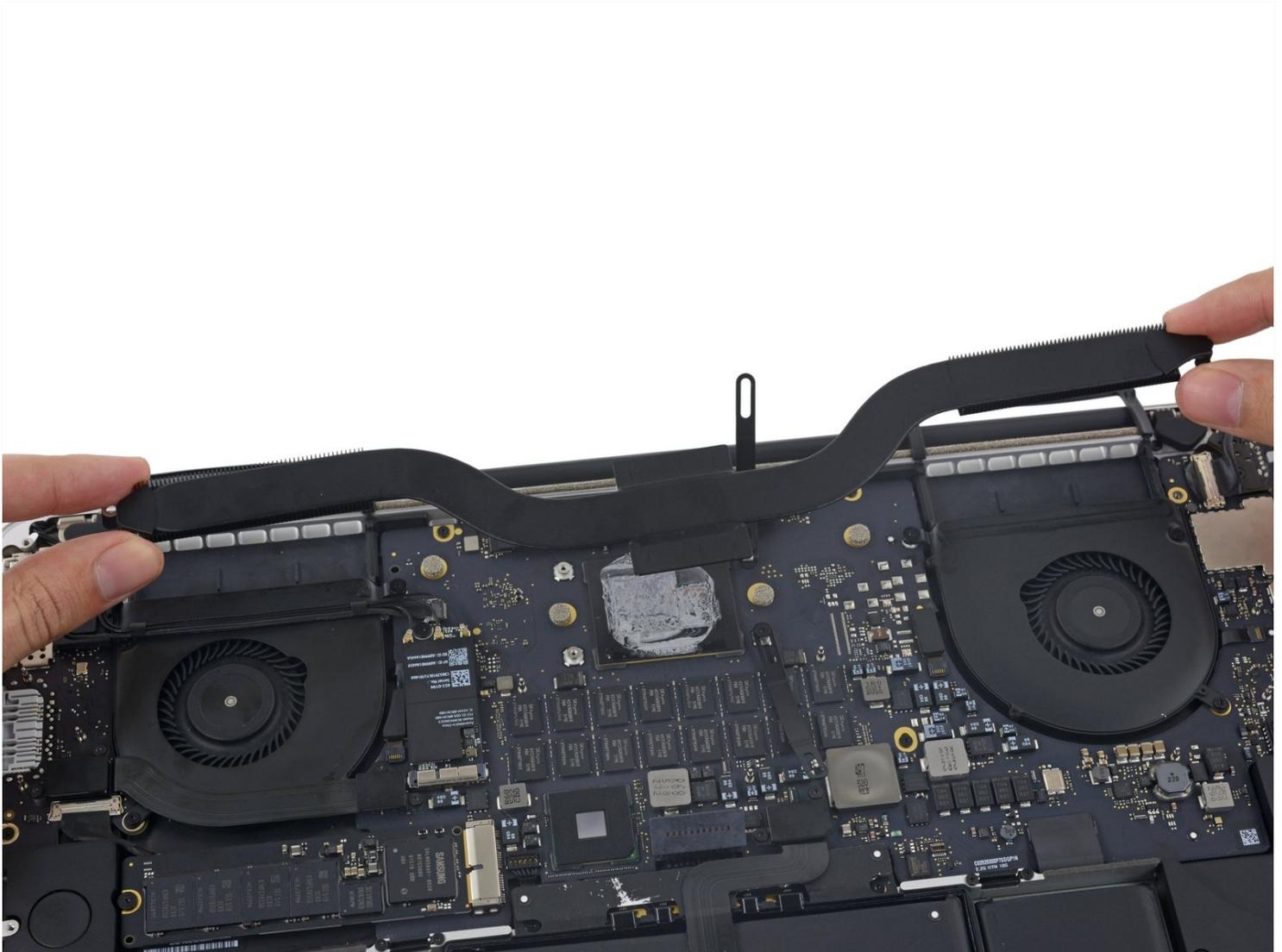




# MacBook Pro 15" Retina Display Mid 2015 Heat Sink Replacement

Things heating up inside your MacBook Pro with...

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## INTRODUCTION

Things heating up inside your MacBook Pro with Retina Display? Could be trouble with the heat sink. Use this guide to remove the heat sink in the Mid 2015 MacBook Pro 15" with Retina display.

Don't forget to clean and re-apply thermal paste if you remove the heat sink. Follow [this](#) guide to learn how.

### 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)  
[Coffee Filters or a lint-free cloth](#) (1)

### PARTS:

[MacBook Pro 15" Retina \(Mid 2015, Integrated Graphics\) Heat Sink](#) (1)  
[MacBook Pro 15" Retina \(Late 2013-Mid 2015, Dual Graphics\) Heat Sink](#) (1)

## Step 1 — Lower Case



- Remove the following P5 pentalobe screws securing the lower case to the MacBook Pro:
  - Eight 3.1 mm
  - Two 2.3 mm

## Step 2



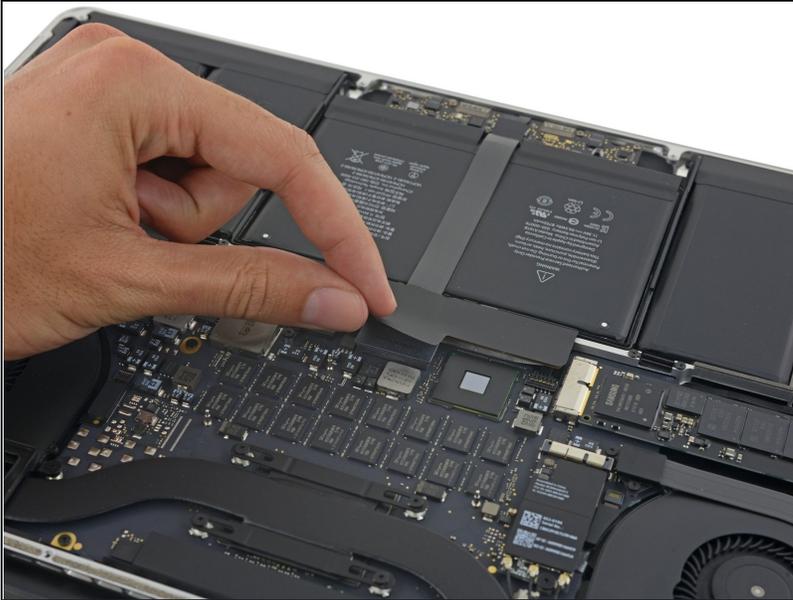
- Lifting from the edge nearest the clutch cover, lift the lower case off the MacBook Pro.

## Step 3



- ⓘ The lower case has two plastic pegs (red) that fit into plastic clips in the upper case (orange).
- ✦ During reassembly, gently push down the center of the lower case to reattach the case to its two plastic clips.

## Step 4 — Battery Connector



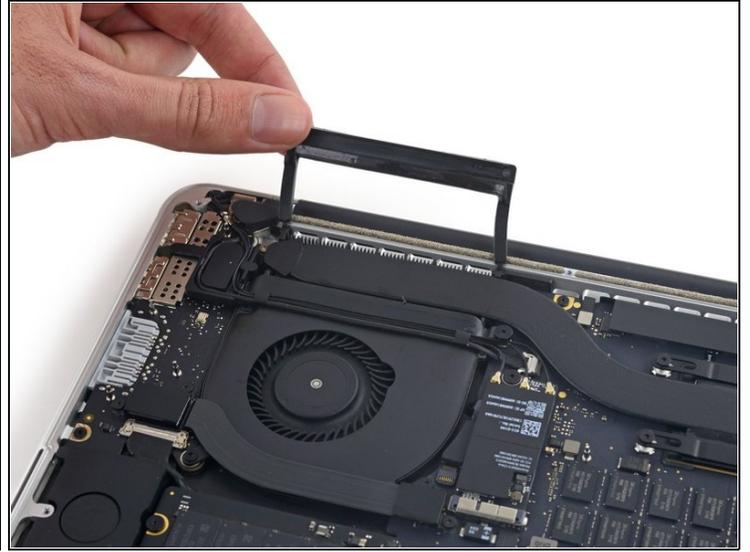
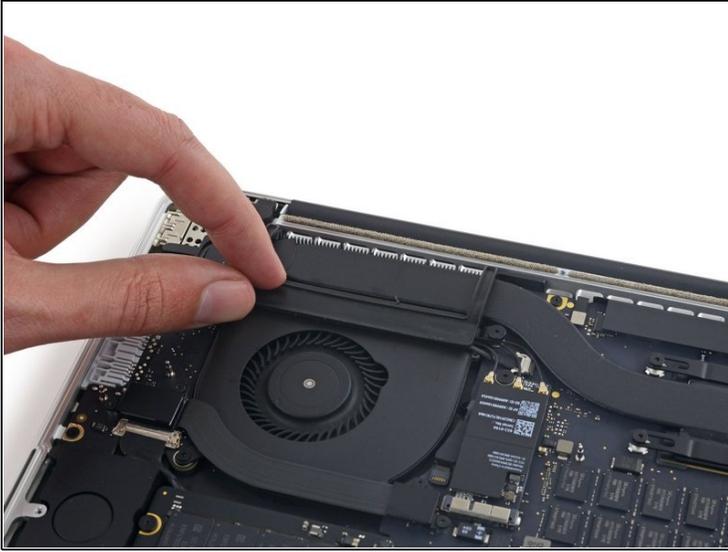
- Peel back the sticker covering the battery connector.

## Step 5



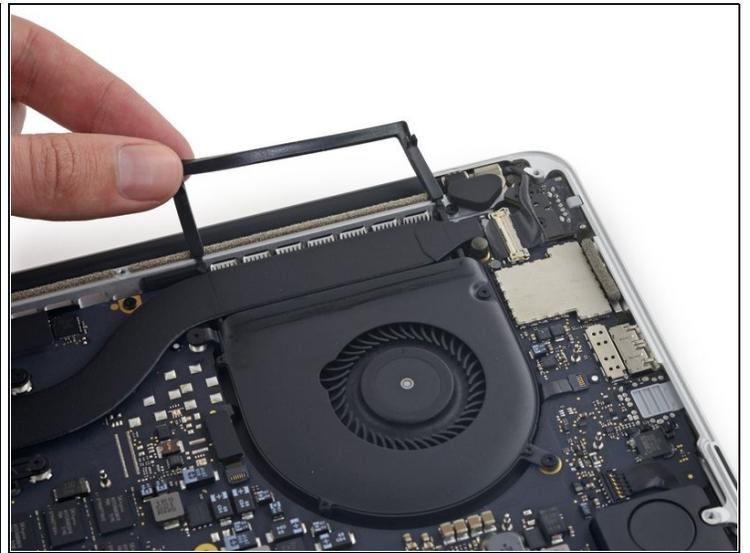
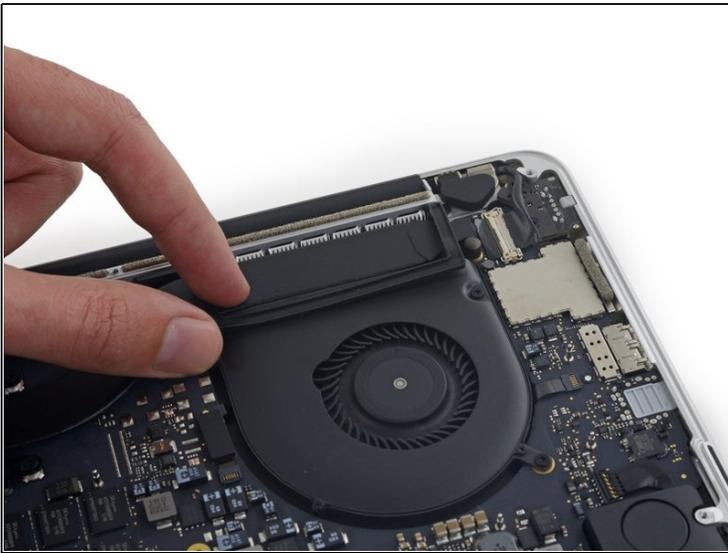
- Gently lift each side of the battery connector to pry the connector out of its socket on the logic board.
- Bend the connector back toward the battery, ensuring that the battery connector doesn't accidentally make contact with the logic board.

## Step 6 — Heat Sink



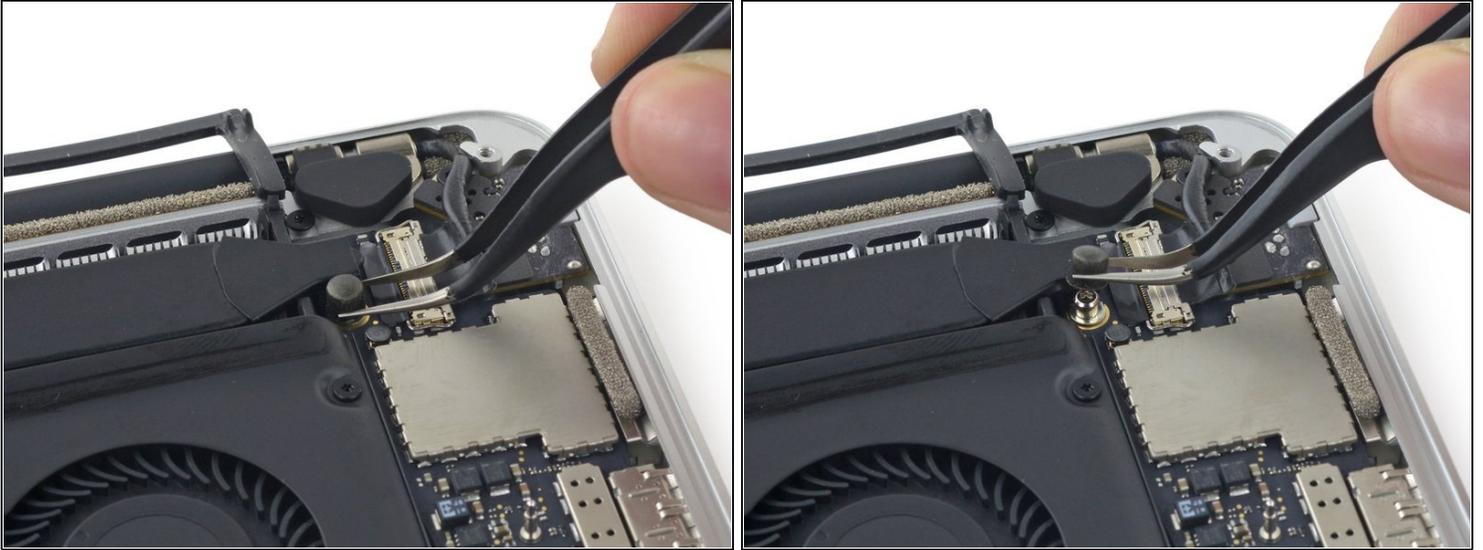
- Peel the rubber cover up off the right fan and fold it out of the way.

## Step 7



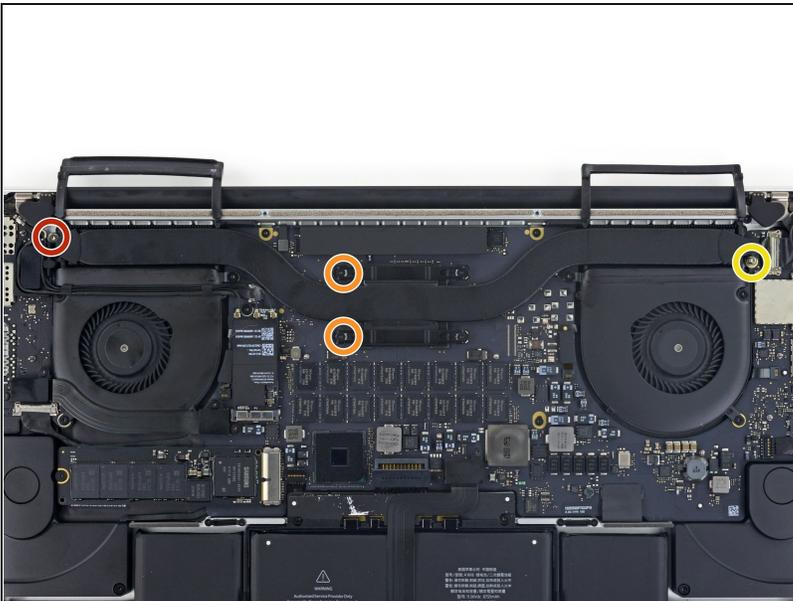
- Peel the rubber cover up off the left fan and fold it out of the way.

## Step 8



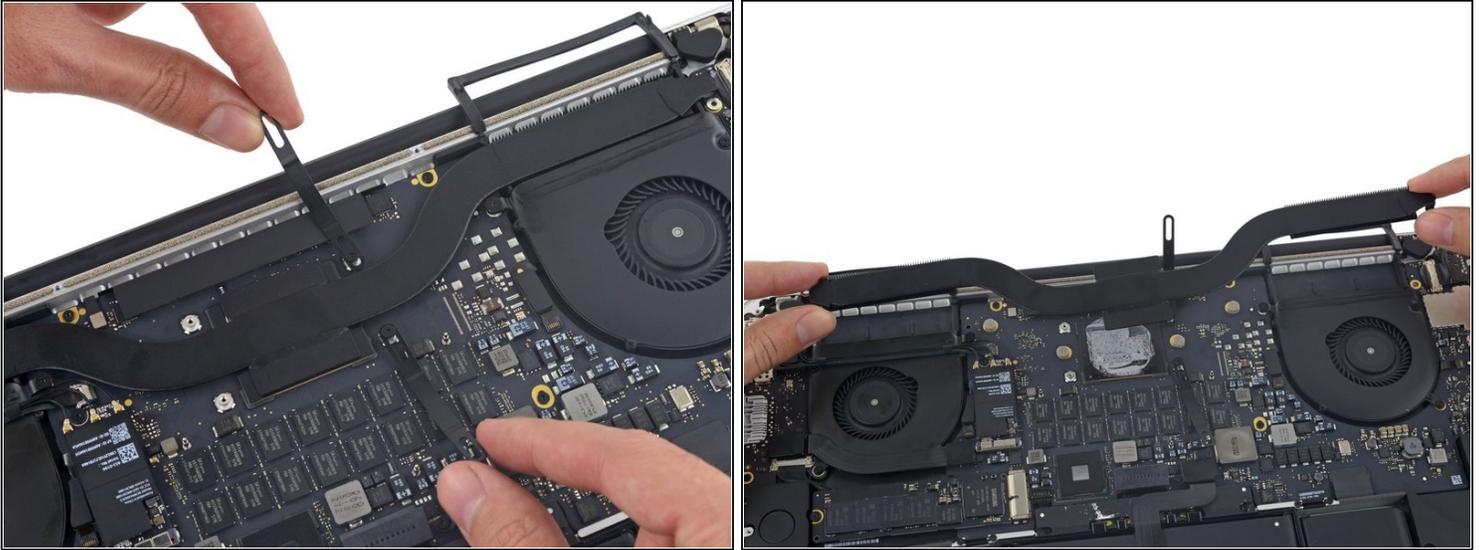
- Remove the small rubber cap from the screw at the end of the heat sink.

## Step 9



- Remove the following screws securing the heat sink to the logic board:
  - One 3.8 mm T5 Torx screw
  - Two 3.4 mm T5 Torx screws
    - ⓘ When you remove these screws, springy metal brackets securing the heat sink will be released. Take care not to lose these screws when the brackets spring free.
  - One 5.6 mm T5 Torx screw

## Step 10



- Flip the two spring clamps out of the way of the heat sink.
- Remove the heat sink from the MacBook Pro.
- ☑ On reassembly, be sure to clean the CPU and heat sink and reapply thermal compound to the CPU. Follow [this guide](#) to learn how.
- ⓘ If you are using a model with dual graphics, be sure to remove the four screws where the GPU die is before attempting to remove the heatsink.

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