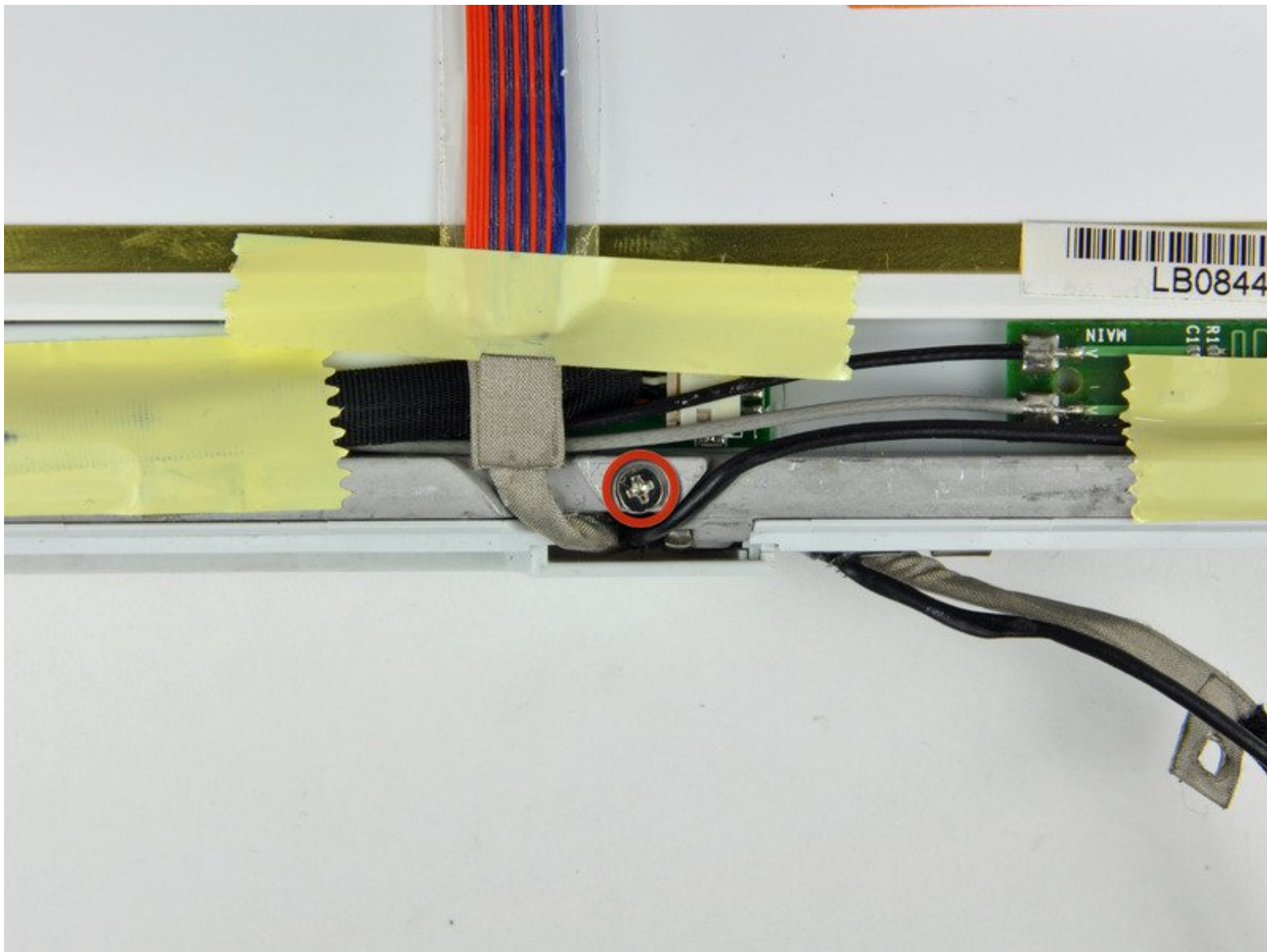




iBook G3 12" Clutch Cover Replacement

Written By: Ben Eisenman



INTRODUCTION

Use this guide to replace a damaged cosmetic clutch cover.



TOOLS:

- [1.5mm Hex Screwdriver](#) (1)
- [Coin](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Flathead 3/32" or 2.5 mm Screwdriver](#) (1)
- [Spudger](#) (1)
- [TR8 Torx Security Screwdriver](#) (1)



PARTS:

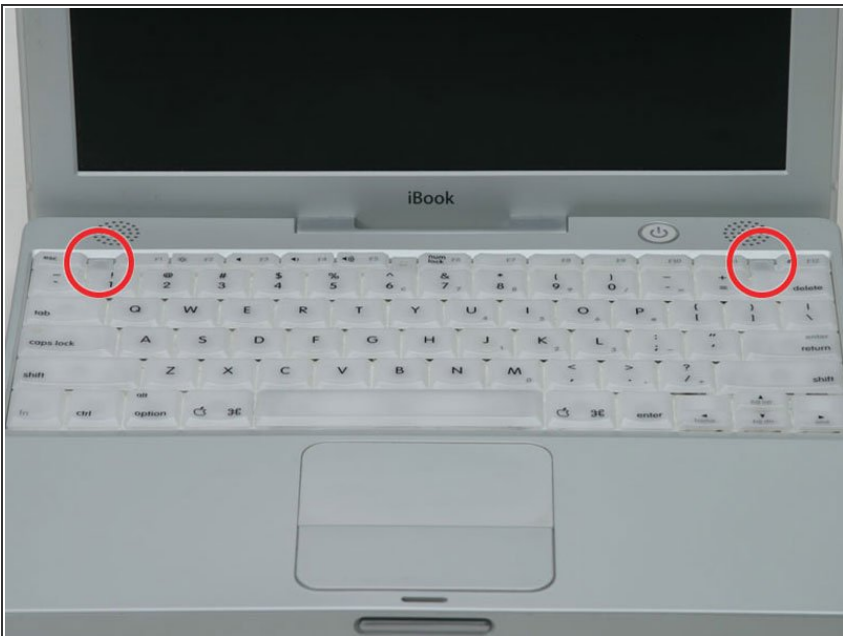
- [iBook G3 12" Clutch Cover \(Silver\)](#) (1)
- [iBook G3 or G4 12" Clutch Cover \(Opaque white\)](#) (1)

Step 1 — Battery



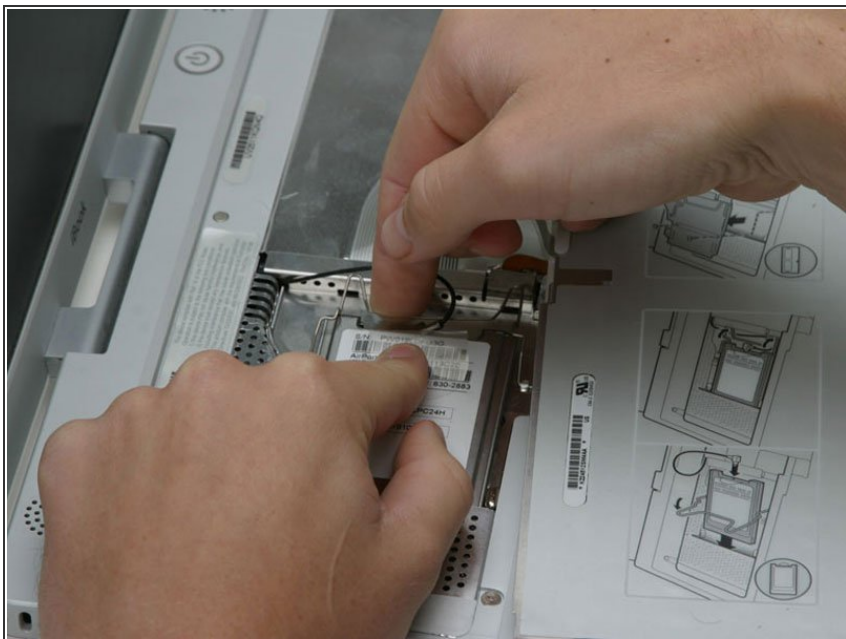
- Use a coin to rotate the battery locking screw 90 degrees clockwise.
- Lift the battery out of the computer.

Step 2 — Keyboard



- Pull the keyboard release tabs toward you and lift up on the keyboard until it pops free.
- If the keyboard does not come free, use a small flathead screwdriver to turn the keyboard locking screw 180 degrees in either direction and try again.
- Flip the keyboard over, away from the screen, and rest it face-down on the trackpad area.

Step 3



- **i** If the computer does not have an Airport card installed, skip the next two steps.
- Push the wire clasp toward the Airport card and pull it up to free it from the RAM shield.

Step 4



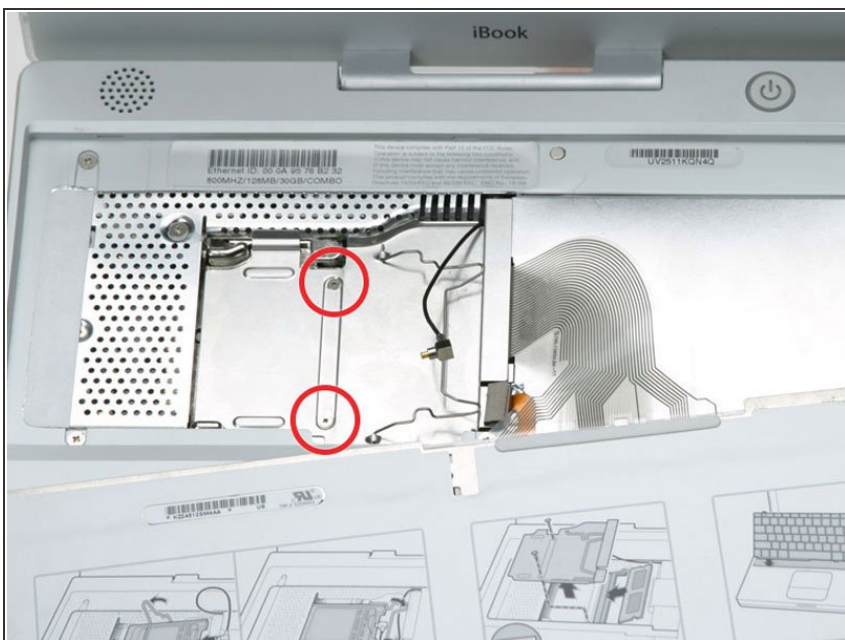
- Grasp the clear plastic tab on the Airport card and pull toward the right.

Step 5



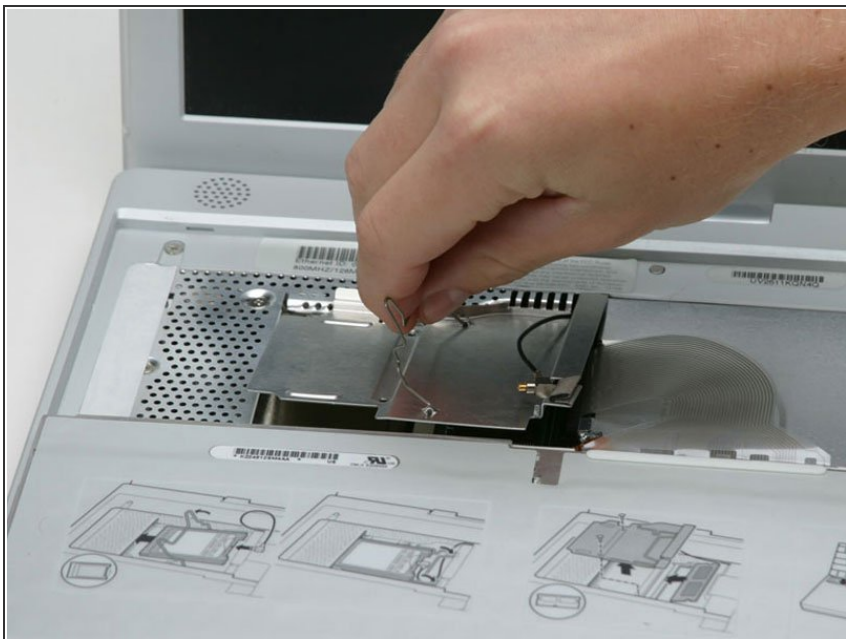
- Hold the Airport card in one hand and use your other hand to remove the antenna cable.

Step 6



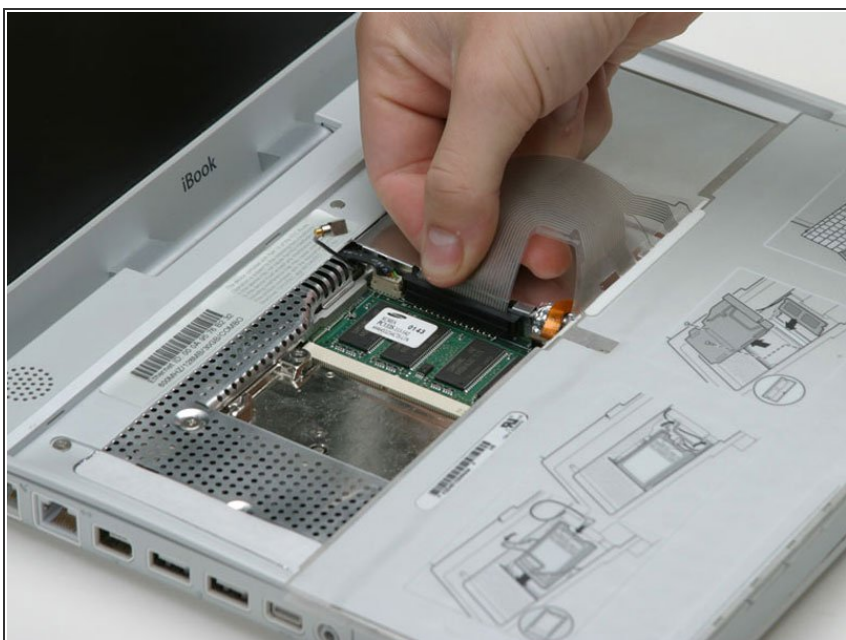
- Remove the two 2.5 mm Phillips screws that secure the RAM shield.

Step 7



- Grasp the metal bracket on top of the RAM shield and pull upward to remove the shield.

Step 8



- Pull the keyboard cable up from the logic board, holding the cable as close to the connector as possible.

Step 9 — Lower Case



- Your laptop should look approximately like this.

Step 10



- Use a pin (or anything you like) to remove the three rubber feet from the lower case.

Step 11



- Remove the three 5.2 mm newly-revealed Phillips screws.

Step 12



- Use a spudger or small flathead screwdriver to pry up the three metal rings that housed the rubber bumpers.

Step 13



- Remove the one 10 mm and two 20 mm hex screws using a 2mm hex. Alternatively, a T8 Torx screwdriver key will do.

Step 14



- Remove the two 4.2 mm Phillips screws on either side of the battery contacts.

Step 15



- Breathe deeply. Trying times are ahead, but we promise the lower case does come off.
- Push the thin rims of the lower case surrounding the battery compartment in, bending them past the tabs, and then lift up to free that corner of the lower case.

Step 16



- There is a slot on the wall of the battery compartment that locks the lower case in place. Use a small flathead screwdriver to pry out the slot's lower rim and pull up on the lower case to free the slot from the tabs holding it.

Step 17



- Run a spudger along the seam between the lower case and upper case on the front of the computer to free the tabs locking the lower case. Pull up on the lower case and continue to use the spudger as necessary until you hear three distinct clicks.

Step 18



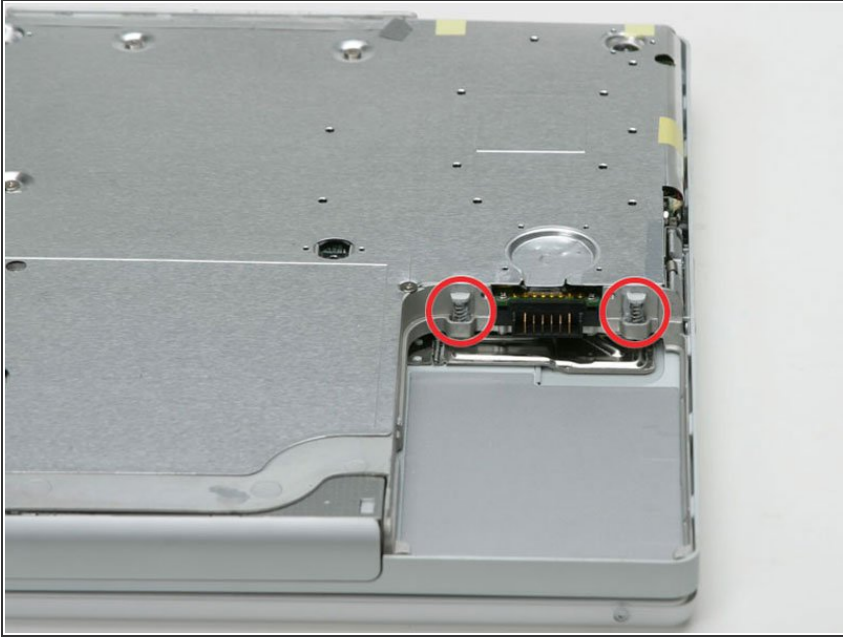
- Continue to run the spudger around the front, right corner. There are two tabs on the port side of the computer, one near the front corner and one near the sound out port.

Step 19



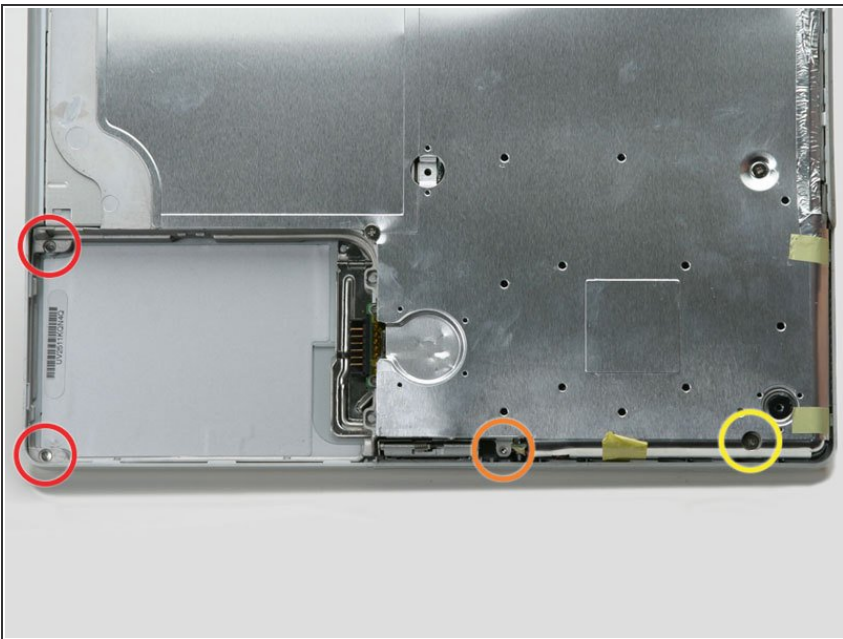
- Once the front and sides of the lower case are free, turn the computer so that the back is facing you and pull the lower case up and toward you until the back tabs pop free (it may be helpful to jiggle the case up and down).

Step 20



- Remove the small greasy springs with white plastic caps from either side of the battery contacts.

Step 21 — Upper Case



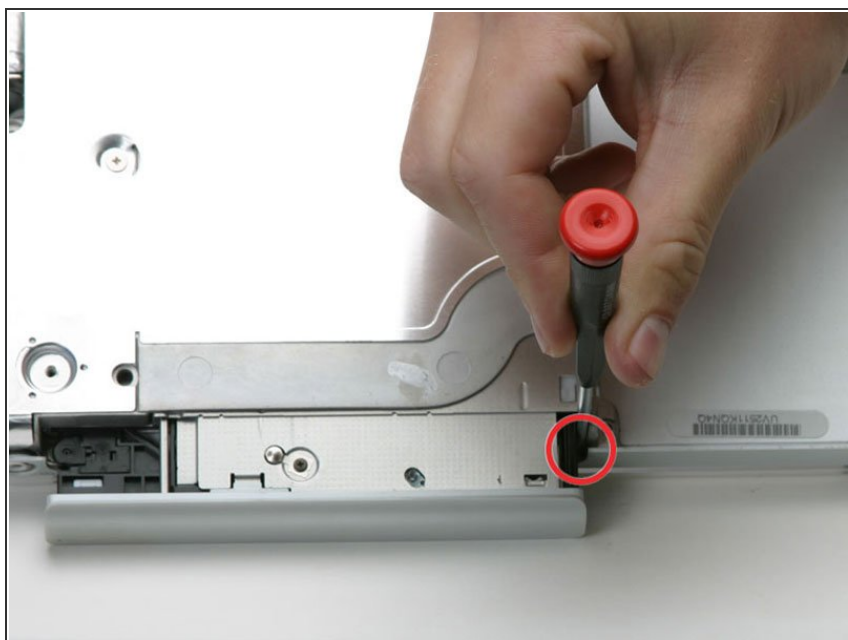
- Remove the following 4 screws on the bottom of the computer:
 - Two 3 mm Phillips from the left side of the computer.
 - One 4.5 mm Phillips near the latch mechanism (this screw may be missing in 800 MHz iBooks)
 - One 14.2 mm Phillips near the front, right corner.

Step 22



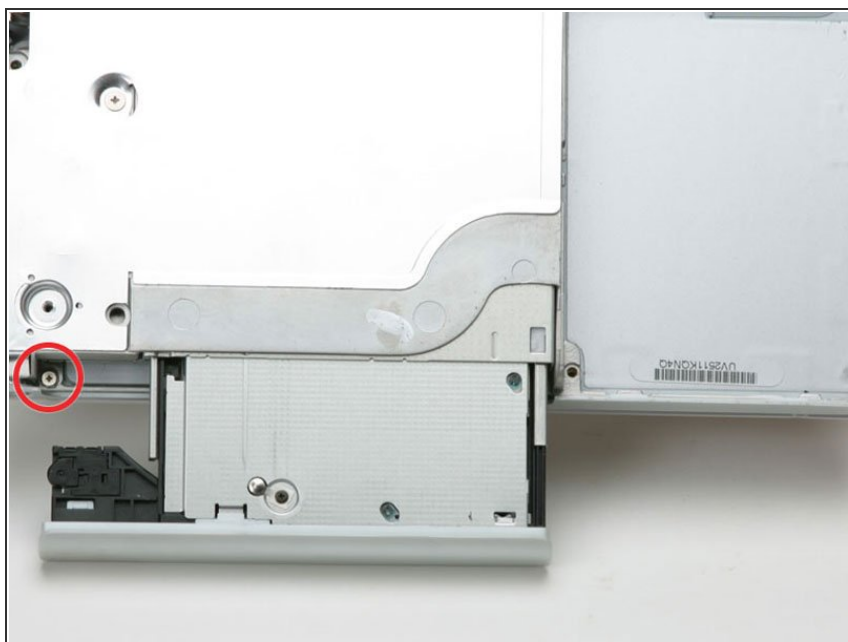
- Use a straightened paperclip to open the optical drive tray.

Step 23



- Pull the optical drive out just enough so that you can access and remove a Phillips screw near the battery compartment.

Step 24



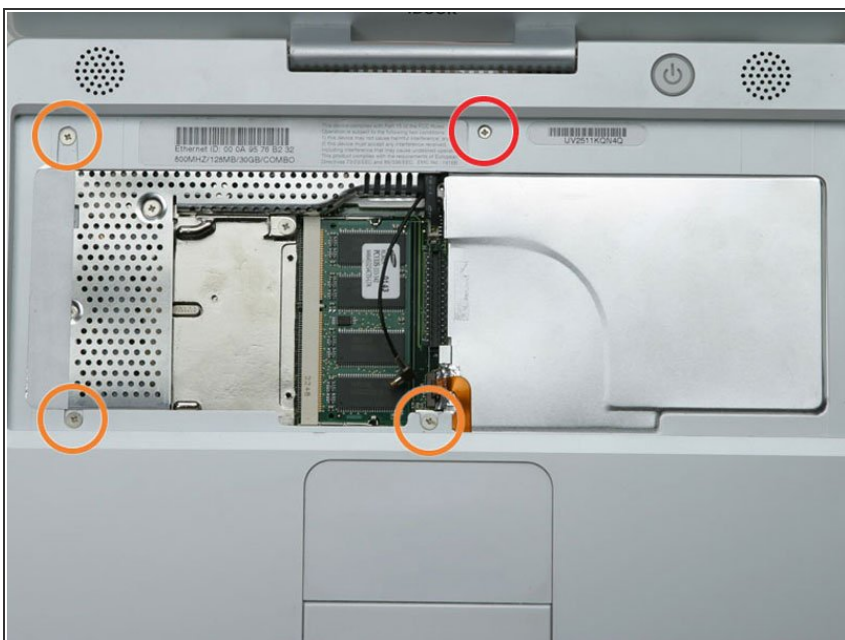
- Pull the optical drive a bit more so that you can access and remove a second Phillips screw near the power receptacle.

Step 25



- Turn over the computer and open it.
- Use tweezers (or a refrigerator magnet) to remove the magnet covering a Phillips screw near the middle of the computer.

Step 26



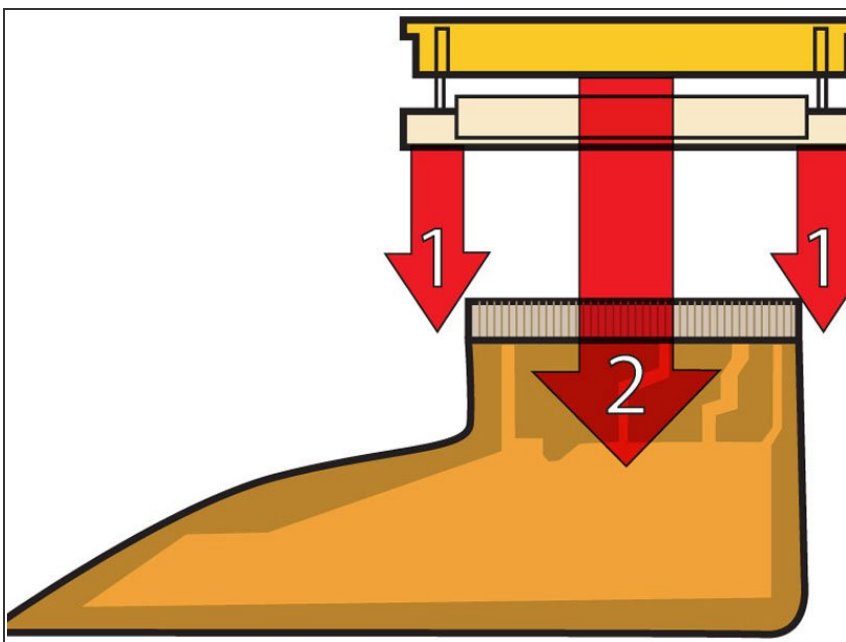
- Remove the following 4 screws on the edges of the keyboard area.
 - One 4.5 mm Phillips underneath where the magnet was.
 - Three 6 mm Phillips in plastic depressions.

Step 27



- Peel up the foil tape covering the speaker cable near the ports.

Step 28



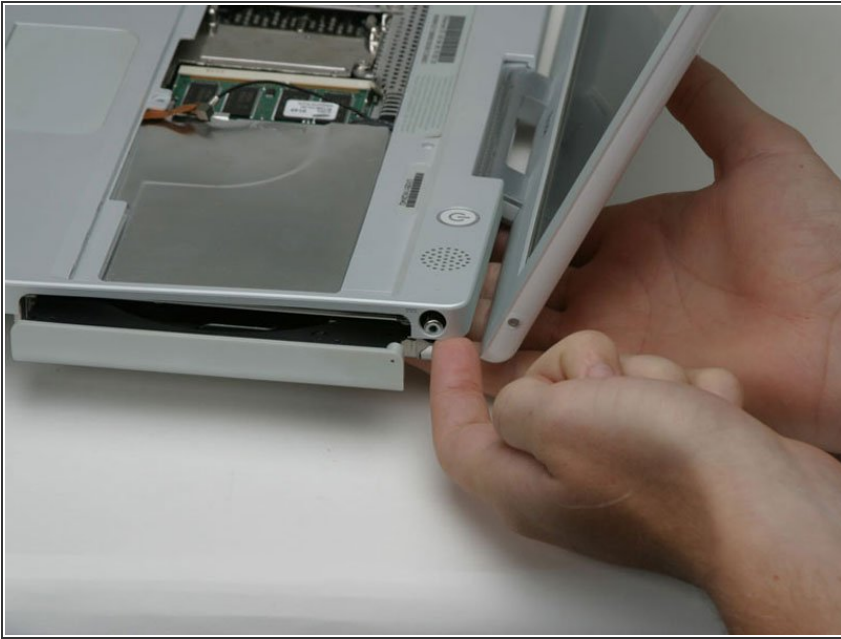
- i** This is a diagram of the trackpad ribbon clamp connector you will disconnect in the next step.
- 1) With your fingernails, grasp the locking bar on either side and pull up a small amount (about 1/16" or 2 mm).
 - 2) After disengaging the locking bar, slide the cable out of the connector.

Step 29



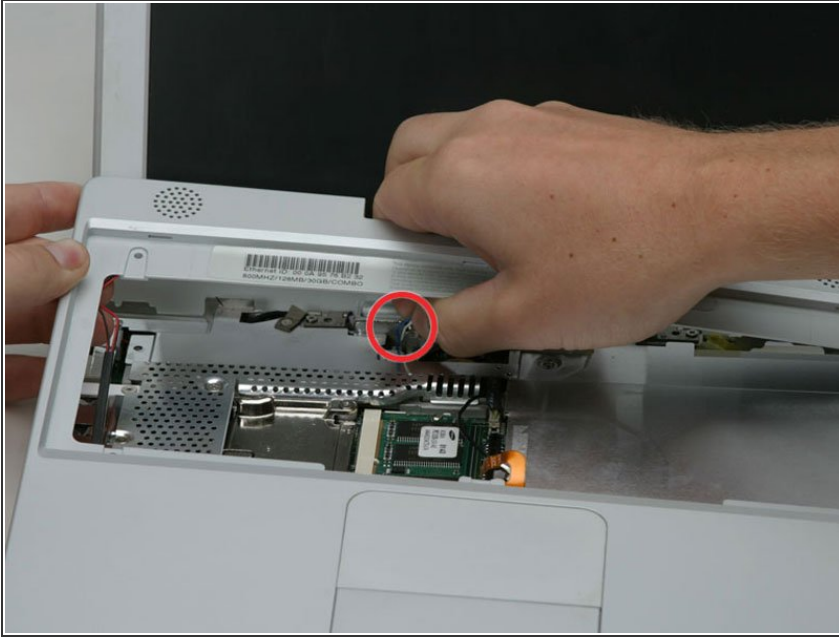
- Loosen the trackpad connector by pulling the top piece up slightly, freeing the trackpad ribbon.
- Slide the orange trackpad ribbon out of the connector.

Step 30



- i Before you can jerk the upper case off with joy, you must disconnect both the blue and white power cable and red and black speaker cable as described in the next steps.
- Lift the upper case from the left side and use your other hand to pull out the right side in order to clear the power receptacle.
- ★ There may be a thin metal bar fastened to the upper case by the two screws on either side of the optical drive. This bar provides rigidity around the optical drive; don't forget it when reassembling.

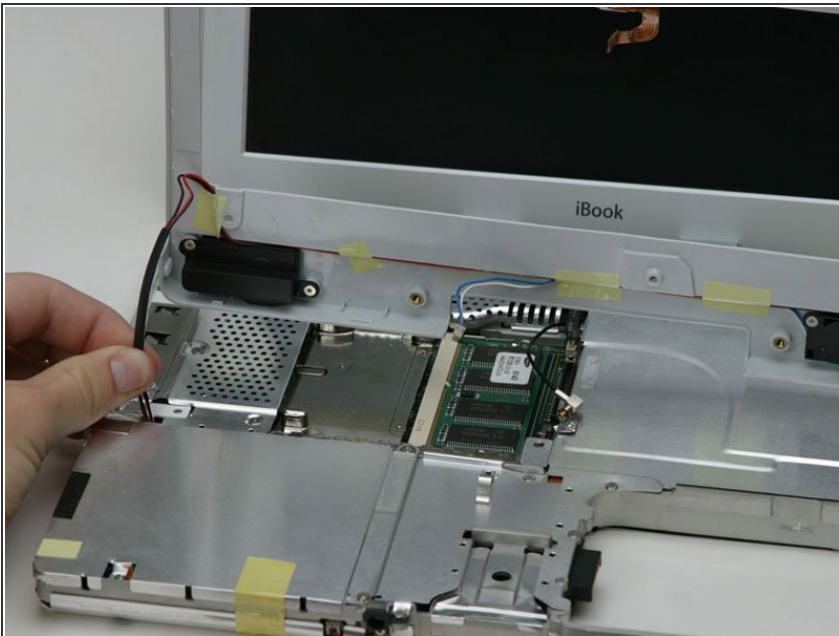
Step 31



⚠ The connectors at the ends of the cables are attached very firmly to the sockets on the logic board. Pulling directly on the cable will either separate the cable from its connector or the socket from the logic board.

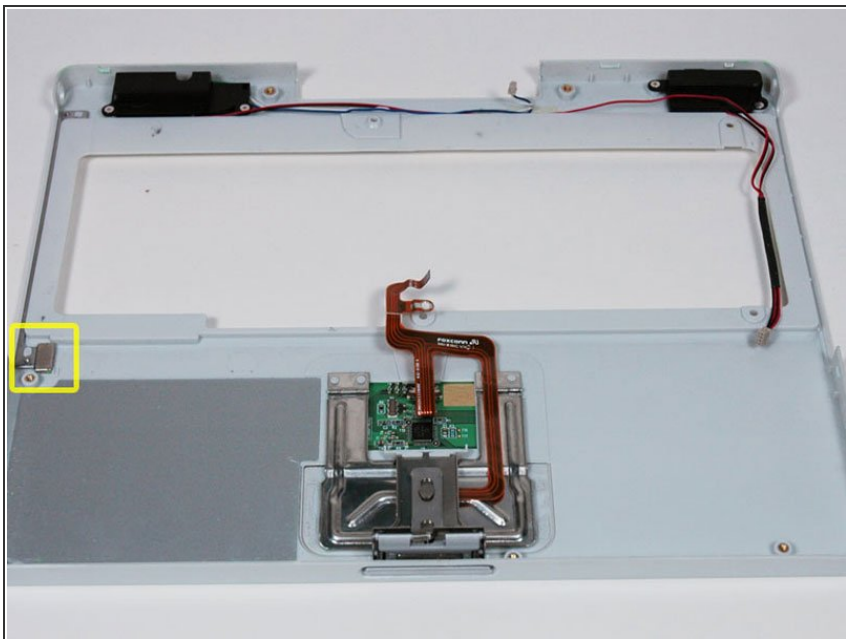
- Lift the upper case enough to disconnect the blue and white power cable from the logic board. Using your fingernails or a dental pick, carefully pry the connector from its socket. Make sure you're pulling only on the connector and not on the socket.

Step 32



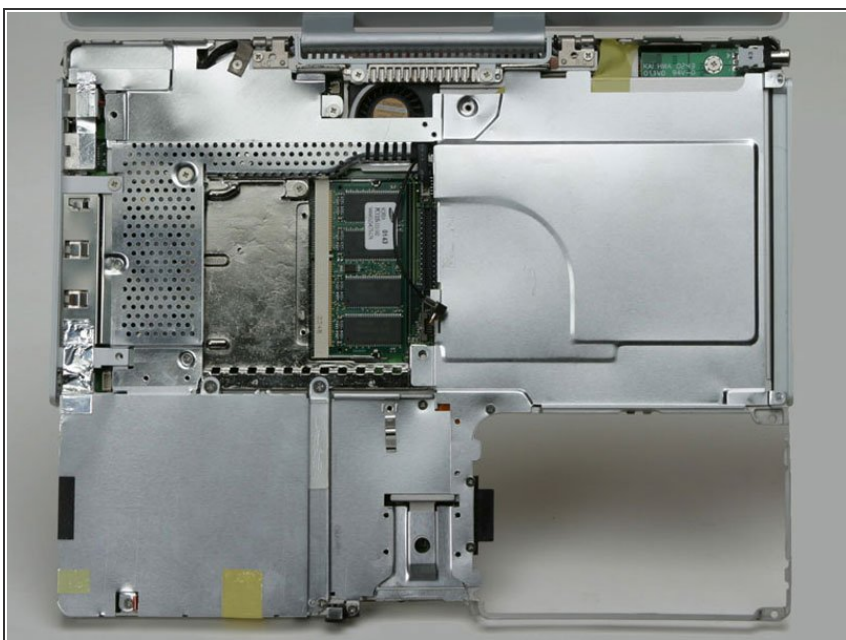
- Lift the upper case off completely and disconnect the red and black speaker cable from the logic board. As before, make sure you're pulling only on the connector and not on the socket.

Step 33



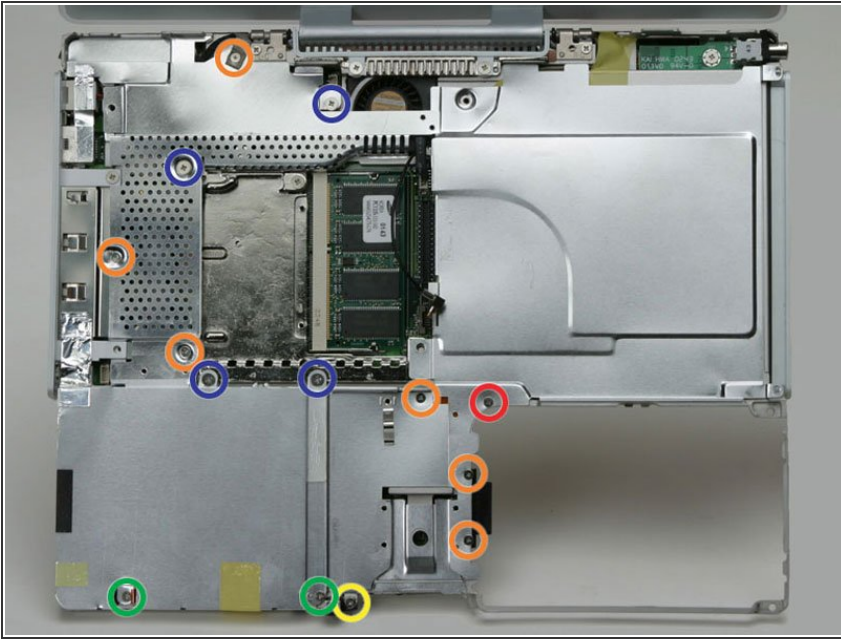
- ✦ There is a magnet that allows the computer to detect when the laptop is closed. If this magnet is not present your computer will not automatically go to sleep. Be sure the magnet is in the position indicated.

Step 34 — Top Shield



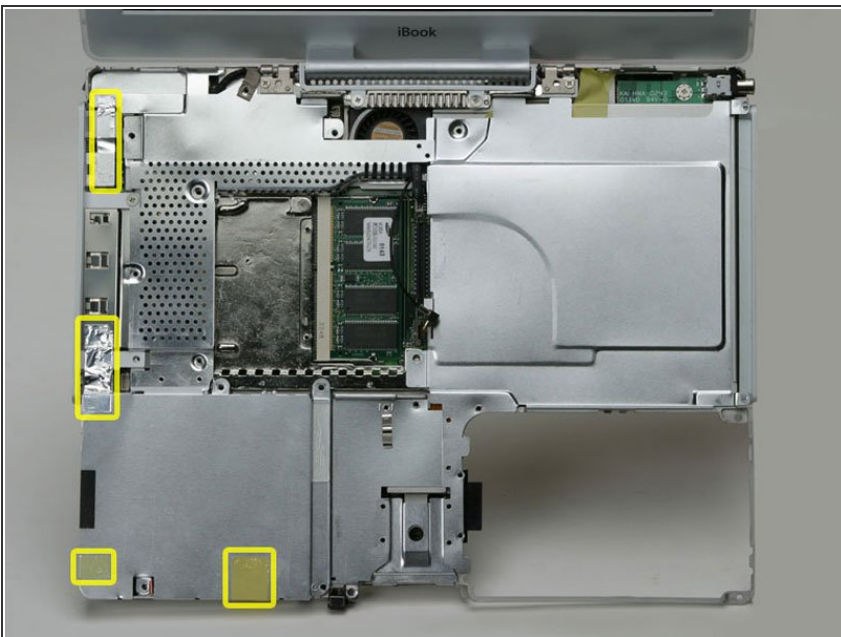
- Your laptop should look approximately like this.

Step 35



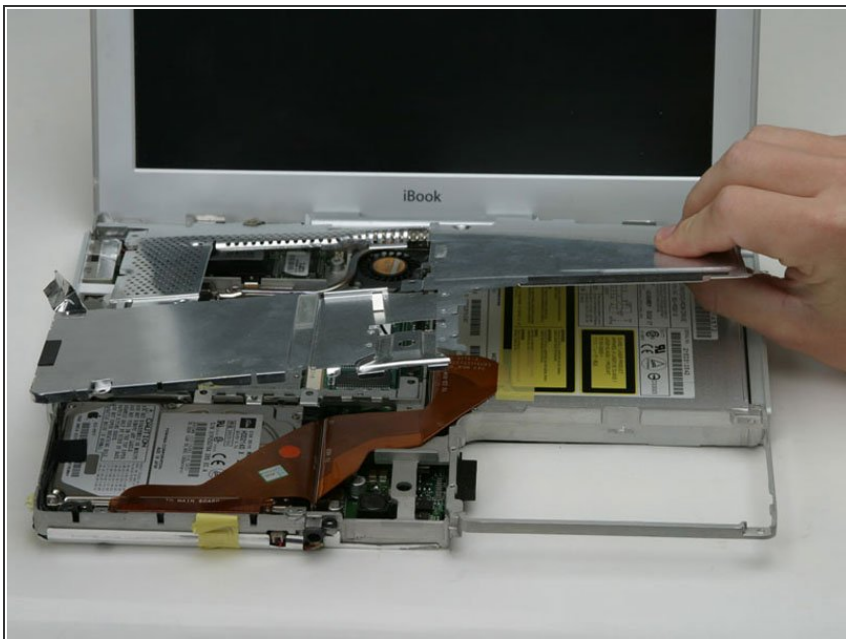
- Remove the following 14 screws (some models may be missing a couple of screws):
 - One 2.5 mm Phillips.
 - Six 3.5 mm Phillips.
 - One 4.5 mm Phillips near the sleep light with a small shaft.
 - Two 4.5 mm Phillips with larger shafts.
 - Four 5 mm Phillips
- If a screw is inserted in the left hole, the 14.2 mm screw in step 24 can not be inserted to hold the top case down.

Step 36



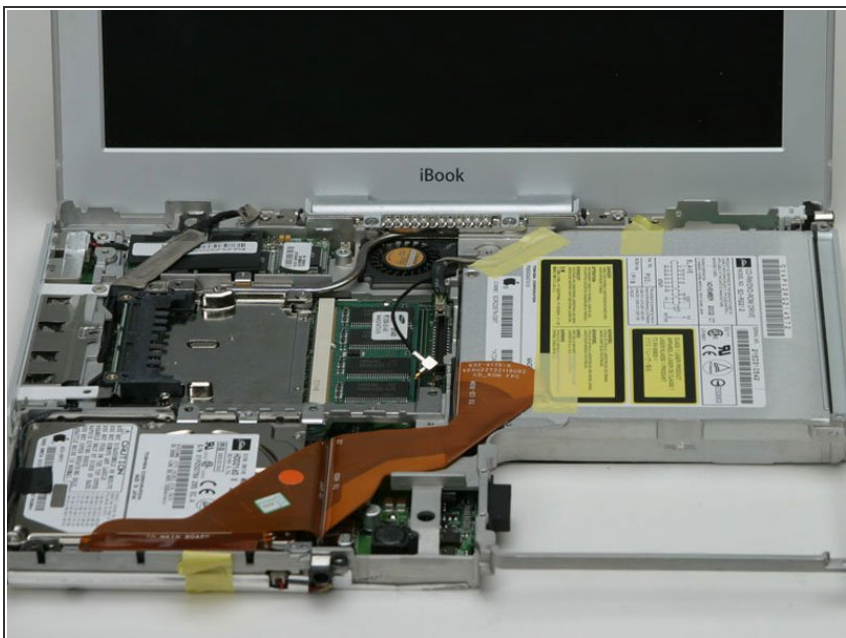
- Peel back three strips of yellow tape in the bottom left corner.
- Peel back one strip of foil tape in the upper left corner and another near where the trackpad connects to the logic board.

Step 37



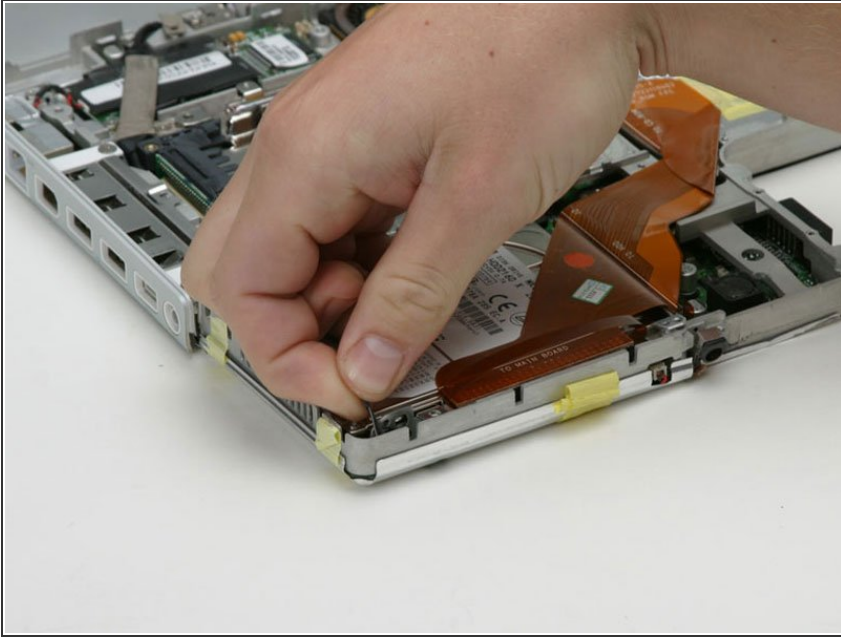
- Lift the top shield up from the right side, minding the upper left corner, which may catch on the metal framework.

Step 38 — Display



- Your laptop should look approximately like this.

Step 39



- ❗ If you have already removed the hard drive in a previous step, your iBook may differ slightly from the picture.
- Disconnect the microphone cable from the front, left corner of the logic board.
- Peel back the black tape and free the microphone cable from the hard drive.

Step 40



- Use the black plastic handle to disconnect the display data cable from the logic board.

Step 41



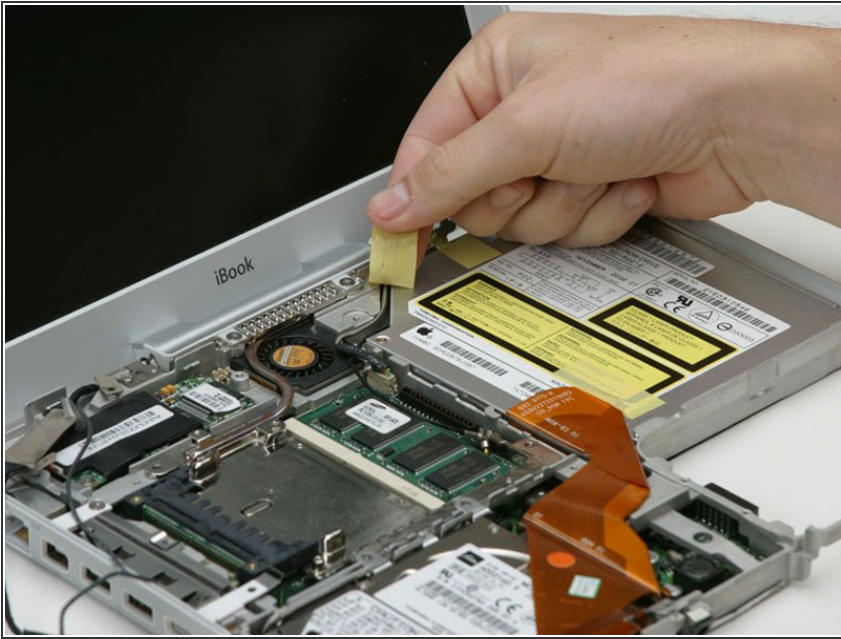
- **i** If you have already removed the modem in a previous step, you can skip this step.
- Remove the single Phillips securing the display data cable to the metal framework.

Step 42



- Deroute the display data and microphone cables.

Step 43



- Peel back the yellow tape securing the inverter cable to the optical drive.

Step 44



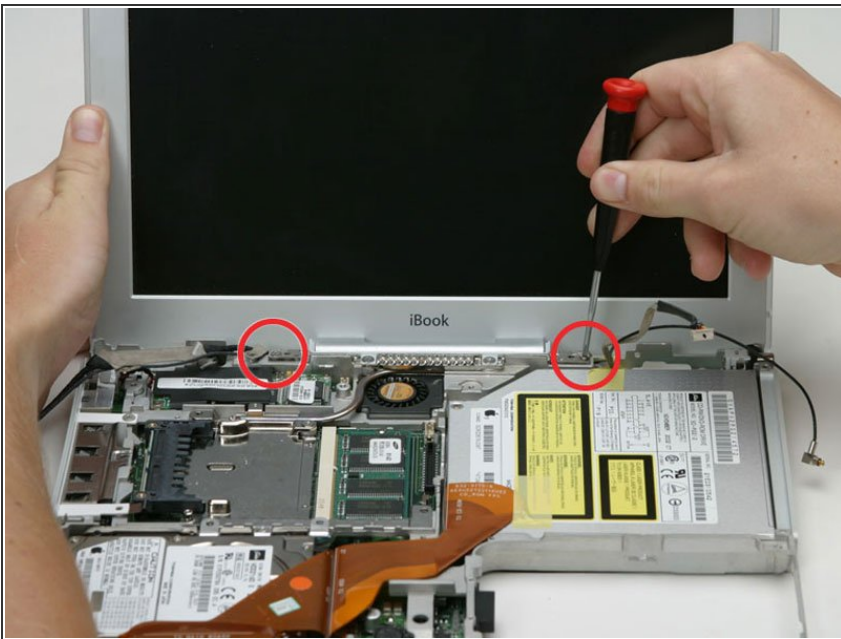
- Disconnect the inverter cable from the logic board.

Step 45



- Carefully deroute the inverter cable from beneath the optical drive.
- Deroute the Airport antenna cable from beneath the optical drive.

Step 46



- ① Support the display with your free hand while removing the following screws.
- Remove the single Phillips screw on the outer edge of either hinge (two screws total).
- Tilt the display back to get over two small nubbins, and then slide it directly from the case and away.

Step 47 — Rear Display Bezel



- Use a 1.5mm hex screwdriver to remove the two hex screws on either side of the display (four screws total).
- ⓘ If you don't have a 1.5mm hex driver, you can probably get these screws out with a T6 Torx screwdriver. However, if you use a T6 Torx driver you'll be more likely to strip the screws.

Step 48



- Use your thumbs to slightly separate the rear bezel from the front bezel.
- ⓘ It is helpful to hold the opposing corner of the display stationary to aid in flexing the rear bezel away from the display.

Step 49



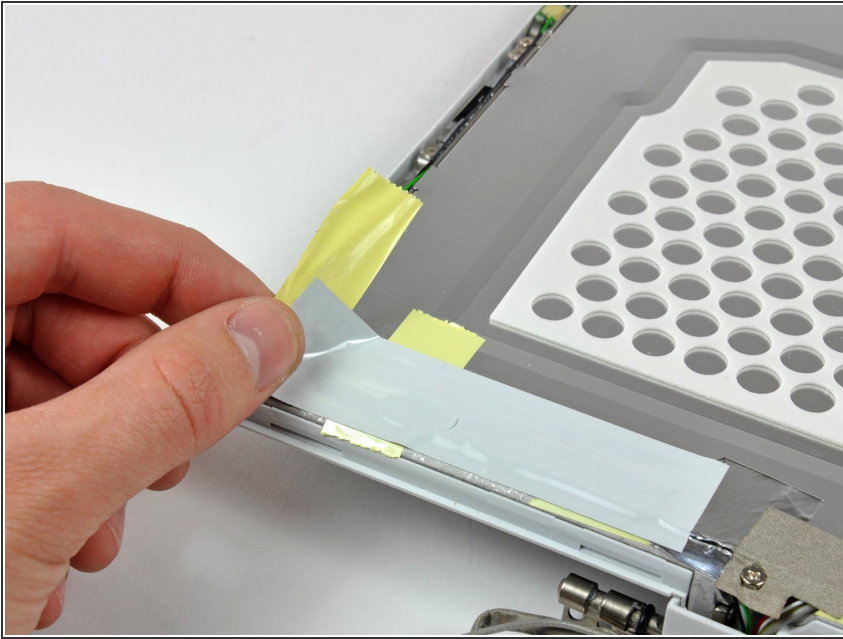
- Insert the flat end of a spudger into the gap between the front and rear bezels.
- Rotate your spudger until it is parallel to the front face of the display.
- Run the spudger around the perimeter of the display to separate the rear bezel from its retaining clips.

Step 50



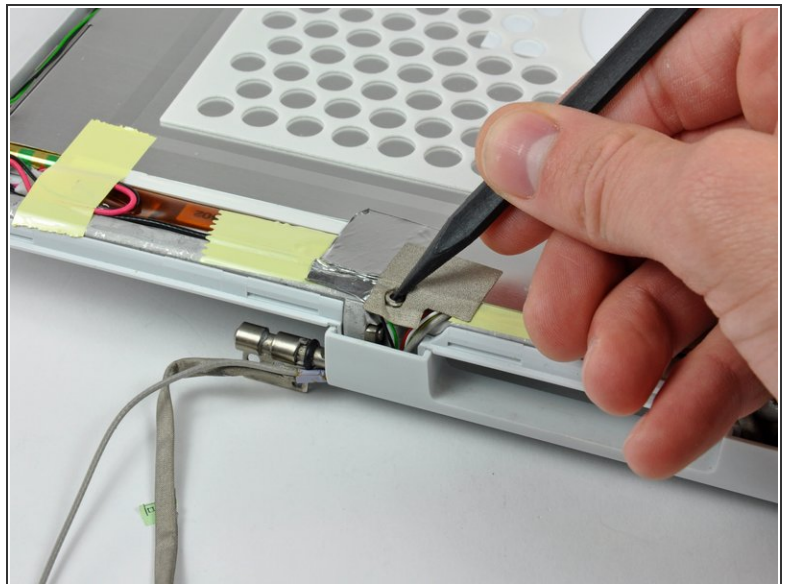
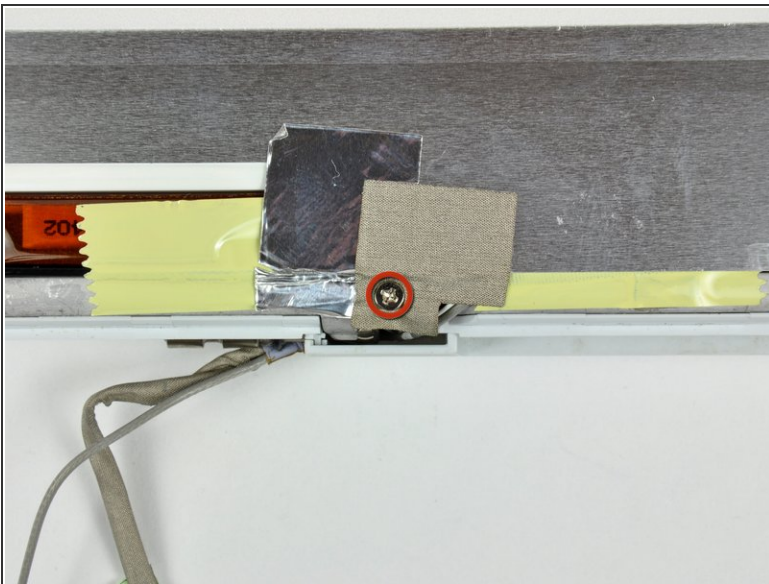
- Lift the rear bezel off the display.

Step 51 — LCD Cover



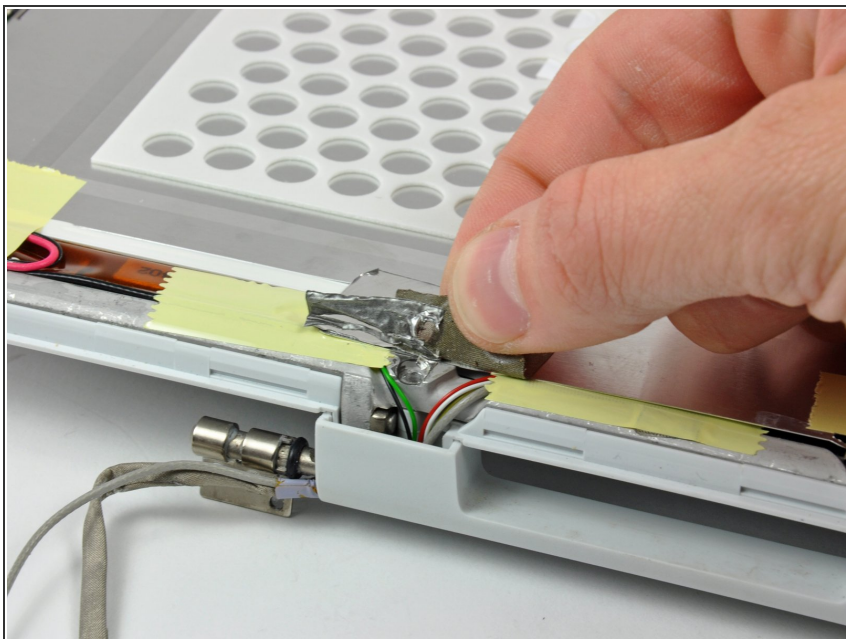
- Remove the large piece of tape near the lower right corner of the display.

Step 52



- Remove the single screw inserted through the piece of EMI tape near the bottom edge of the display (it's the first of the two clutch cover screws).
- Use the tip of a spudger to remove the small washer under the screw you just removed.

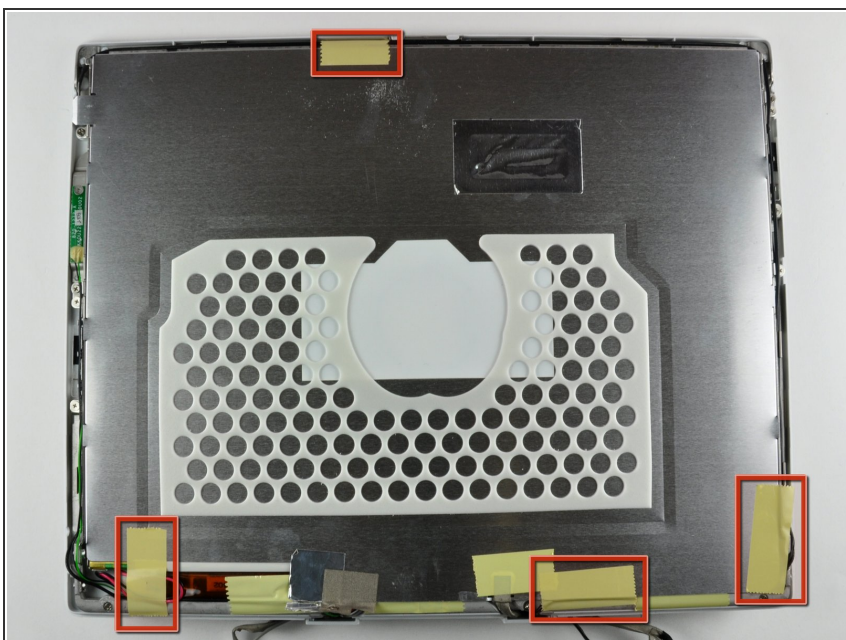
Step 53



- Peel the aluminum/EMI tape as one piece off the cast aluminum frame of the clutch hinges.

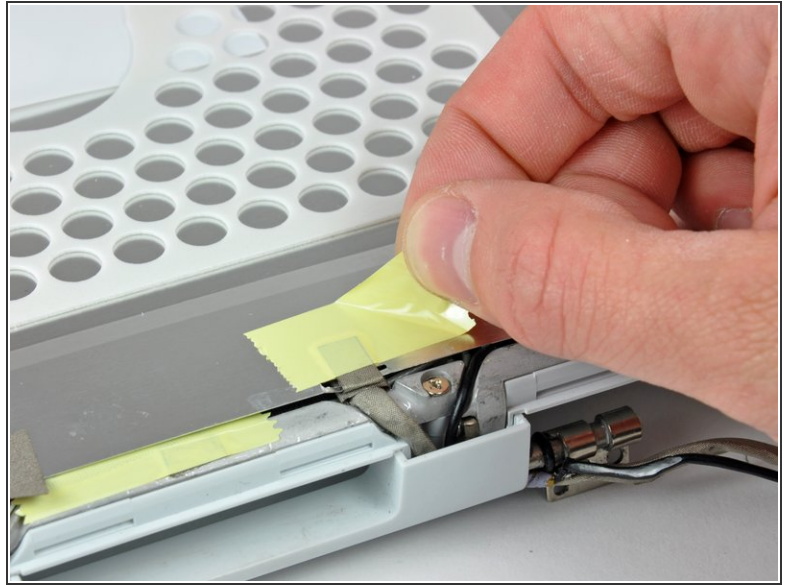
ⓘ It is not necessary to peel the tape off the thin steel LCD cover.

Step 54



- Remove the pieces of readily removable tape from around the perimeter of the display.

Step 55



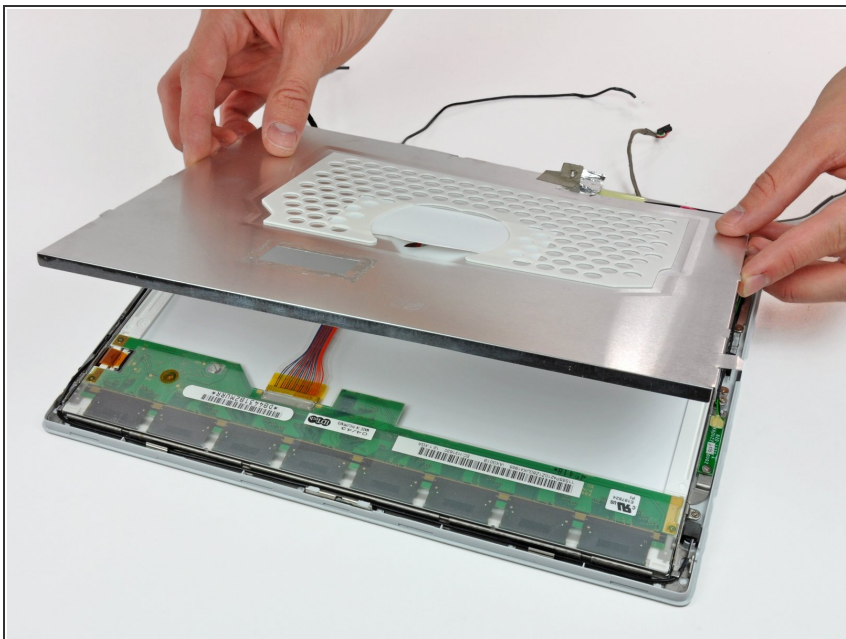
- Remove the piece of aluminum tape near the center of the LCD cover.
- Peel back the piece of tape securing the display data cable ground loop to the thin steel LCD cover.

Step 56



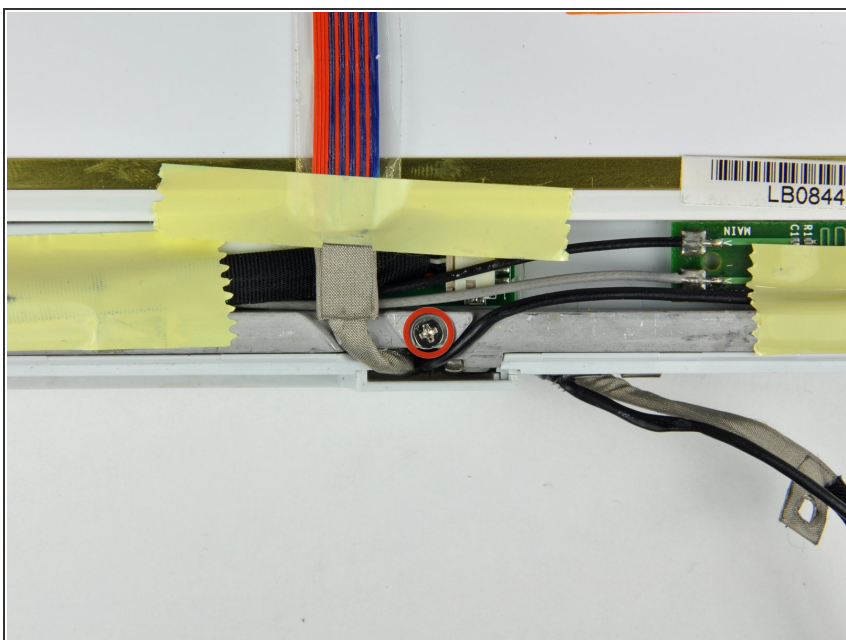
- Remove the two Phillips screws securing each side of the LCD to the clutch hinge frame (four screws total).

Step 57



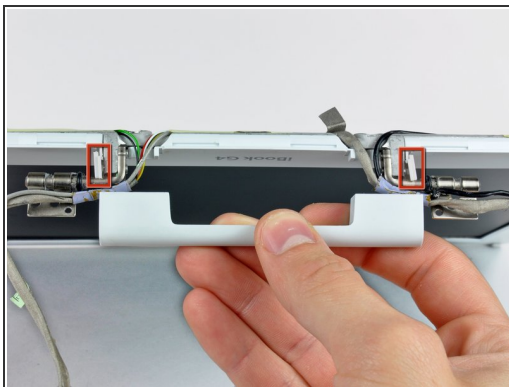
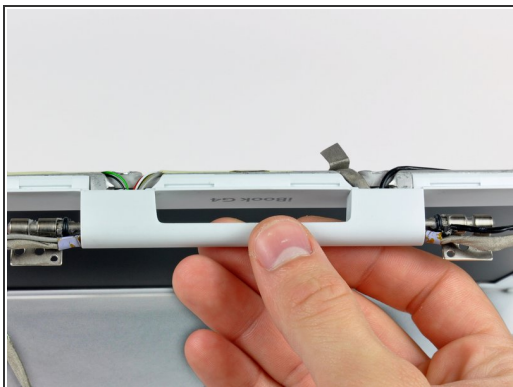
- Lift the thin steel LCD cover off the LCD.

Step 58 — Clutch Cover



- Remove the second of the two Phillips screws securing the clutch cover to the cast aluminum frame of the clutch hinges.

Step 59



- Pull the clutch cover away from the front of the display.
- ⓘ Keep track of the two covers that close the ends of the clutch cover. The third picture shows their correct orientation on the clutch cover.

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