

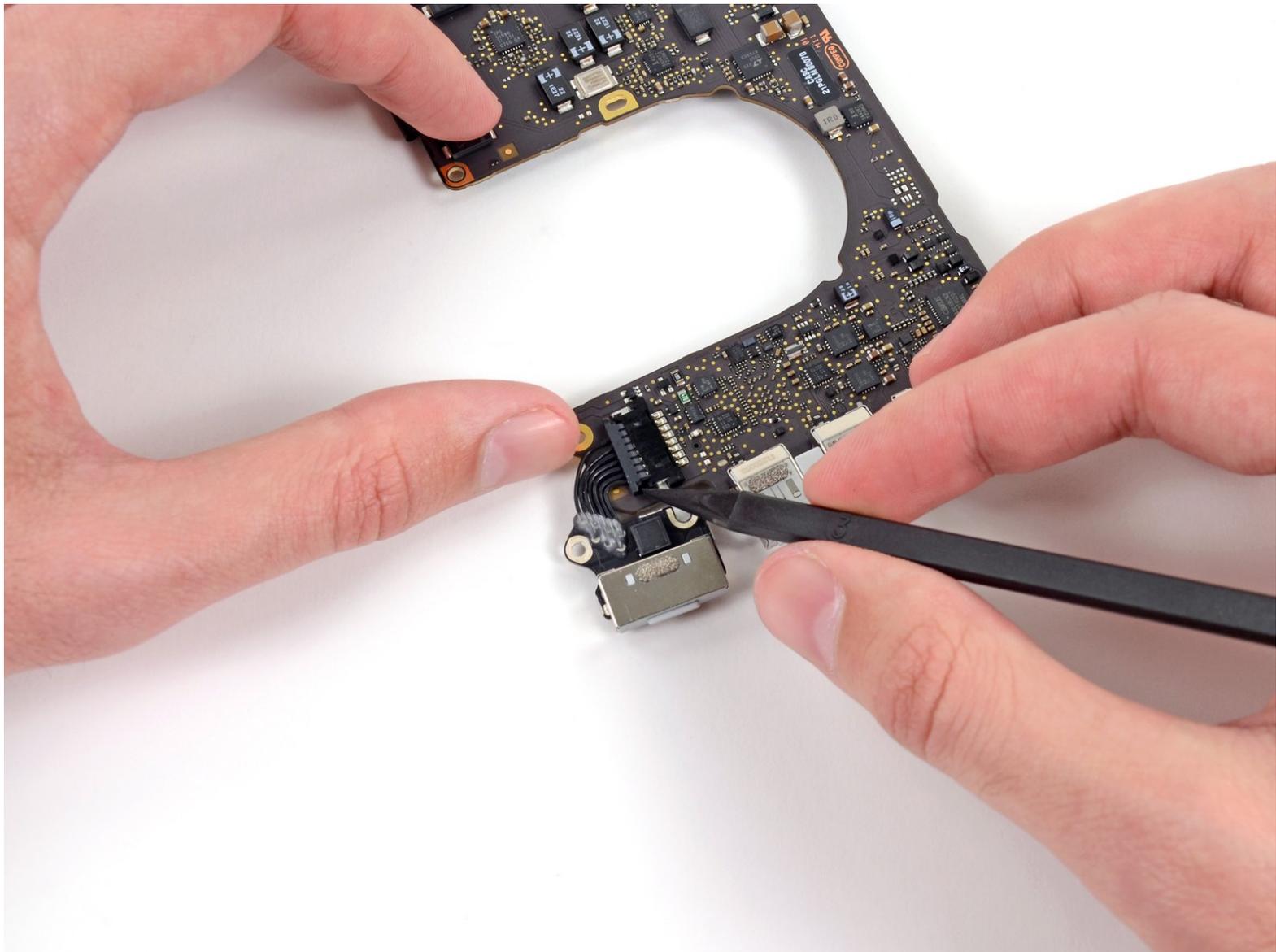


# MacBook Pro 13" Retina Display Late 2012

## MagSafe DC-In Board Replacement

Replace the MagSafe DC-In Board in your MacBook Pro 13" Retina Display Late 2012.

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## INTRODUCTION

Use this guide to replace the MagSafe DC-In board.

### TOOLS:

- [MacBook Pro and Air 5-Point Pentalobe Screwdriver](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)
- [Spudger](#) (1)
- [T5 Torx Screwdriver](#) (1)
- [T6 Torx Screwdriver](#) (1)
- [Tweezers](#) (1)

### PARTS:

- [MacBook Pro 13" Retina MagSafe 2 DC-In Board](#) (1)

## Step 1 — Lower Case



- Remove the following ten screws securing the lower case to the upper case:
  - Two 2.3 mm P5 Pentalobe screws
  - Eight 3.0 mm P5 Pentalobe screws
- ☑ Throughout this repair, [keep track of each screw](#) and make sure it goes back exactly where it came from to avoid damaging your device.

## Step 2



- Wedge your fingers between the upper case and the lower case.
- Gently pull the lower case away from the upper case.
- Remove the lower case and set it aside.

## Step 3



☞ During reassembly, gently push down the center of the lower case to reattach the two plastic clips.

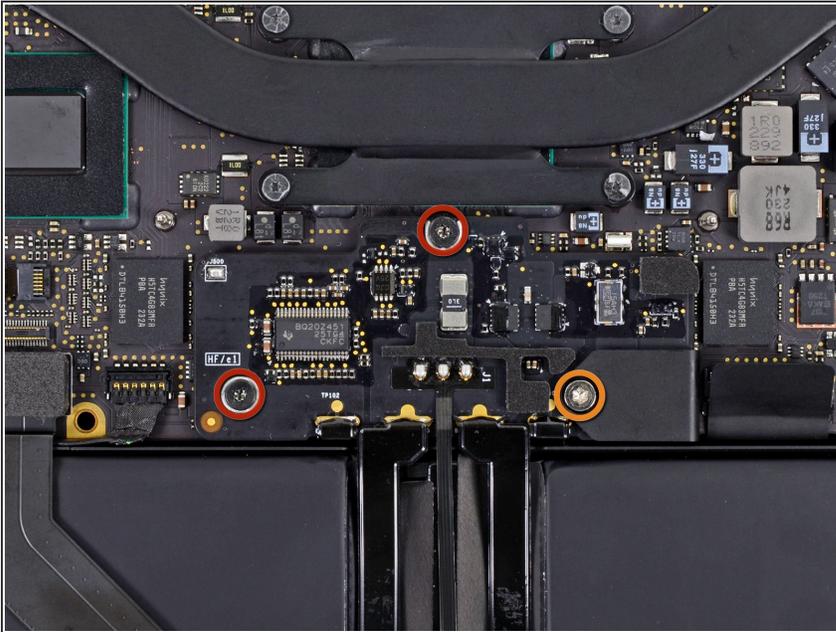
- The lower case is connected to the upper case at the center, with two plastic clips.

## Step 4 — Battery Connector



- Remove the plastic cover adhered to the battery contact board.

## Step 5



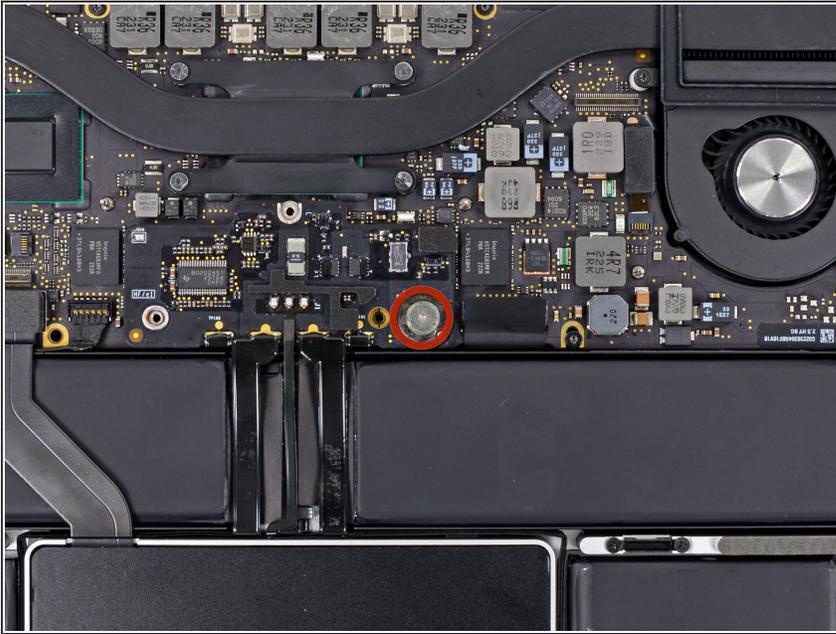
- Remove the following screws securing the battery connector board to the logic board:
  - Two 2.8 mm T6 Torx screws
  - One 7.0 mm T6 Torx shouldered screw

## Step 6



- Use tweezers to remove the small plastic cover located near the bottom right of the battery connector board.

## Step 7



- Remove the wide head 6.4 mm T6 Torx screw securing the battery connector to the logic board assembly.

## Step 8

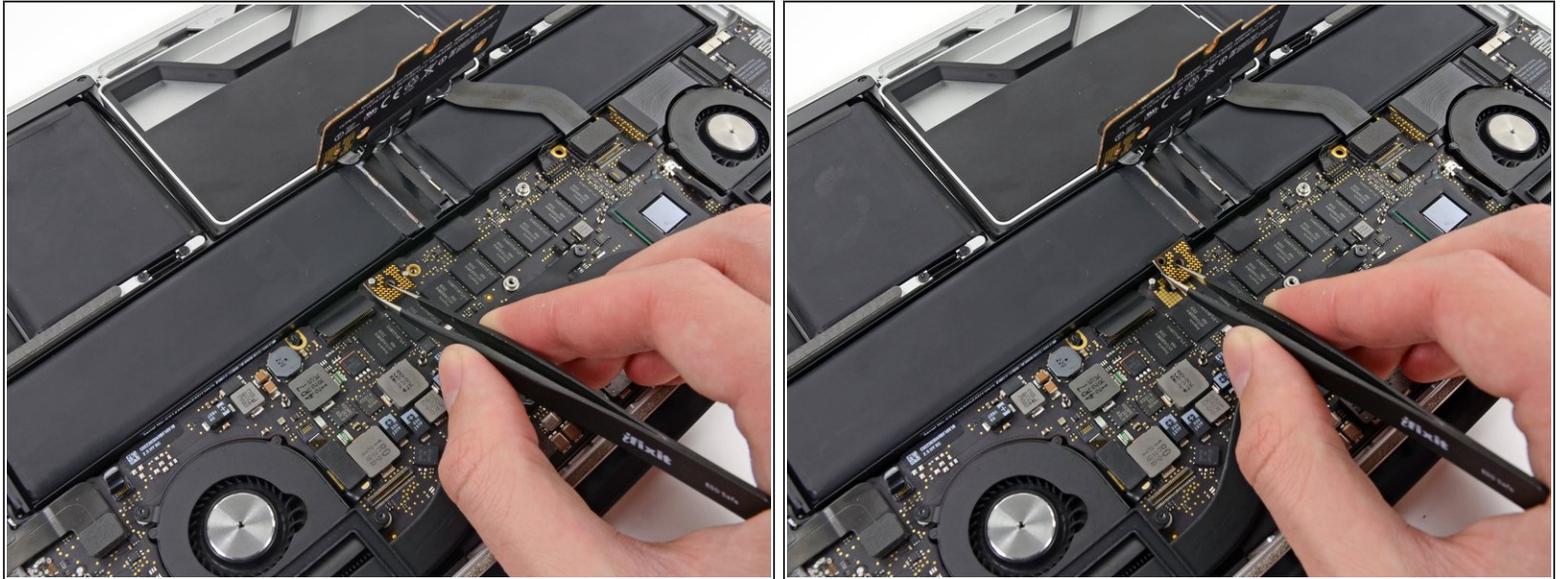


- Carefully lift the battery connector board up off the logic board.
- It is recommended to bend the battery cables just slightly, to keep the board suspended up above the logic board and out of the way.

**⚠** Do not fold the board completely over, or crease the cables, as this may damage the battery.

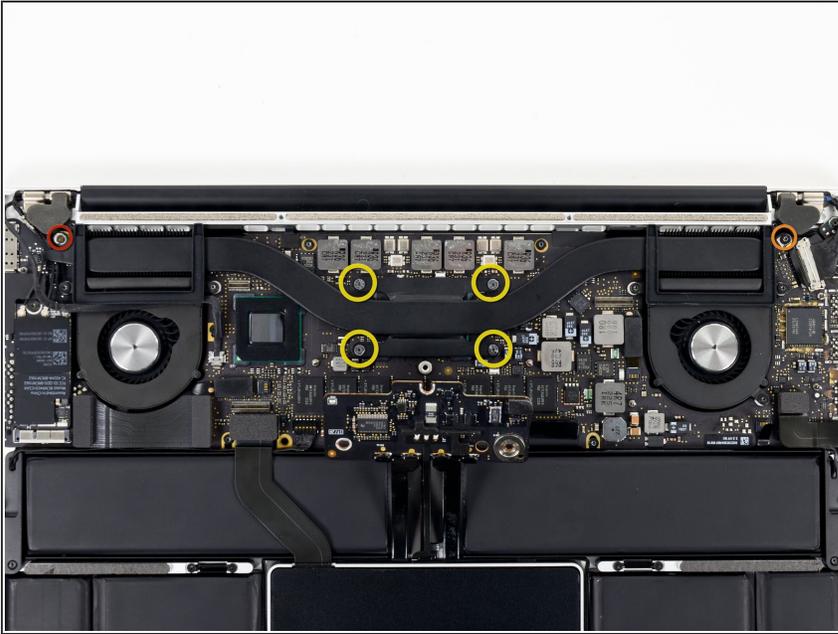
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## Step 9 — Battery Contact Board



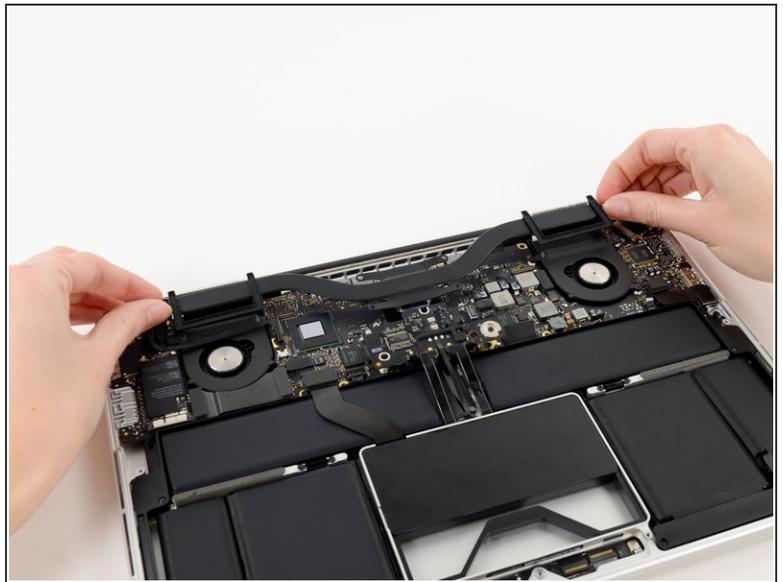
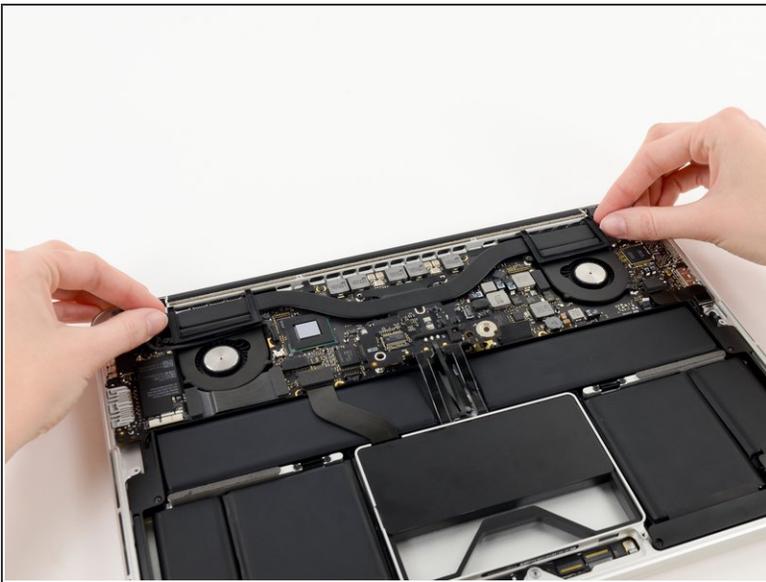
- Grasp the Interposer with tweezers.
  - ⓘ An interposer is the name for an interface that links one electrical connection to another. In this repair, it is the board connecting the battery to logic board.
- Lift the Interposer off the logic board and remove it.
  - ⚠ Removing this board will ensure that the battery remains disconnected throughout your repair, preventing your computer from accidentally powering on. It's also a good idea to take it out so it doesn't fall out unexpectedly.

## Step 10 — Heat Sink Assembly



- Remove the following screws securing the heat sink to the logic board assembly:
  - One 2.4 mm Phillips #00 screw
  - One 3.4 mm T5 Torx screw
  - Four 2.7 mm T5 Torx screws

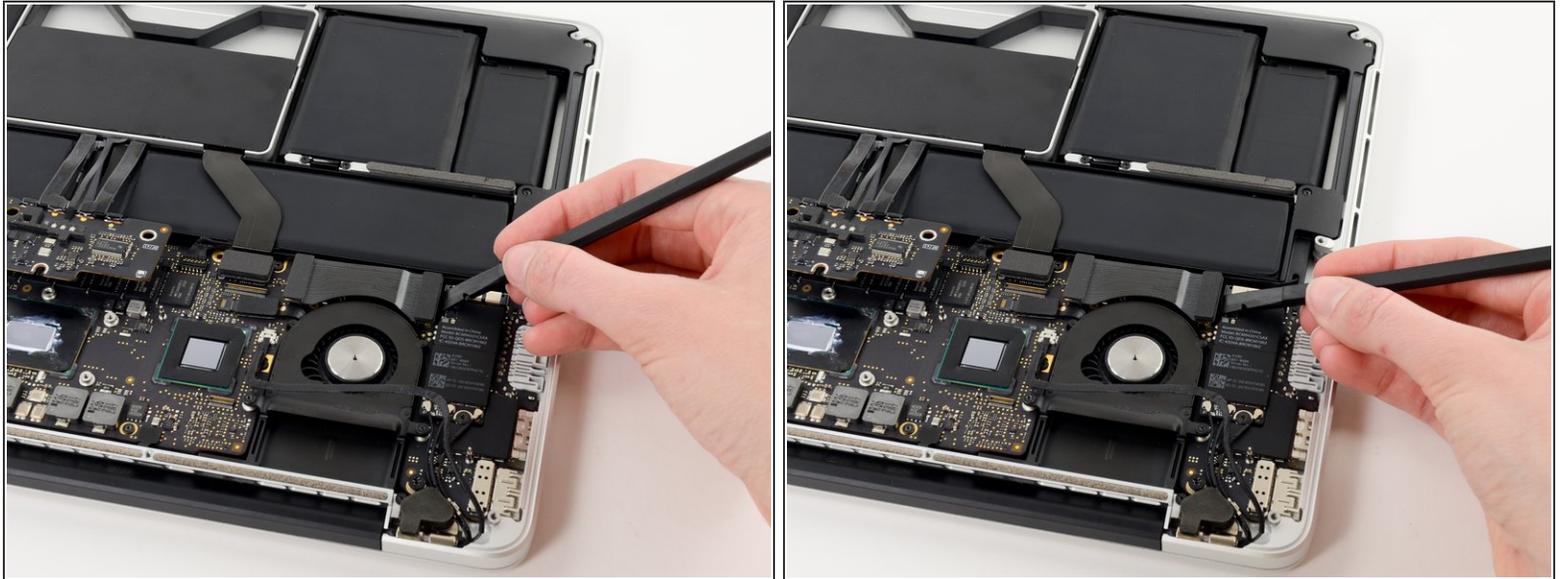
## Step 11



- Lift and remove the heat sink up off the logic board assembly.

⚠ 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 12 — I/O Board Data Cable



- Use the flat end of a spudger to pry the right side of the I/O board data cable connector up off its socket on the I/O board.

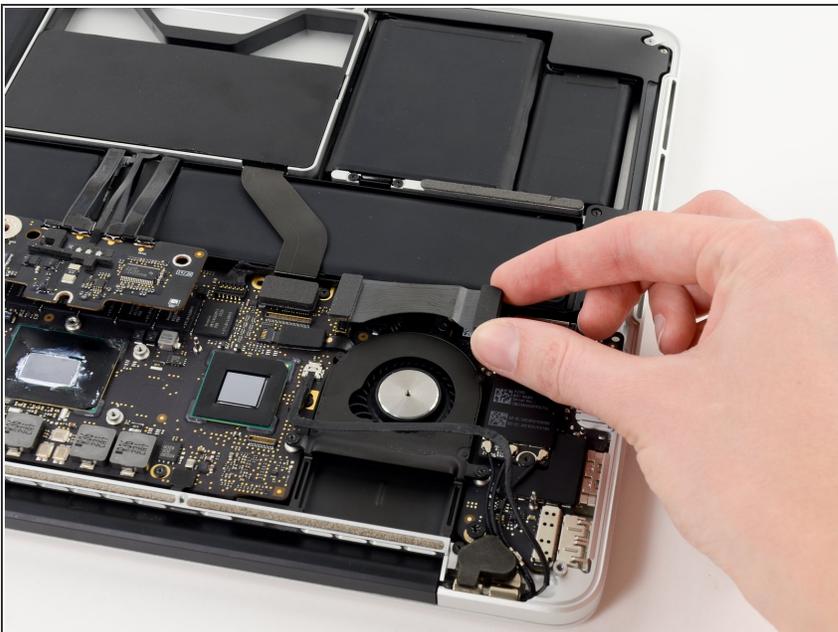
 When prying the I/O board data cable connector from its socket, make sure to pry the connector itself and **not** the socket. Prying the socket may cause irreversible damage to the I/O board.

## Step 13



- Wedge the flat end of a spudger beneath the left side of the I/O board data cable connector.
- Gently twist the spudger to disconnect the I/O board data cable connector from its socket on the logic board.

## Step 14



- Lift and remove the I/O board data cable from the MacBook Pro.

## Step 15 — Right Fan



- 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.
- Pull the right fan ribbon cable straight out of its socket on the logic board.

## Step 16



- Remove the three 3.1 mm T5 Torx screws securing the right fan to the logic board assembly.

## Step 17



- Lift and remove the right fan out of the upper case.

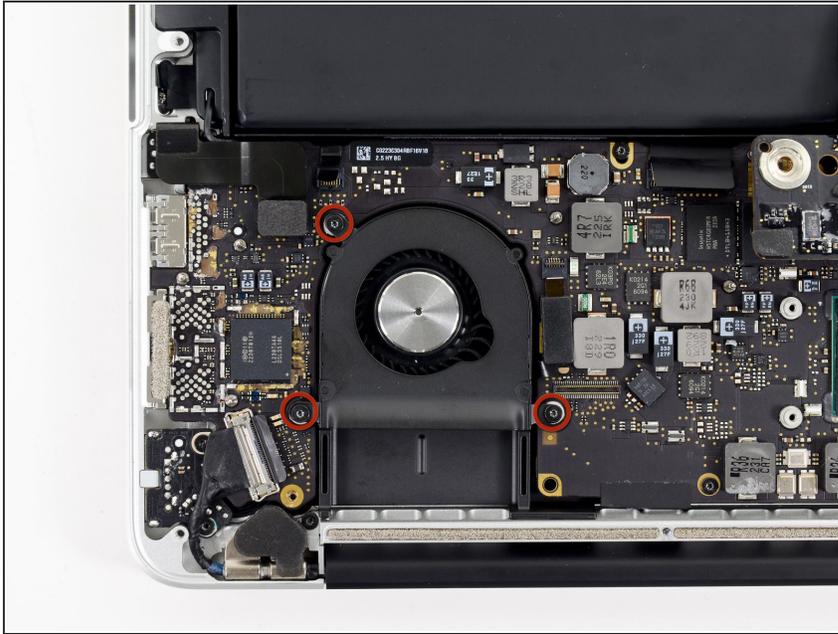
## Step 18 — Left Fan



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

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

## Step 19



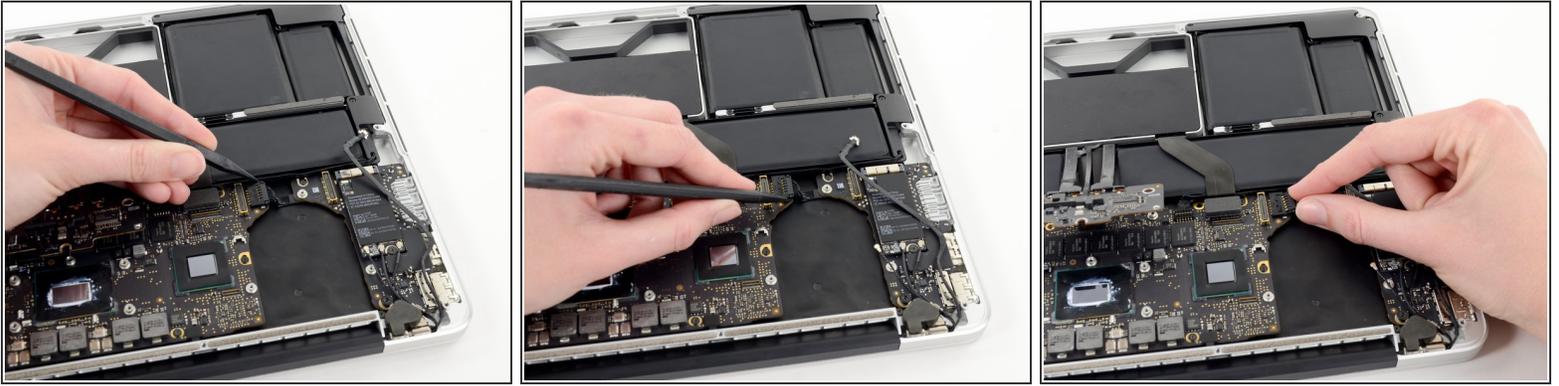
- Remove the three 3.1 mm T5 Torx screws securing the left fan to the logic board assembly.

## Step 20



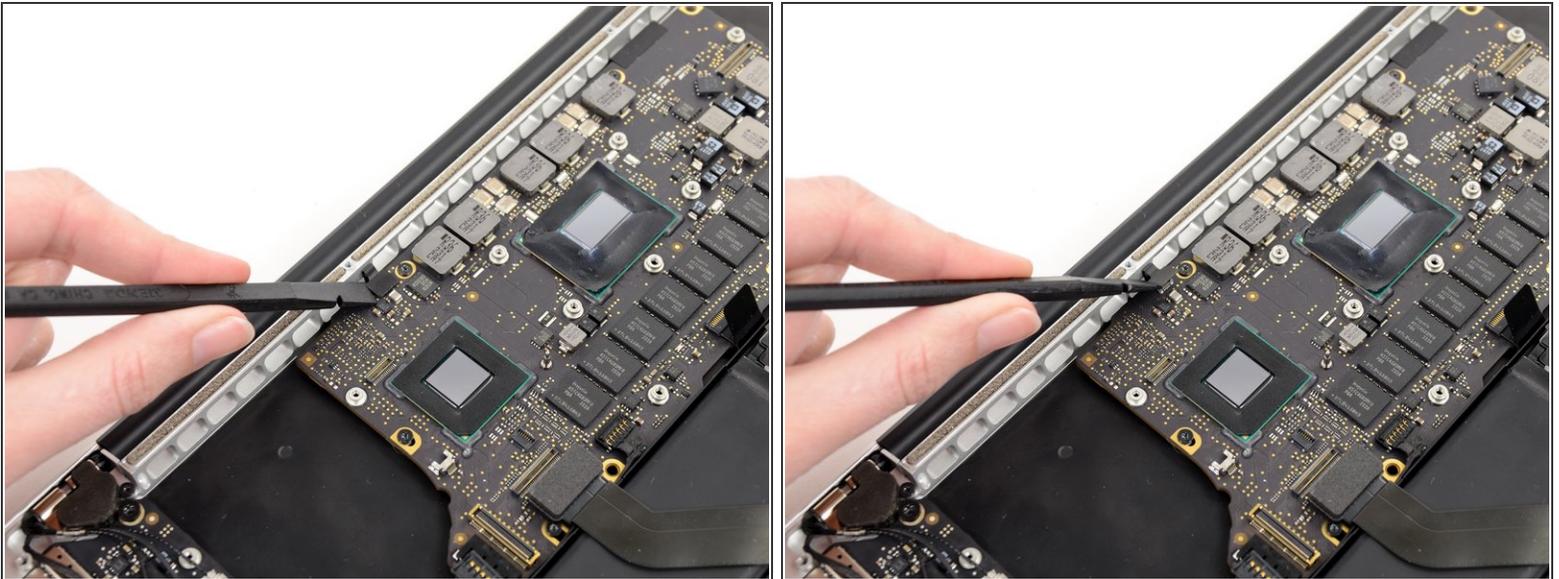
- Lift and remove the left fan out of the upper case.
- ☞ Make sure to pull the left fan straight away to simultaneously pull the left fan ribbon cable out of its socket on the logic board.

## Step 21 — Logic Board Assembly



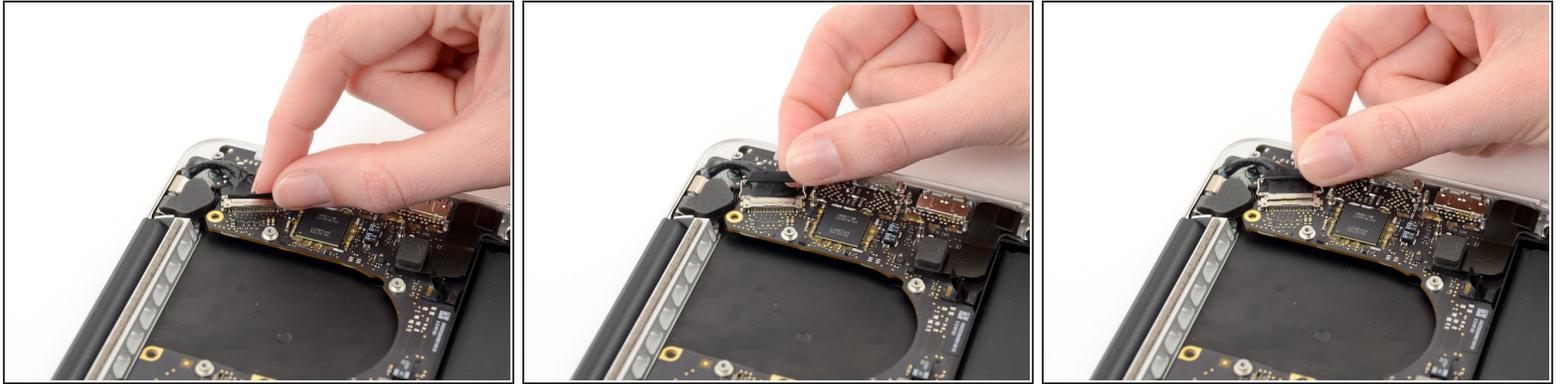
- Use the tip of a spudger to push the edges of the I/O board connector straight out of its socket on the logic board.
- ⓘ It is recommended to carefully push on both sides of the connector to "walk" it out of its socket.

## Step 22



- Wedge the flat end of a spudger underneath the keyboard backlight connector and the logic board.
- Gently twist the flat end of a spudger upwards to pry the keyboard backlight connector up off its socket on the logic board.

## Step 23



- Grab the black pull tab secured to the display data cable lock and rotate it toward the DC-In side of the computer.
  - Pull the display data cable straight out of its socket on the logic board.
-  Do not lift up on the display data cable, as its socket is very fragile. Pull the cable parallel to the face of the logic board.

## Step 24



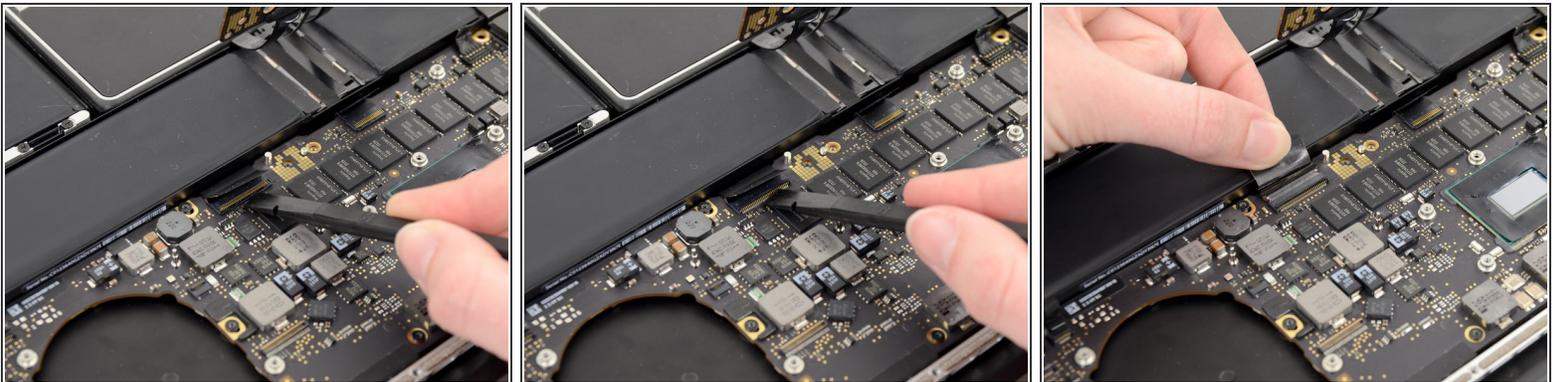
- Pry the headphone jack cable connector up off its socket on the logic board.

## Step 25



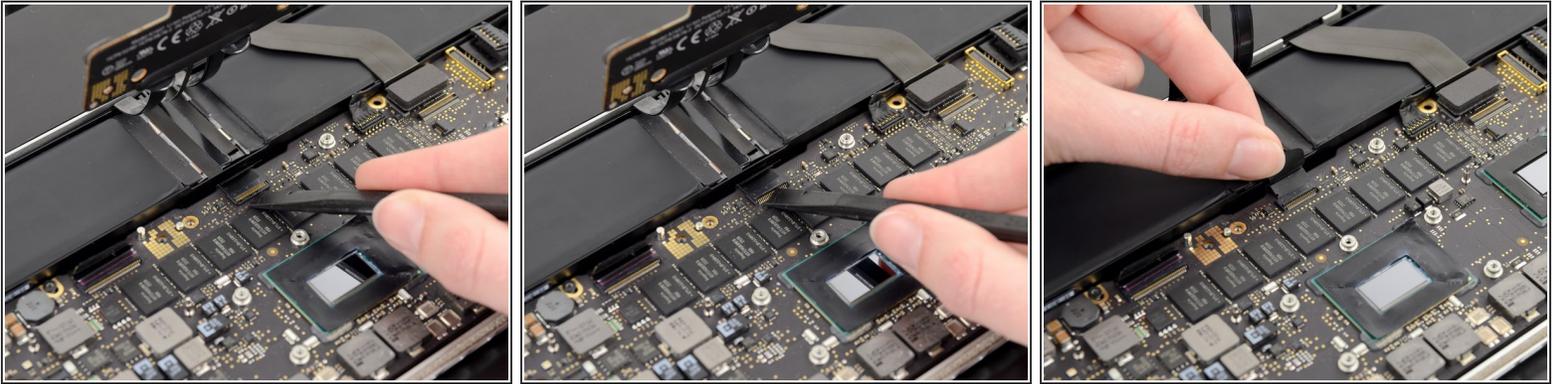
- Use the tip of a spudger to flip up the retaining flap on the microphone ribbon cable ZIF socket.
- ⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.
- Grasp the plastic pull tab and pull the microphone ribbon cable out of its socket.

## Step 26



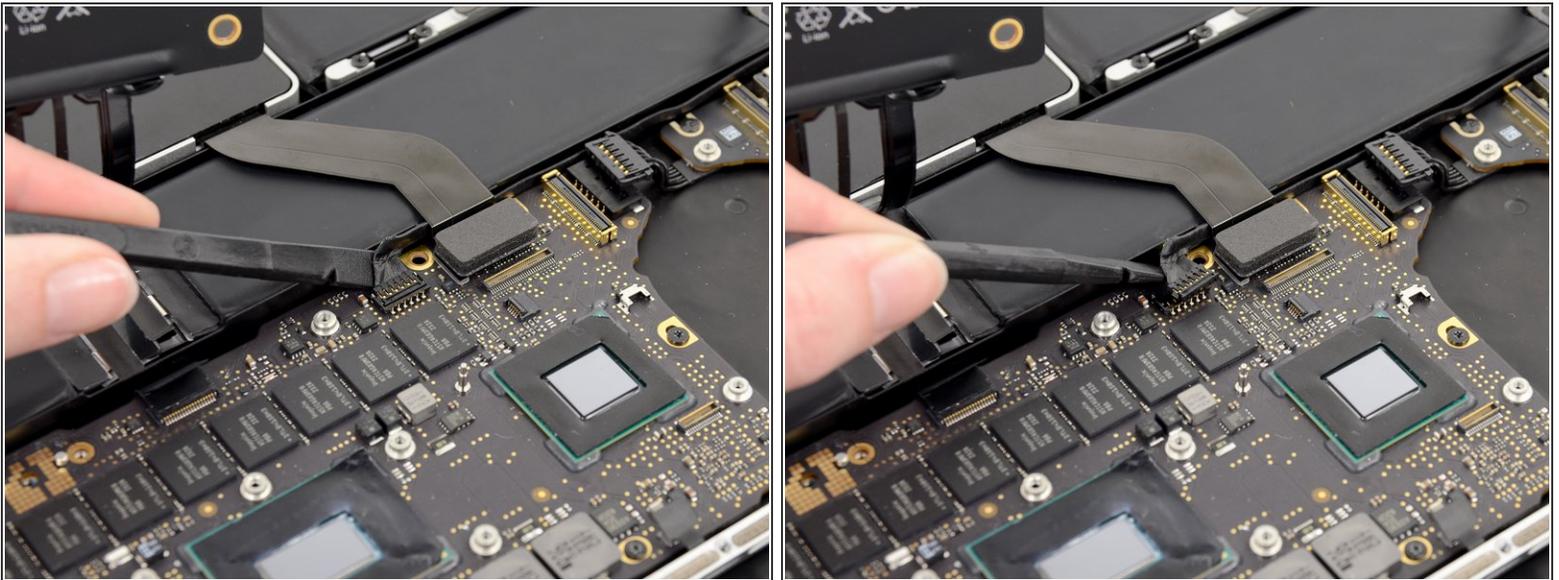
- Use the flat edge of a spudger to flip up the retaining flap on the keyboard ribbon cable ZIF socket.
- ⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.
- Grasp the plastic pull tab and pull the keyboard ribbon cable out of its socket.

## Step 27



- Repeat the previous procedure to disconnect the Trackpad ribbon cable from its socket on the logic board.

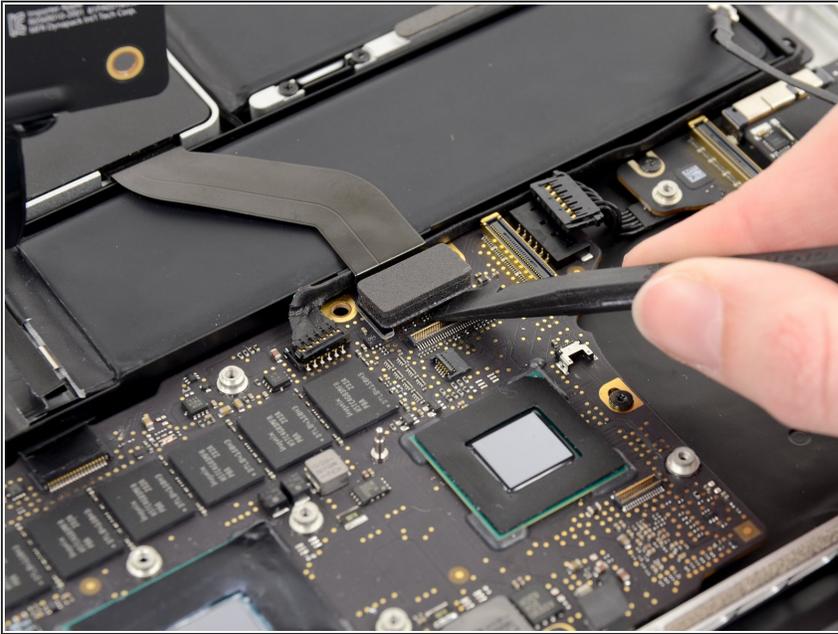
## Step 28



- Wedge the flat end of a spudger beneath the right speaker cable connector.
- Gently pry the right speaker cable connector up off from its socket on the logic board.

⚠ Be sure you are prying up on the connector, **not** the socket itself.

## Step 29



- Use the flat end of a spudger to pry the SSD cable connector up off its socket on the logic board.

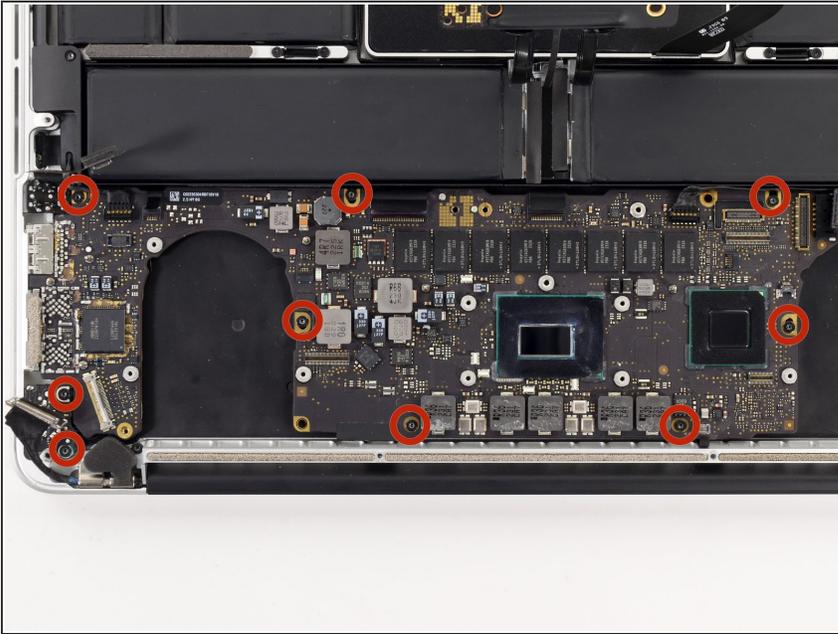
## Step 30



- Wedge the tip of a spudger beneath the left speaker cable connector.
- Gently pry the left speaker cable connector up from its socket on the logic board.

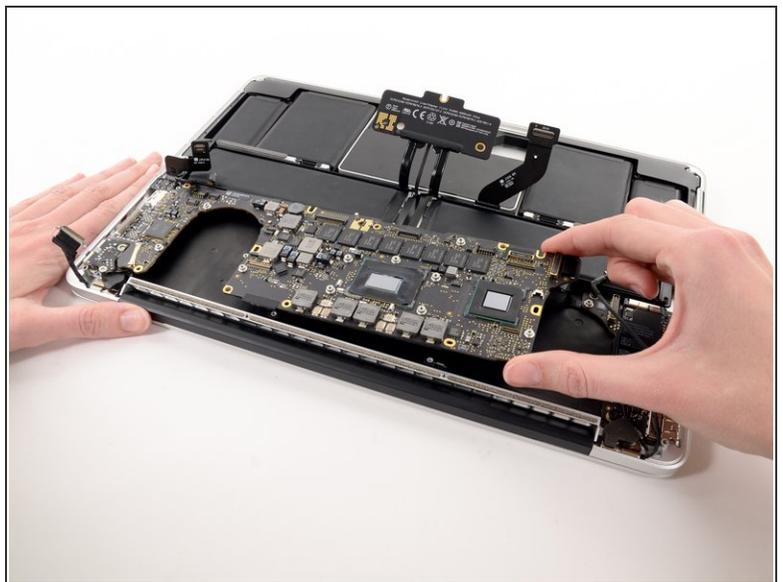
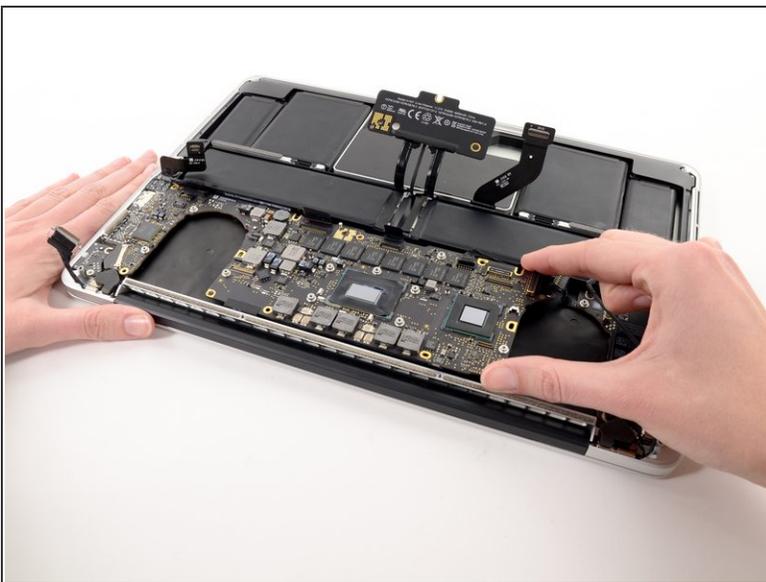
⚠ Be sure you are prying up on the connector, **not** the socket itself.

## Step 31



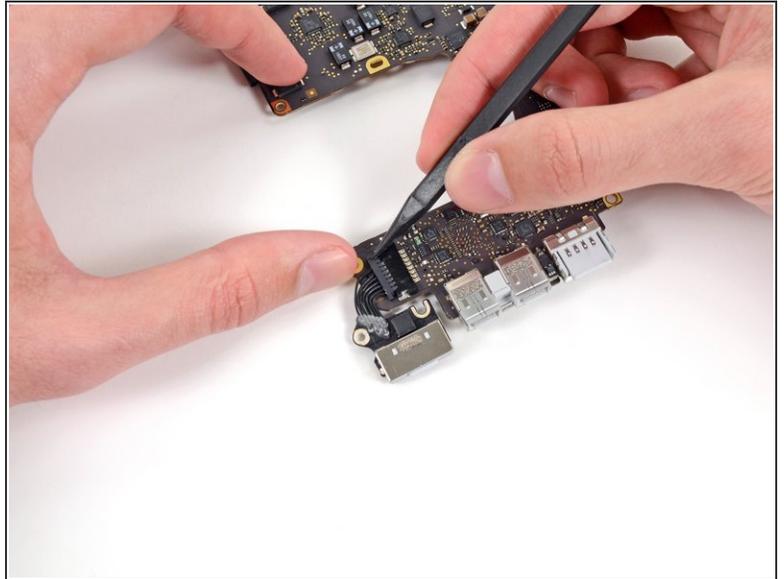
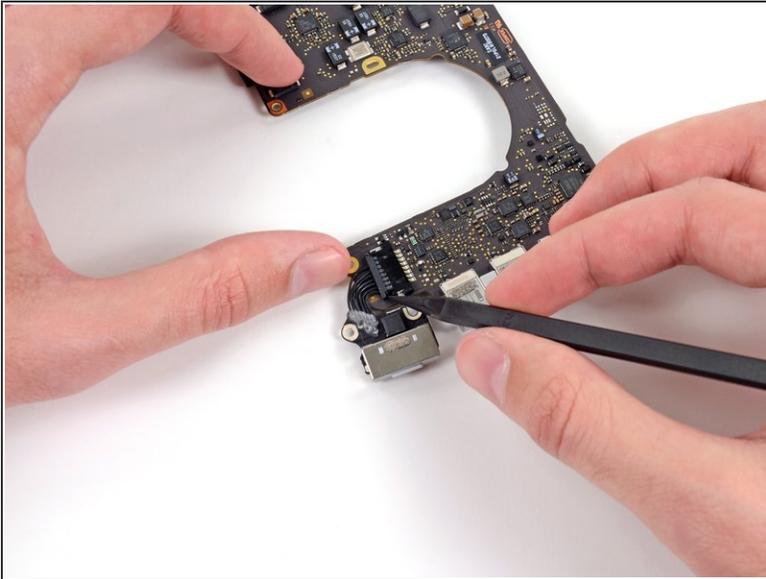
- Remove the nine 3.3 mm T5 Torx screws securing the logic board and MagSafe DC-in board to the upper case.

## Step 32



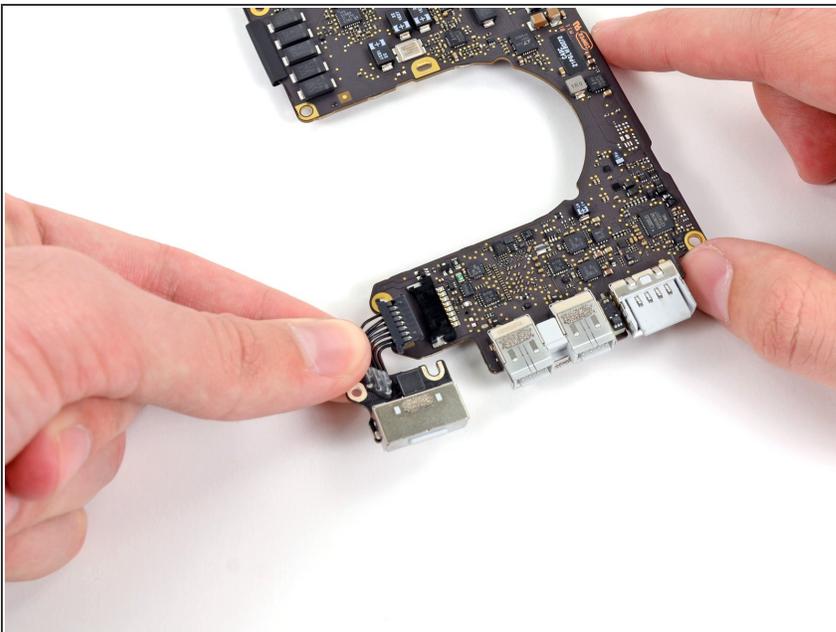
- Carefully grasp the corner of the logic board (opposite of the I/O ports) and lift the logic board out of the upper case.

## Step 33 — MagSafe DC-In Board



- Gently push the edges of the MagSafe cable connector away from its socket on the logic board.
- ⓘ It is recommended "walk" the connector out of its socket. Simply push the top and bottom corners of the connector and carefully "walk it out" of its socket.

## Step 34



- Pull the MagSafe cable connector straight out of its socket on the logic board.

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