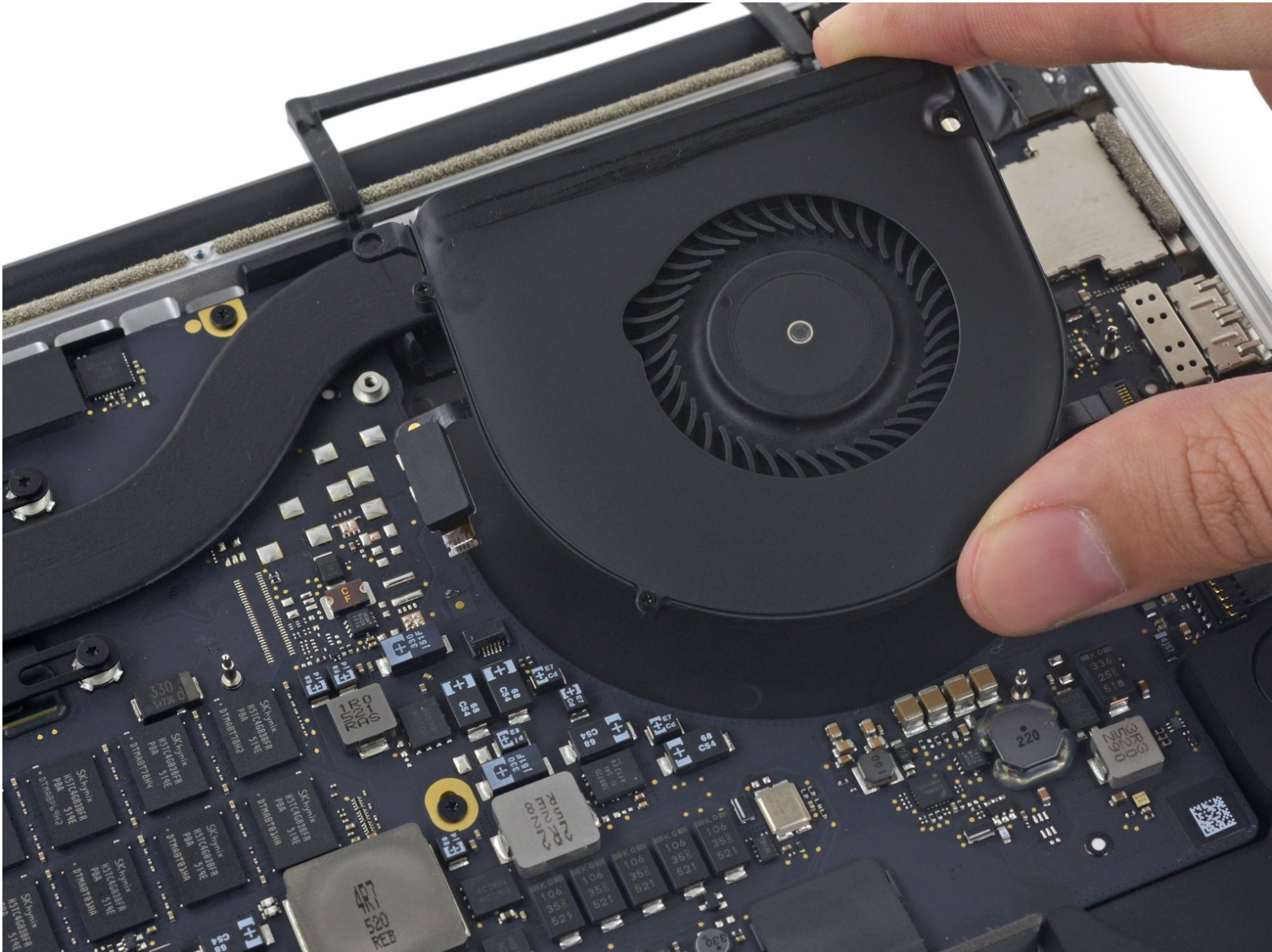




# MacBook Pro 15" Retina Display Mid 2015 Left Fan Replacement

Replace the left fan in the MacBook Pro 15" Retina Display Mid 2015.

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## INTRODUCTION

Use this guide to replace a broken or noisy left fan in your MacBook Pro 15" Retina Display Mid 2015.

Note that the left fan is on the left of the machine while you're using it, and on the right while you're working on it.



### TOOLS:

- [P5 Pentalobe Screwdriver Retina MacBook Pro and Air](#) (1)
- [Spudger](#) (1)
- [T5 Torx Screwdriver](#) (1)



### PARTS:

- [MacBook Pro 15" Retina \(Late 2013-Mid 2015\) Left Fan](#) (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

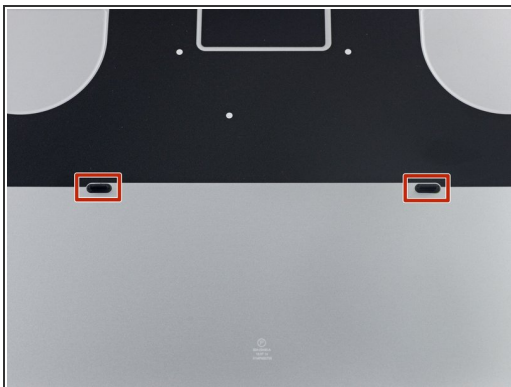
## Step 2





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

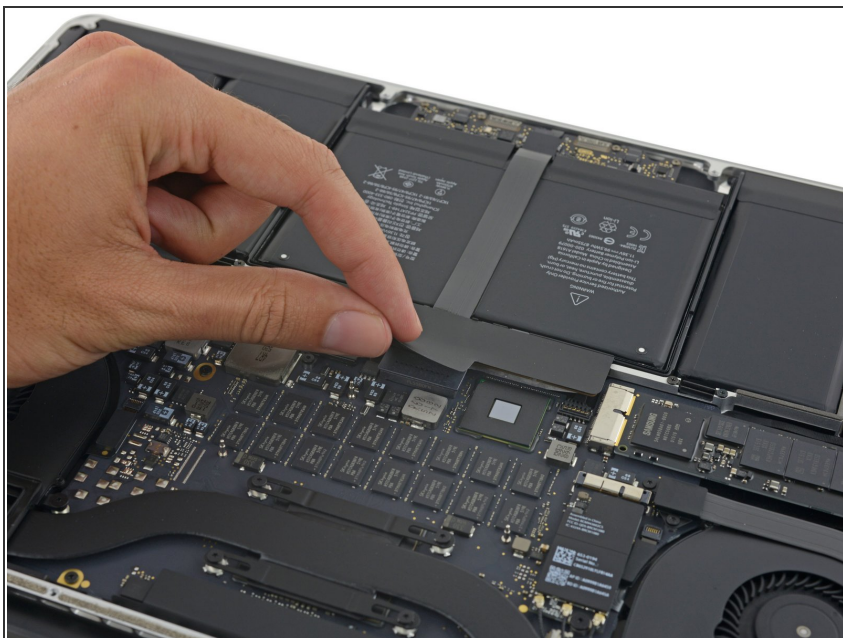


## Step 3



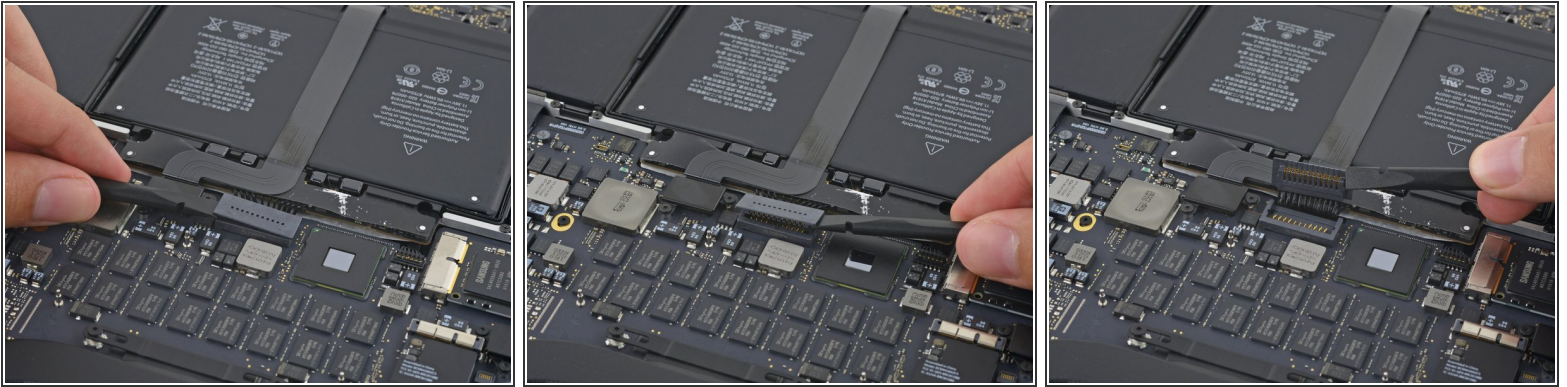
-  The lower case has two plastic pegs (red) that fit into plastic clips in the upper case (orange).
-  During reassembly, gently push down the center of the lower case to reattach the case to its two plastic clips.

## Step 4 — Battery Connector



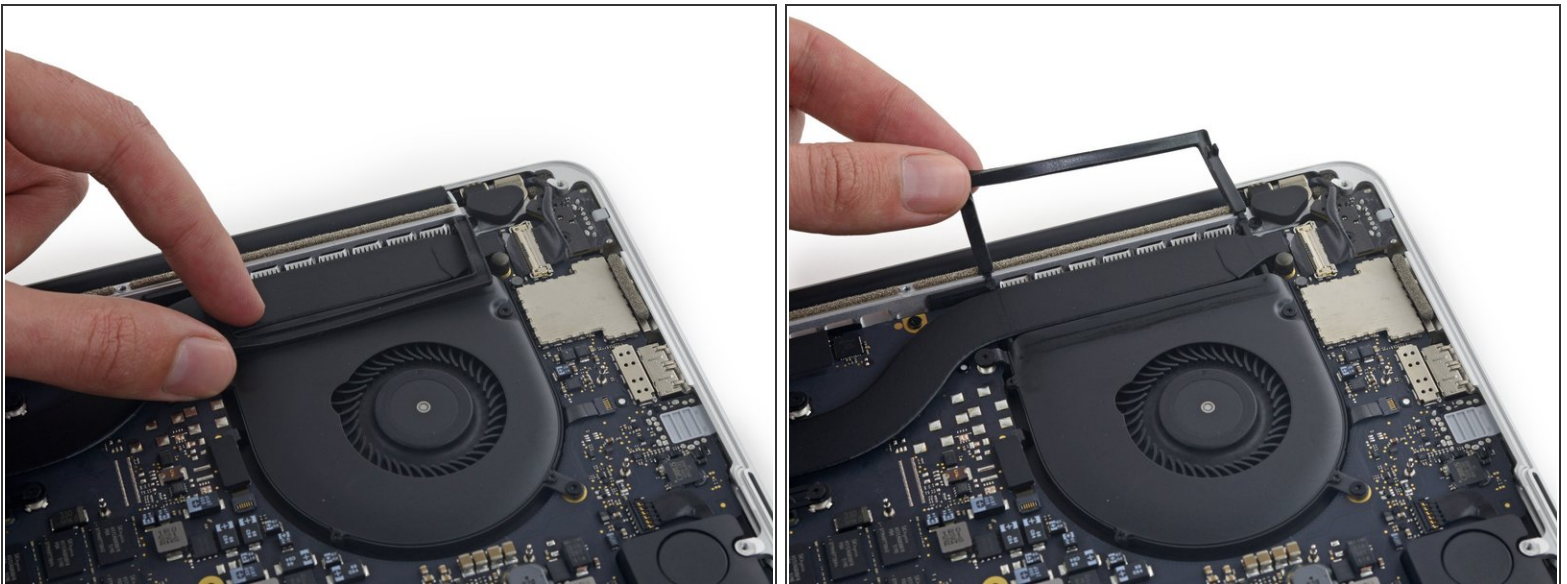
- Peel back the sticker covering the battery connector.

## 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.

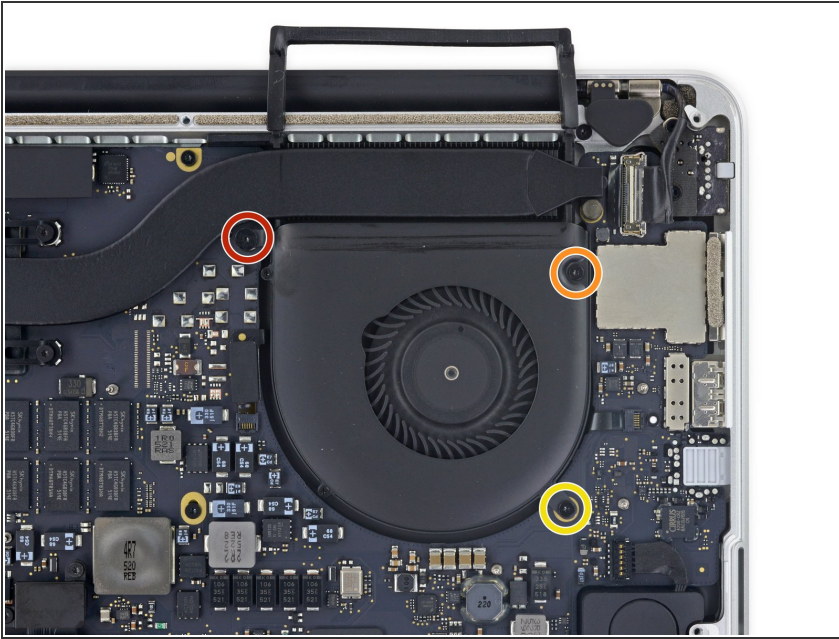
## Step 6 — Left Fan



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

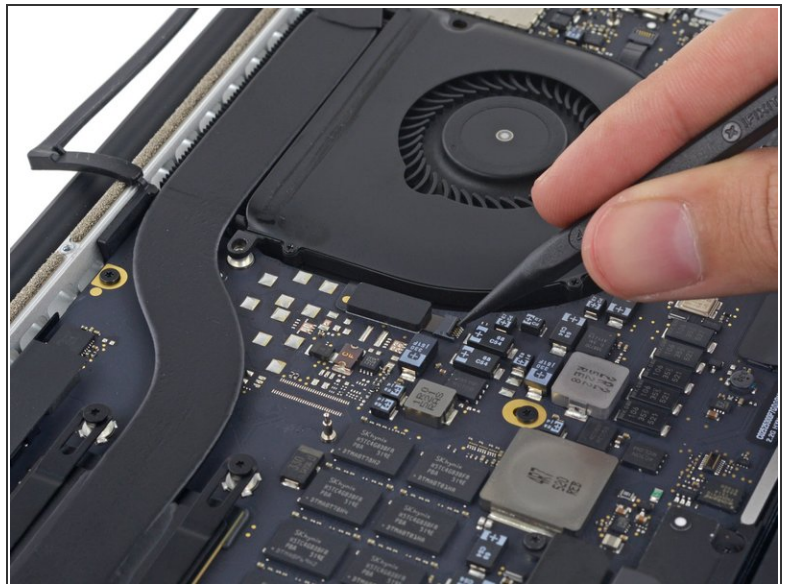
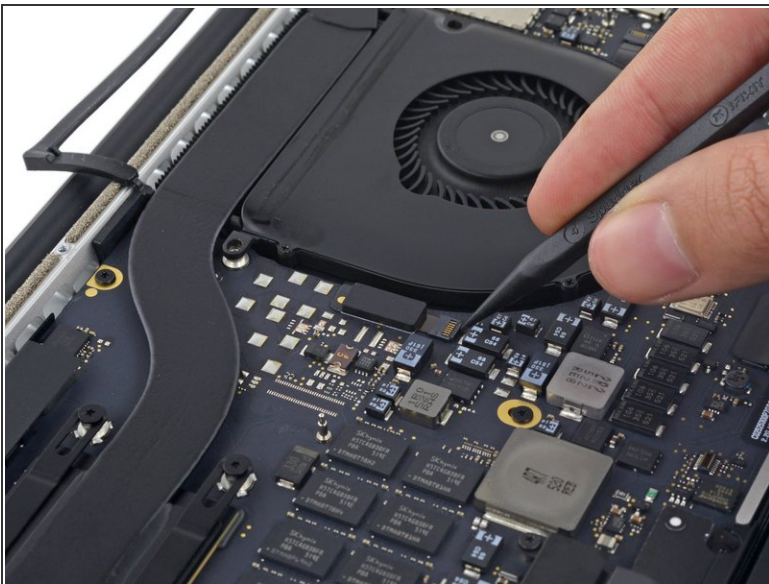


## Step 7



- Remove the following three screws securing the left fan to the logic board:
  - One 3.6 mm T5 Torx screw with a wide head
  - One 5.0 mm T5 Torx screw with a 2.0 mm long shoulder
  - One 4.4 mm T5 Torx screw

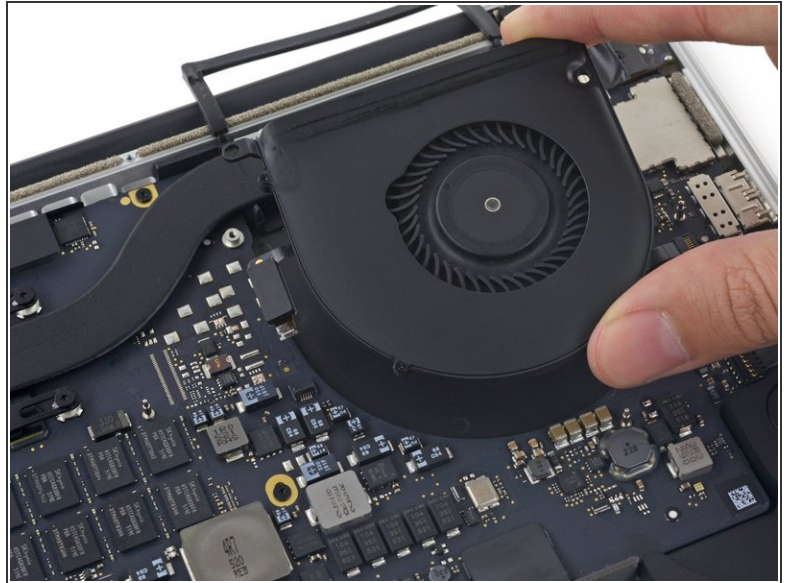
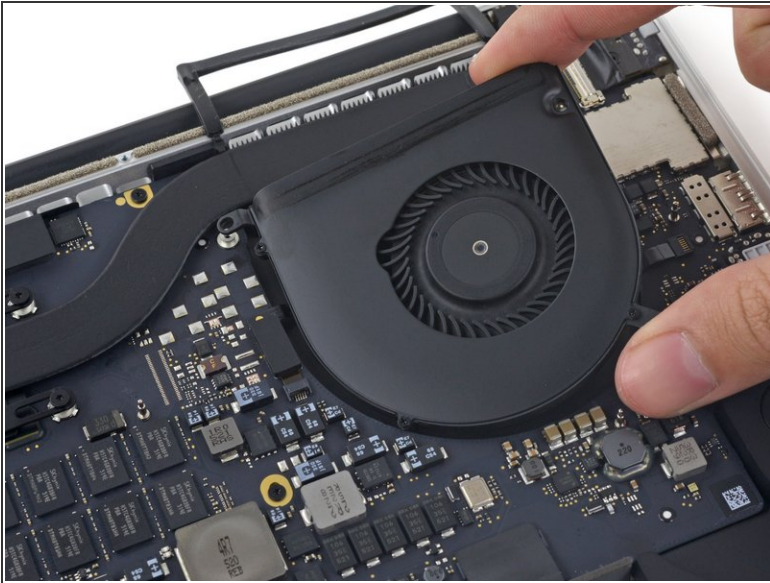
## Step 8



- 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 9



- Lift the fan and push it gently towards the back edge of the MacBook to free the fan cable from its socket.
  - ⚠ The fan cable may be adhered to the logic board—to avoid tearing the cable, gently peel it up while lifting the fan.
- Remove the fan.

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