



# MacBook Air 13" Mid 2012 I/O Board Replacement

Replace the I/O board on your MacBook Air 13" Mid 2012. The I/O board houses the MagSafe DC-in port, a USB socket, and the headphone jack.

Written By: Andrew Optimus Goldheart



## INTRODUCTION

Use this guide to replace your Air's I/O board which houses the MagSafe DC-in port, a USB socket, and the headphone jack.



### TOOLS:

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



### PARTS:

- [MacBook Air 13" \(Mid 2012\) I/O Board](#) (1)

## Step 1 — Lower Case



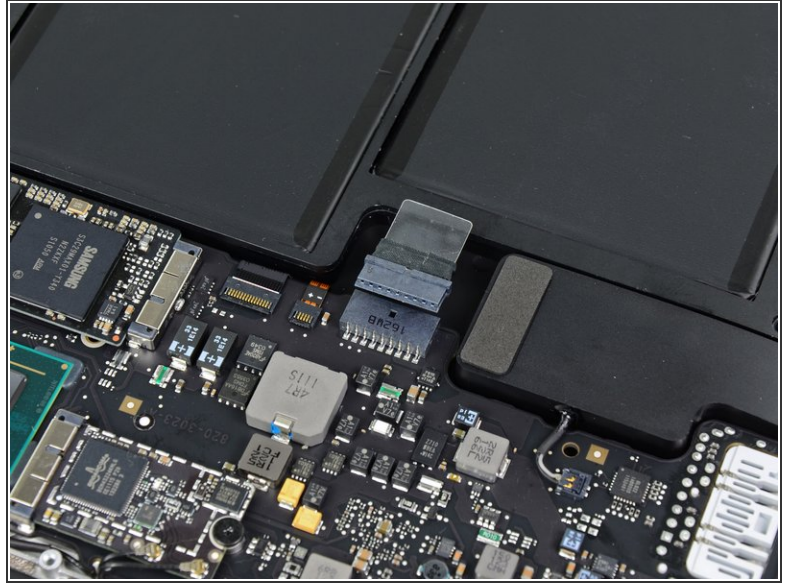
- **i** Before proceeding, power down your MacBook. Close the display and lay it on a soft surface, top-side down.
- Use a [P5 Pentalobe](#) driver to remove ten screws securing the lower case, of the following lengths:
  - Two 9 mm screws
  - Eight 2.6 mm screws




## Step 2



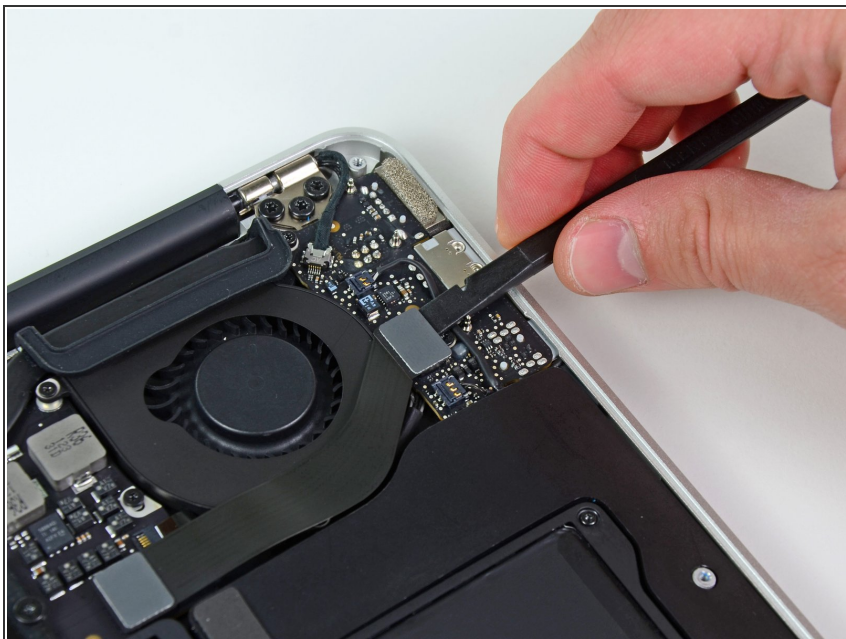
- Wedge your fingers between the display and the lower case and pull upward to pop the lower case off the Air.
- Remove the lower case and set it aside.

## Step 3 — Battery Connector



-  As a precaution against accidental discharge or shock, disconnect the battery connector from the logic board.
-  Grab the clear plastic pull tab attached to the battery connector and pull it toward the front edge of the Air to disconnect the battery from the logic board.
-  Be sure to pull the connector horizontally toward the battery, and not straight up from the Air, or you may damage the socket on the logic board.

## Step 4 — I/O Board Cable



- Use the flat end of a spudger to pry the I/O board cable connector upward out of its socket on the I/O board.


## Step 5



- Carefully peel the I/O board cable from the top of the fan.

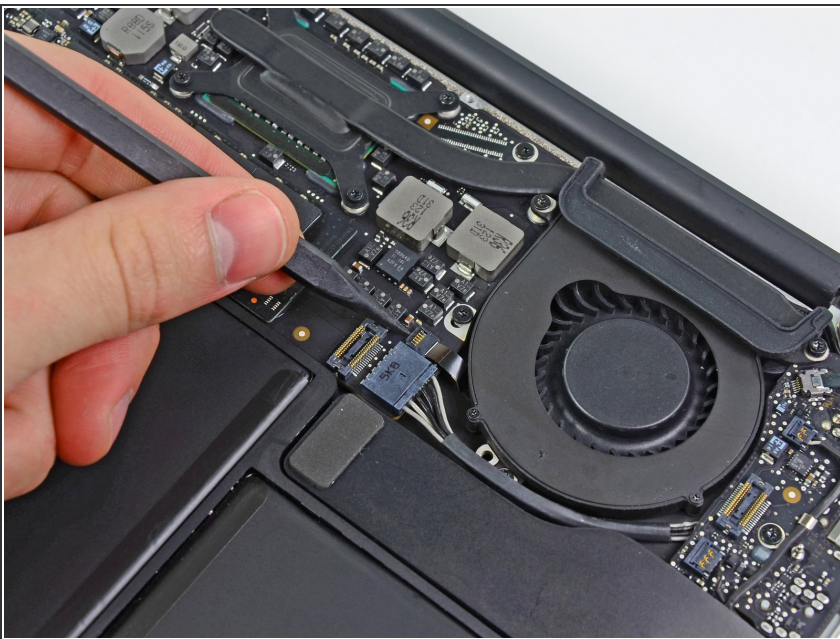
## Step 6




 The following connector has an especially deep socket. Use care when disconnecting it.

- While gently pulling the I/O board cable upward near its connection to the logic board, use the tip of a spudger to pry upward on alternating sides of the connector to help "walk" it out of its socket.
- Remove the I/O board cable.

## Step 7 — Fan



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

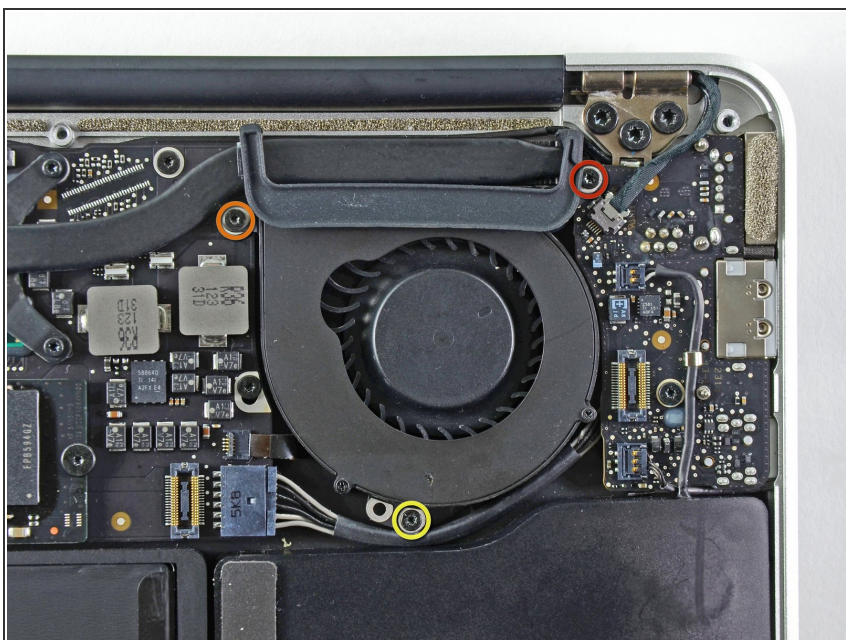
 Be sure you are prying up on the hinged retaining flap, **not** the socket itself.

## Step 8



- Peel the rubber gasket off the adhesive on the top of the fan.

## Step 9



- Remove the following three screws securing the fan to the upper case:
  - One 3.6 mm T5 Torx screw
  - One 2.7 mm T5 Torx screw
  - One 3.6 mm T5 Torx screw with a short head

## Step 10



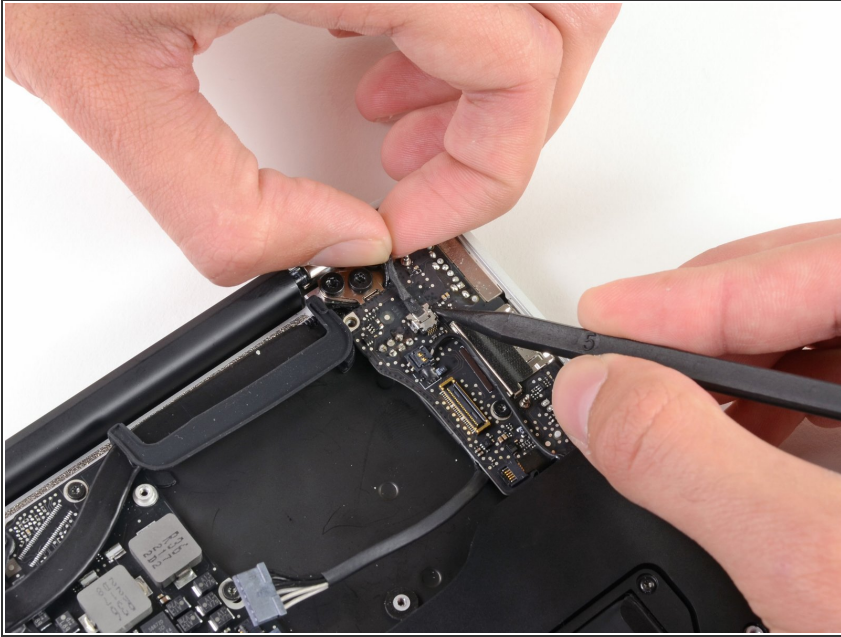
- Lift the fan out of the upper case and carefully pull the fan ribbon cable out of its socket as you remove it from the Air.

## Step 11 — I/O Board




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

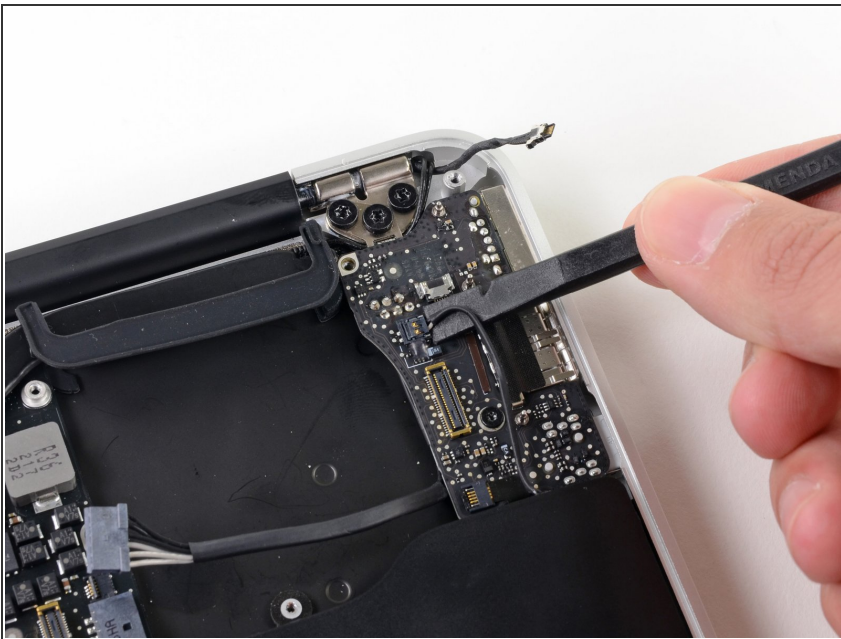
## Step 12




- Pull the camera cable parallel to the face of the I/O board toward the hinge of the Air to disconnect it from its socket, using the tip of a spudger to help push the connector out of its socket.

 Do not lift upward on this cable as you disconnect it, as its socket may break off the logic board.

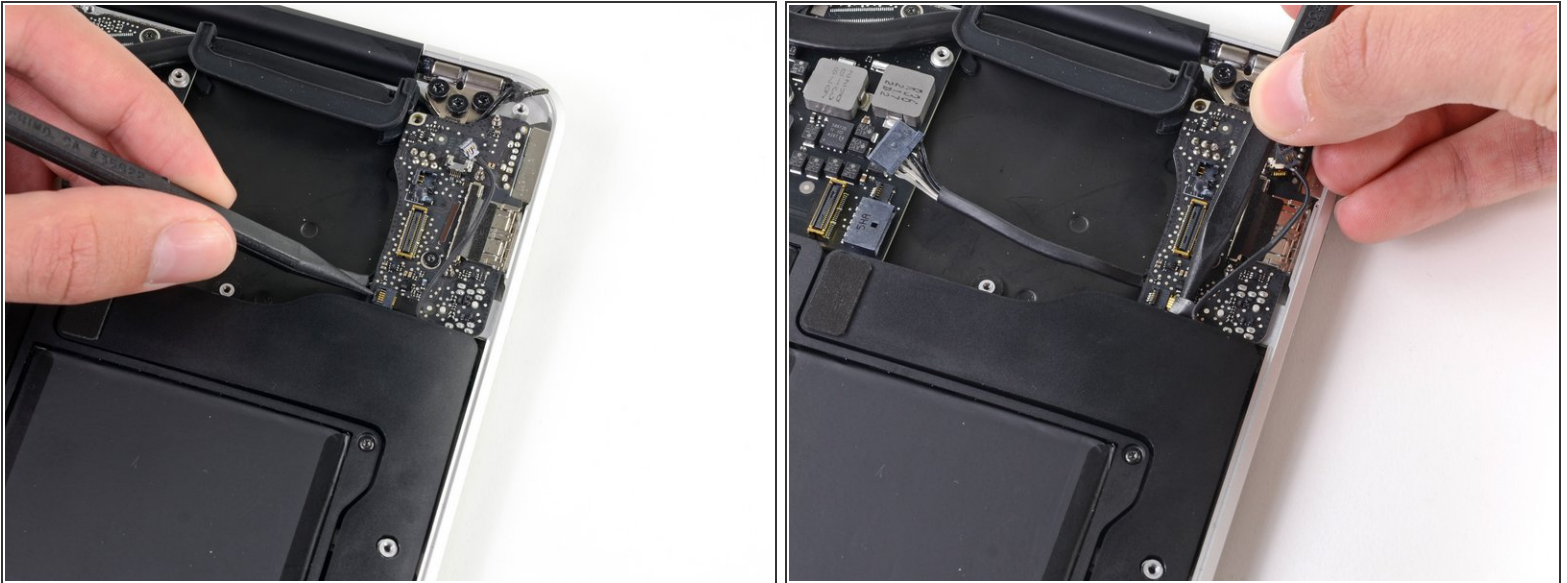
## Step 13



- 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.

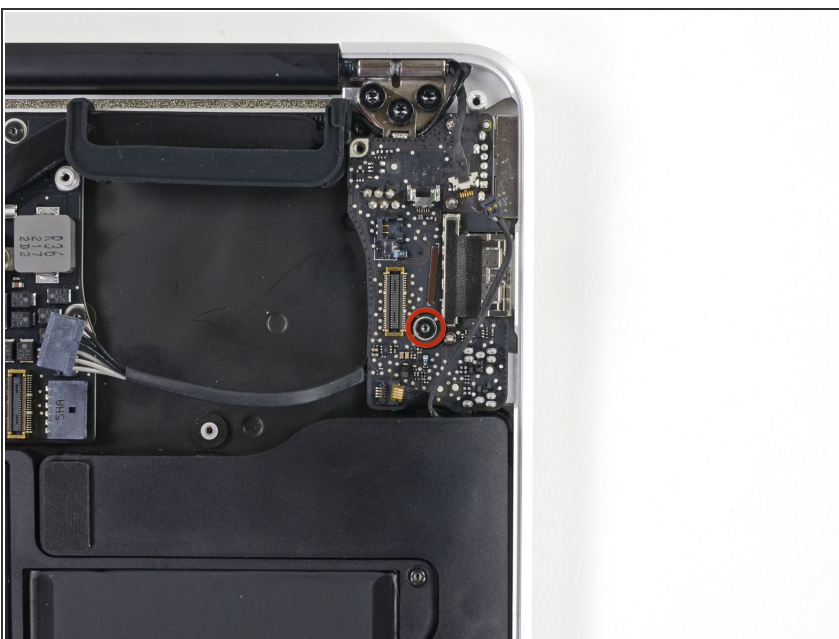
 Pry up from beneath the wires.

## Step 14



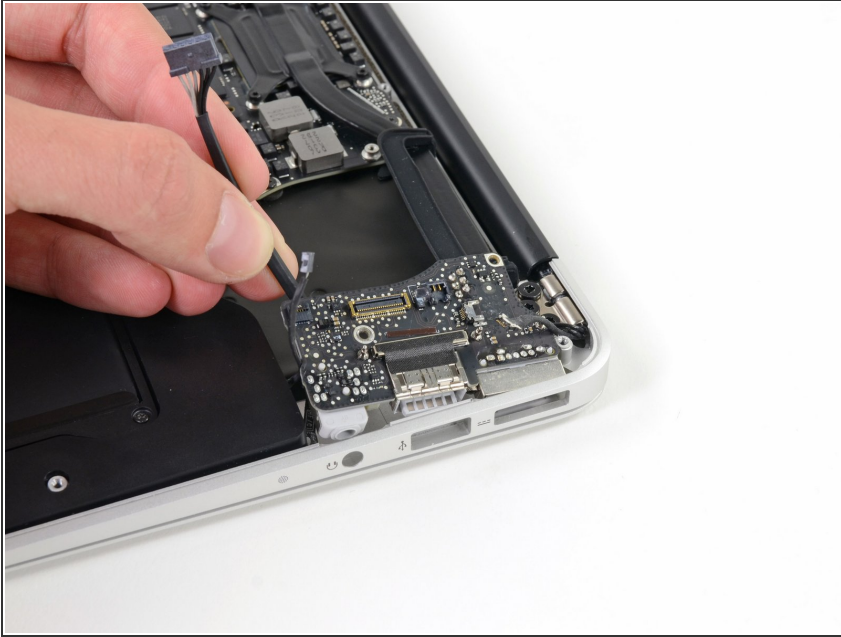
- Use the tip of a spudger to flip up the retaining flap securing the microphone ribbon cable to the I/O board.
- Use the tip of a spudger to remove the volume button ribbon cable from its ZIF connector on the I/O board.

## Step 15



- Remove the single 4.0 mm T5 Torx screw securing the I/O board to the upper case.

## Step 16



- Carefully lift the I/O board from its edge nearest the logic board and remove it from the upper case.

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