

# MacBook Air 11" Mid 2013 Heat Sink Replacement

Replace the heat sink in your MacBook Air 11" Mid 2013.

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# INTRODUCTION

Use this guide to replace a damaged heat sink or its thermal paste.

TOOLS:	PARTS:
<ul> <li>Arctic Silver ArctiClean (1)</li> </ul>	<ul> <li>MacBook Air 11" (Mid 2013-Early 2015) Heat Sink (1)</li> </ul>
<ul> <li>Arctic Silver Thermal Paste (1)</li> </ul>	
<ul> <li>P5 Pentalobe Screwdriver Retina MacBook</li> <li>Pro and Air (1)</li> </ul>	
<ul> <li>Spudger (1)</li> </ul>	
<ul> <li>T5 Torx Screwdriver (1)</li> </ul>	

#### Step 1 — Lower Case



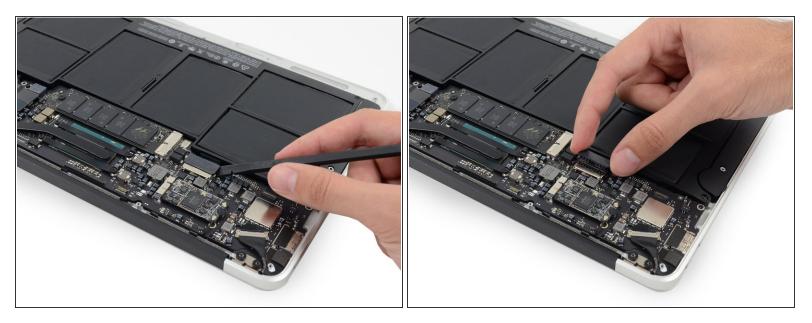
- Shut down and close your computer.
   Lay it on a soft surface top-side down.
  - Remove the following ten screws:
    - Two 8 mm 5-point Pentalobe screws
    - Eight 2.5 mm 5-point Pentalobe screws
- *i* The special screwdriver needed to remove the 5-point Pentalobe screws can be found <u>here</u>.

#### Step 2



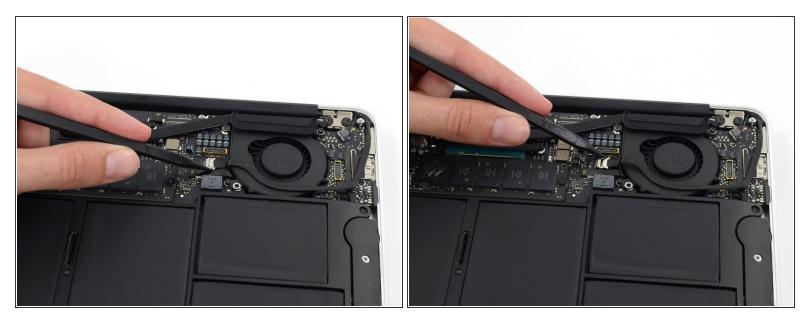
 Wedge your fingers between the display and the lower case and pull upward to pop the lower case off the Air.

### Step 3 — Battery Connector



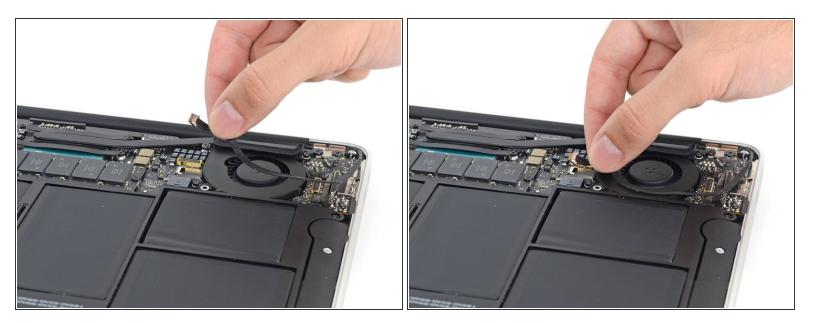
- In this step you will disconnect the battery to help avoid shorting out any components during service.
- Use the flat end of a spudger to pry both short sides of the battery connector upward to disconnect it from its socket on the logic board.
- Bend the battery cable slightly away from the logic board so the connector will not accidentally bend back and make contact with its socket.

# Step 4 — Fan



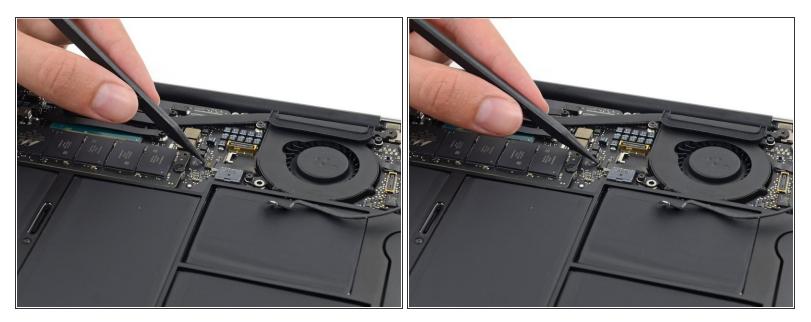
- Use the tip of a spudger to carefully push on each side of the iSight camera cable connector to loosen it out of its socket on the logic board.
- (i) We recommend you gently "walk" the connector out of its socket.

#### Step 5



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

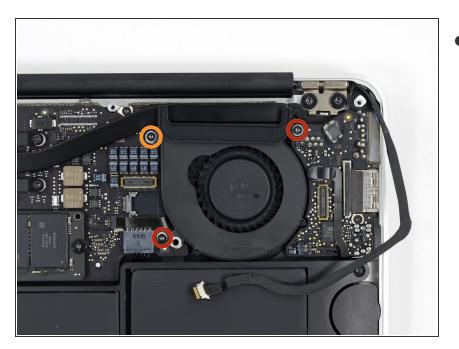
# Step 6



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

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

# Step 7



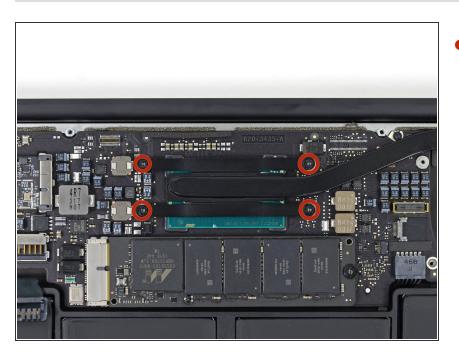
- Remove the following three screws securing the fan to the upper case:
  - Two 5.5 mm T5 Torx screws
  - One 4.6 mm T5 Torx screw
    - (i) In some models this is a 3.6 mm T5 Torx screw.

# Step 8



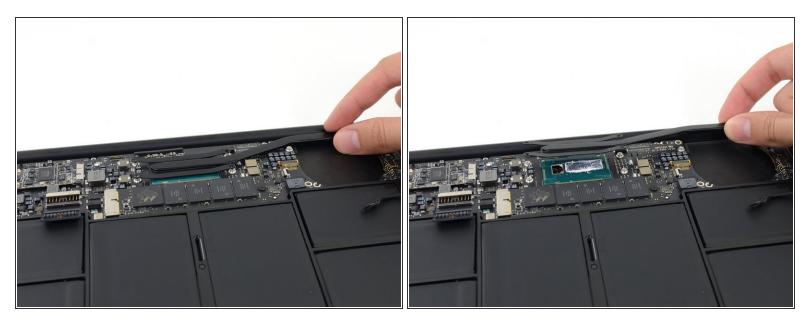
- Lift, but **do not** remove the fan out of its recess in the upper case.
- Carefully pull the fan ribbon cable out of its socket as you remove the fan from the Air.

#### Step 9 — Heat Sink



Remove the four 2.5 mm T5 Torx screws securing the heat sink to the logic board.

# Step 10



- (i) If the heat sink seems to be stuck to the logic board after removing all four screws, use a spudger to carefully separate the heat sink from the face of the CPU.
  - Remove the heat sink from the logic board.
- When reinstalling the heat sink, be sure to apply a new layer of <u>thermal paste</u>. If you have never applied thermal paste before, we have a <u>guide</u> that makes it easy.

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