



MacBook Air 13" Early 2017 Dual Microphone Replacement

Use this guide to replace the double microphone...

Written By: Adam O'Camb



INTRODUCTION

Use this guide to replace the double microphone assembly in your MacBook Air 13" Early 2017.



TOOLS:

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



PARTS:

- [MacBook Air 13" \(Mid 2013 to 2017\) Microphone](#) (1)

Step 1 — Lower Case



- **i** Before proceeding, power down your MacBook. Close the display and lay it on a soft surface, top-side down.
- Use a [P5 Pentalobe](#) driver to remove ten screws securing the lower case, of the following lengths:
 - Two 9 mm screws
 - Eight 2.6 mm screws

Step 2



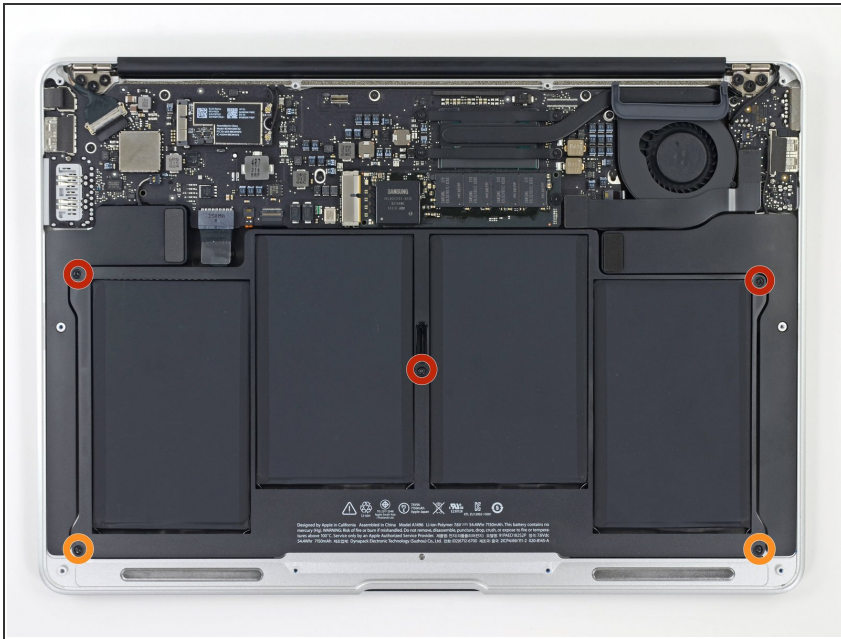
- Wedge your fingers between the display and the lower case and pull upward to pop the lower case off the Air.
- Remove the lower case and set it aside.

Step 3 — Battery Connector



-  To ensure that everything is de-energized and won't turn on while you're working, it is recommended that you disconnect the battery.
- Grab the clear plastic pull tab attached to the battery connector and pull it parallel to the board toward the front edge of the Air.
-  Do not lift upward on the connector as you disconnect it or you risk damage to the connector socket.

Step 4 — Battery



- Remove the following five screws securing the battery to the upper case:
 - Three 6.9 mm T5 Torx screws
 - Two 3.0 mm T5 Torx screws

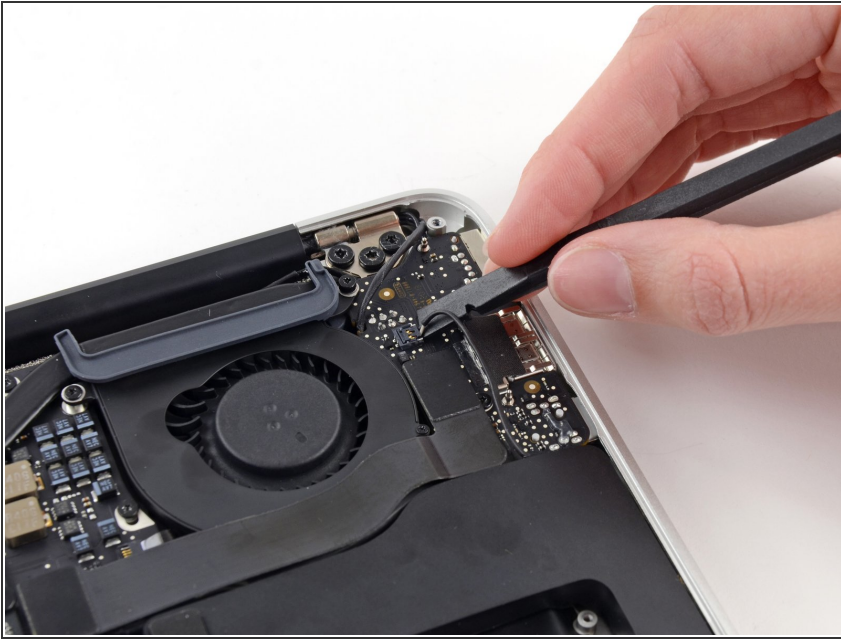
Step 5



⚠ When handling the battery, avoid squeezing or touching the four exposed lithium polymer cells.

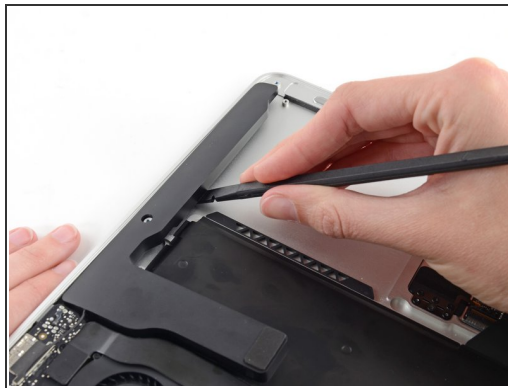
- Lift the battery from its edge nearest the logic board and remove it from the upper case.
- ☑ Your replacement battery may arrive with a [plastic film](#) lightly adhered to the top surface. Remove this film when you install the battery. However, [if the film is glued on and is difficult to remove](#), you should leave the film in place.
- ☑ If you're installing a new battery, you should [calibrate](#) it after installation:
 - Charge it to 100%, and then keep charging it for at least 2 more hours. Then, unplug and use it normally to drain the battery. When you see the low battery warning, save your work, and keep your laptop on until it goes to sleep due to low battery. Wait at least 5 hours, then charge your laptop uninterrupted to 100%.
 - If you notice any unusual behavior or problems after installing your new battery, you may need to [reset your MacBook's SMC](#).

Step 6 — Left Speaker



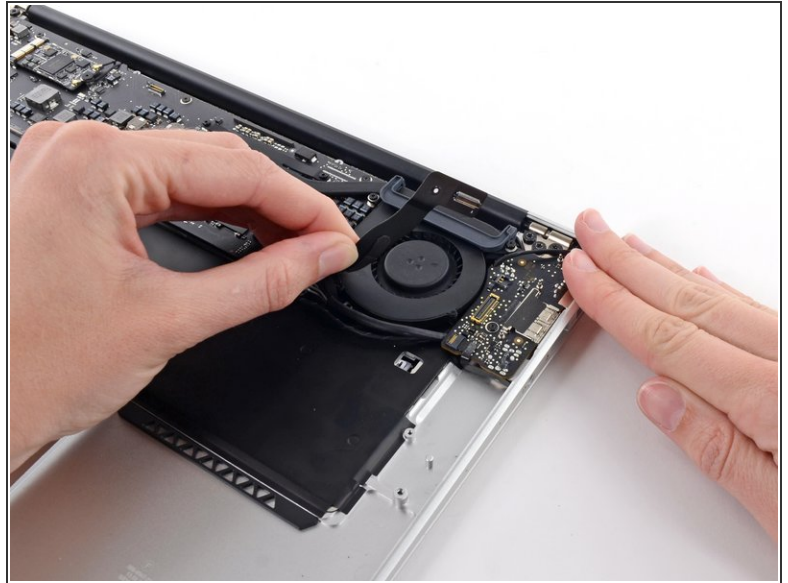
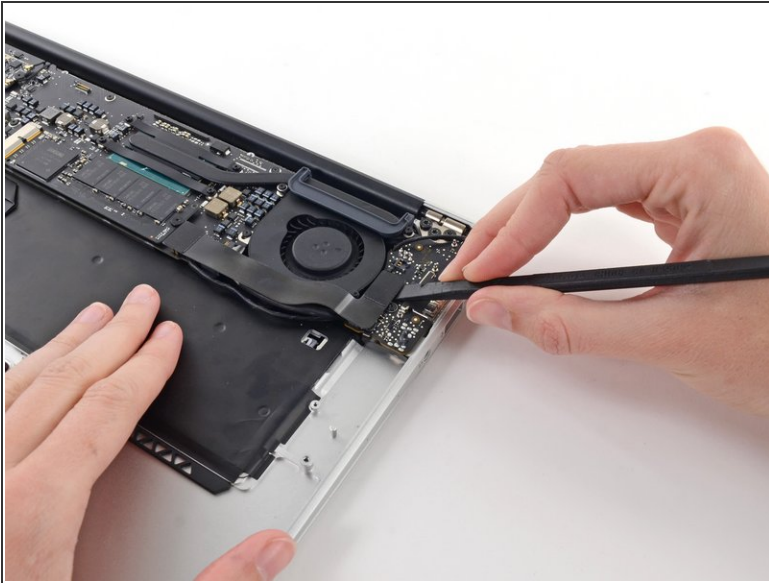
- Use the flat end of a spudger to pry the left speaker cable connector up and out of its socket on the I/O board.
- ⓘ Pry up from beneath the wires.

Step 7



- Use the flat end of a spudger to pry the left speaker off the adhesive securing it to the upper case.
- Remove the left speaker from the upper case.

Step 8 — Microphone



- Use the flat end of a spudger to pry the I/O board cable connector up out of its socket on the I/O board.
- ⓘ You do not need to remove the I/O board cable, simply bend it out of the way.
- Carefully peel, but do not remove, the I/O board cable off the adhesive securing it to the top of the fan.

Step 9

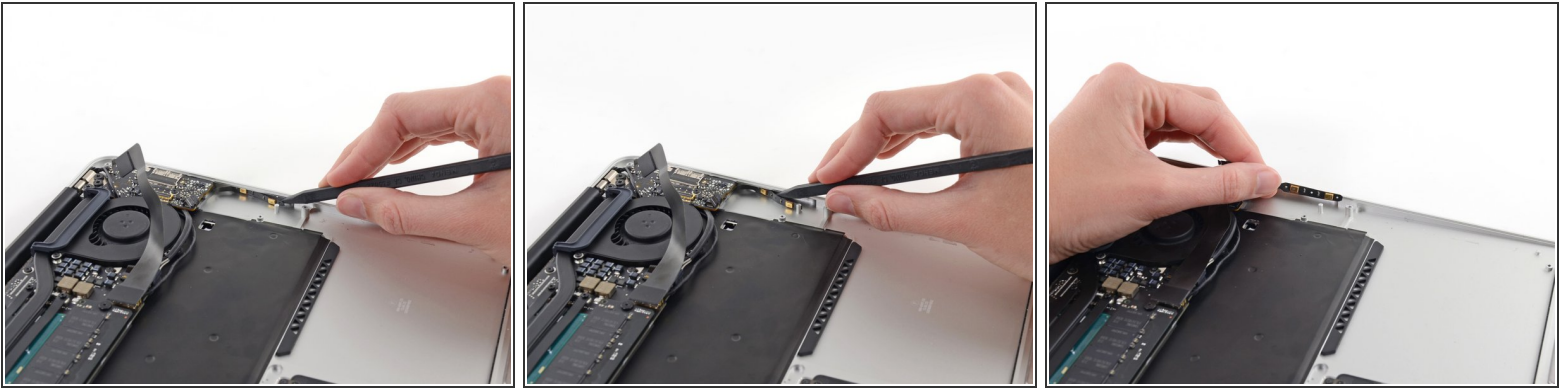


- Use the tip of a spudger to carefully flip up the retaining flap on the microphone ribbon cable ZIF socket.

⚠ Make sure you are flipping up the retaining flap, **not** the socket itself.

- Carefully push the microphone ribbon cable straight out of its socket on the I/O board.

Step 10



- Use the tip of a spudger to pry the microphone off the adhesive securing it to the left side of the upper case.
- Remove the microphone from the upper case.

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

Take your e-waste to an [R2 or e-Stewards certified recycler](#).

Repair didn't go as planned? Try some [basic troubleshooting](#), or ask our [Answers community](#) for help.