



# MacBook Pro 15" Core 2 Duo Models A1226 and A1260

## Heat Sink Replacement

The heat sink helps keep the processor cool and...

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# INTRODUCTION

The heat sink helps keep the processor cool and happy.

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## TOOLS:

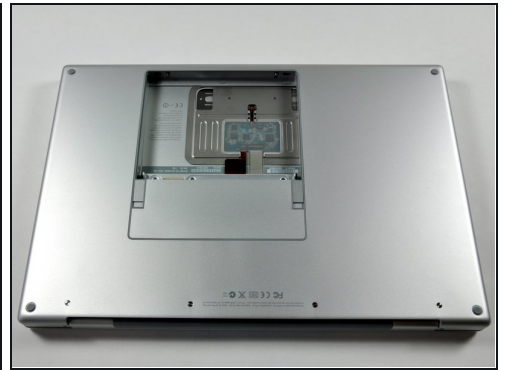
Arctic Silver ArctiClean (1)  
Arctic Silver Thermal Paste (1)  
Phillips #00 Screwdriver (1)  
Spudger (1)  
T6 Torx Screwdriver (1)

## PARTS:

MacBook Pro 15" (Model A1260) Heat Sink (1)  
MacBook Pro 15" (Model A1226) Heat Sink (1)

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## Step 1 — Battery



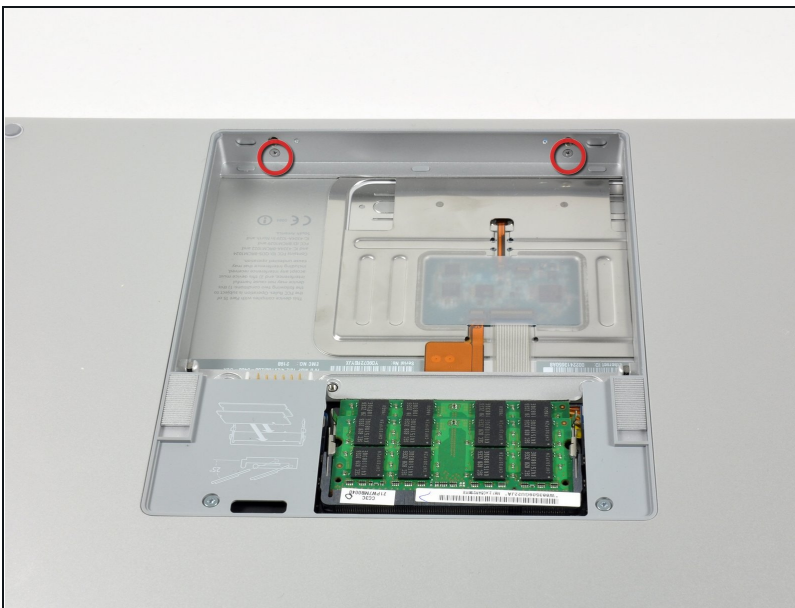
- Use your fingers to push both battery release tabs away from the battery, and lift the battery out of the computer.

## Step 2 — RAM Shield



- Remove the three identical 2mm Phillips screws from the memory door.
- Lift the memory door up enough to grip it and slide it toward you, pulling it away from the casing.

## Step 3 — Upper Case



- Remove the two 2.8 mm Phillips screws in the battery compartment near the latch.

## Step 4



- Remove the following 6 screws:
  - Two 10 mm T6 Torx screws on either side of the RAM slot.
  - Four 14.5 mm Phillips screws along the hinge.

## Step 5



- Remove the four 3.2 mm PH00 Phillips screws on the port side of the computer.

## Step 6



- Rotate the computer 90 degrees and remove the two 3.2 mm Phillips screws from the rear of the computer.

## Step 7



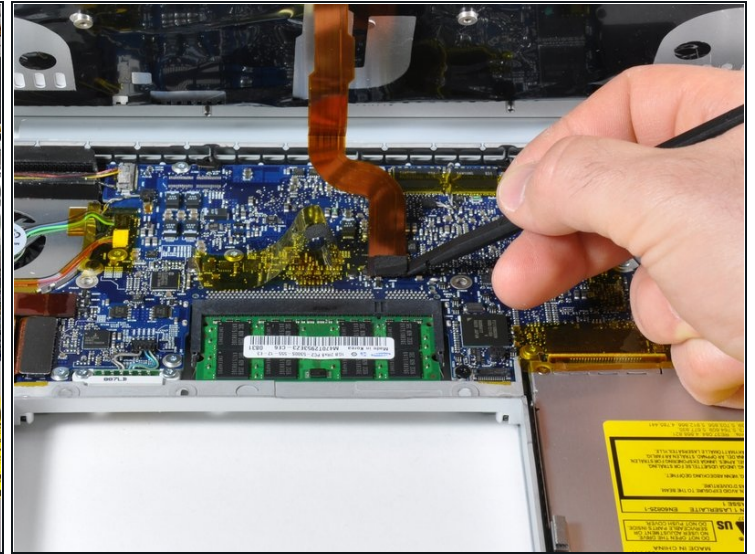
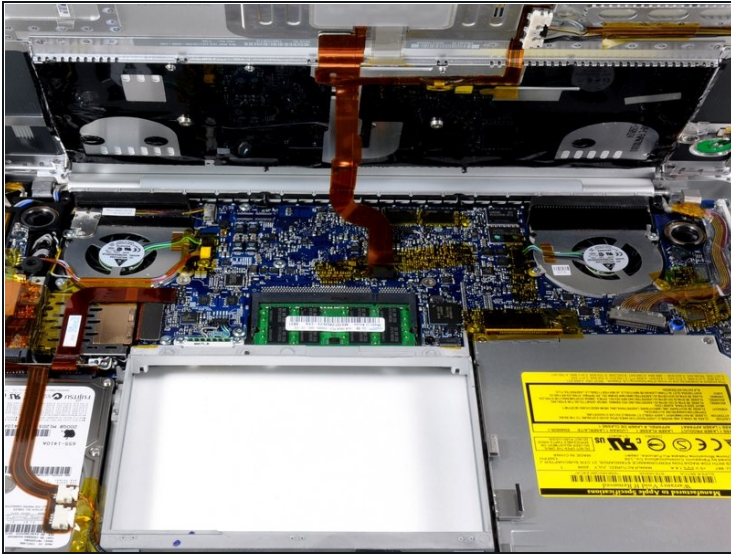
- Rotate the computer 90 degrees again and remove the four 3.2 mm Phillips screws from the side of the computer.

## Step 8



- ❗ Do not yank the upper case off quickly. The case is attached to the logic board via a ribbon cable.
- Lift up at the rear of the case and work your fingers along the sides, freeing the case as you go. Once you have freed the sides, you may need to rock the case up and down to free the front of the upper case.
- There are four plastic clips above the DVD slot, and another above and to the left of the IR sensor. These clips can be very difficult to disengage without prying. They can also be difficult to re-engage during reassembly.
- ★ **Reassembly Tip:** Press down firmly on the tip of the top case above the location of each clip until you hear a *snap* to reseat them in their slots.
- ★ **Reassembly Tip:** The two center DVD clips will rarely snap back into place properly without help, and downward pressure will instead simply deform the frame around the DVD slot. Support the frame by inserting a plastic spudger into the DVD slot directly under the clip location until it is snug, then press down until you hear the *snap*.

## Step 9



- Disconnect the trackpad and keyboard ribbon cable from the logic board, removing tape as necessary.
- ⓘ Note: It is possible to replace the hard drive without disconnecting the keyboard from the chassis, but it will need to be held upright to keep it out of the way, while still allowing you both hands to work on the drive removal.
- ⓘ Be careful when removing the keyboard-trackpad ribbon cable to ensure that the rear of the upper case is disengaged from the area near the hinge. It is easy to accidentally bend the screw receivers on either side of the keyboard.
- Remove the upper case.

## Step 10 — Optical Drive



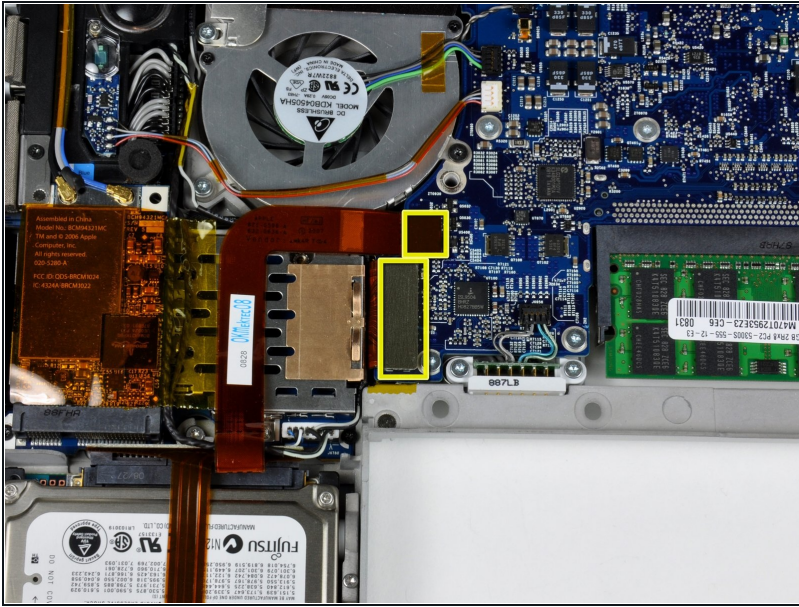
- Use the flat end of a spudger to disconnect the orange SuperDrive ribbon cable from the logic board, removing tape as necessary.

## Step 11



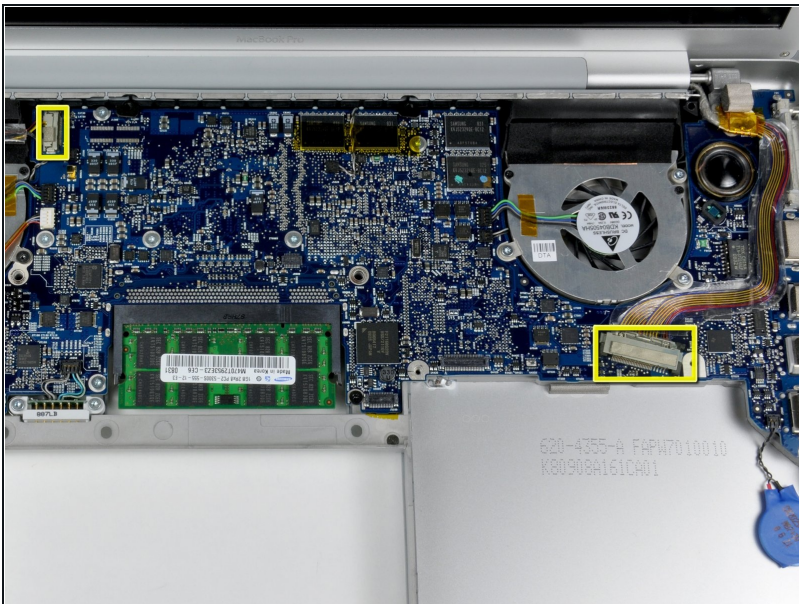
- Remove the following 4 screws:
  - Two 3.3 mm silver Phillips screws on either side of the SuperDrive.
  - One 4.7 mm silver T6 Torx screw from the top left corner of the drive.
  - One 6.2 mm black Phillips screw at the top right corner of the drive.
- Lift the optical drive up and out of the computer.

## Step 12 — Logic Board



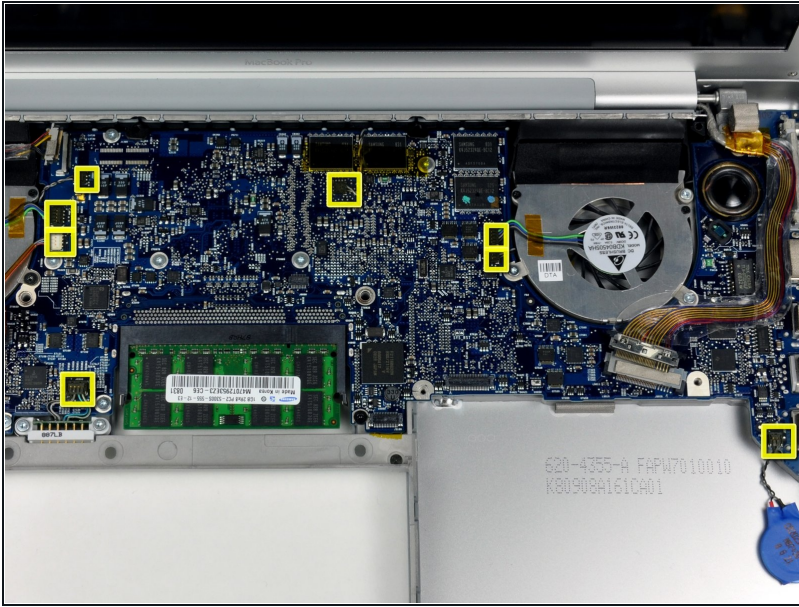
- Disconnect the hard drive and ExpressCard connectors from the left side of the logic board.

## Step 13



- Disconnect the iSight and display data cables from the logic board by sliding them straight back out of their connectors, removing tape as necessary.

## Step 14



- Disconnect the eight indicated connectors by placing a spudger beneath the wired side of each one and lifting up.

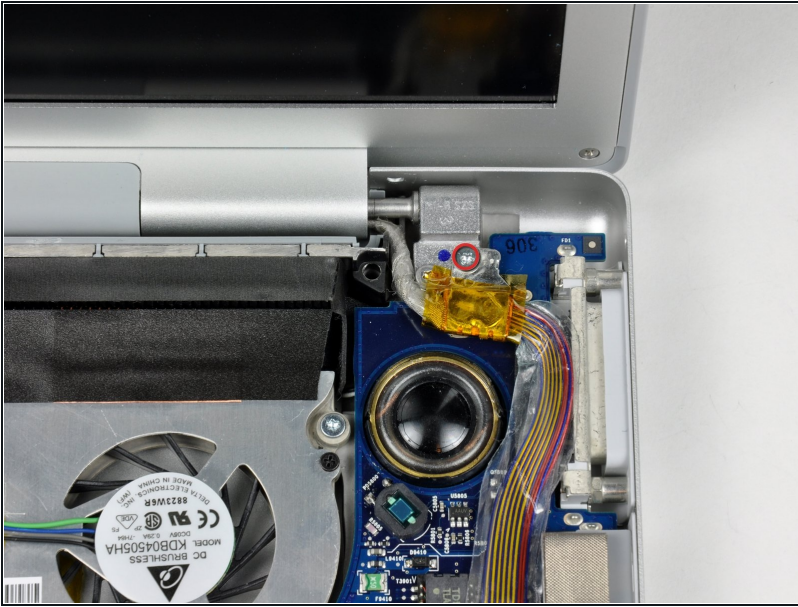
⚠ Use care when disconnecting some of the smaller connectors. A forceful prod with the spudger may accidentally break them off the logic board.

## Step 15



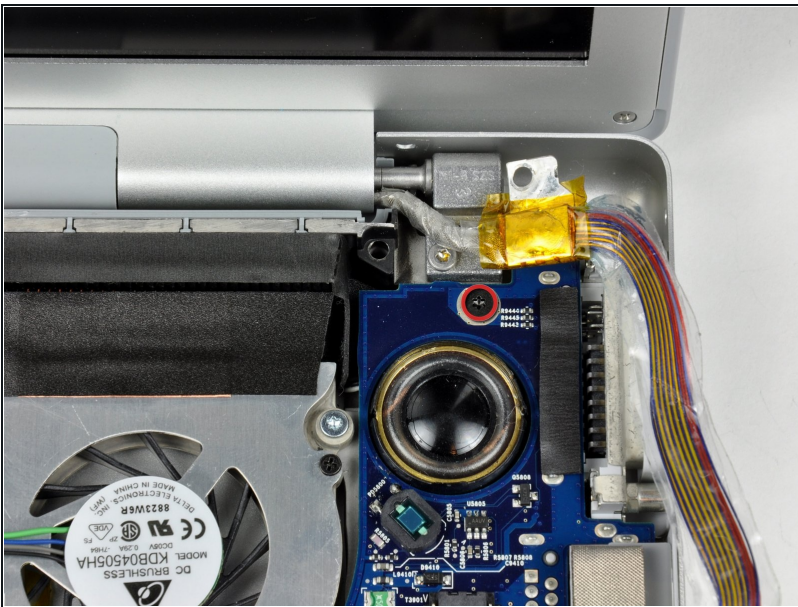
- Remove the foam bumper from the top of the right hinge of the display.

## Step 16



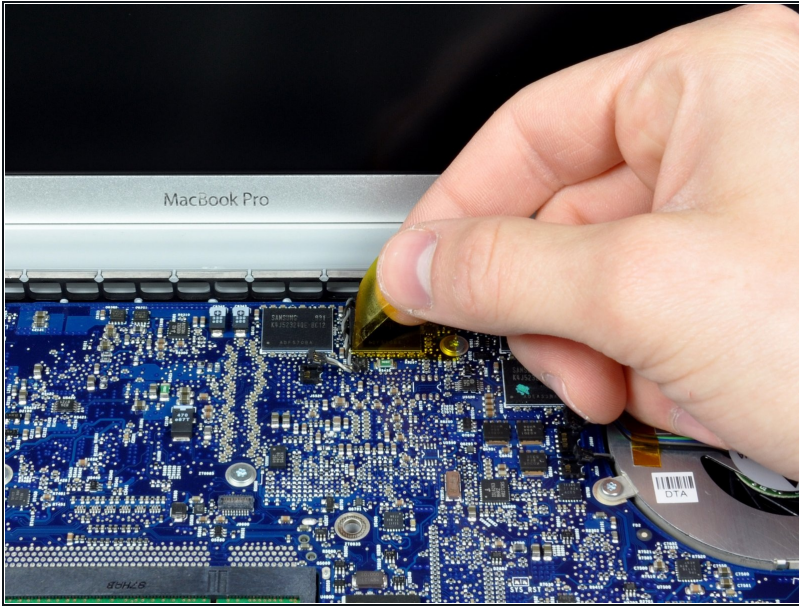
- Remove the silver 9.5 mm T6 Torx screw securing the ground loop in the display data cable to the casing.

## Step 17



- Remove the single black 6 mm T6 Torx screw securing the upper portion of the logic board to the lower case.

## Step 18



- Peel up the orange Kapton tape securing the right thermal sensor cable to the logic board.

## Step 19



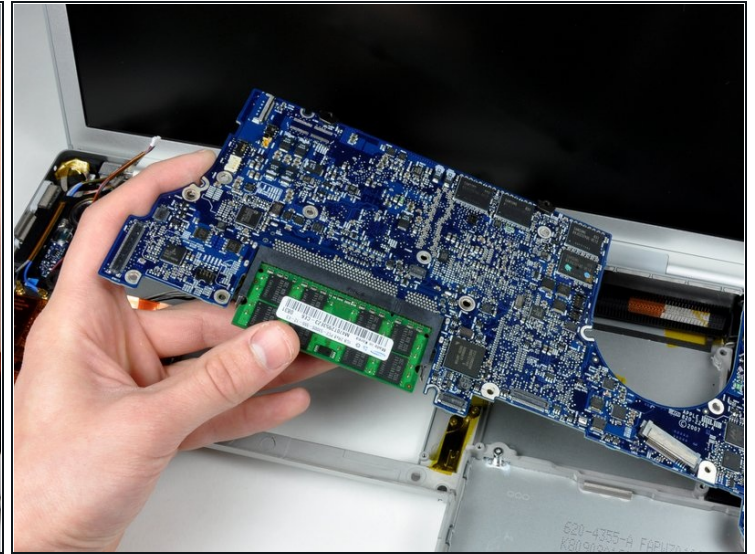
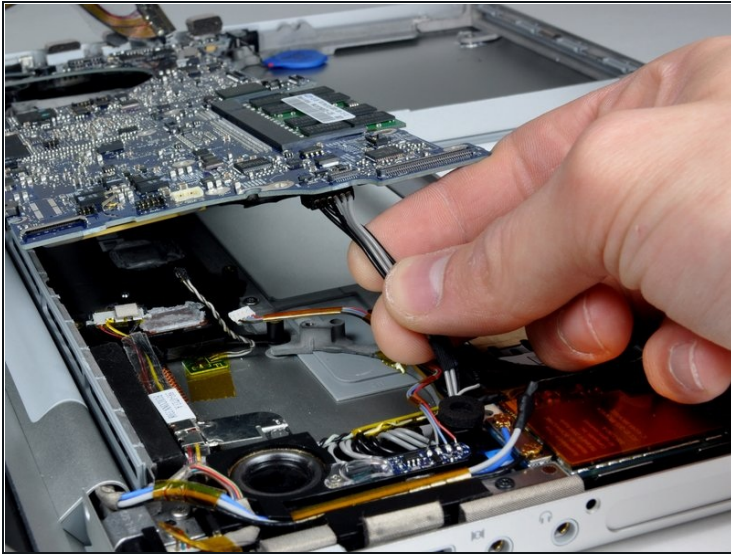
- Remove the following 15 screws:
  - One 4.4 mm black Phillips screw to the right of the ram slot.
  - Eight 4.7 mm silver T6 Torx screws securing the logic board to the lower case.
  - ⓘ If you leave the five uppermost orange screws in place, the heatsink/pipes come out effortlessly, still mounted onto the main board. That way its thermal connection is retained, and you won't need to reapply thermal paste as instructed two steps below.
  - One 6.2 mm black T6 Torx screw on the right side of the left fan.
  - Five 9.4 mm silver T6 Torx screws securing the left and right fans.

## Step 20



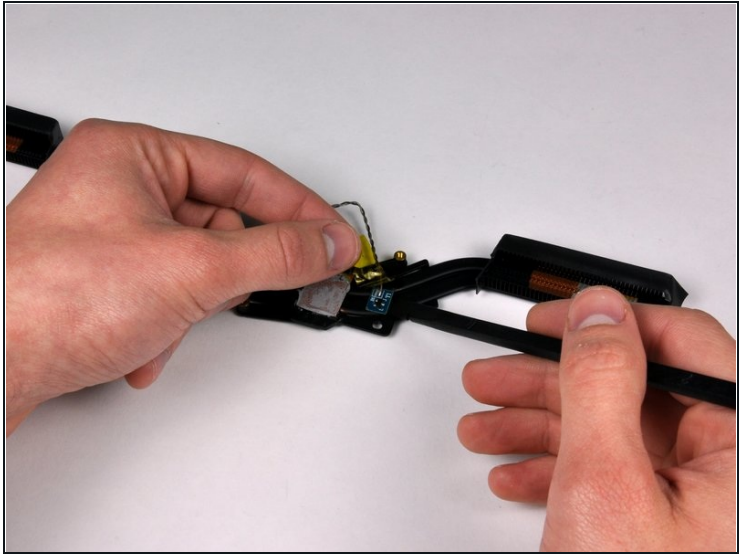
- Hold the logic board down with one hand and use your other hand to lift the left fan up from its housing. There is a piece of black tape securing the left fan to the heat sink. Carefully peel this tape up from the heat sink as you lift the left fan up.
- ① Place the left fan above the Airport card. It is not necessary to remove the fan from the computer entirely.
- Lift the right fan up and carefully peel up the tape securing the fan to the heat sink as you go.
- Remove the right fan from the computer.

## Step 21



- Lift up the left side of the logic board and disconnect the gray and black power cable from the bottom of the board.  
**⚠ Pull the power cable connector parallel to the face of the logic board.**
- Grasp the logic board at the left side and at the thin section, and rotate the logic board out of the lower case.
- ☑ If you detached the heatsink from the motherboard two steps above, you'll have to clean off and replace the old thermal compound from the chips on the back of the logic board. Use our [Applying Thermal Paste Guide](#) to prepare the processor and heat sink surfaces.

## Step 22 — Heat Sink



- Gently lift the heat sink out of the computer.
  - Peel back the orange Kapton tape covering the middle thermal sensor.
  - Use a spudger to pry the middle thermal sensor off the heat sink.
  - Heat sink remains.
- ① If you need to mount the heat sink back into the laptop, we have a [thermal paste guide](#) that makes replacing the thermal compound easy.

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