPort/Bluetooth card, and move them out of the way.
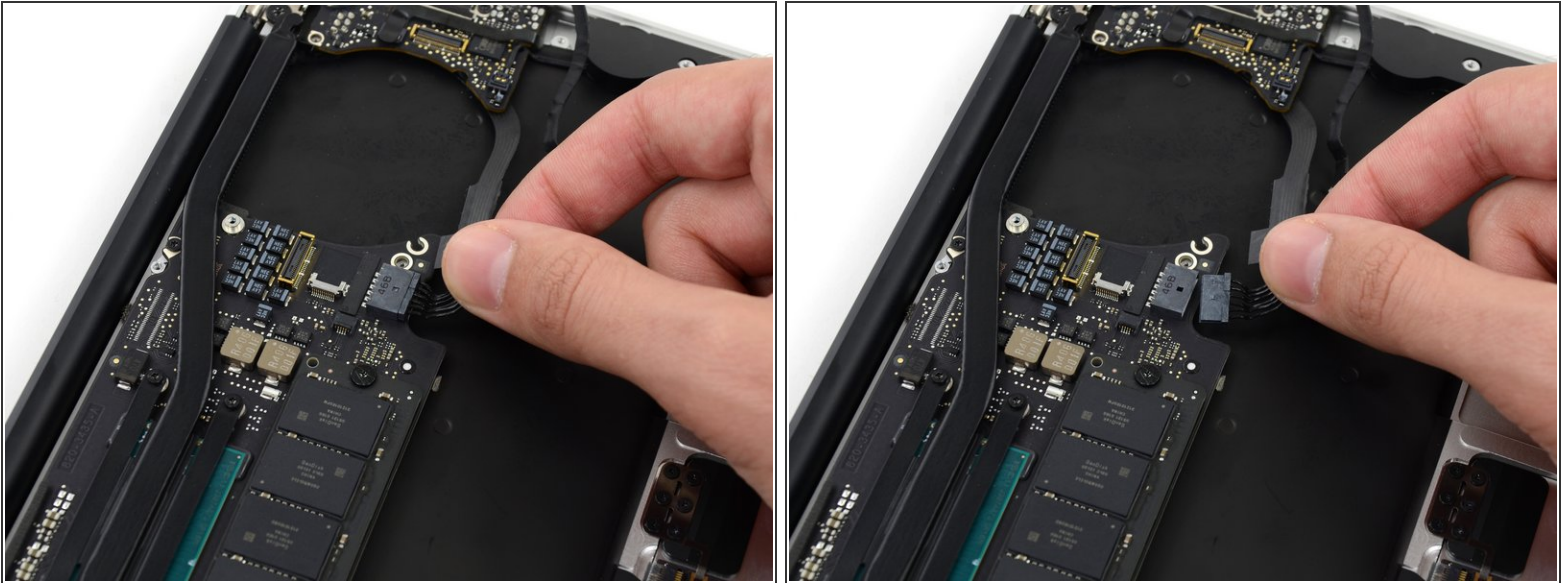
Step 12

- Remove the following five screws securing the battery to the upper case:
  - Two 5.2 mm T5 Torx screws
  - One 6 mm T5 Torx screw
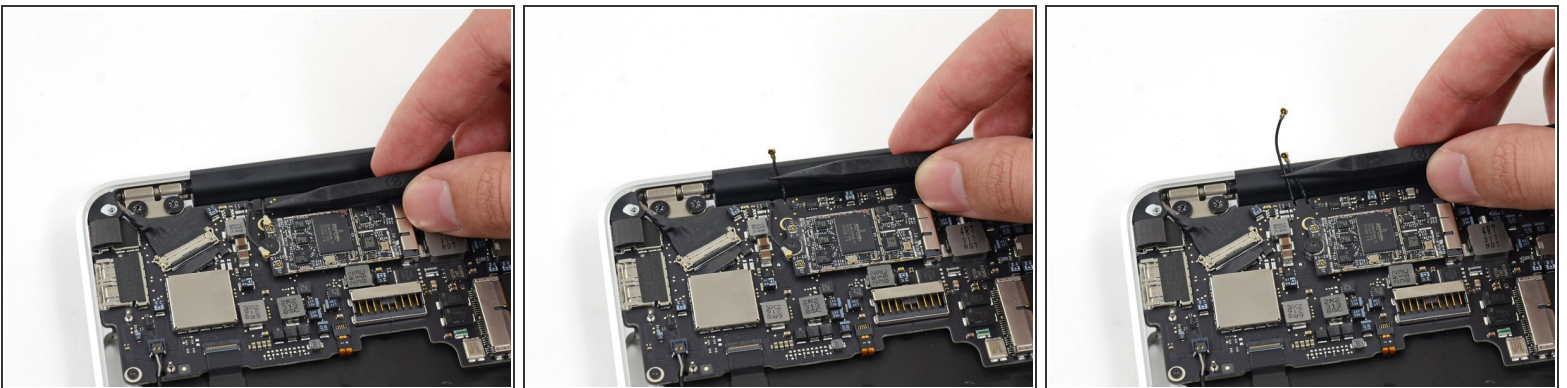 - Two 2.6 mm T5 Torx screws

Step 13

- ⚠️ When handling the battery, avoid squeezing or touching the six exposed lithium polymer cells.

- Lift the battery from its edge nearest the logic board and remove it from the upper case.
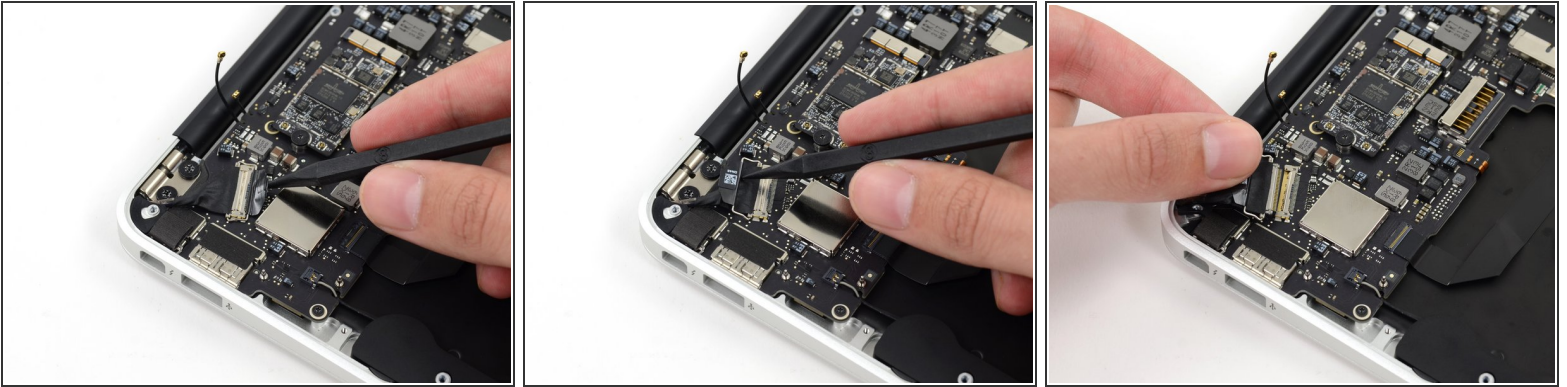
Step 14

- Disconnect the I/O board by pulling the power cable away from its socket on the logic board.

- (i) Pull the cable parallel to the face of the logic board toward the front edge of the Air.

Step 15

- Use the tip of a spudger to de-route the antenna cables from their notches in the logic board.

Step 16

- Gently push the tip of a spudger under the black plastic flap stuck to the display data cable lock to make the lock pop upward and away from the socket.

- While holding the lock away from the socket, gently pull the display data cable out of its socket.

⚠️ Do not pull upward on the display data cable as you disconnect it, as its socket may break off the logic board.

Step 17

- Use the tip of a spudger to pry under the speaker cable connector, lifting it straight up from its socket.

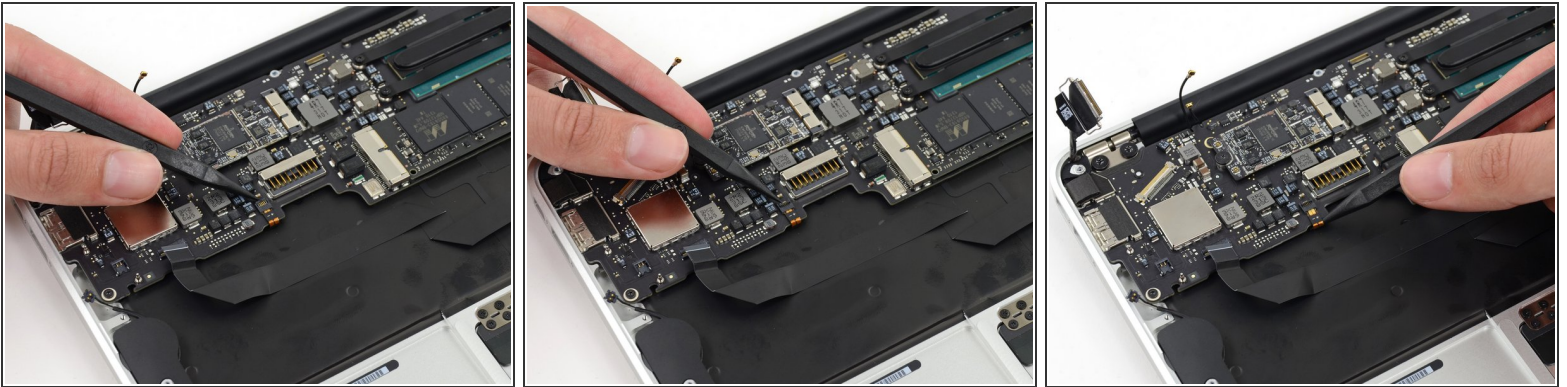- De-route the cable from its notch in the logic board.

Step 18

- Use the tip of a spudger or your fingernail to flip up the retaining flap on the trackpad ribbon cable ZIF socket.

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

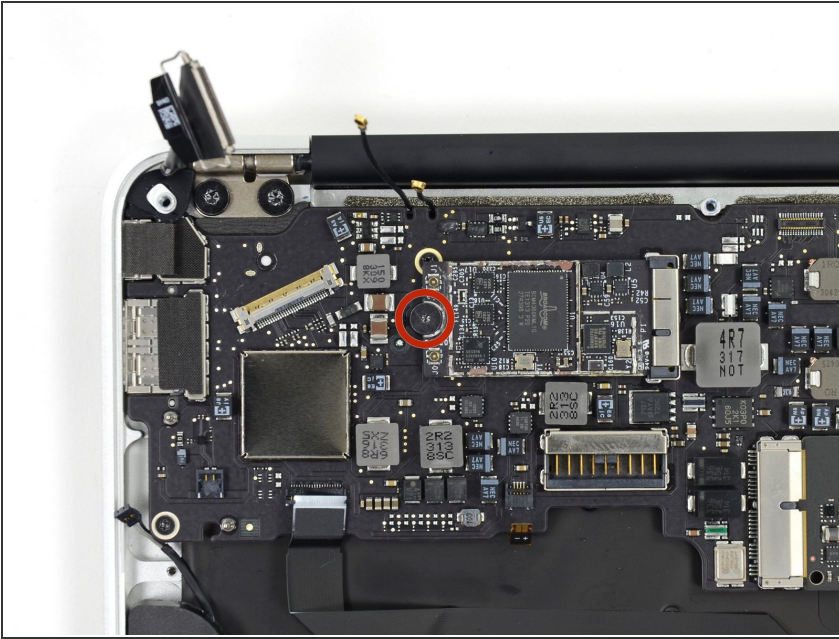- Pull the trackpad ribbon cable straight out of its socket toward the front edge of the Air.

Step 19

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

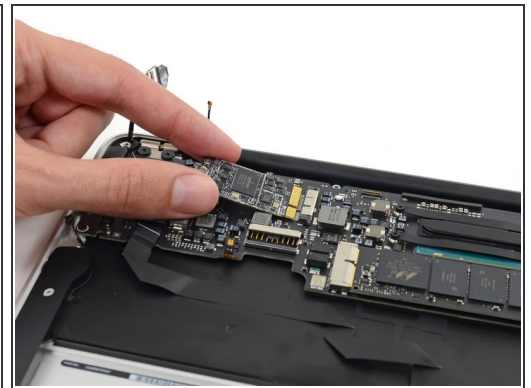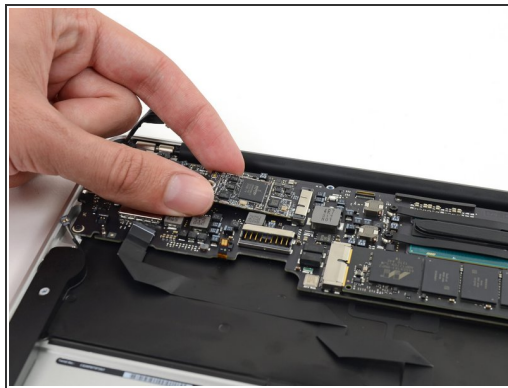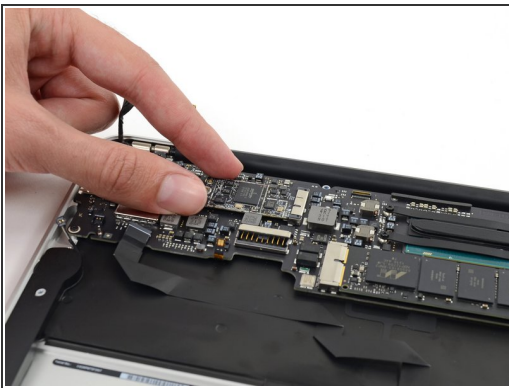⚠️ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.

- Pull the keyboard backlight ribbon cable out of its socket.

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Step 20

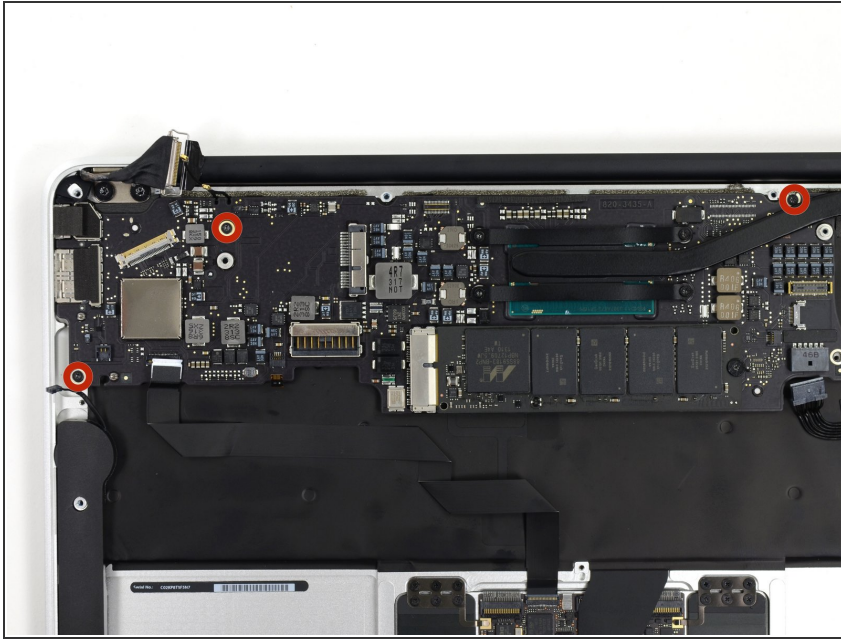- Remove the single 2.9 mm T5 Torx screw securing the AirPort/Bluetooth card to the logic board.

Step 21

- Slightly lift the free end of the AirPort/Bluetooth board and pull it out of its socket on the logic board.
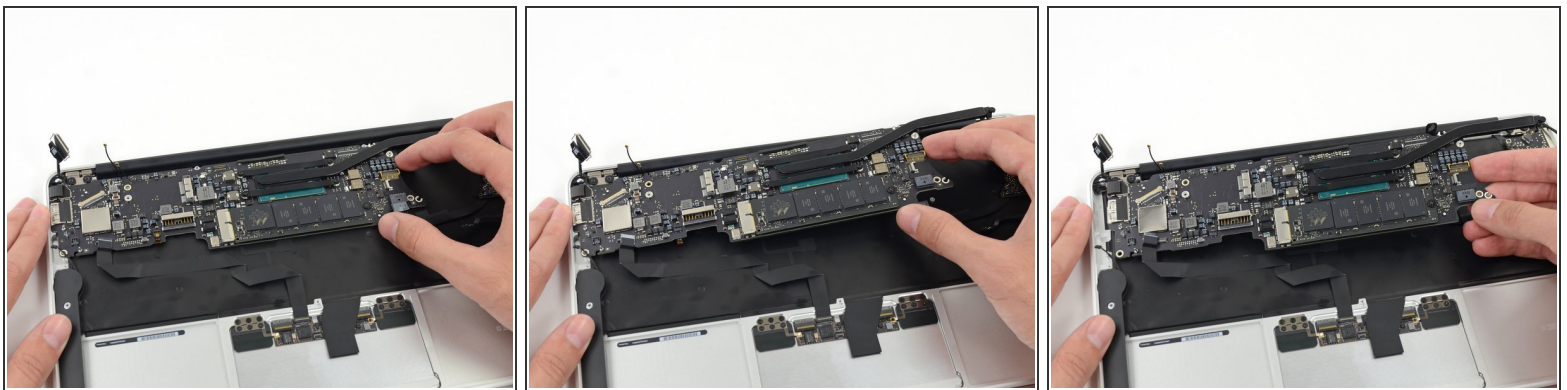
⚠ To avoid damaging its socket on the logic board, do **not** excessively lift the free end of the AirPort/Bluetooth card.
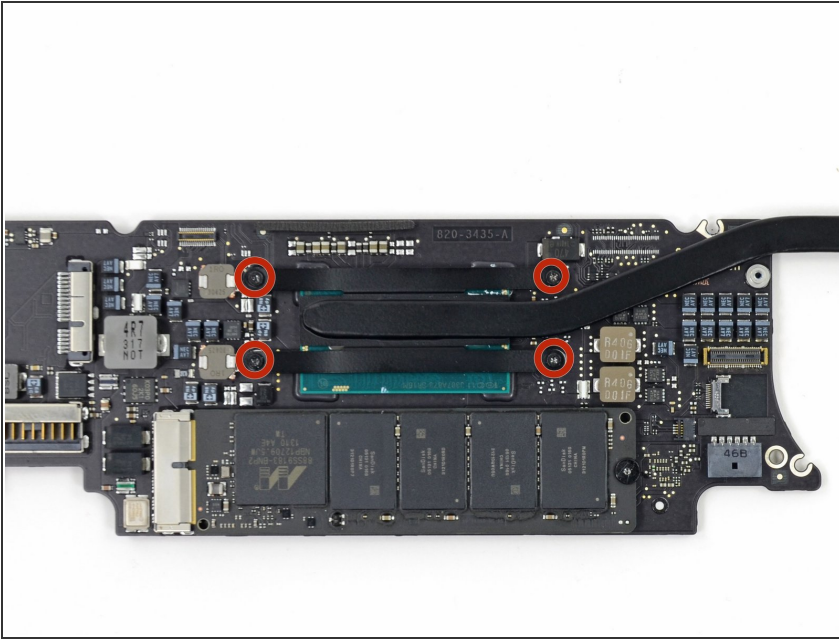
Step 22

- ● Remove the three 3.6 mm T5 Torx screws securing the logic board to the upper case.

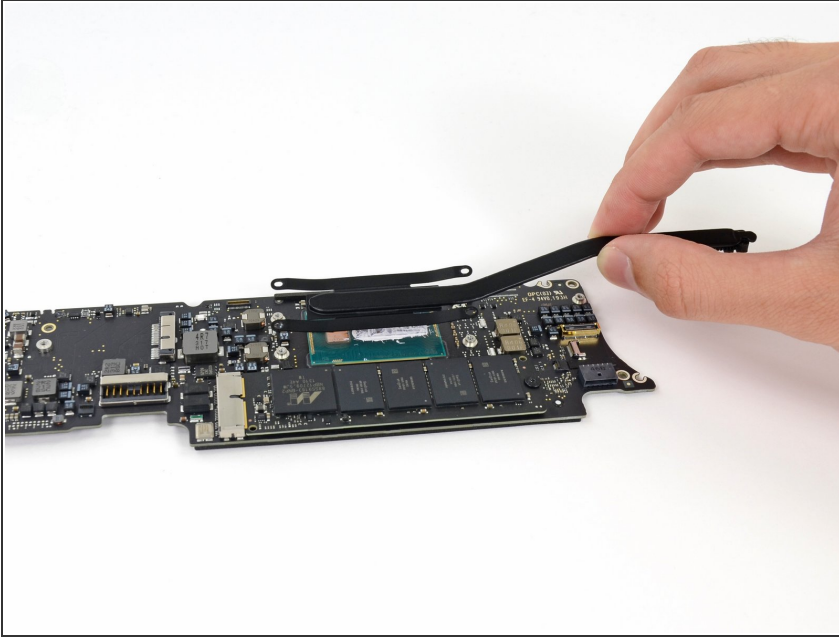- ● In some models these are 3.1 mm T5 Torx screws.

Step 23

- ● Gently lift the logic board assembly from the heat sink end and pull it away from the port side of the case to remove it from the Air.

- ⊡ When replacing the logic board, insert the board's rubber edge under the port-side rubber gasket, then lower the board into place.
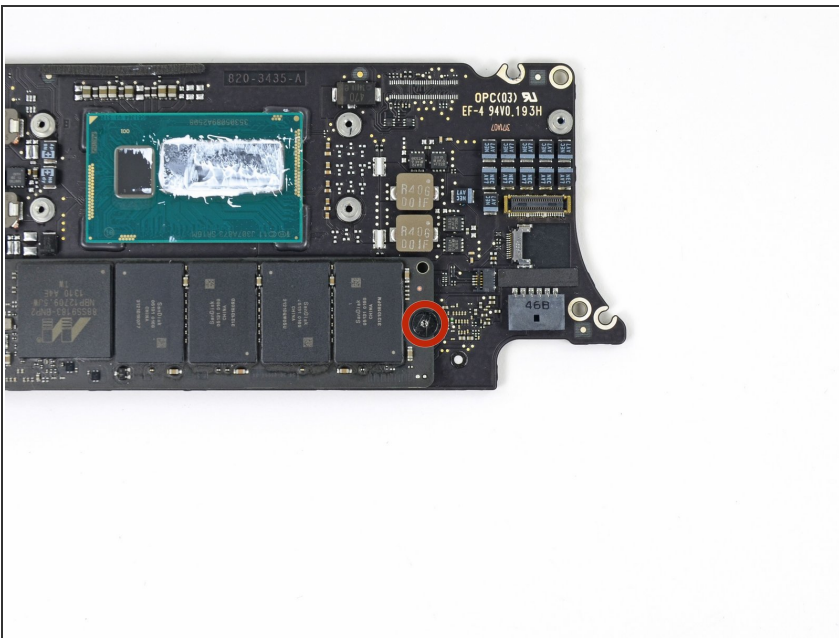
Step 24 — Logic Board

- Remove the four 2.5 mm T5 Torx screws securing the heat sink to the logic board.
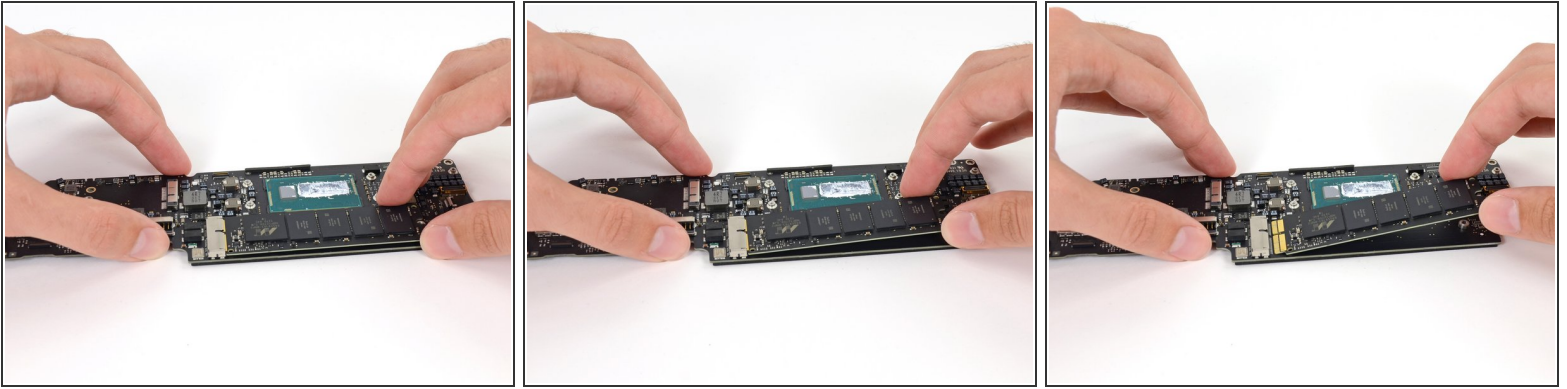
Step 25

- If the heat sink seems to be stuck to the logic board after removing all four screws, use a spudger to carefully separate the heat sink from the faces of the CPU.

- Remove the heat sink from the logic board.

- When reinstalling the heat sink, be sure to apply a new layer of thermal paste. If you have never applied thermal paste before, we have a guide that makes it easy.

Step 26

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

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Step 27

- Lift the free end of the SSD just enough to get a good hold of it.

⚠️ Do not excessively lift the end of the SSD.

- Pull the drive straight out of its socket and remove it from the logic board.

📌 When reinstalling the SSD, be sure it is properly seated before reinstalling its retaining screw.

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

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