



Installing PowerBook G4 Aluminum 15" 1.67 GHz Right Speaker

Author: Andrew Bookholt

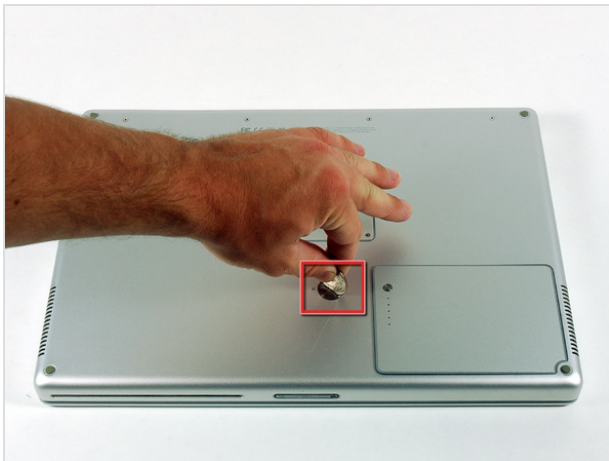
Tools used in this guide

- [Coin](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)
- [T6 Torx Screwdriver](#) (1)

Parts relevant to this guide

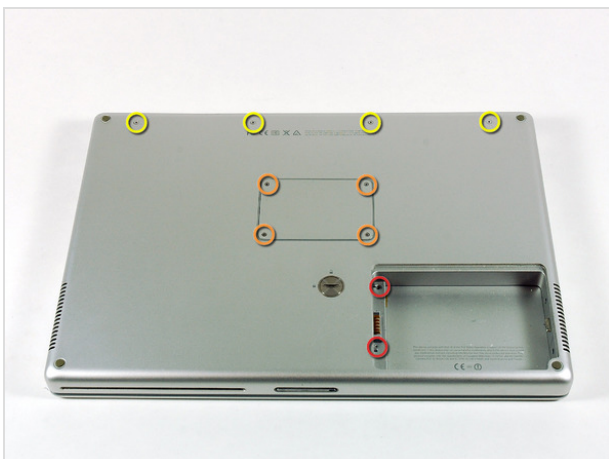
- [G4 Aluminum 15" 1.67 GHz Right Speaker](#) (1)

This guide will show you how to replace the right speaker on your PowerBook.



Step 1 — Battery

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



Step 2 — Upper Case

- Remove the following 10 screws:
 - Two 3 mm Phillips in the battery compartment, on either side of the battery contacts.
 - Four 3 mm Phillips around the memory compartment.
 - Four 16 mm Phillips along the hinge.



Step 3

- Remove the memory compartment cover.
- Remove the two 12 mm Phillips screws on the Aluminum bracket at the top of the memory compartment.



Step 4

- Rotate the computer 90 degrees clockwise so the power receptacle faces you.
- Remove the three 3 mm Phillips screws along the edge of the lower case.
- When replacing these screws, you must install them in the correct order. Begin by installing the screw closest to the display hinge, then work your way toward the front of the computer.



Step 5

- Turn the computer 90 degrees clockwise so the hinge faces you.
- Remove the lower 5 mm Phillips screw on each side of the hinge (two total).



Step 6

- Rotate the computer 90 degrees clockwise so the ports face you.
- Remove the three 3 mm Phillips screws along the edge of the lower case.
- When replacing these screws, you must install them in the correct order. Begin by installing the screw closest to the display hinge, then work your way toward the front of the computer. Also, be careful not to put the screws in the two holes on either side of the video out port.



Step 7

- Turn the computer over and open the display.
- Remove the two 4.2 mm long, 1.5 mm hex screws at the top corners of the upper case (two total).
- A T6 Torx driver will work, but repeated use will strip the screws.



Step 8

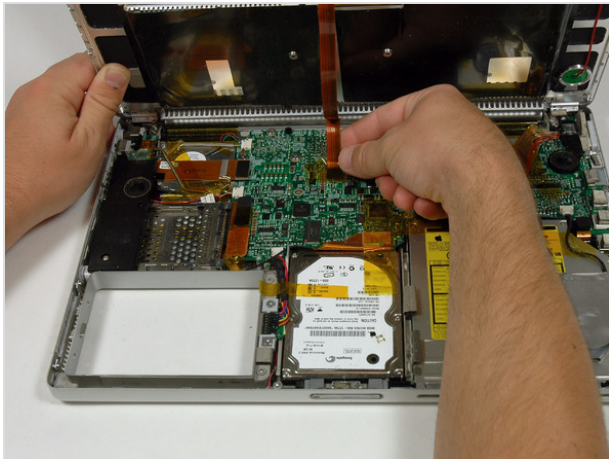
- Grasp the back corners of the upper case and pull up.
- Do not pull the upper case off yet; you still need to disconnect the keyboard and trackpad cable.
- Lift the back of the case up and work your fingers along the sides, freeing the case as you go. Once you have freed the sides, you may need to rock the case up and down to free the front of the upper case.





Step 9

- Rotate the upper case up and toward the screen, so that the upper case rests against it.



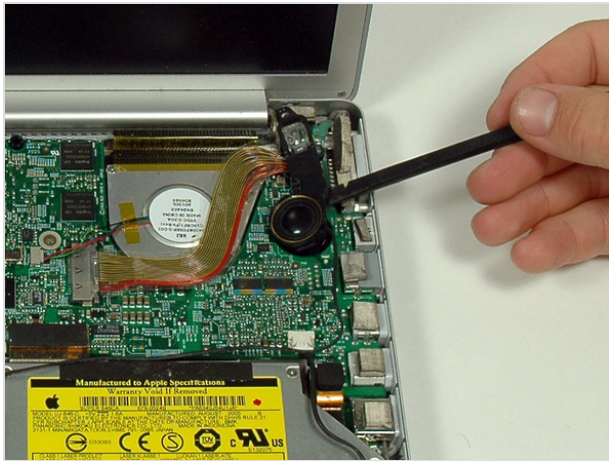
Step 10

- Remove the amber tape securing the trackpad ribbon to the logic board.
- Disconnect the trackpad ribbon from the logic board by pulling up on the connector.
- Remove the upper case from the computer.



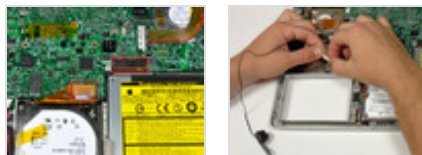
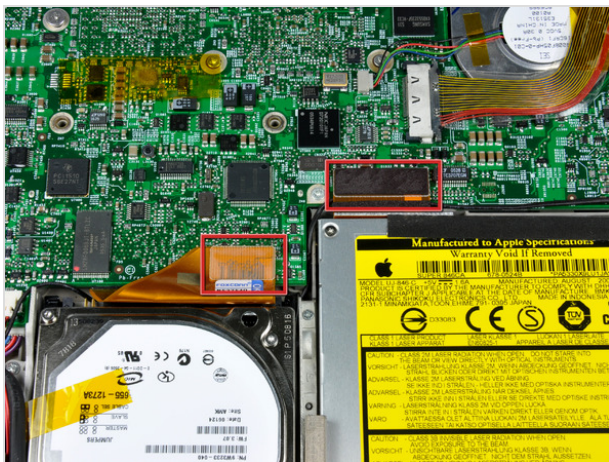
Step 11 — Right Speaker

- Remove the 12 mm Phillips screw holding the right speaker assembly to the lower case.



Step 12

- Use a spudger to gently pry the speaker out of its housing.
- The right ambient light sensor cover is connected to the speaker and should not be removed.



Step 13

- Disconnect the hard drive and optical drive connectors from the logic board.
- Disconnect the right speaker cable connector.
- De-route the right speaker cable and remove the speaker from the computer.
- The right speaker cable may be trapped under the hard drive cable connector. If this is the case, the hard drive will have to be removed in order to de-route the cable and remove the right speaker.



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

This document was last generated on Feb 28, 2012.