



# MacBook Air 13" Mid 2011 Fan Replacement

Replace a dead fan on your MacBook Air 13" Mid 2011.

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# INTRODUCTION

Use this guide to replace a dead or noisy fan.

## TOOLS:

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

## PARTS:

- [MacBook Air 13" \(Late 2010 to 2017\) Fan \(1\)](#)

## Step 1 — Lower Case



**i** Before proceeding, power down your MacBook. Close the display and lay it on a soft surface, top-side down.

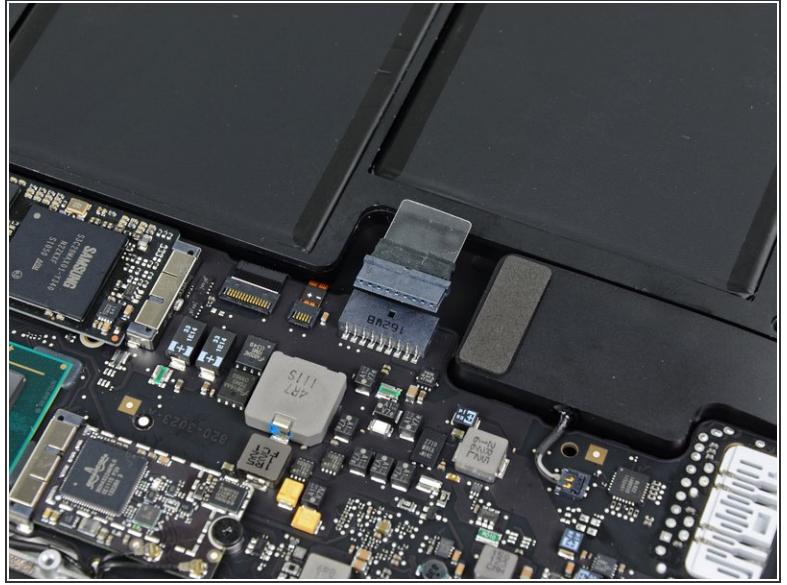
- Use a [P5 Pentalobe](#) driver to remove ten screws securing the lower case, of the following lengths:
  - Two 9 mm screws
  - Eight 2.6 mm screws

## 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.

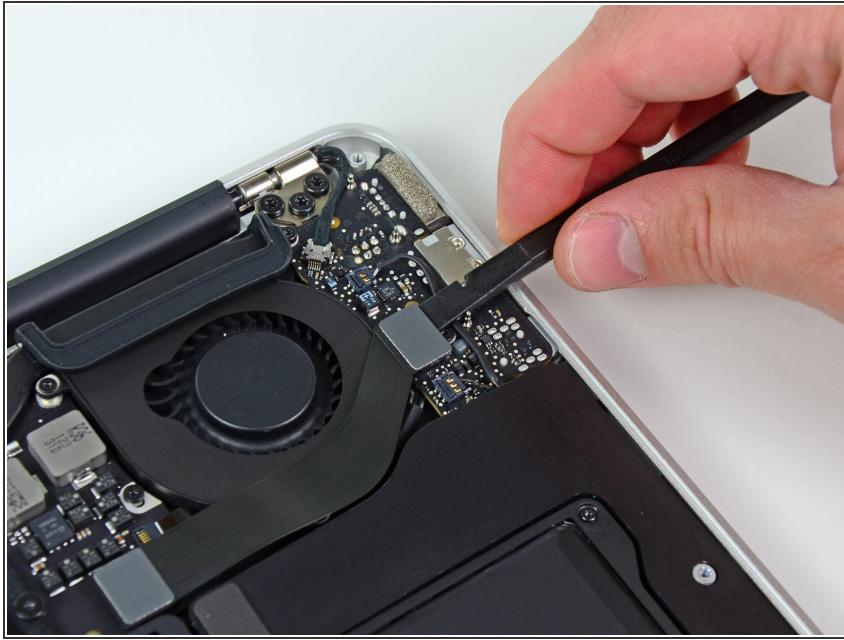
## Step 3 — Battery Connector



- 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.

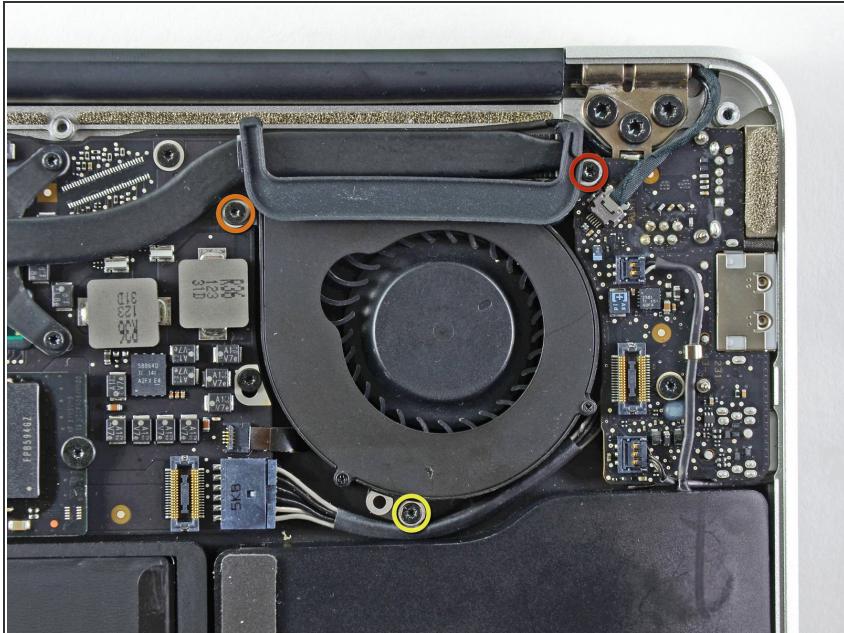
⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.

## Step 8



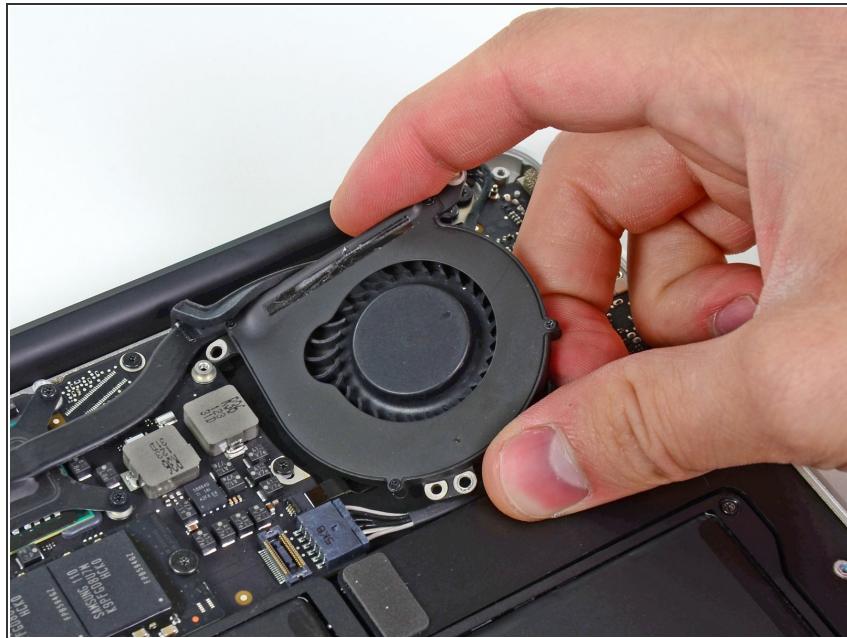
- Peel the rubber gasket off the adhesive on the top of the fan.

## 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.