



# MacBook Air 11" Mid 2013 I/O Board Replacement

Replace the I/O board in your MacBook Air 11" Mid 2013.

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## INTRODUCTION

Use this guide to replace the I/O board.

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### TOOLS:

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

### PARTS:

- [MacBook Air 11" \(Mid 2013\) I/O Board](#) (1)

## Step 1 — Lower Case



- i Shut down and close your computer. Lay it on a soft surface top-side down.
- Remove the following ten screws:
  - Two 8 mm 5-point Pentalobe screws
  - Eight 2.5 mm 5-point Pentalobe screws
- i The special screwdriver needed to remove the 5-point Pentalobe screws can be found [here](#).

## Step 2



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

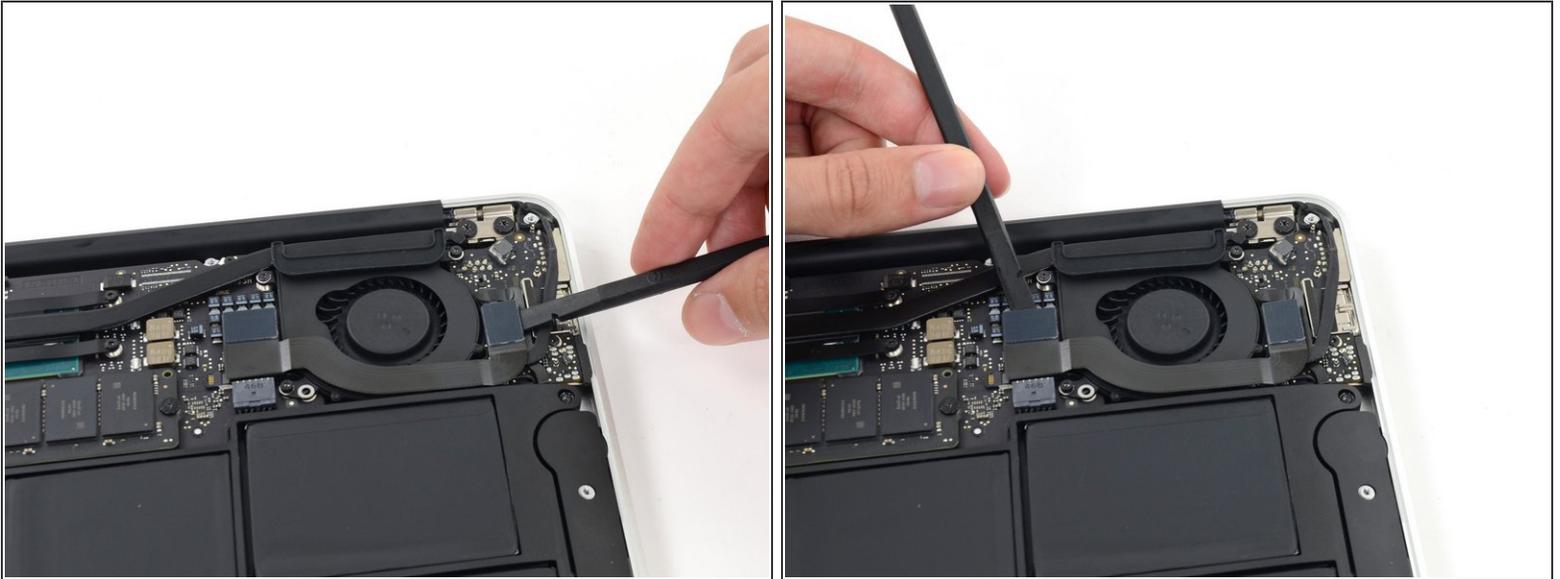
### Step 3 — Battery Connector



**⚠** In this step you will disconnect the battery to help avoid shorting out any components during service.

- Use the flat end of a spudger to pry both short sides of the battery connector upward to disconnect it from its socket on the logic board.
- Bend the battery cable slightly away from the logic board so the connector will not accidentally bend back and make contact with its socket.

## Step 4 — I/O Board Cable



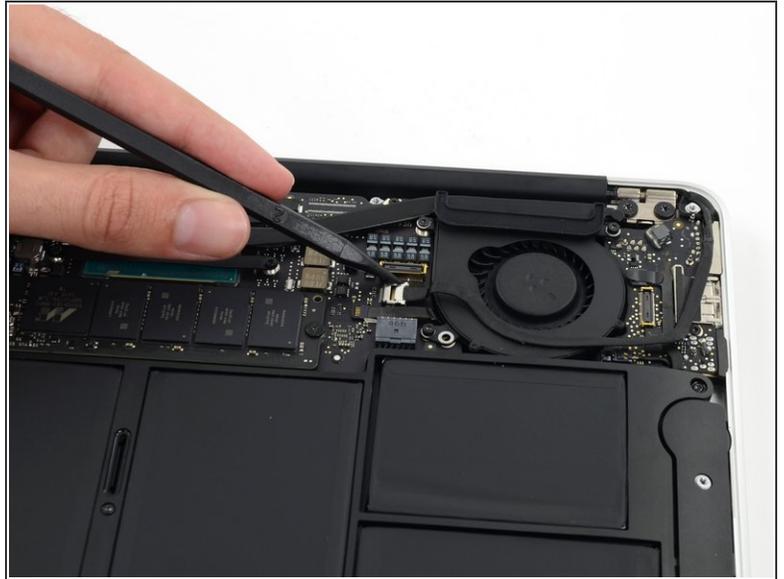
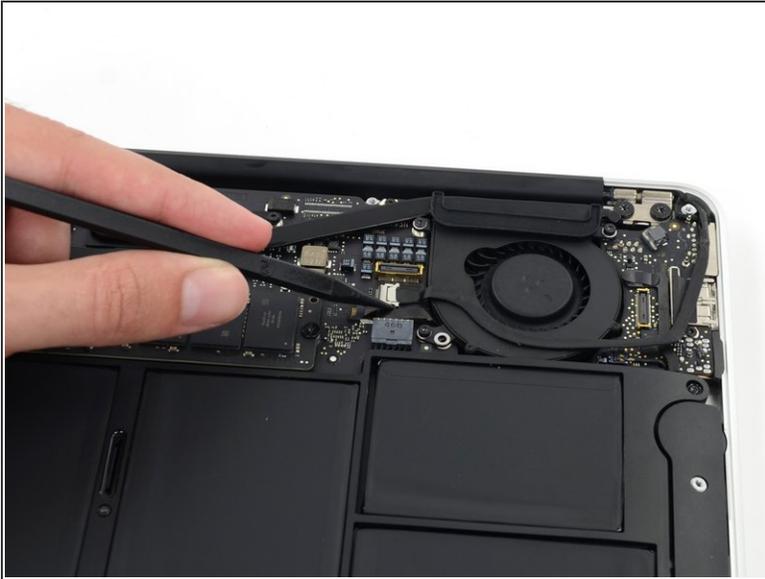
- Use the flat end of a spudger to pry the left and right I/O board cable connectors up off their respective sockets on the I/O board.

## Step 5



- Lift and remove the I/O board cable.

## Step 6 — Fan



- Use the tip of a spudger to carefully push on each side of the iSight camera cable connector to loosen it out of its socket on the logic board.

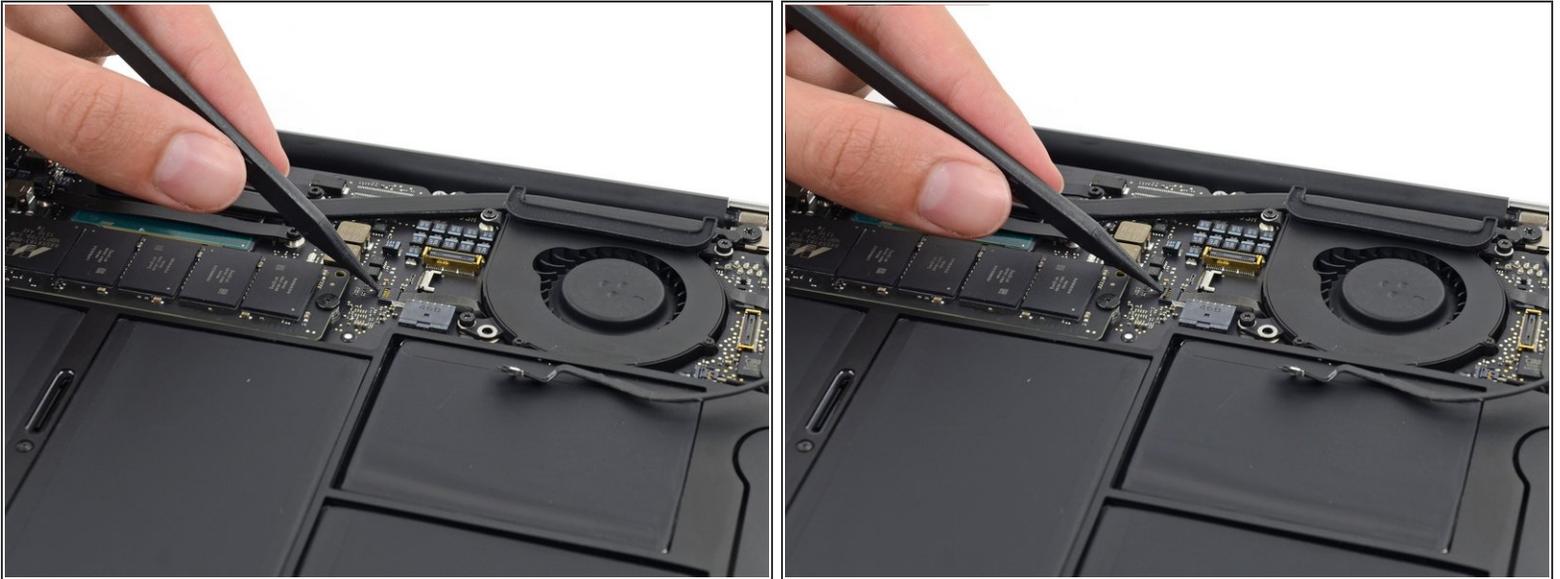
**i** We recommend you gently "walk" the connector out of its socket.

## Step 7



- Peel the iSight camera cable up off the adhesive securing it to the fan.

## Step 8



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

⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.

## Step 9



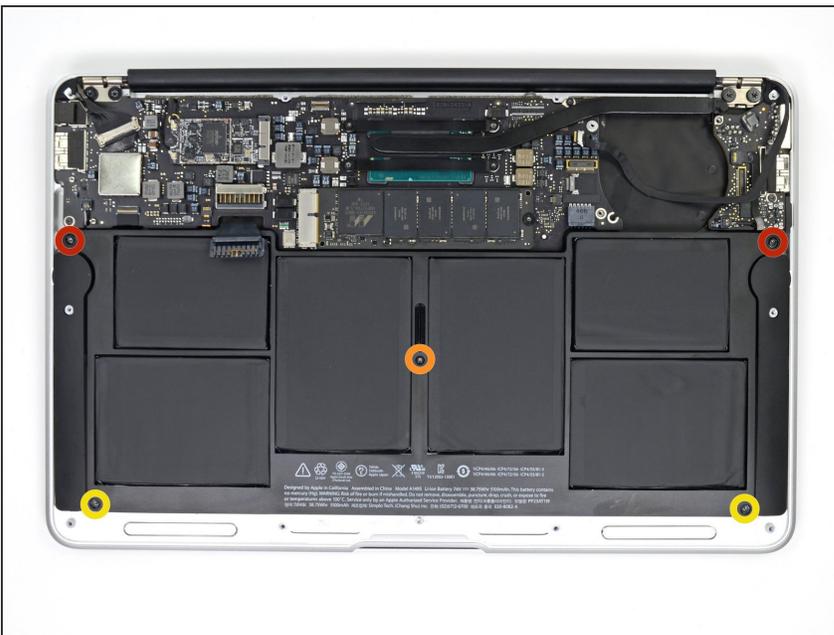
- Remove the following three screws securing the fan to the upper case:
  - Two 5.5 mm T5 Torx screws
  - One 4.6 mm T5 Torx screw
  - ⓘ In some models this is a 3.6 mm T5 Torx screw.

## Step 10



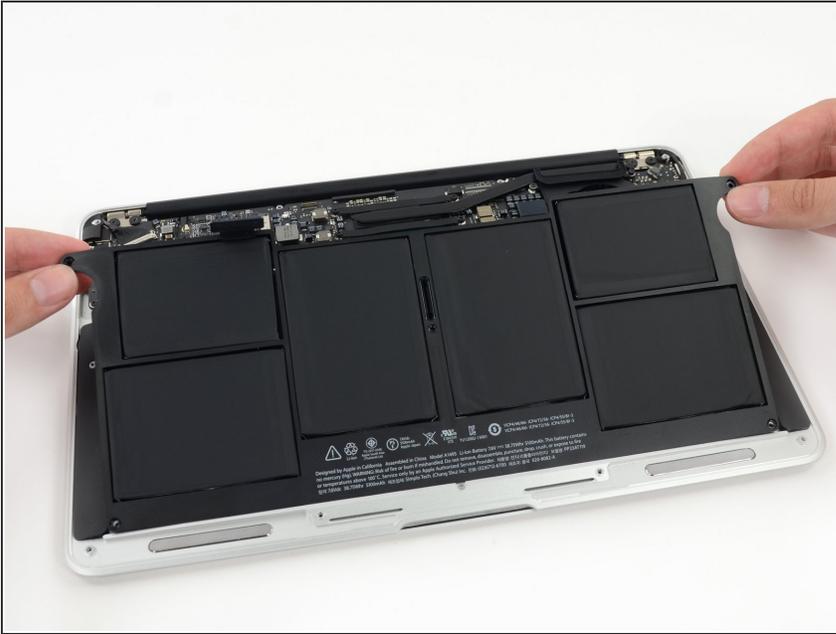
- Lift, but **do not** remove the fan out of its recess in the upper case.
- Carefully pull the fan ribbon cable out of its socket as you remove the fan from the Air.

## Step 11 — Battery



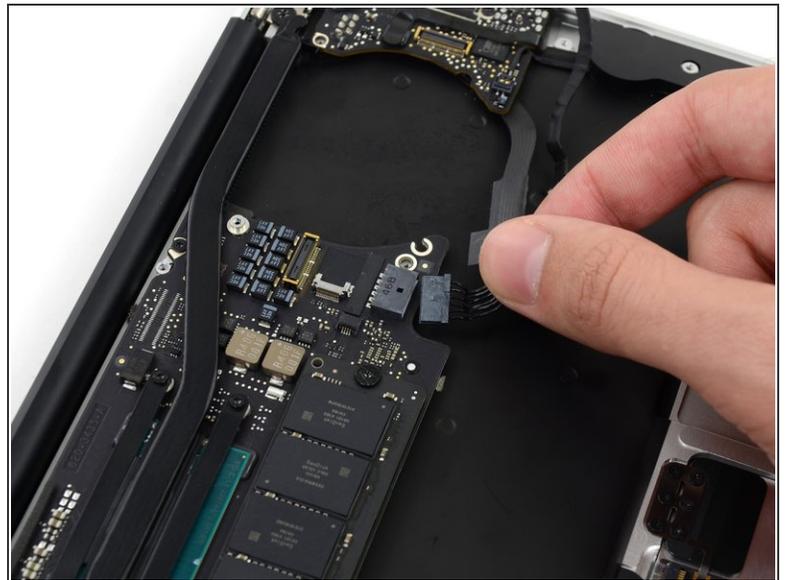
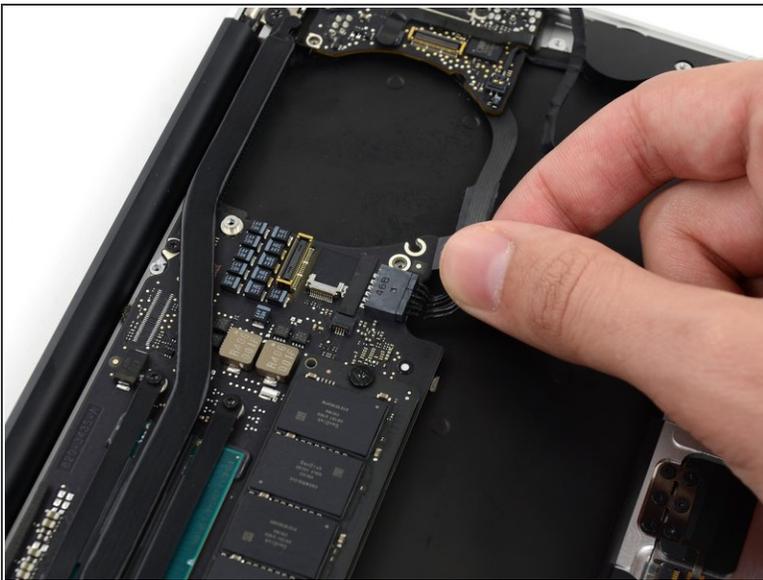
- Remove the following five screws securing the battery to the upper case:
  - Two 5.2 mm T5 Torx screws
  - One 6 mm T5 Torx screw
  - Two 2.6 mm T5 Torx screws

## Step 12



- ⚠ When handling the battery, avoid squeezing or touching the six exposed lithium polymer cells.
- Lift the battery from its edge nearest the logic board and remove it from the upper case.

## Step 13 — I/O Board



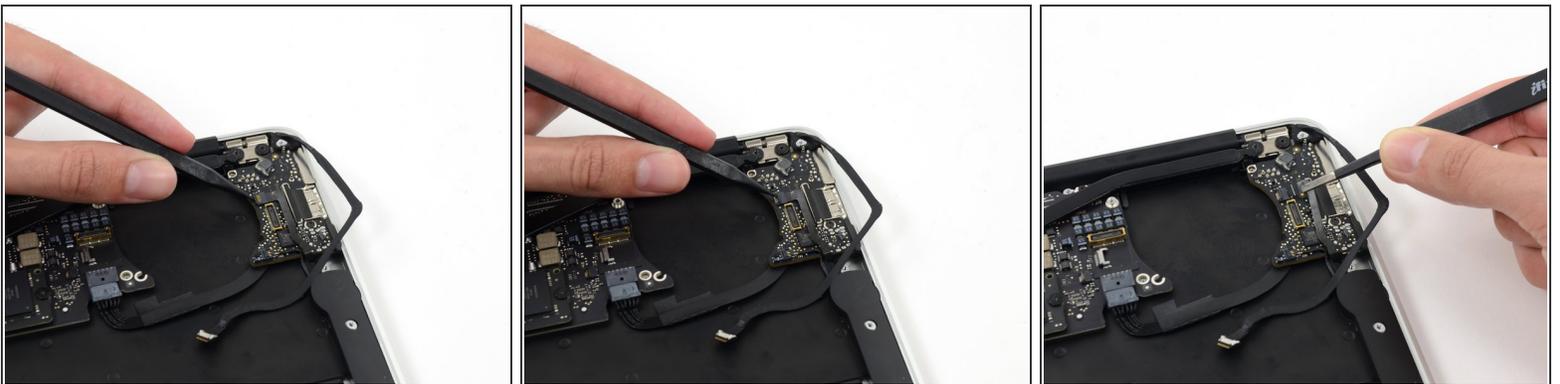
- Disconnect the I/O board power cable from the logic board by pulling the cable out of its socket on the logic board.
- ⓘ Pull the cable parallel to the face of the logic board toward the front edge of the Air.

## Step 14



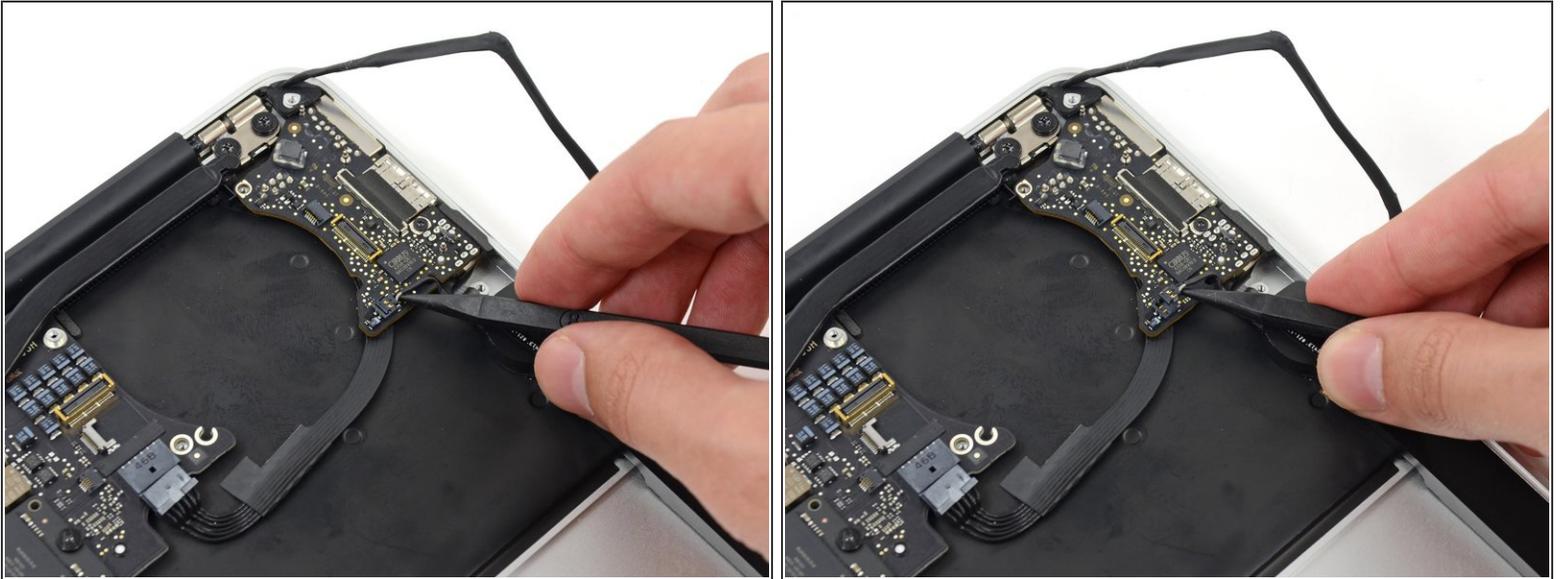
- ⓘ If necessary, use tweezers to remove any tape covering the microphone cable ZIF connector.

## Step 15



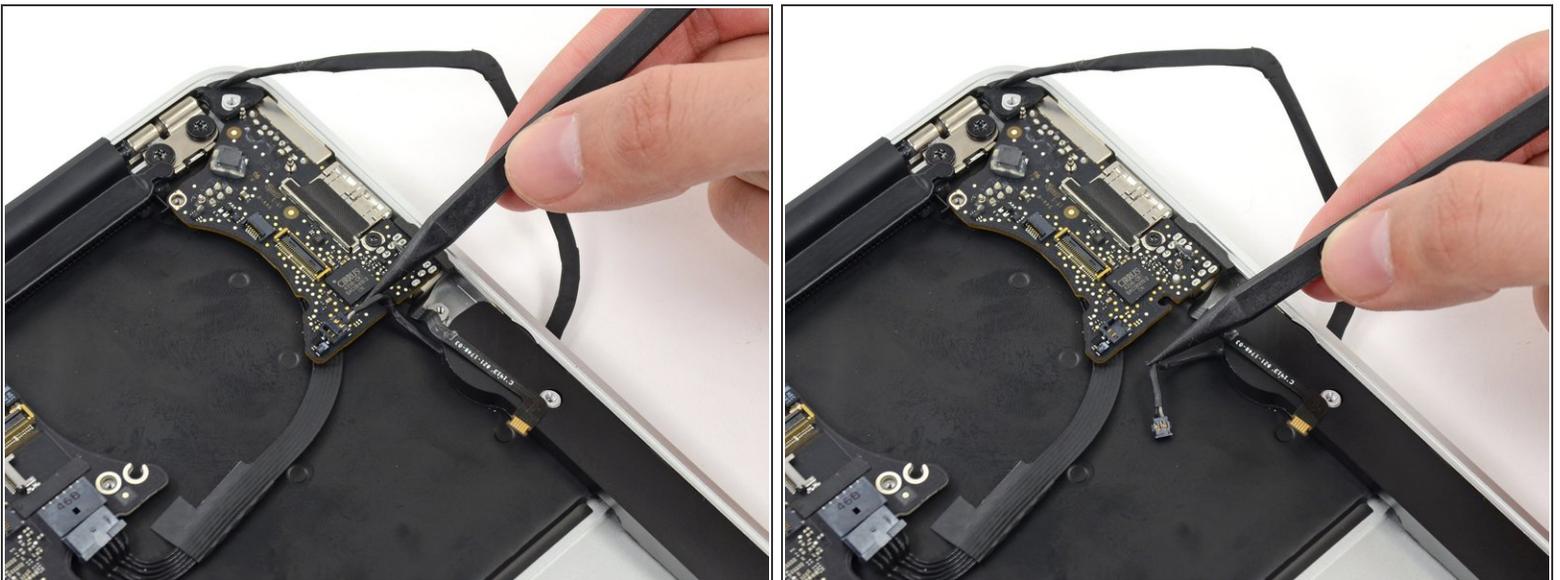
- Use the tip of a spudger to carefully flip up the retaining flap on the microphone cable ZIF socket.
- ⚠ Be sure you are prying up on the retaining flap, **not** the socket itself.
- Pull the microphone ribbon cable straight out of its socket.

## Step 16



- Use the tip of a spudger to pry under the speaker cable near the connector to lift the connector straight up out of its socket.

## Step 17



- De-route the cable from its notch in the I/O board.

## Step 18



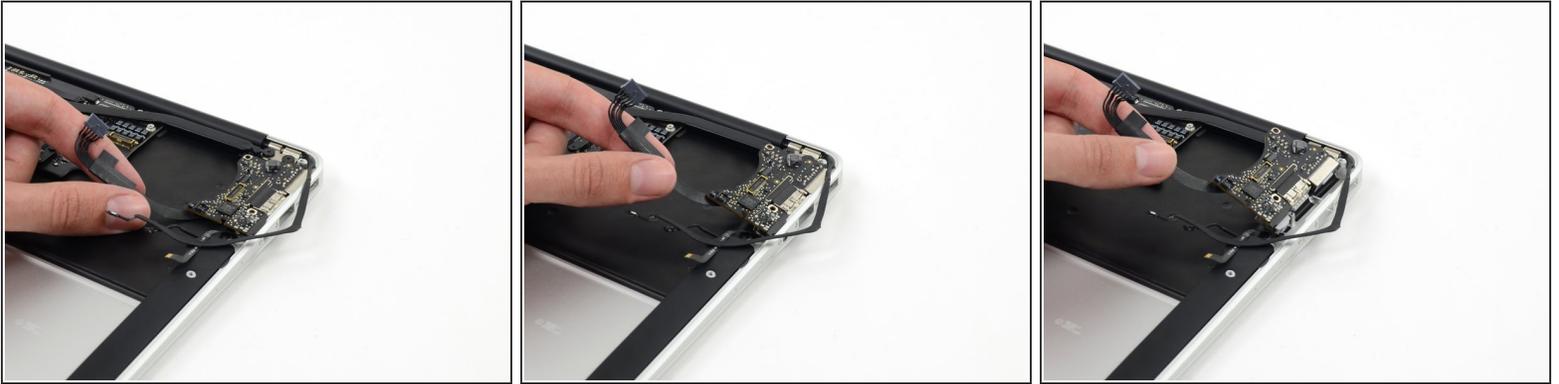
- Remove the small rubber gasket from the corner of the upper case nearest the I/O board.

## Step 19



- Remove the single 3.6 mm T5 Torx screw securing the I/O board to the upper case.
- In some models this is a 3.1 mm T5 Torx screw.

## Step 20



- Carefully lift the I/O board by its power cable and pull it away from the edge of the case.

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