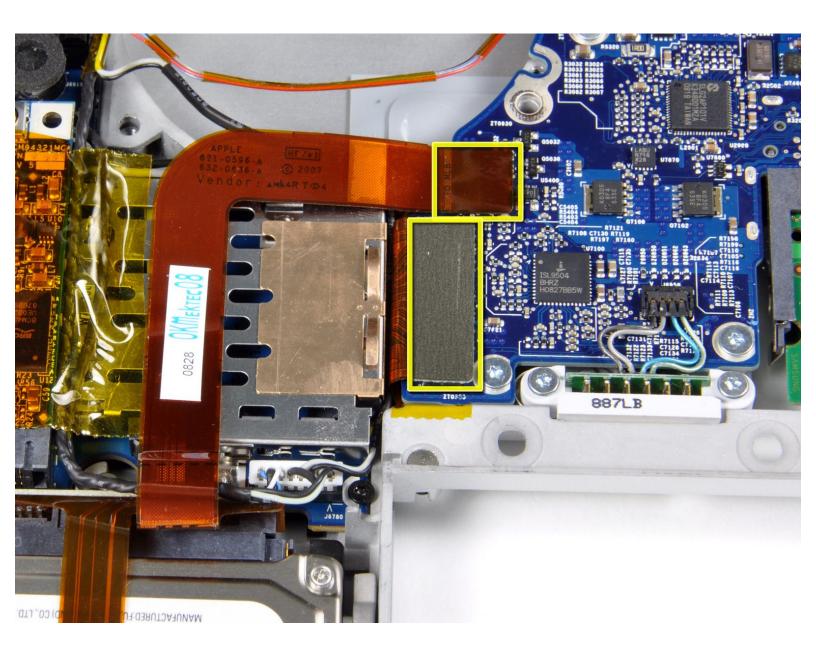


MacBook Pro 15" Core 2 Duo Models A1226 and A1260 ExpressCard Cage Replacement

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INTRODUCTION

You can again use ExpressCard accessories by replacing a faulty ExpressCard cage.



TOOLS:

- 4mm Nut Driver (1)
- Phillips #00 Screwdriver (1)
- Spudger (1)
- T6 Torx Screwdriver (1)



PARTS:

- MacBook Pro 15" (Model A1260)
 ExpressCard Cage (1)
- MacBook Pro 15" (Model A1226)
 ExpressCard Cage (1)

Step 1 — Battery







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

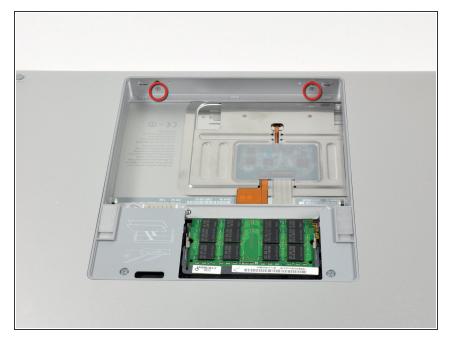
Step 2 — RAM Shield





- 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.



- 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.



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

Step 6



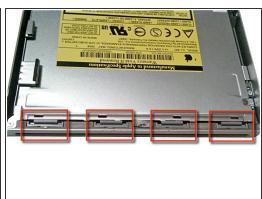
 Rotate the computer 90 degrees and remove the two 3.2 mm Phillips screws from the rear of the computer.



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

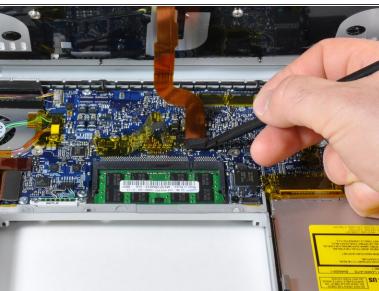






- (i) Do not yank the upper case off quickly. The case is attached to the logic board via a ribbon cable.
- Lift up at the rear of the case and work your fingers along the sides, freeing the case as you go.
 Once you have freed the sides, you may need to rock the case up and down to free the front of 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 reengage 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*.





- 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.
- i 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 — Left Fan



 Use a spudger to disconnect the iSight cable from the logic board by sliding the cable to the left and out of its connector.





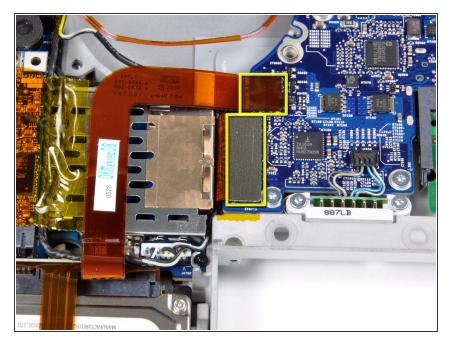
- Disconnect the left fan and left ambient light sensor cables by placing a spudger beneath each cable and lifting up.
 - (i) Pry up from beneath the wires.
- Peel up the left ambient light sensor cable from above the left fan, removing tape as necessary.



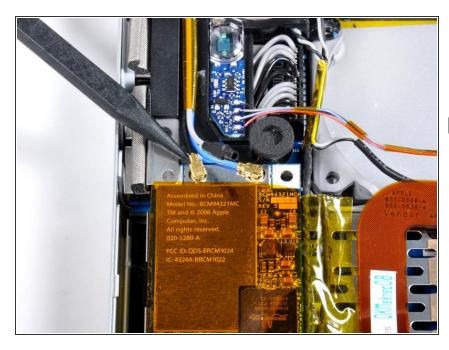


- Remove the following 3 screws:
 - One 6.2 mm black T6 Torx screw from the right side of the fan.
 - Two 9.4 mm silver T6 Torx screws from the left side of the fan.
- Lift the fan up; carefully peel up the tape that secures the fan to the heat sink as you go.

Step 13 — ExpressCard Cage



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



- Disconnect the two antenna cables attached to the Airport Extreme card.
- Apple was kind enough to include a label showing where each color antenna cable plugs in just make sure to look at this when reconnecting the antenna cables.



- Remove the single black 4mm T6 Torx screw located just above the Airport Extreme card.
- Remove the metal bracket that was securing the Airport Extreme card.

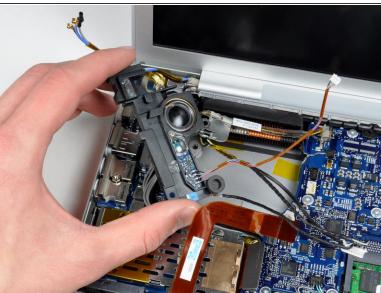






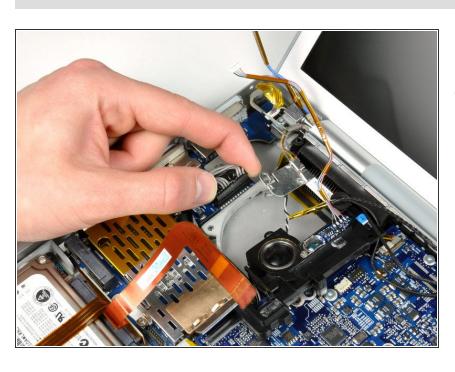
- Lift the Airport Extreme card up and slide it out of its connector.
- Deroute the Airport antenna cables from their channel in the left speaker.
- Peel up the orange hard drive cable from above the ExpressCard cage.



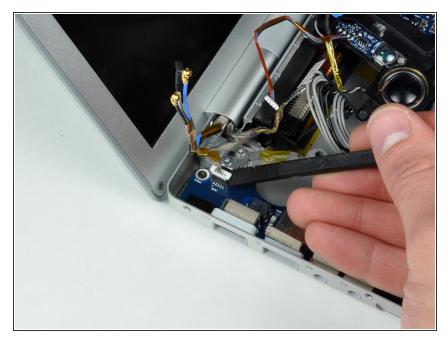


- Use a spudger to disconnect the speaker cable from the corner of the left I/O board.
- Lift the left speaker assembly out of its housing and place it in the area previously occupied by the left fan.

Step 18

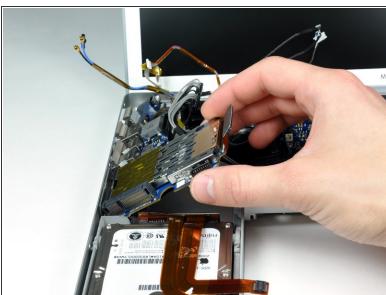


 Disconnect the large gray and black power cable from the left I/O board.

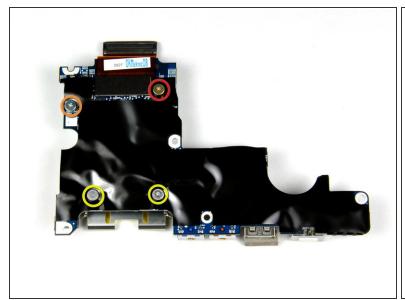


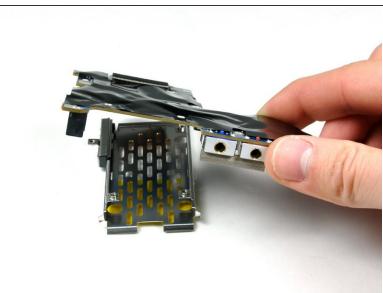
 Use a spudger to disconnect the inverter cable from the corner of the left I/O board.





- Remove the following 5 screws/standoffs:
 - Four black 4 mm T6 Torx screws securing the left I/O board to the lower case.
 - One 4 mm standoff located between the audio jacks.
- Lift up the right side of the left I/O board and slide it out of the computer.





- Remove the following four screws:
 - One 3.1 mm at upper right.
 - One 4.9 mm at upper left.
 - Two 2.2 mm along the bottom.
- Lift the left I/O board off the ExpressCard cage.

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