



MacBook Pro 13" Retina Display Early 2013

Left Speaker Replacement

Replace the Left Speaker in your MacBook Pro 13" Retina Display Early 2013.

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INTRODUCTION

Use this guide to replace the left speaker.



TOOLS:

- [MacBook Pro and Air 5-Point Pentalobe Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)
- [T5 Torx Screwdriver](#) (1)
- [T6 Torx Screwdriver](#) (1)
- [Tweezers](#) (1)
- [Spudger](#) (1)



PARTS:

- [MacBook Pro 13" Retina Left 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.
- Remove the lower case and set it aside.

Step 3



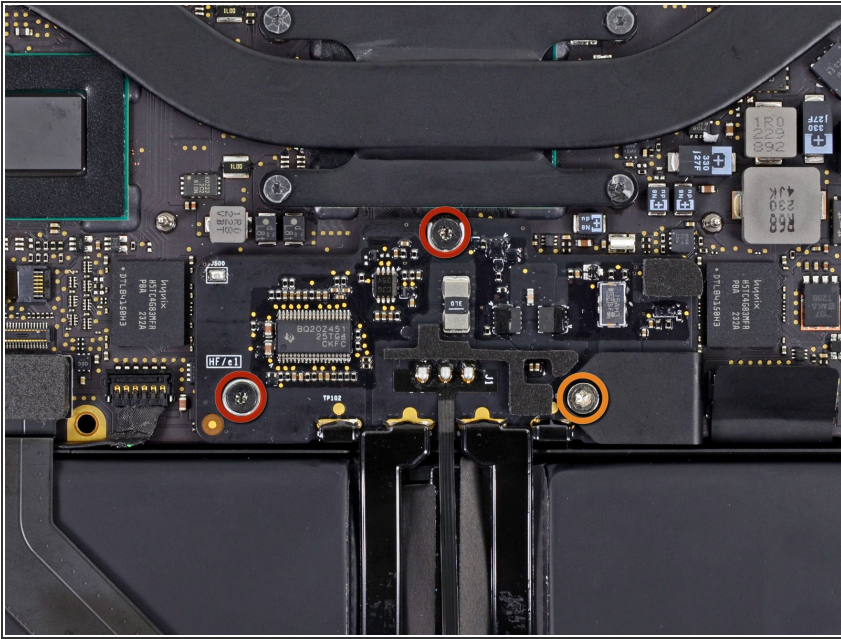
-  The lower case is connected to the upper case at the center, with two plastic clips.
-  During reassembly, gently push down the center of the lower case to reattach the two plastic clips.

Step 4 — Battery Connector



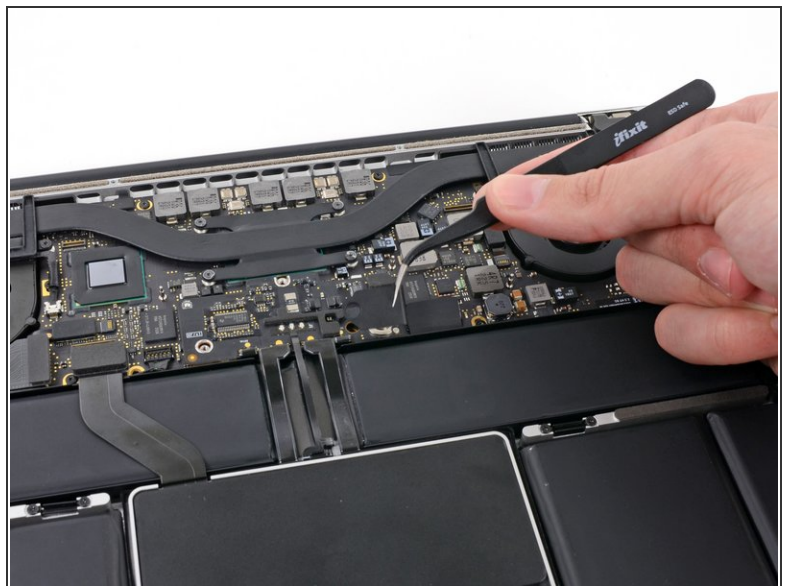
- Remove the plastic cover adhered to the battery contact board.

Step 5



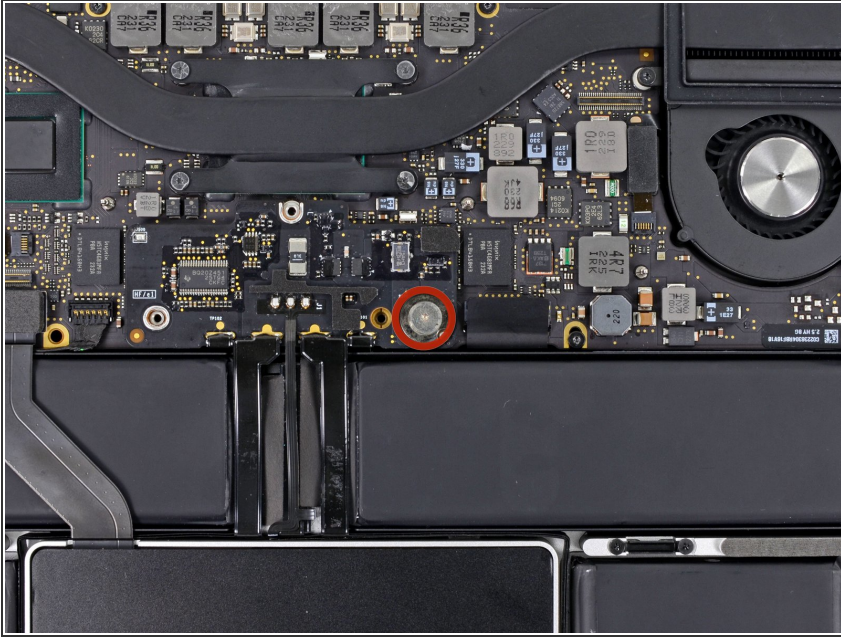
- Remove the following screws securing the battery connector board to the logic board:
 - Two 2.8 mm T6 Torx screws
 - One 7.0 mm T6 Torx shouldered screw

Step 6



- Use tweezers 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

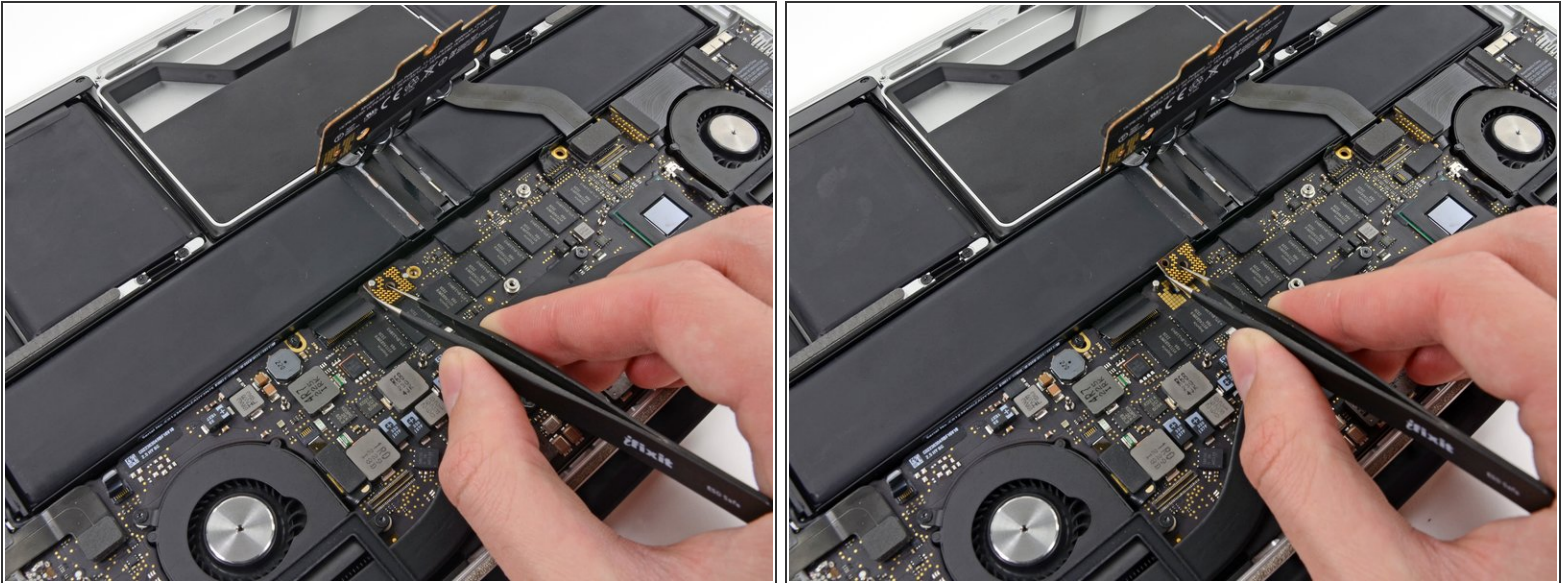


- Carefully lift the battery connector board up off the logic board.
- It is recommended to bend the battery cables just slightly, to keep the board suspended up above the logic board and out of the way.

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

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Step 9 — Battery Contact Board



- Grasp the Interposer with tweezers.
 - ❗ 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.
 - ⚠ 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 — Left Speaker



- Use the flat end of a spudger to pry the headphone jack cable connector straight up off its socket on the logic board.
- ⓘ Gently bend the headphone jack cable to 90° up from the logic board.
- ✦ Bending the headphone jack cable will allow you to disconnect the left speaker cable connector without having the headphone jack cable in the way.

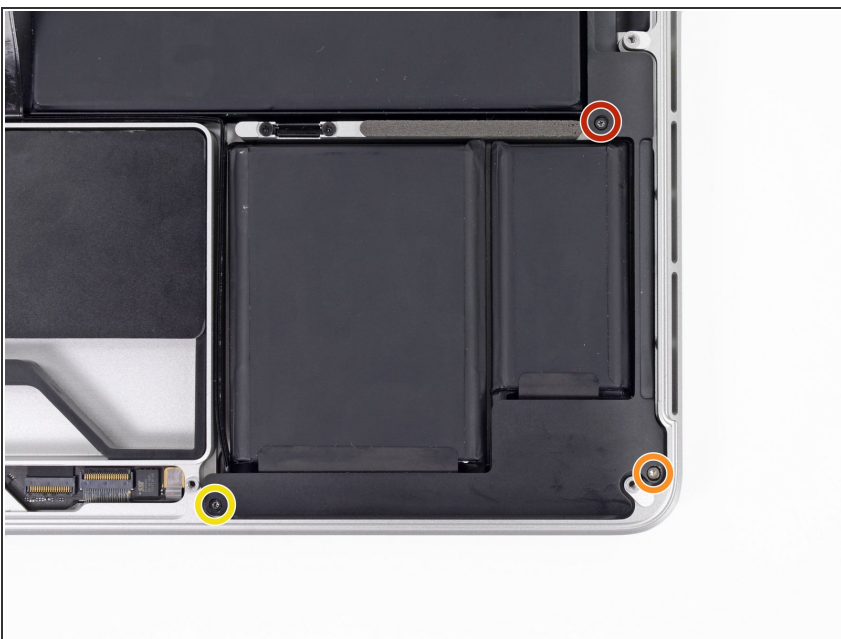
Step 11



- 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.

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

Step 12



- Use a T5 Torx driver to remove the following screws securing the left speaker to the upper case:
 - One black 6.8 mm screw
 - One silver 6.3 mm screw
 - One black 4.9 mm screw
- ⓘ The silver screw (in the corner) may be covered with a foam pad. If so, use your tweezers to peel it up and remove it.

Step 13



- Lift and remove the left speaker out of the upper case.

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