

MacBook Pro 13" Retina Display Late 2012 Heat Sink Replacement

Use this guide to replace the heat sink.

Written By: Walter Galan



INTRODUCTION

Use this guide to replace the heat sink.

🖌 TOOLS:

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

🌣 PARTS:

MacBook Pro 13" Retina (Late 2012-Early 2013) Heat Sink (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.

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



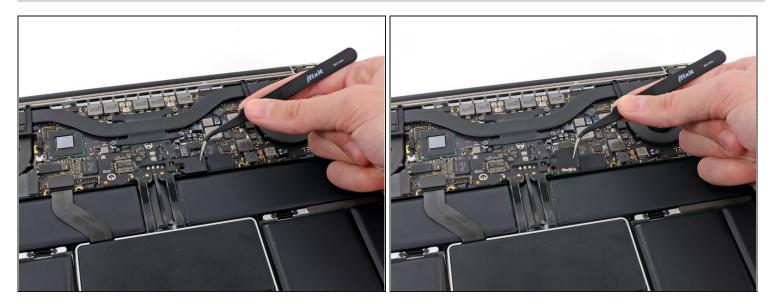
• Remove the plastic cover adhered to the battery contact board.

Step 5



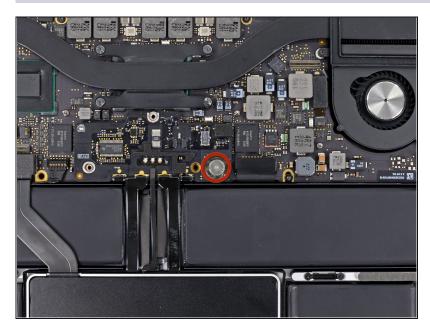
- Remove the following screws securing the battery connector board to the logic board:
 - Two 2.8 mm T6 Torx screws
 - One 7.0 mm T6 Torx shouldered screw

Step 6



• Use <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.

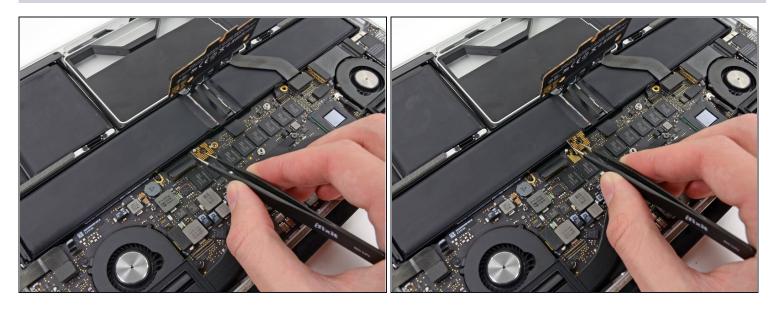
Step 8



- 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.

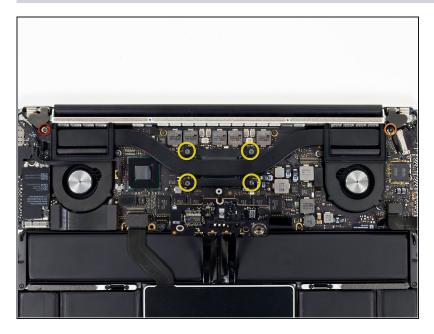
⚠ Do not fold the board completely over, or crease the cables, as this may damage the battery.

Step 9 — Battery Contact Board



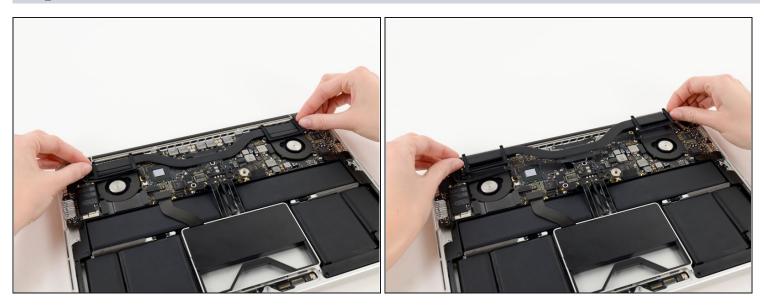
- Grasp the Interposer with <u>tweezers</u>.
- (i) An interposer is the name for an interface that links one electrical connection to another. In this repair, it is the board connecting the battery to logic board.
- Lift the Interposer off the logic board and remove it.
- A Removing this board will ensure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

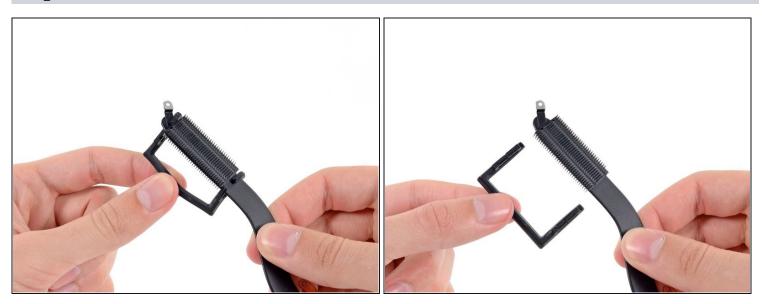
A When reinstalling the heat sink, be sure to apply a new layer of thermal paste. If you have never applied thermal paste before, we have a <u>guide</u> that makes it easy.

Step 12 — Right Fan Duct



• Carefully remove the right fan duct from the edge of the heat sink.

Step 13 — Left Fan Duct



• Carefully remove the left fan duct from the edge of the heat sink.

Step 14 — Heat Sink



• Heat sink remains.

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