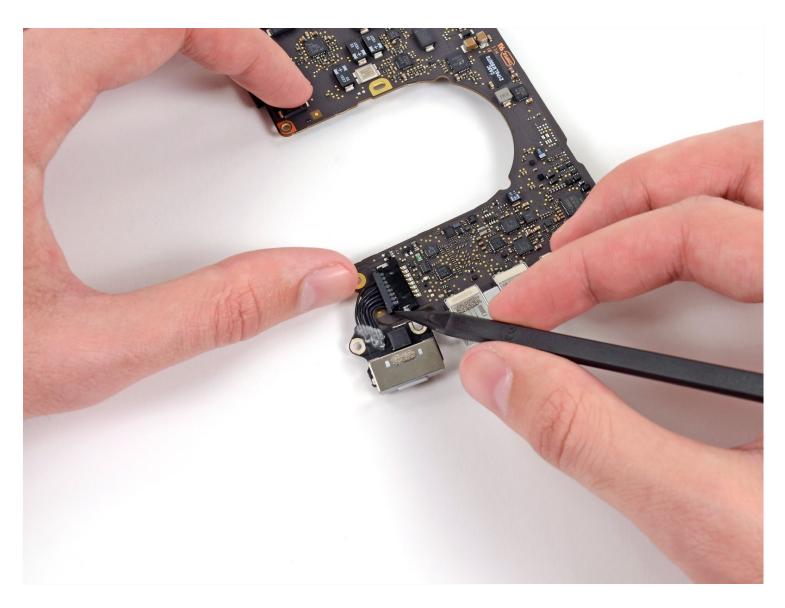


MacBook Pro 13" Retina Display Late 2012 MagSafe DC-In Board Replacement

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

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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 Tool (1) Spudger (1) T5 Torx Screwdriver (1) T6 Torx Screwdriver (1) Tweezers (1)

🌣 PARTS:

MacBook Pro 13" Retina (Mid 2012-Early 2013) 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, <u>keep</u> <u>track of each screw</u> and make sure it goes back exactly where it came from to avoid damaging your device.



- 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.



- 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.

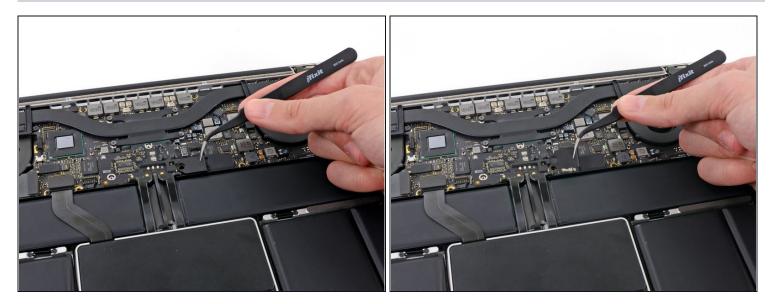
Step 4 — Battery Connector



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

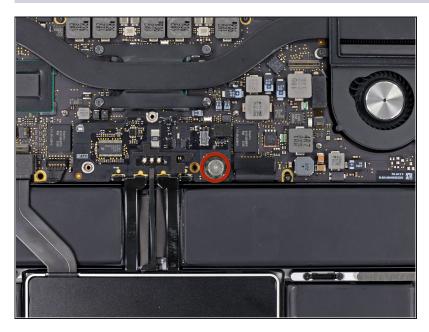


- Remove the following screws securing the battery connector board to the logic board:
 - Two 2.8 mm T6 Torx screws
 - One 7.0 mm T6 Torx shouldered screw



• Use <u>tweezers</u> 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.



- 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.

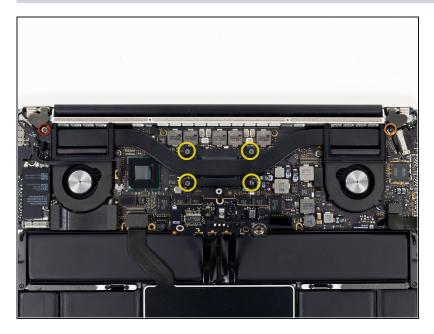
⚠ Do not fold the board completely over, or crease the cables, as this may damage the battery.

Step 9 — Battery Contact Board



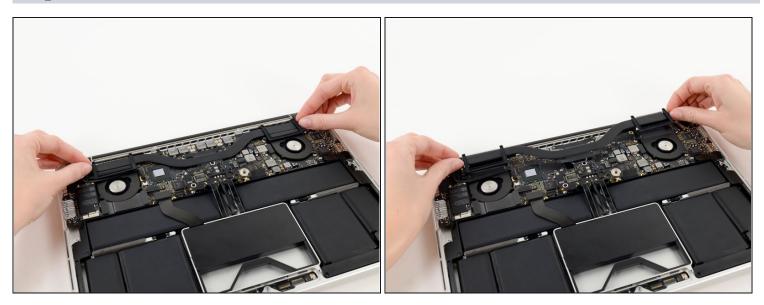
- Grasp the Interposer with <u>tweezers</u>.
- (i) An interposer is the name for an interface that links one electrical connection to another. In this repair, it is the board connecting the battery to logic board.
- Lift the Interposer off the logic board and remove it.
- A Removing this board will ensure 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

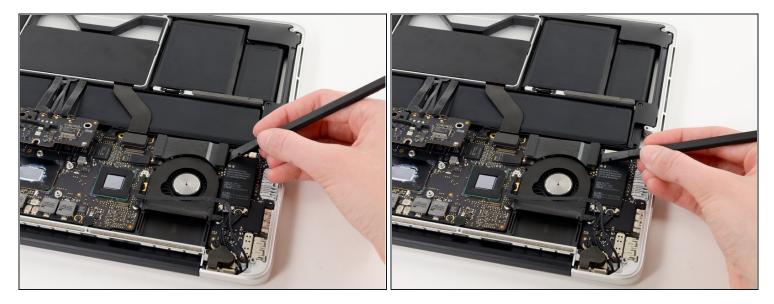
Step 11



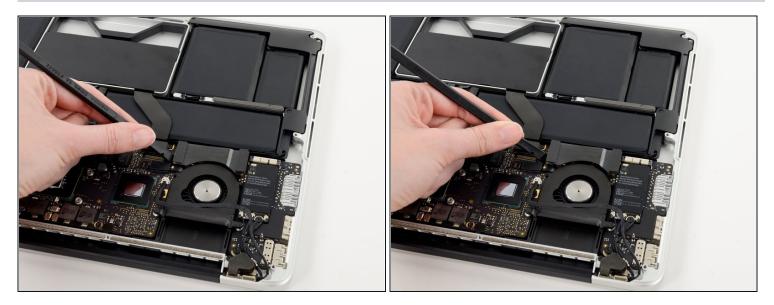
• Lift and remove the heat sink up off the logic board assembly.

A 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 <u>guide</u> that makes it easy.

Step 12 — I/O Board Data Cable

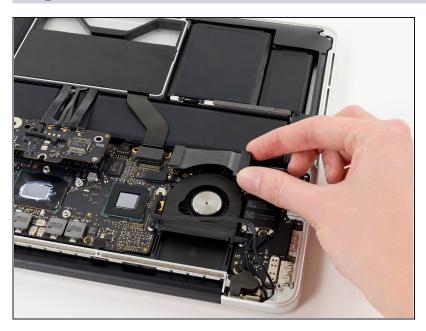


- Use the flat end of a spudger to pry the right side of the I/O board data cable connector up off its socket on the I/O board.
- A When prying the I/O board data cable connector from its socket, make sure to pry the connector itself and **not** the socket. Prying the socket may cause irreversible damage to the I/O board.



- 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.

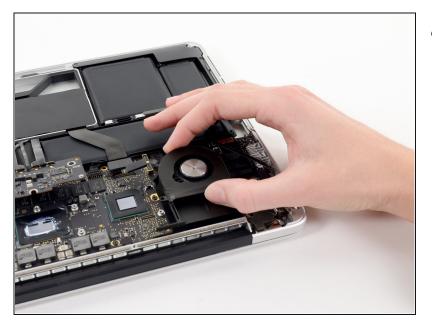
 \triangle Be sure you are prying up on the hinged retaining flap, **not** the socket itself.

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



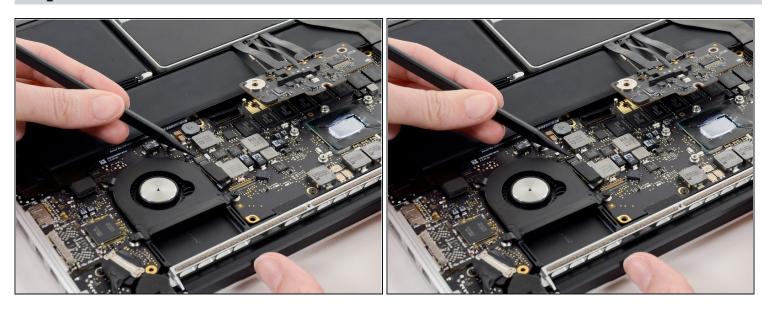
Step 16

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



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

Step 18 — Left Fan

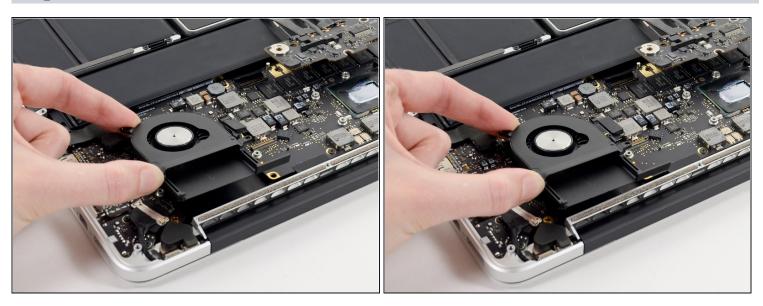


• Use the tip of a spudger to flip up the retaining flap on the left fan ribbon cable ZIF socket.

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



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

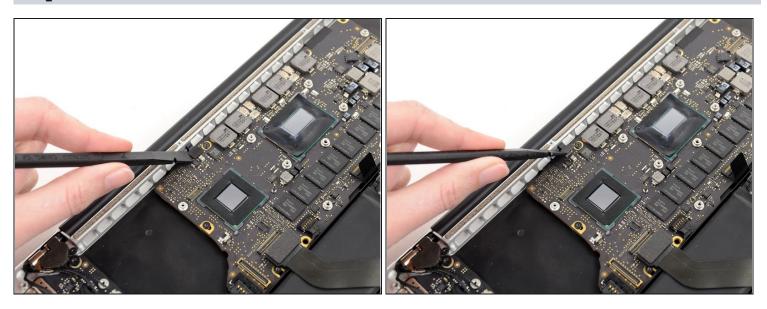


- Lift and remove the left fan out of the upper case.
- Make sure to pull the left fan straight away to simultaneously pull the left fan ribbon cable out of its socket on the logic board.

Step 21 — Logic Board Assembly



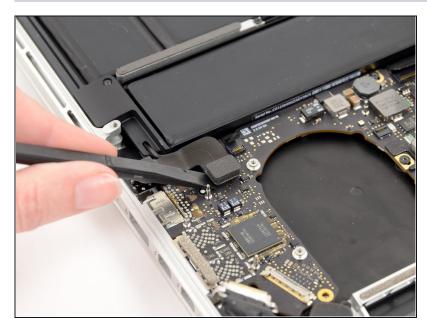
- Use the tip of a spudger to push the edges of the I/O board connector straight out of its socket on the logic board.
- (i) It is recommended to carefully push on both sides of the connector to "walk" it out of its socket.



- 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.



- 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.



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



• Use the tip of a spudger to flip up the retaining flap on the microphone ribbon cable ZIF socket.

A 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.

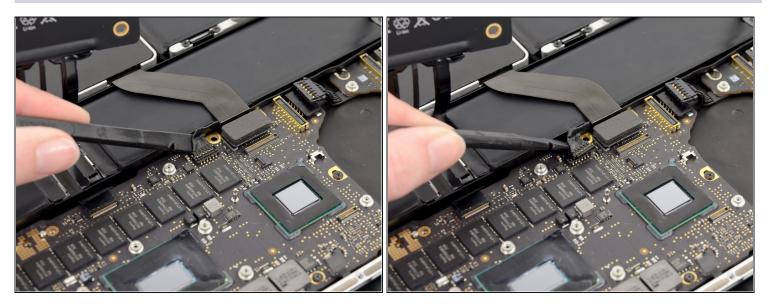
A Be sure you are prying up on the hinged retaining flap, **not** the socket itself.

• Grasp the plastic pull tab and pull the keyboard ribbon cable out of its socket.



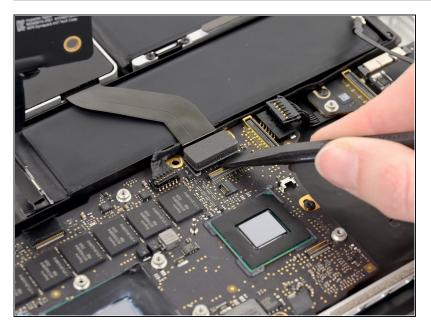
• Repeat the previous procedure to disconnect the Trackpad ribbon cable from its socket on the logic board.

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.

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



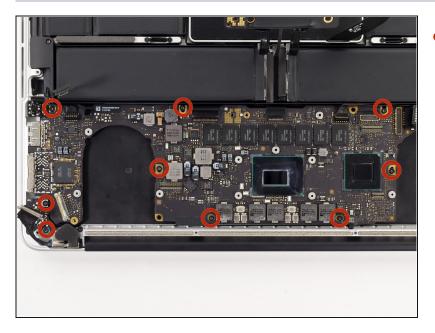
• Use the flat end of a spudger to pry the SSD cable connector up off its socket on the logic board.

Step 30



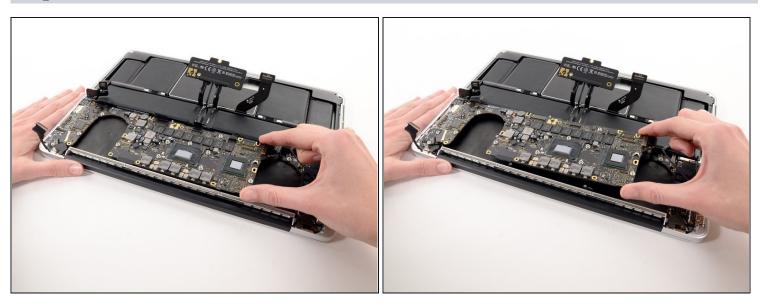
- Wedge the tip of a spudger beneath the left speaker cable connector.
- Gently pry the left speaker cable connector up off from its socket on the logic board.

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



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

Step 32



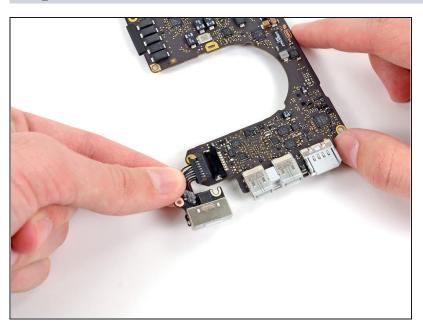
• Carefully grasp the corner of the logic board (opposite of the I/O ports) and lift the logic board out of the upper case.

Step 33 — MagSafe DC-In Board



- Gently push the edges of the MagSafe cable connector away from its socket on the logic board.
- (i) 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.