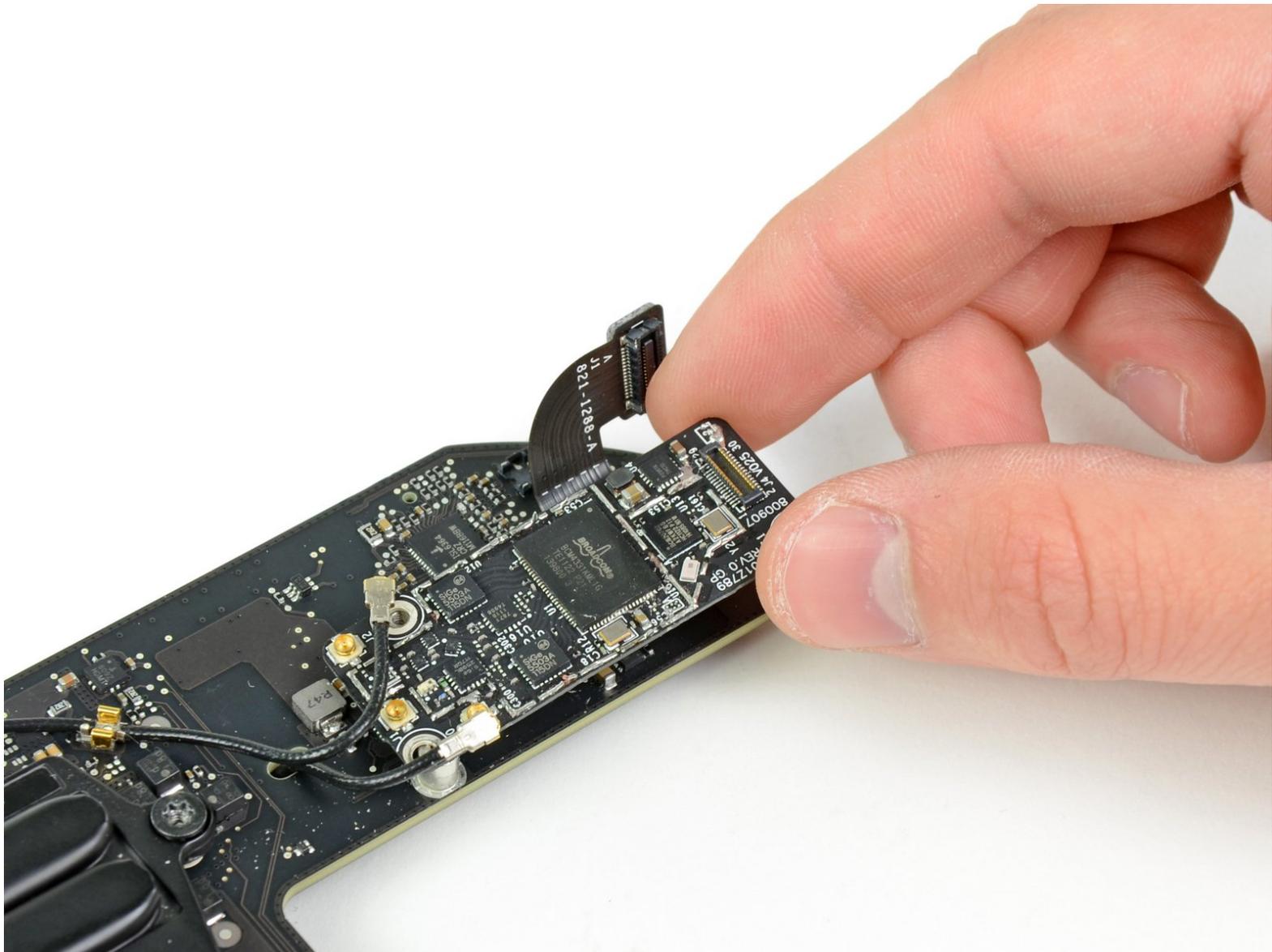




Mac mini Late 2012 AirPort/Bluetooth Board Replacement

Replace the AirPort/Bluetooth board in your Late 2012 mini.

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INTRODUCTION

Use this guide to replace a broken AirPort/Bluetooth board to regain wireless capability.

TOOLS:

- [2 mm Hex Screwdriver](#) (1)
- [Mac Mini Logic Board Removal Tool](#) (1)
- [Spudger](#) (1)
- [T6 Torx Screwdriver](#) (1)
- [T8 Torx Screwdriver](#) (1)

PARTS:

- [Mac mini A1347 \(Mid 2011\) Airport Card](#) (1)

Step 1 — Bottom Cover



- Place your thumbs in the depressions cut into the bottom cover.
- Rotate the bottom cover counter-clockwise until the white dot painted on the bottom cover is aligned with the ring inscribed on the outer case.
- ⓘ You do not need to apply much downward pressure while turning.

Step 2



- Tilt the mini enough to allow the bottom cover to fall away from the outer case.
- Remove the bottom cover and set it aside.

Step 3 — Fan



- Remove the two 11.3 mm T6 Torx screws securing the fan to the logic board near the antenna plate.

Step 4



- Lift the ear of the fan nearest the RAM up off the standoff secured to the outer case.
- ⓘ Removing the standoff screw is not necessary to remove the fan. You need only raise the fan enough to lift it off the standoff screw.

Step 5



- Lift the fan out of the mini for enough clearance to access its connector.
- Grab all the wires at once and gently pull straight up to disconnect the fan from the logic board.
⚠ Do **not** pry at the socket, or you may rip it from the logic board.
- Remove the fan.

Step 6 — Cowling



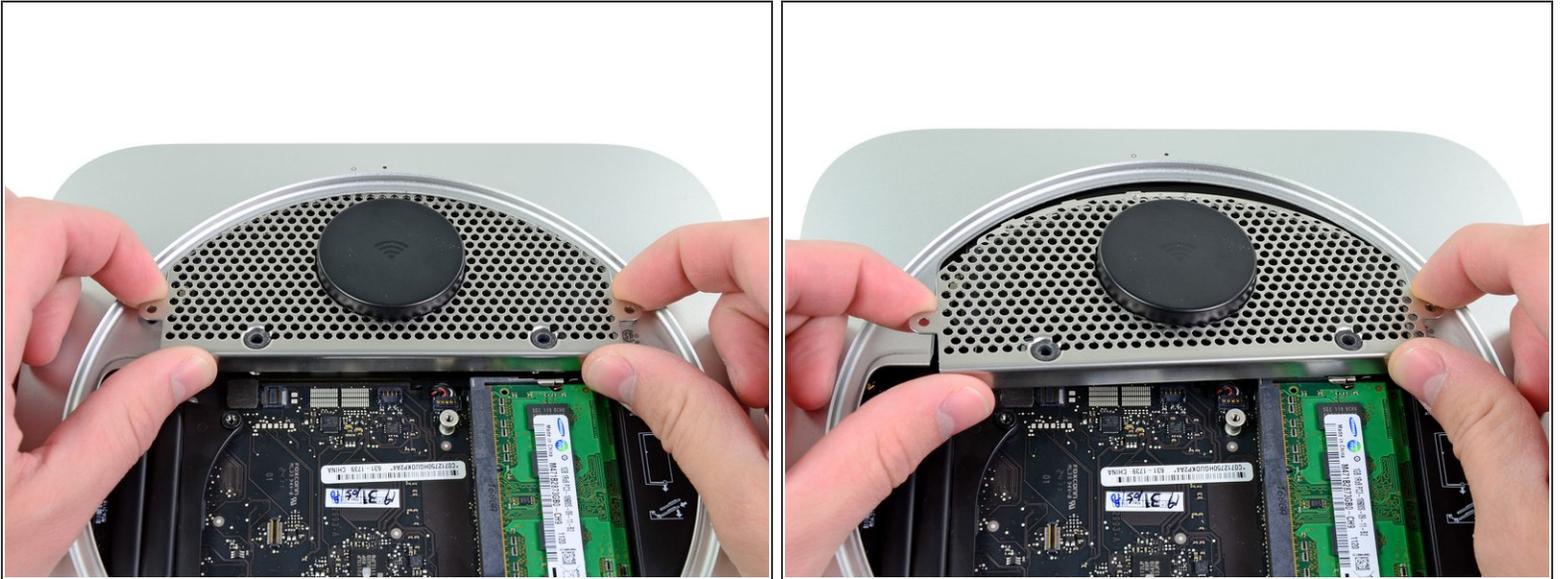
- Remove the single 3.5 mm T6 Torx screw securing the cowling to the heat sink.

Step 7



- Lift the cowl from the end nearest the antenna plate.
- Rotate the cowl away from the outer case and remove it from the mini.

Step 9



- Slightly lift the antenna plate from the end closest to the RAM.
- Carefully pull the antenna plate away from the circular rim of the outer case.

 Do not remove the antenna plate yet. It is still attached to the AirPort/ Bluetooth board.

Step 10



- Use the tip of a spudger to carefully pry the antenna connector up from its socket on the AirPort/Bluetooth board.

Step 11



- Remove the antenna plate from the mini.

Step 12 — Logic Board



- Use the flat end of a spudger to pry the hard drive connector up from its socket on the logic board.

Step 13



- Use the tip of a spudger to lift the IR sensor connector up and out of its socket on the logic board.
- ⚠ Make sure to pry up from beneath the wires and not underneath the socket.

Step 14



- Remove the following three screws:
 - One 5.0 mm T8 Torx or 2.0 mm Hex screw (either screwdriver will work)
 - One 16.2 mm T6 Torx screw
 - One 26 mm T6 Torx standoff

Step 15



⚠ To remove the logic board, the two cylindrical rods of the Mac mini Logic Board Removal Tool must be inserted into the holes highlighted in red. Inserting instruments into any logic board holes other than the ones highlighted in red may destroy the logic board.

- Insert the [Mac mini Logic Board Removal Tool](#) into the two holes highlighted in red. Be sure it makes contact with the top side of outer case below the logic board before proceeding.
- Carefully pull the tool toward the I/O board. The logic board and I/O board assembly should slightly slide out of the outer case.
- i** Cease prying when the I/O board is visibly separated from the outer case.
- Remove the Mac mini Logic Board Removal tool.

Step 16



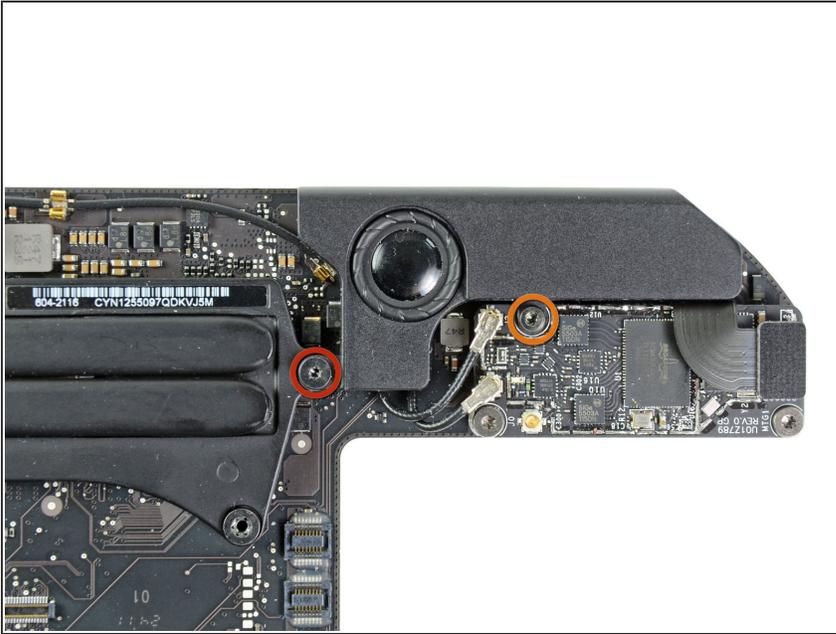
- Pull the I/O board/logic board assembly out of the outer case enough to access the power connector.
- Use your fingers to disconnect the DC-In cable from the logic board.
- Pull the power cable connector toward the front side of the mini.

Step 17



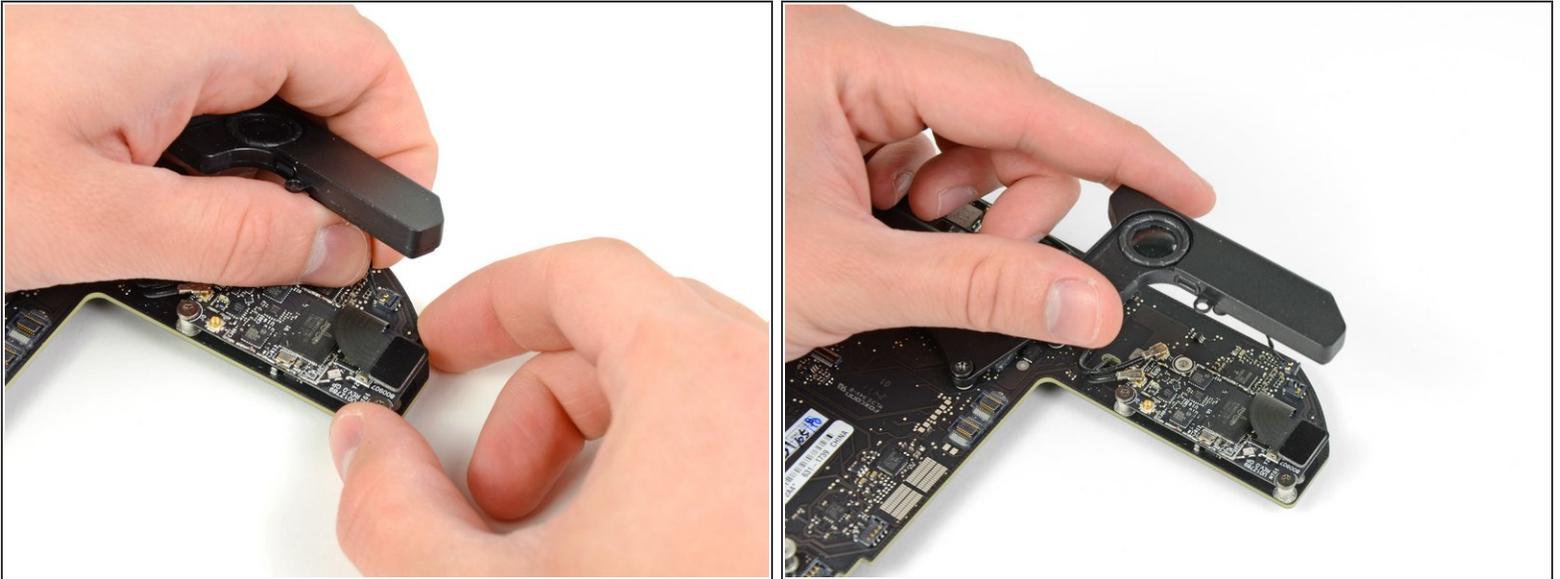
- Carefully slide the logic board assembly out of the mini, minding any cables that may get caught.

Step 18 — Speaker



- Remove the following two screws securing the speaker to the logic board assembly:
 - One 3.5 mm T6 Torx screw
 - One 3.7 mm T6 Torx screw

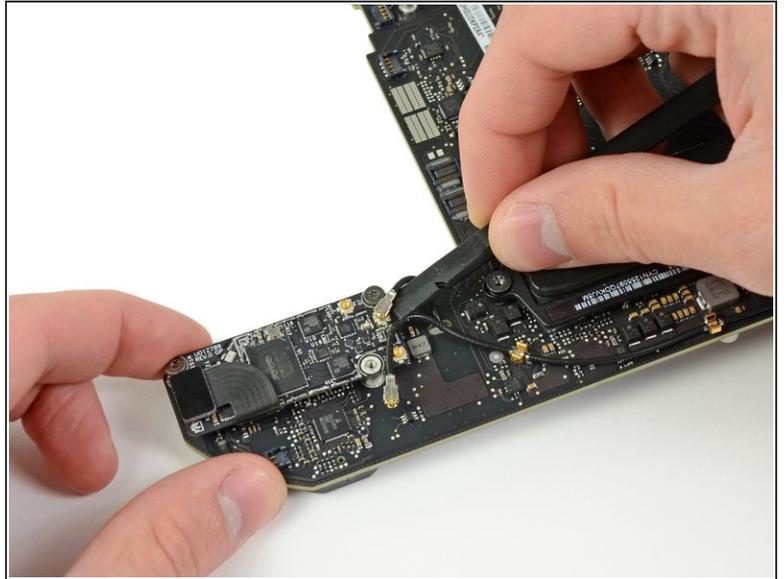
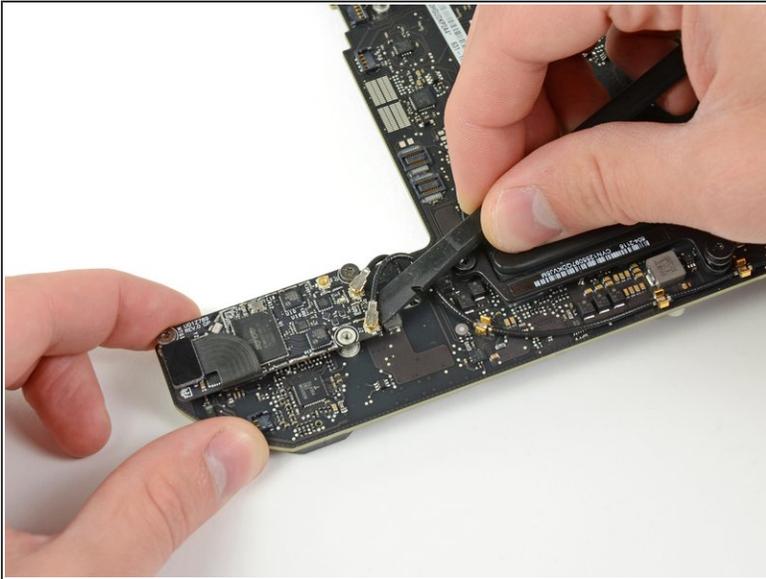
Step 19



! Lift but do not remove the speaker assembly, as it still remains connected to the logic board via the speaker connector.

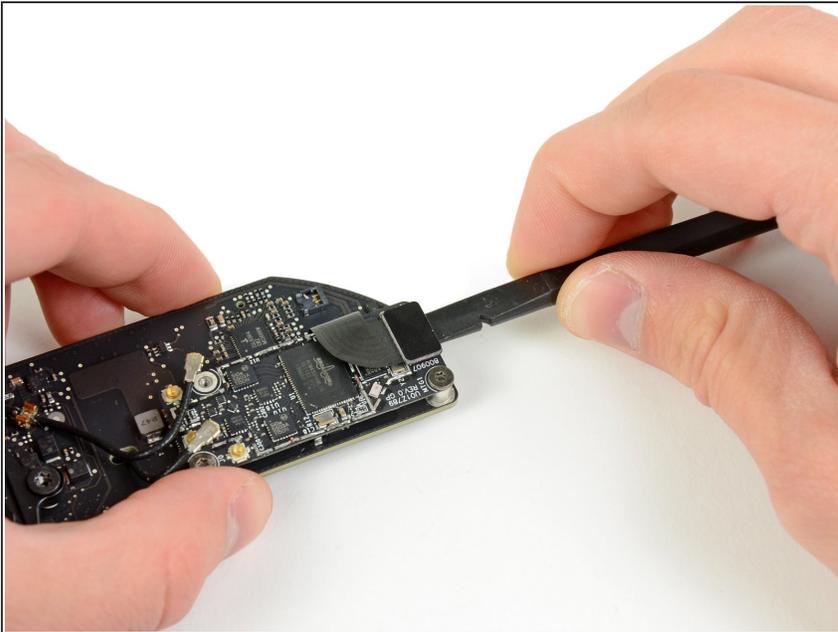
- Carefully lift the speaker wires upward to lift the speaker connector up and out of its socket on the logic board.
- Lift and remove the speaker away from the logic board.

Step 20 — AirPort/Bluetooth Board



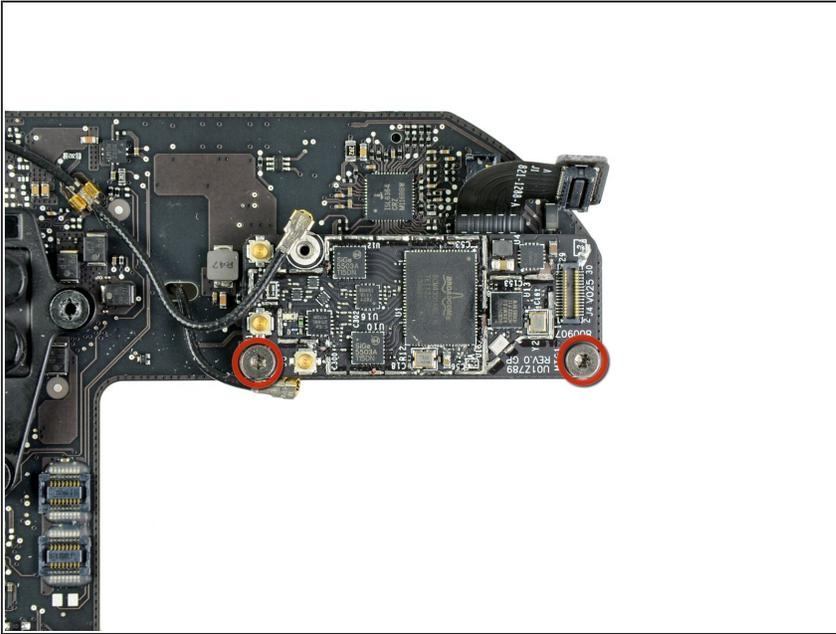
- Use the flat end of a spudger to pry both antenna connectors up from their sockets on the AirPort/Bluetooth board.

Step 21



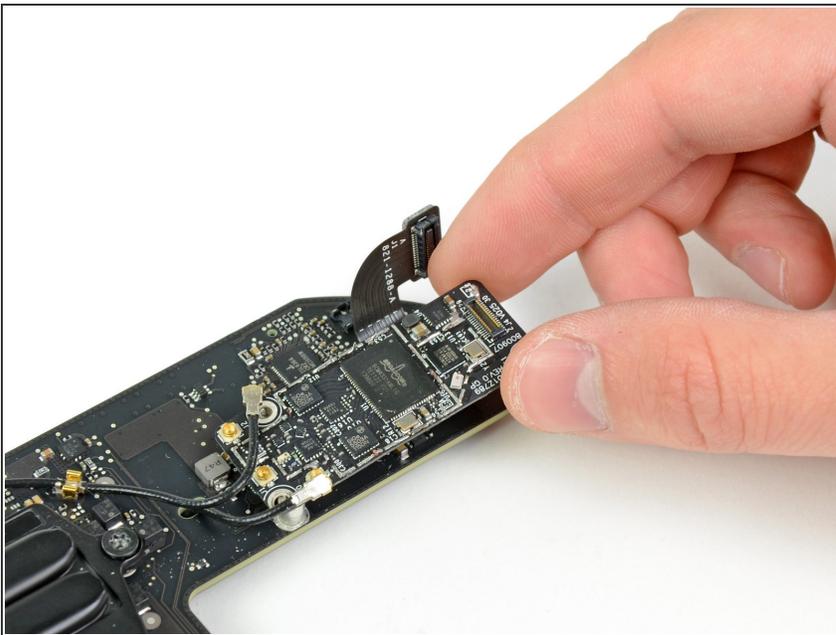
- Use your spudger to help disconnect the AirPort/Bluetooth ribbon cable from its socket on the AirPort/Bluetooth board.

Step 22



- Remove the two 2.6 mm T6 Torx screws securing the AirPort/Bluetooth board to the logic board.

Step 23



- Remove the AirPort/Bluetooth board from the logic board.

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