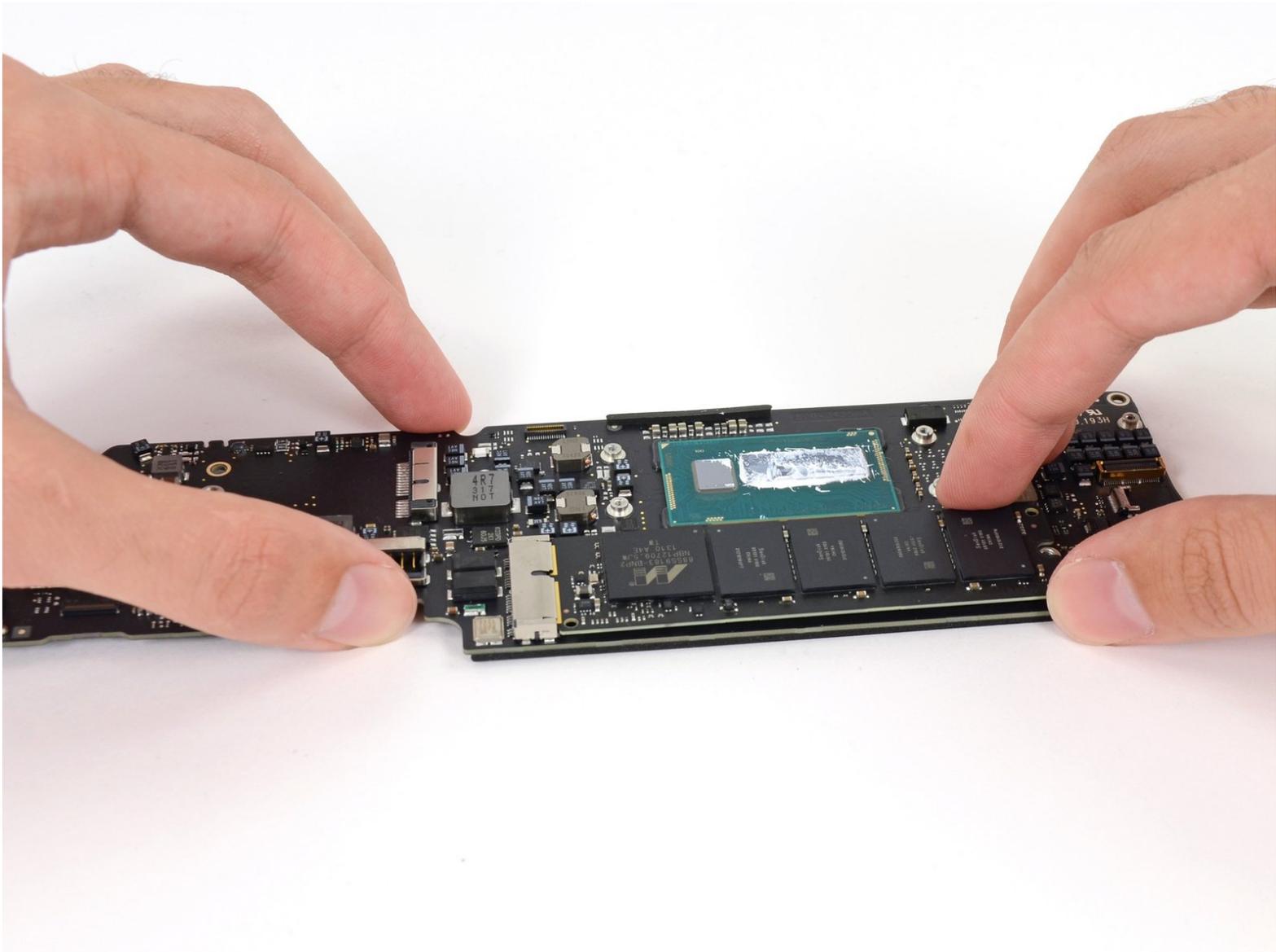




MacBook Air 11" Early 2014 Logic Board Replacement

Replace the Logic Board in your MacBook Air 11" Early 2014.

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INTRODUCTION

Use this guide to replace the logic board.

Be sure to [apply a new layer of thermal paste](#) before reinstalling your heat sink on the new board.

TOOLS:

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

PARTS:

- [MacBook Air 11" \(Early 2014\) 1.4 GHz Logic Board](#) (1)
- [MacBook Air 11" \(Mid 2013-Early 2014\) 1.7 GHz Logic Board](#) (1)

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.

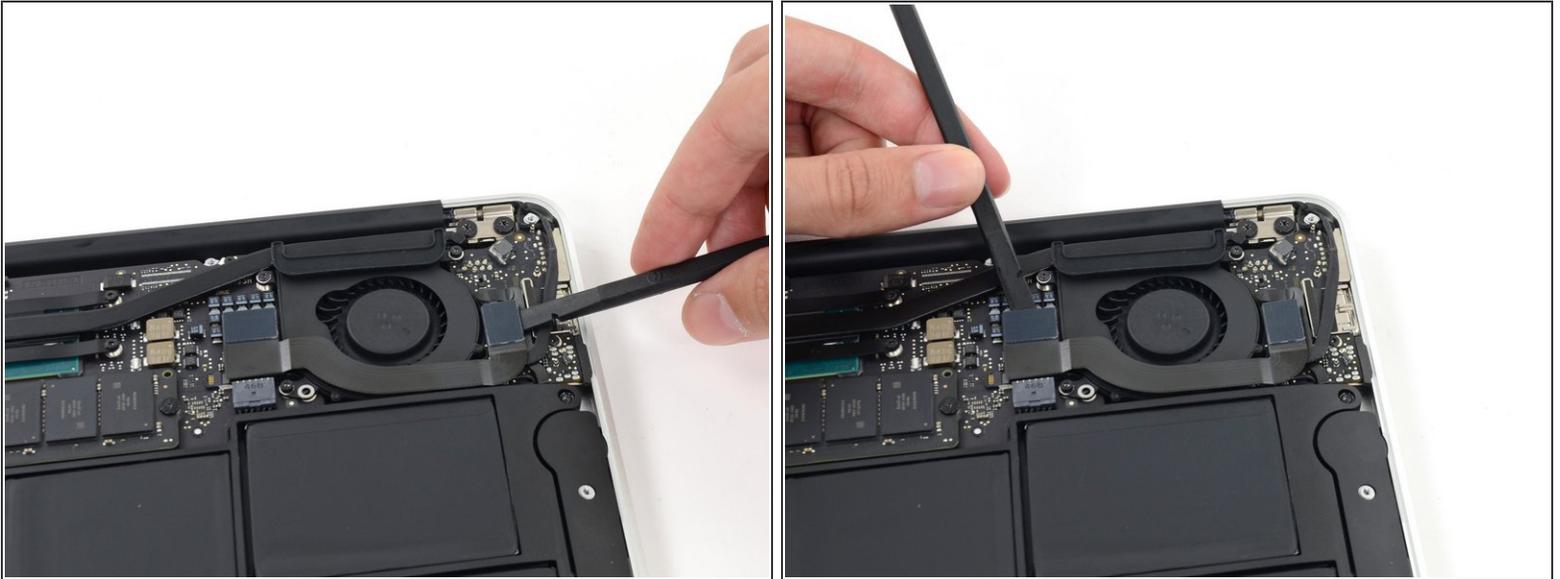
Step 3 — Battery Connector



! 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.

Step 4 — I/O Board Cable



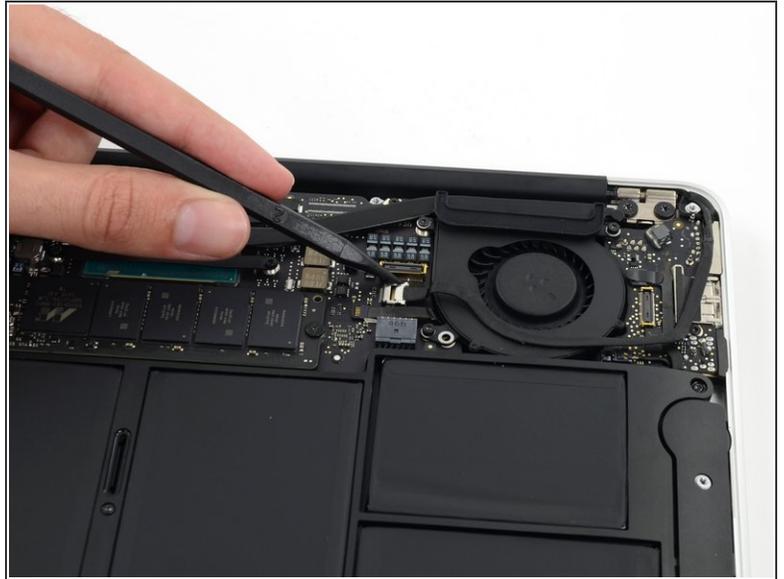
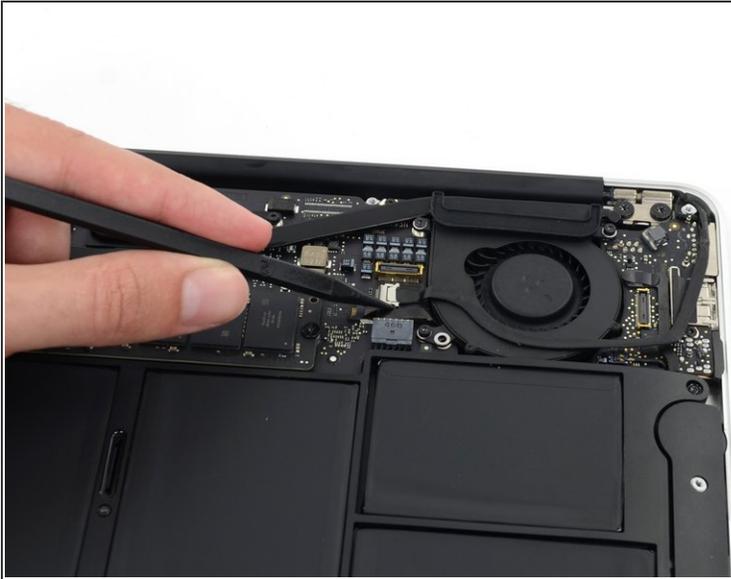
- Use the flat end of a spudger to pry the left and right I/O board cable connectors up off their respective sockets on the I/O board.

Step 5



- Lift and remove the I/O board cable.

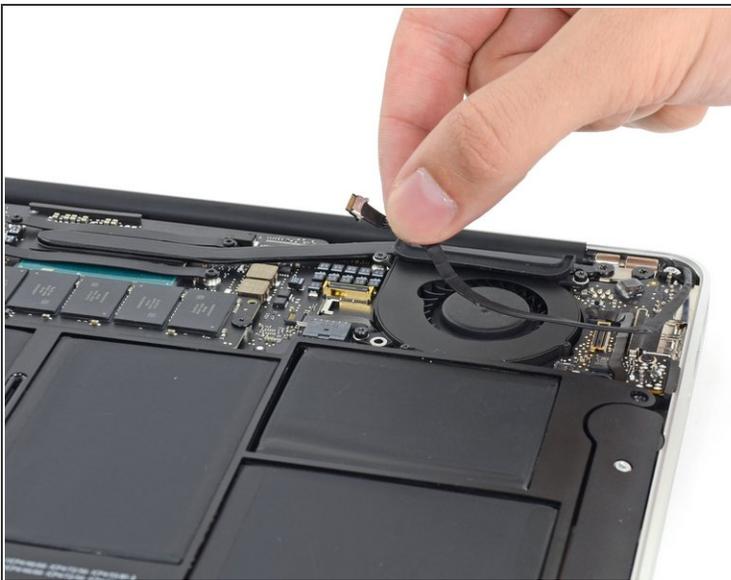
Step 6 — Fan



- 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.

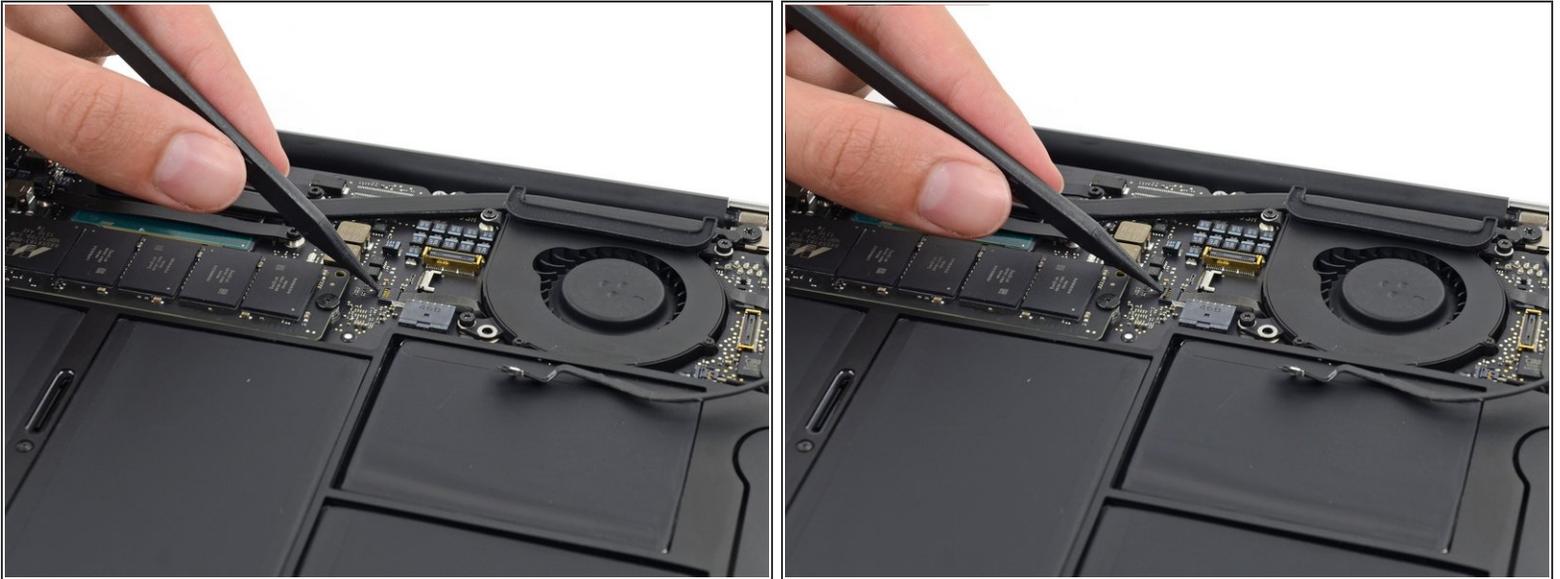
i We recommend you gently "walk" the connector out of its socket.

Step 7



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

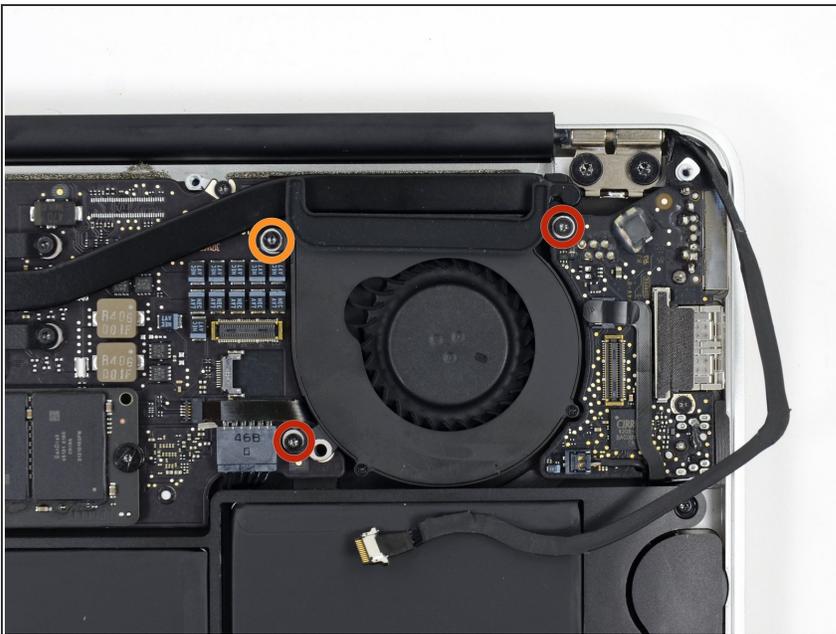
Step 8



- 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



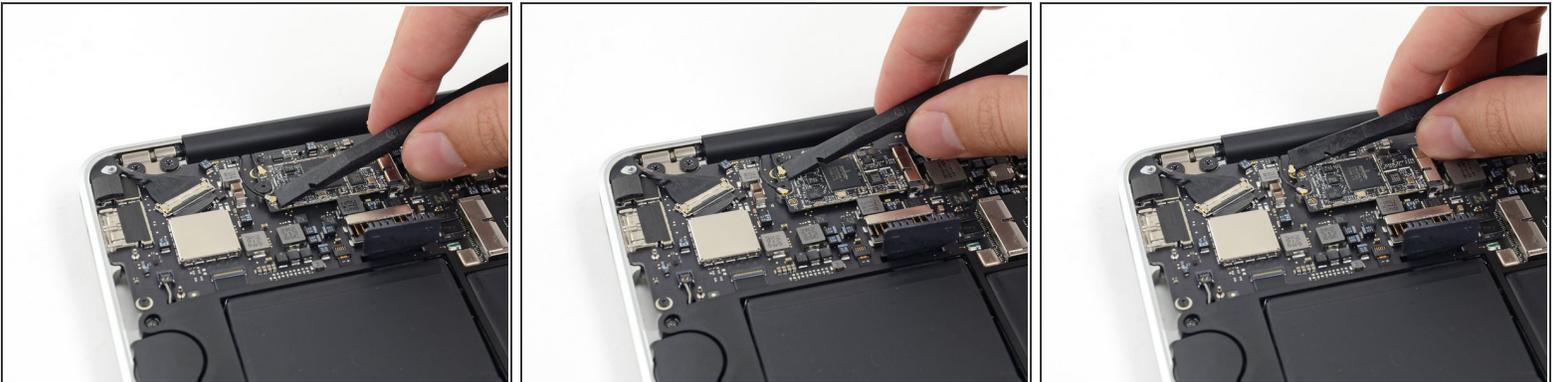
- Remove the following three screws securing the fan to the upper case:
 - Two 5.5 mm T5 Torx screws
 - One 4.6 mm T5 Torx screw
 - ⓘ In some models this is a 3.6 mm T5 Torx screw.

Step 10



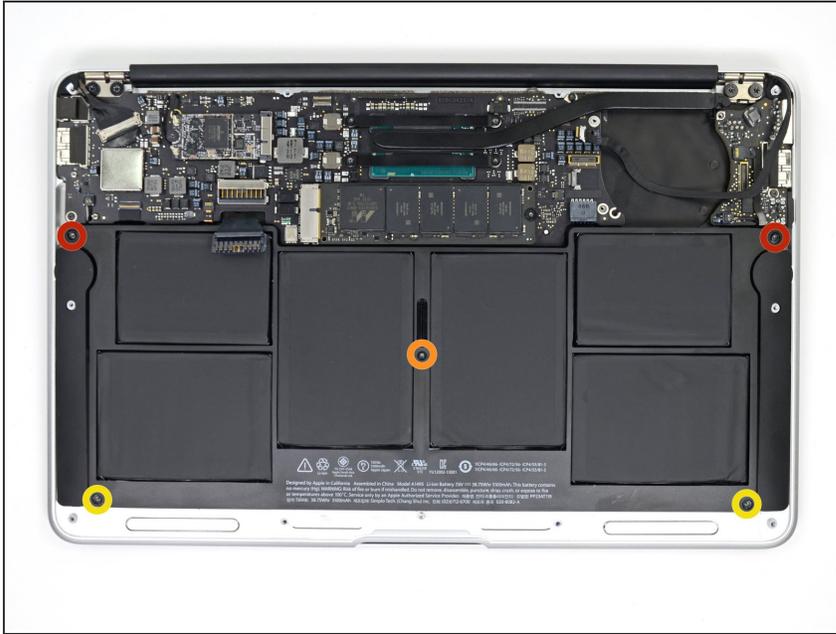
- Lift, but **do not** remove the fan out of its recess in the upper case.
- Carefully pull the fan ribbon cable out of its socket as you remove the fan from the Air.

Step 11 — Logic Board Assembly



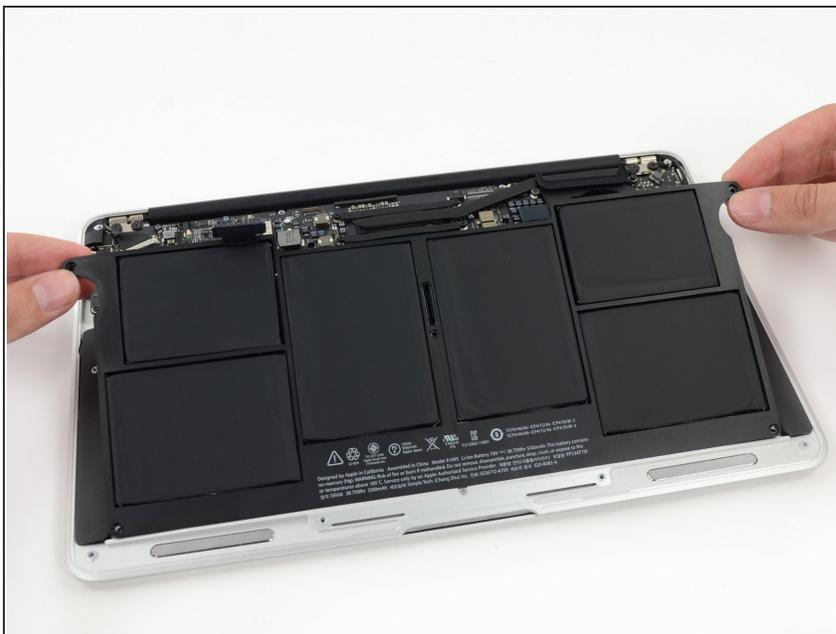
- Use the flat end of a spudger to pry both antenna connectors up from their sockets on the AirPort/Bluetooth card, and move them out of the way.

Step 12



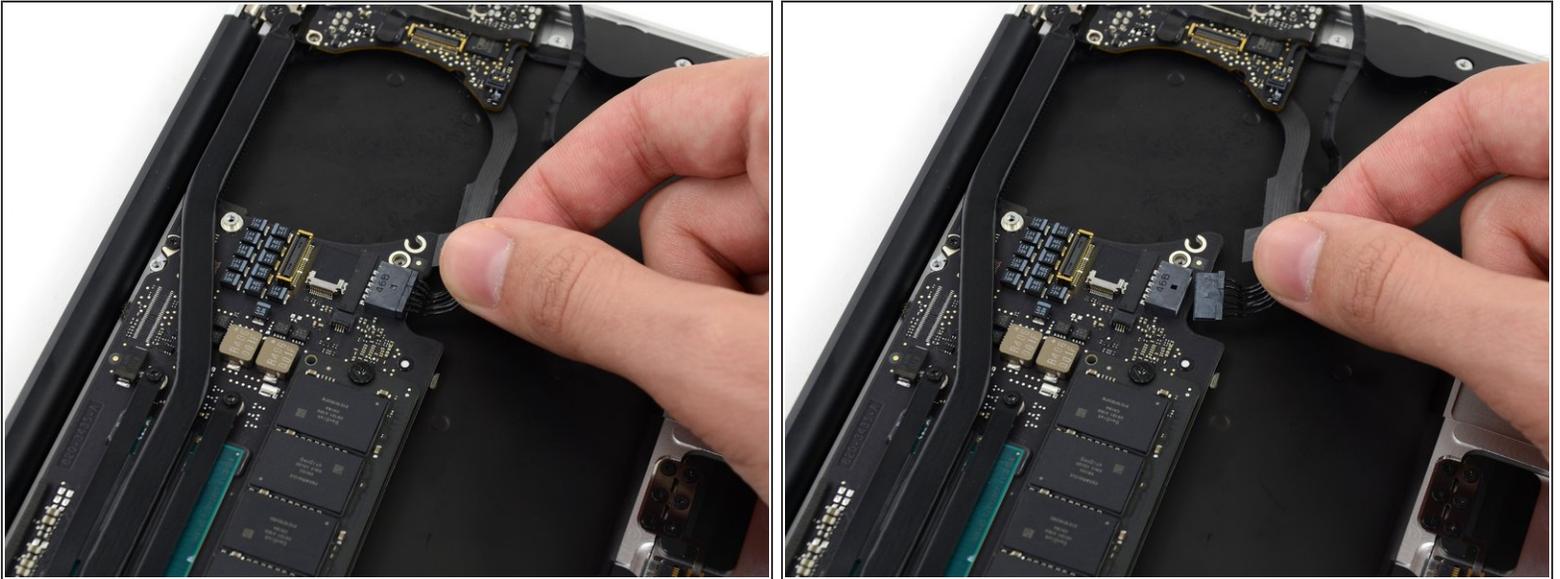
- Remove the following five screws securing the battery to the upper case:
 - Two 5.2 mm T5 Torx screws
 - One 6 mm T5 Torx screw
 - Two 2.6 mm T5 Torx screws

Step 13



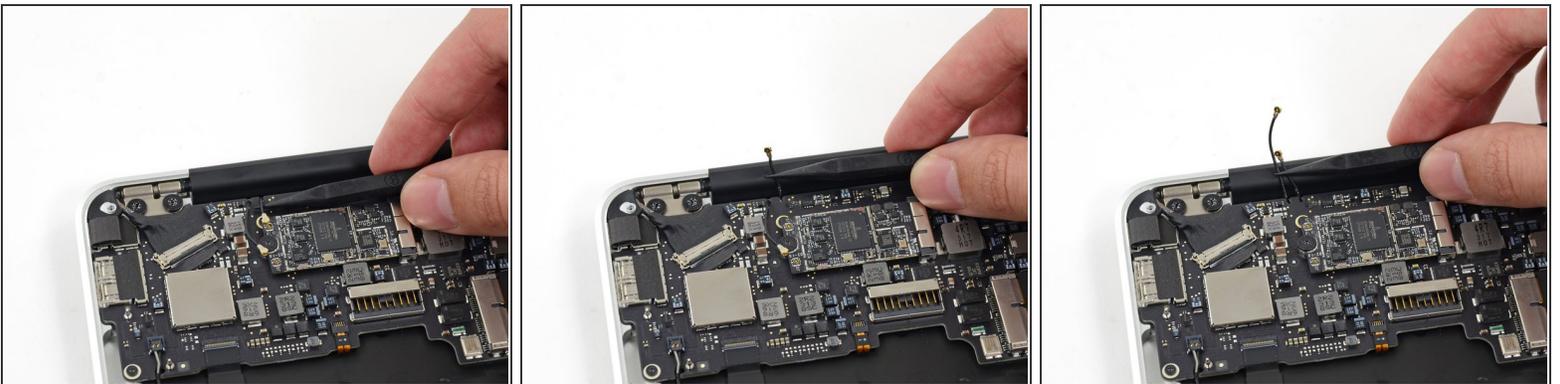
- ⚠ When handling the battery, avoid squeezing or touching the six exposed lithium polymer cells.
- Lift the battery from its edge nearest the logic board and remove it from the upper case.

Step 14



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

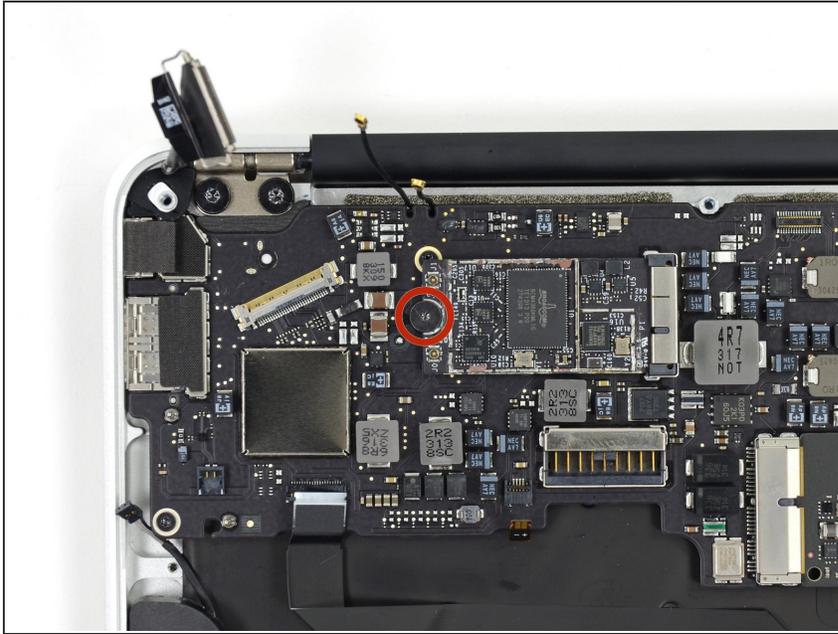


- Use the tip of a spudger to flip up the retaining flap on the keyboard backlight ribbon cable ZIF socket.

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

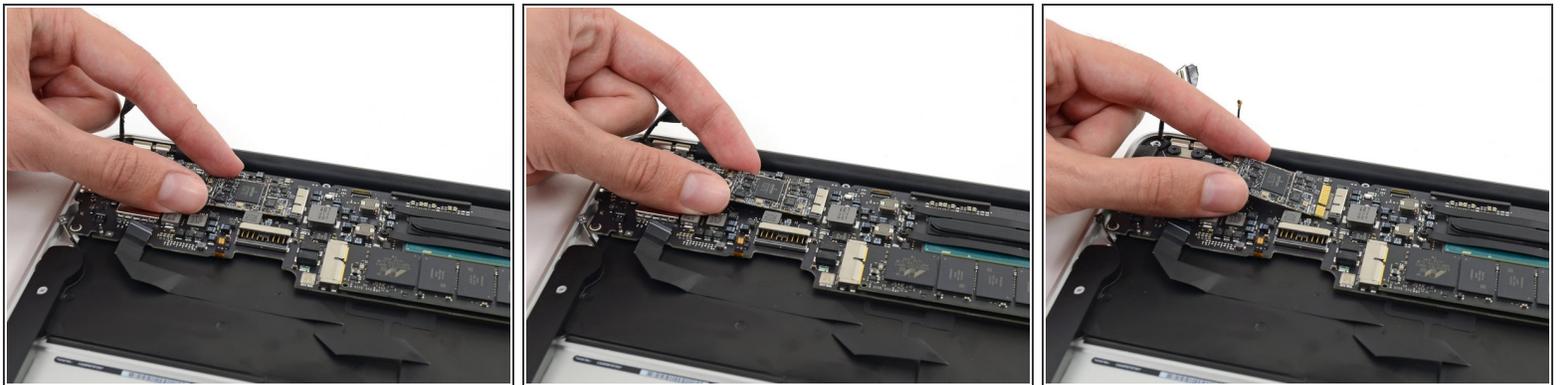
- Pull the keyboard backlight ribbon cable out of its socket.

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.

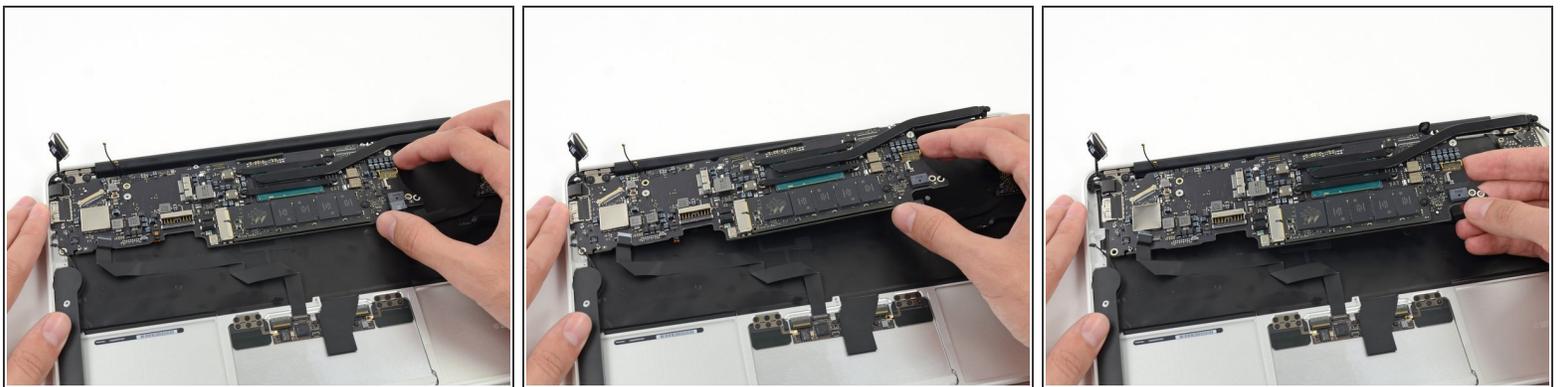
⚠ To avoid damaging its socket on the logic board, do **not** excessively lift the free end of the AirPort/Bluetooth card.

Step 22



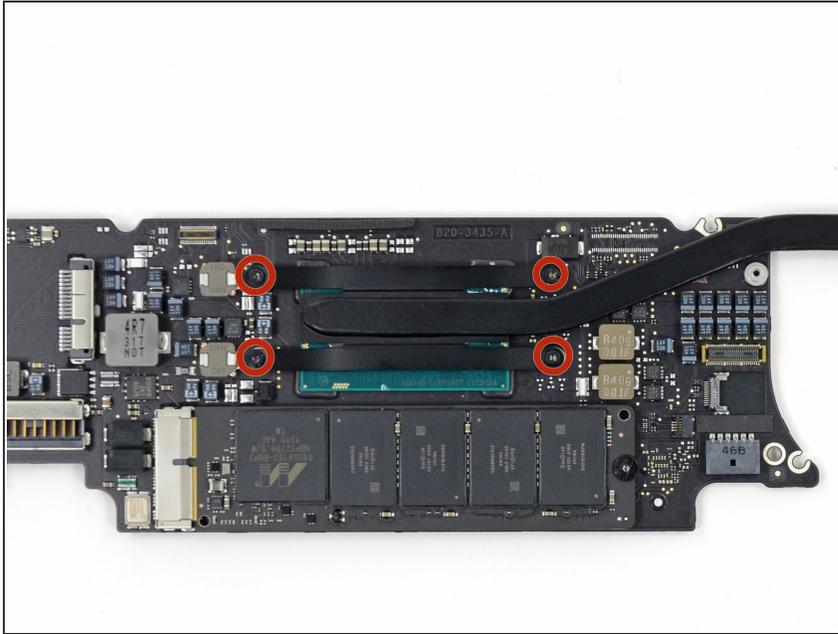
- Remove the three 3.6 mm T5 Torx screws securing the logic board to the upper case.
- In some models these are 3.1 mm T5 Torx screws.

Step 23



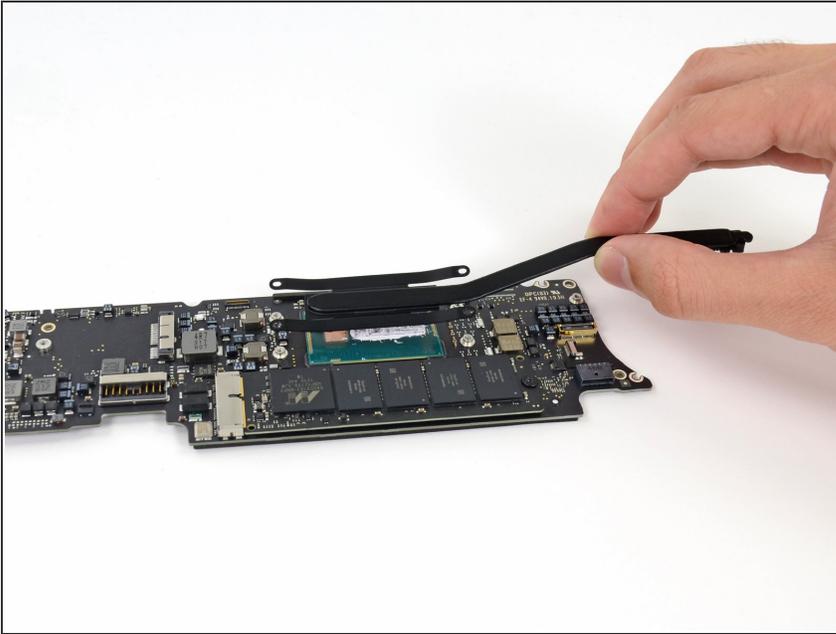
- Gently lift the logic board assembly from the heat sink end and pull it away from the port side of the case to remove it from the Air.
- ☑ When replacing the logic board, insert the board's rubber edge under the port-side rubber gasket, then lower the board into place.

Step 24 — Logic Board



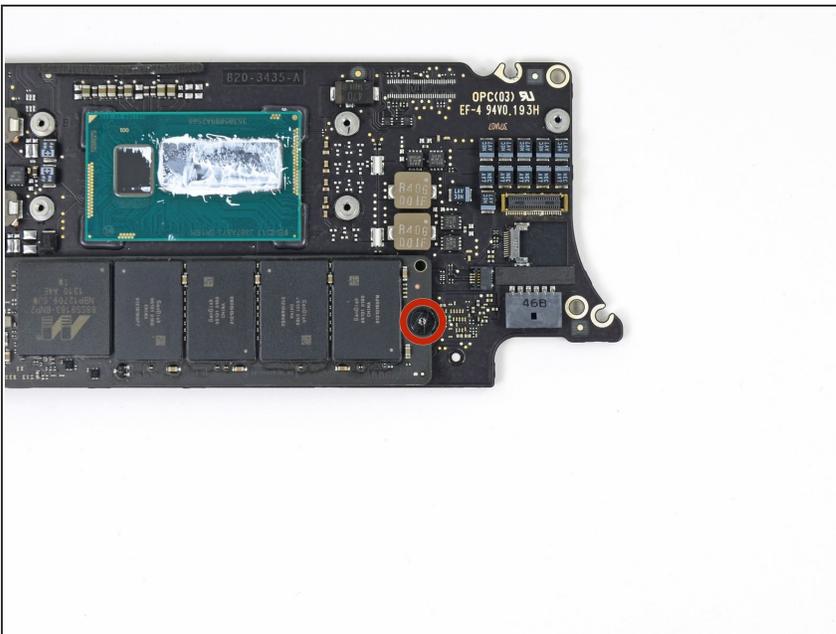
- Remove the four 2.5 mm T5 Torx screws securing the heat sink to the logic board.

Step 25



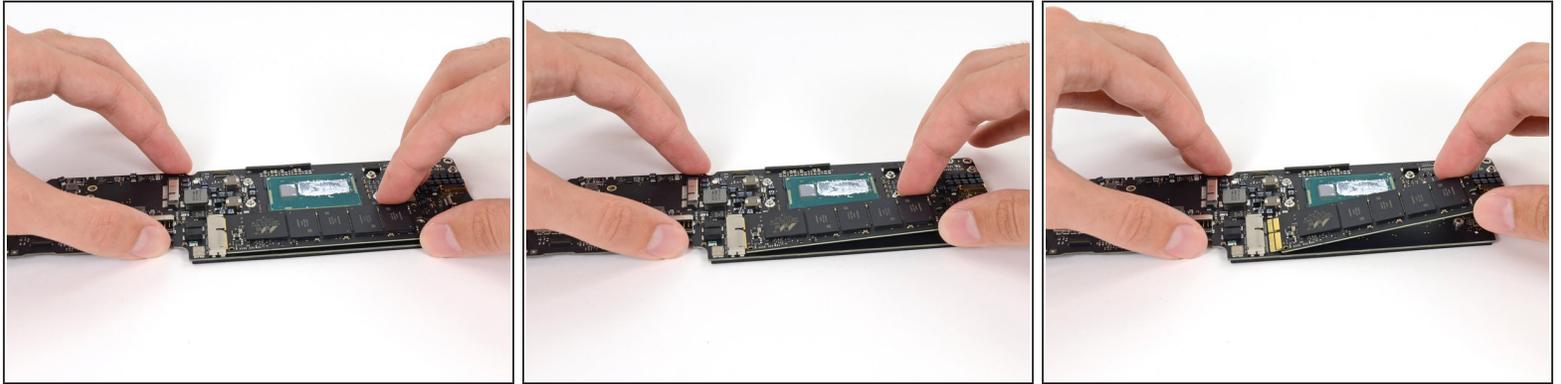
- If the heat sink seems to be stuck to the logic board after removing all four screws, use a spudger to carefully separate the heat sink from the faces of the CPU.
- Remove the heat sink from the logic board.
- When reinstalling the heat sink, be sure to apply a new layer of [thermal paste](#). If you 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.

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.