

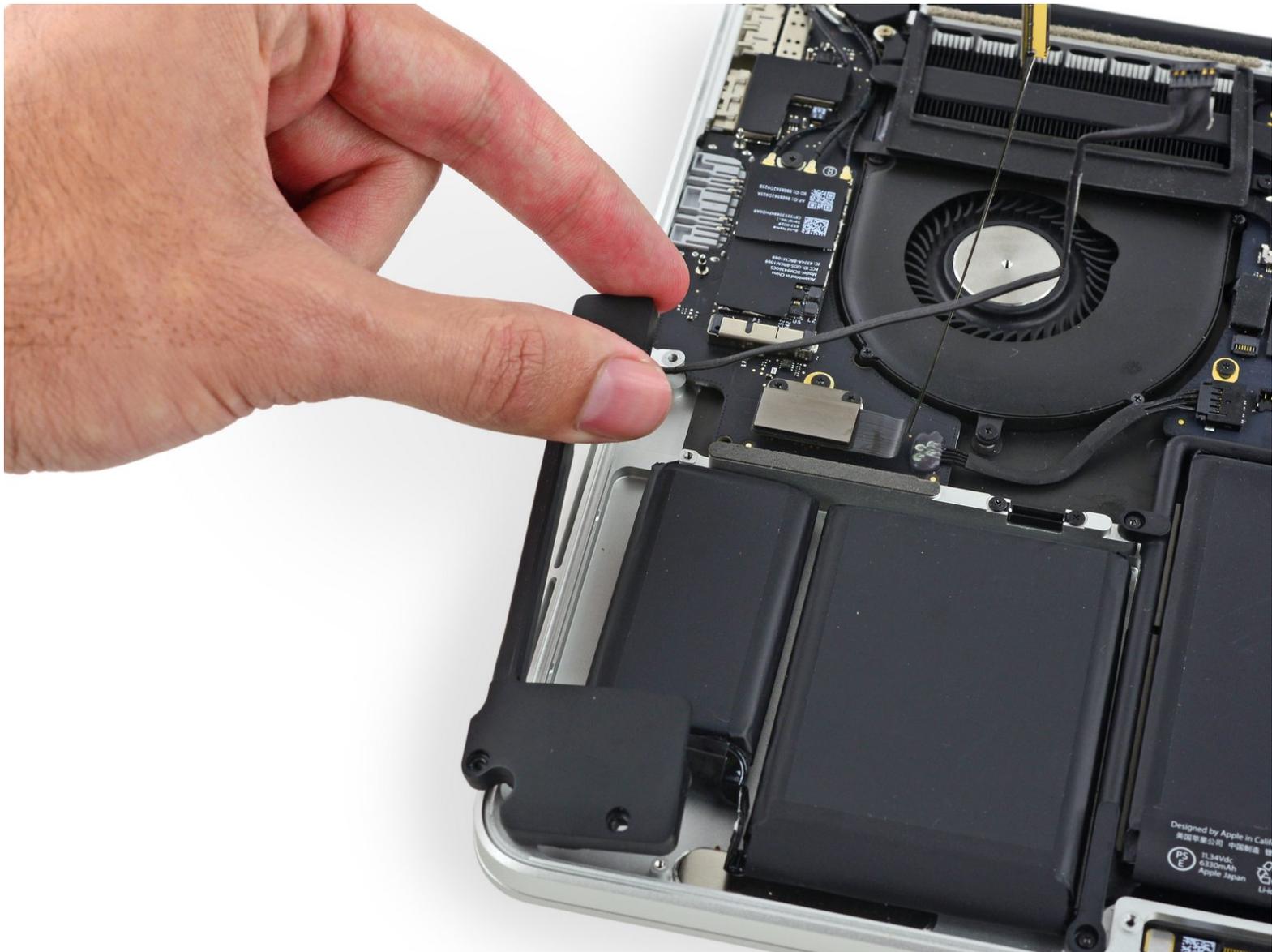


# MacBook Pro 13" Retina Display Late 2013

## Right Speaker Replacement

Replace the Right Speaker in your MacBook Pro 13" Retina Display Late 2013.

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## INTRODUCTION

Use this guide to replace the right speaker.

This guide is for the speaker on the right side of your notebook when operating normally, during most of the guide it will be on the left, as your laptop will be upside down.



### TOOLS:

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



### PARTS:

- [MacBook Pro 13" Retina \(Late 2013\) Right Speaker](#) (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



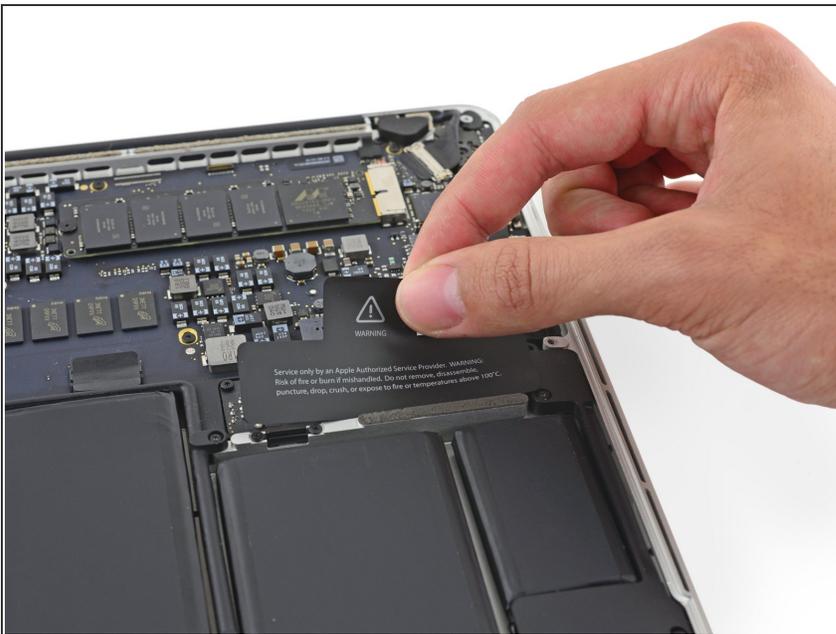
- Wedge your fingers between the upper case and the lower case.
- Gently pull the lower case away from the upper case to remove it.

### Step 3



-  The lower case is connected to the upper case with two plastic clips near its center.
-  During reassembly, gently push down the center of the lower case to reattach the two plastic clips.

### Step 4 — Battery Connector



-  If necessary, remove the plastic cover adhered to the battery contact board.

## Step 5



- Use the flat end of a spudger to lift the battery connector straight up out of its socket on the logic board.

⚠ Be sure you lift up only on the connector itself, **not** the socket, or you risk permanent damage to the logic board.

## Step 6



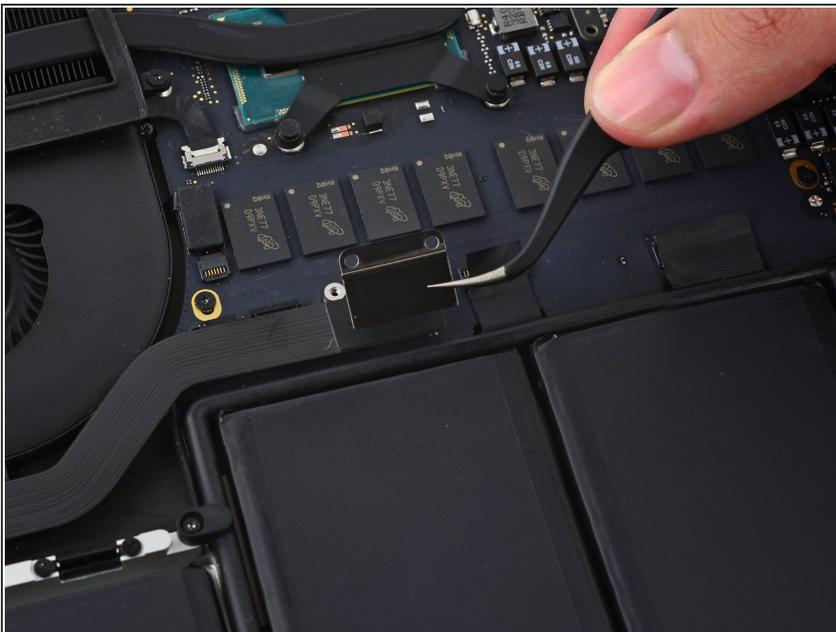
- ☑ Bend the battery connector up out of the way to prevent accidental contact with its socket during your repair.

## Step 7 — Right Speaker



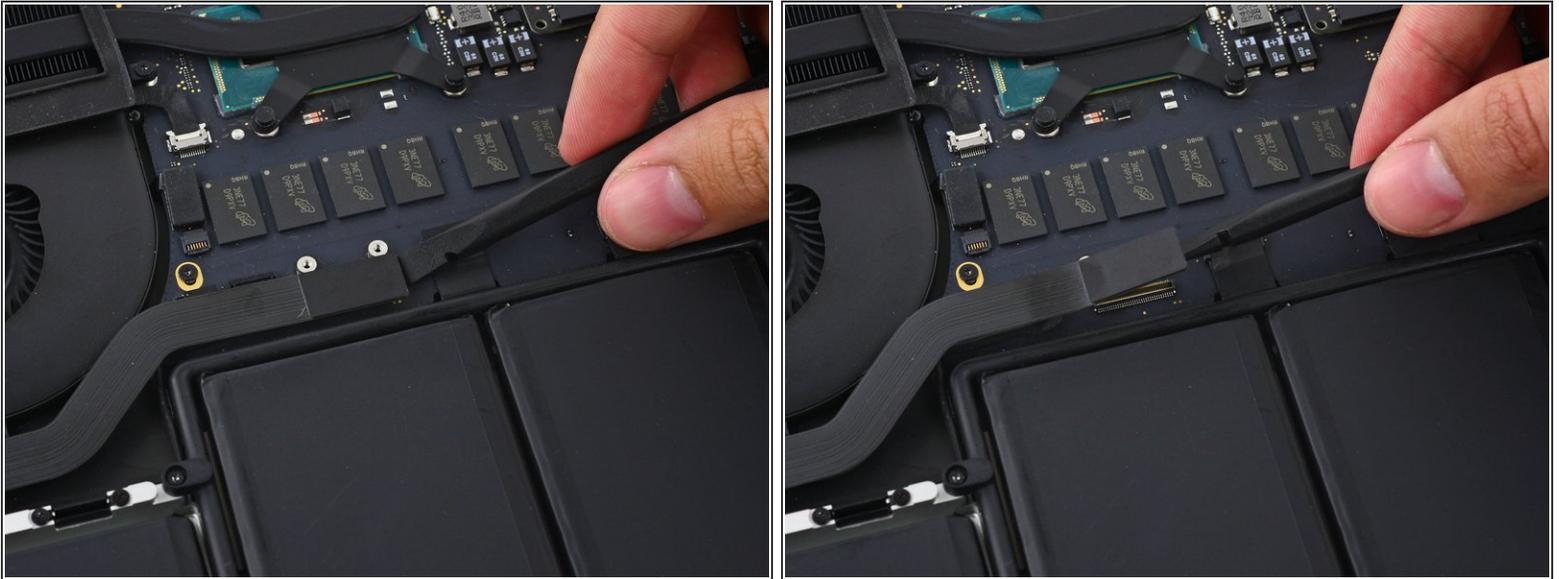
- Remove the two 2.1 mm T5 Torx screws securing the logic board end of the I/O board cable bracket.

## Step 8



- Grasp the I/O board cable bracket with a pair of tweezers and remove it from the MacBook.

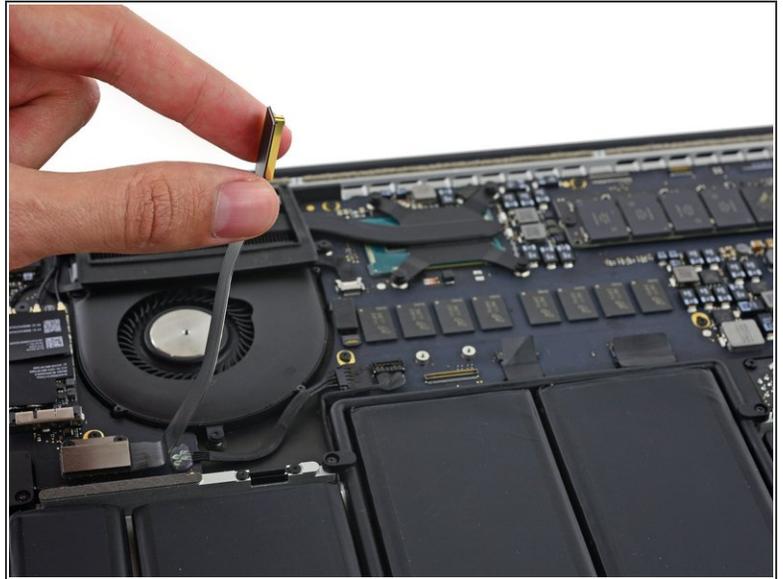
## Step 9



- Use the flat end of a spudger to pop the I/O board connector straight up off its socket on the logic board.

⚠ Be careful to only pry up on the I/O board cable, **not** on the socket itself or you risk damaging your logic board.

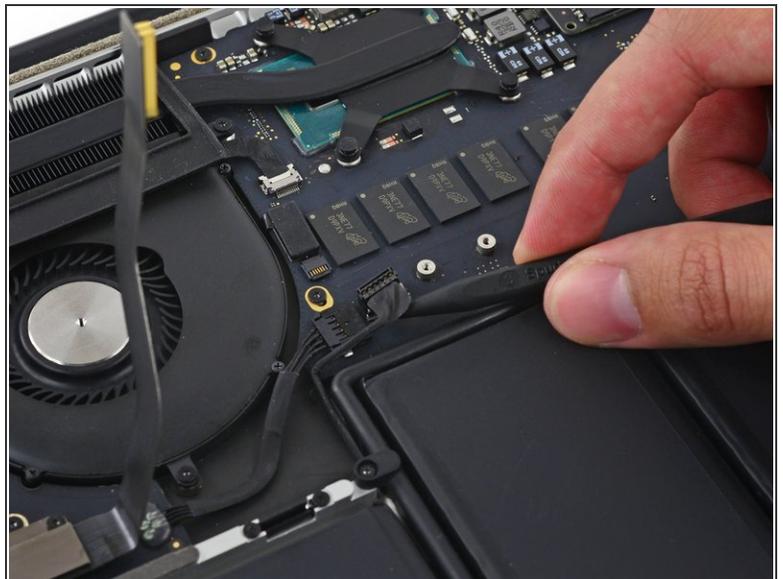
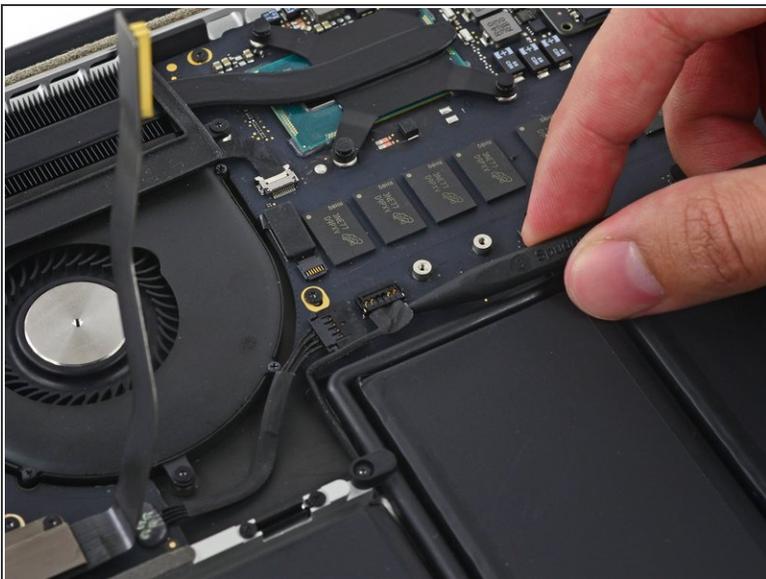
## Step 10



- Lift the logic board end of the I/O board cable straight up to bend it out of the way.

⚠ To avoid damage to the cable, fold only at the bend in the I/O board end of the cable.

## Step 11



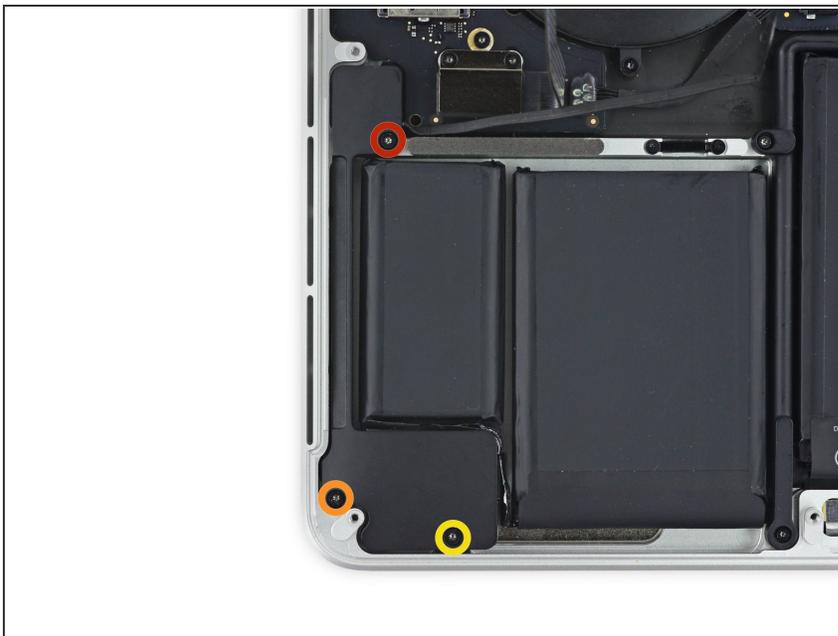
- Carefully tuck the tip of a spudger under the right speaker cable near the connector and lift it up out of its socket on the logic board.

## Step 12



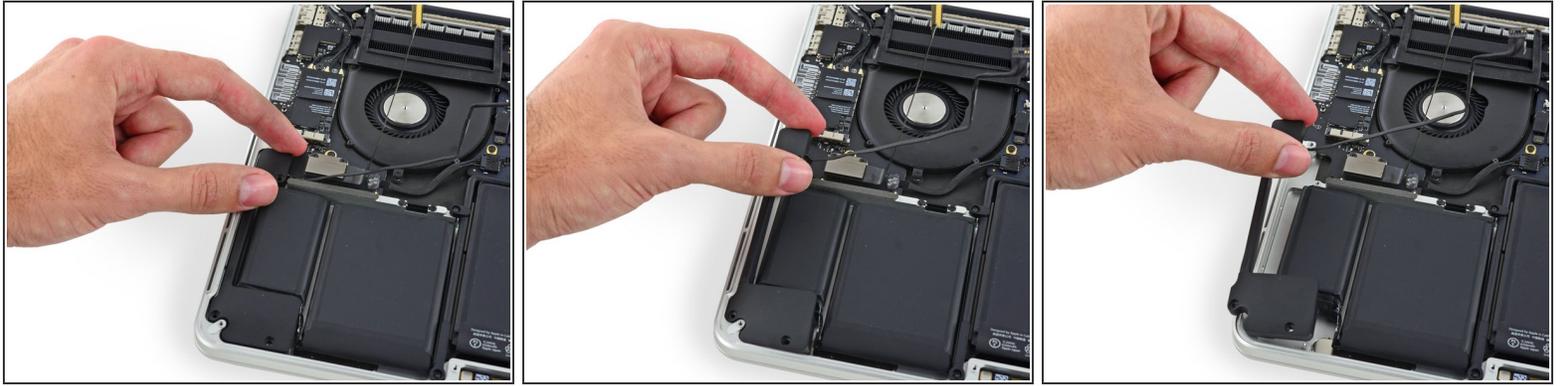
- Carefully peel the right speaker cable off the upper case.

## Step 13



- Remove the following screws securing the right speaker to the upper case:
  - One 5.7 mm T5 Torx screw
  - One 6.5 mm T5 Torx screw
  - One 3.8 mm T5 Torx screw

## Step 14



- Lift the right speaker from the cable end and pull it free from the case.

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