

# PowerBook G4 Aluminum 15" 1-1.5 GHz Optical Drive Replacement

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#### **INTRODUCTION**

This guide will show you how to remove the brackets from the PowerBook G4 optical drive.



# **TOOLS:**

- Coin (1)
- Phillips #00 Screwdriver (1)
- Push Pin (1)
- Spudger (1)
- T6 Torx Screwdriver (1)



#### **PARTS:**

- 12.7 mm PATA 8x SuperDrive (UJ-875)(1)
- G4 Aluminum 15" Optical Drive Cable (1)
- 12.7 mm PATA Optical Bay PATA Hard Drive Enclosure (1)
- G4 24x Combo Drive (1)

## 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 four Phillips screws from the memory door.
- Slide the memory door away from the memory compartment.



- Remove the following 8 screws:
  - Two 3 mm Phillips in the battery compartment, on either side of the battery contacts.
  - Two 9 mm Phillips on either side of the memory compartment.
  - Four 16 mm Phillips along the hinge.



- Rotate the computer 90 degrees clockwise, so that the power receptacle faces you.
- Remove the three 3 mm Phillips screws.
- When replacing these screws, you must place each screw in the correct order. Begin by installing the screw closest to the display hinge, and go out from there.



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



- Rotate the computer 90 degrees clockwise, so that the ports face you.
- Remove the three 3 mm Phillips screws.
- When replacing these screws, you must place each screw in the correct order. Begin by installing the screw closest to the display hinge, and go out from there.



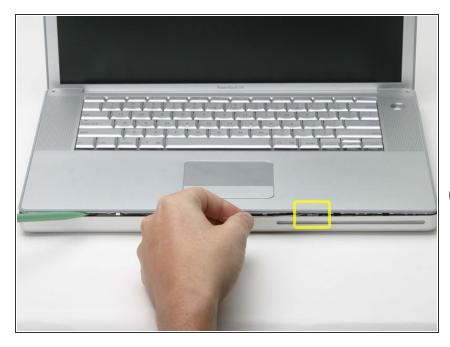
- Turn the computer over and open the display.
- Remove the 4.2 mm 1/16" H 1.5 hex screws in either corner, next to the display (a T6 Torx driver will also do the job nicely).



- This step covers the hardest part to get inside this computer. Take a deep breath and think happy thoughts.
  - Grasp the back corners of the upper case and pull up, disengaging hidden tabs on the sides. Do not pull the upper case off yet; you still need to free tabs in the front of the case.
- The seam is beneath the plastic molding on the upper case.



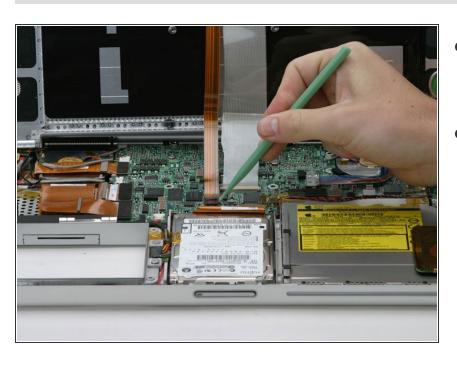
- There is one latch that stops you from pulling the upper case right off, located on the left side of the optical drive slit. To free the upper case, you will be pulling a thin metal latch toward you, freeing it from the clasp holding it in place.
- Pry up the left side of the upper case slightly with your hand and wedge a spudger into the seam between the upper case and lower case.
- Leave the tool in place applying pressure to the upper case for the next step.



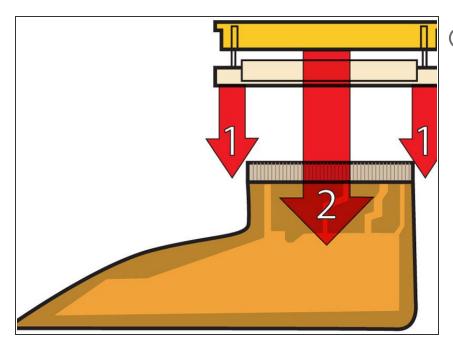
- Place enough pressure on the upper case to allow you to slide a tool just within the seam between upper case and lower case as shown in the picture. A dentist's hook, push pin, or similar tool will work.
- i Do not yank the upper case off as soon as you free the clasp. The case is attached to the logic board via two ribbon cables.
- Delicately slip the tip of your tool behind the silver metal latch and pull it forward while pulling up on the case. This may take some effort.
- Alternatively, you can free the clasp with a small flathead screwdriver through the CD slot. The clasp is 1-3/16 in (3cm) from the left side of the slot. Use the screwdriver to lift out (or press back) the felt lining; then use the screwdriver to pull the clasp (shiny metal) forward to free it from the catch behind it (dull metal).



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



- Remove the orange tape securing the trackpad ribbon to the logic board.
- Disconnect the trackpad ribbon from the logic board.



- This is a diagram of the keyboard 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.



- Loosen the keyboard ribbon clamp by pushing the thin black piece toward the screen, using the tips of your fingers.
- The black piece is very fragile and easily broken. Use care when separating it from the main socket.
  - Slide the grey keyboard ribbon out of the loosened connector.
- Remove the upper case from the computer.

# Step 15 — Optical Drive

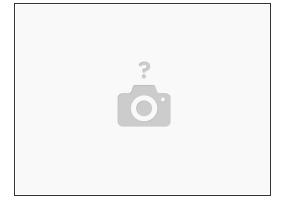


 Use a spudger to pry up the PRAM battery from the optical drive.

#### Step 16



 Do not disconnect the PRAM battery from the logic board, but simply place it aside, allowing access to the optical drive.



- Remove the two short black Phillips screws from the right side of the optical drive.
- Remove the two longer silver Phillips screws from the left side of the optical drive.
- Peel back the orange tape from the optical drive.

# Step 18



 Disconnect the large black connector from the logic board and get out from under the red and black speaker cable.

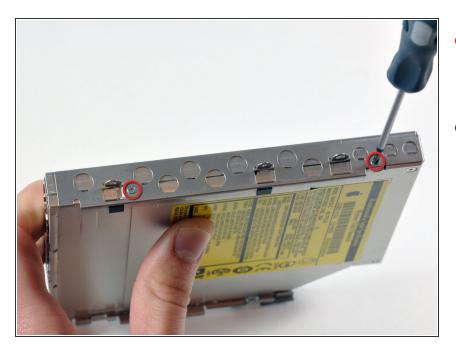


- Lift the optical drive out of the computer from the side with the connector on it (mind the small metal bracket that pops out with the drive, keep this with the optical drive).
- Don't forget the bracket when reassembling the computer.
- i If you have a CD or any other object jammed in your optical drive, we have an optical drive repair guide.

## Step 20 — Optical Drive

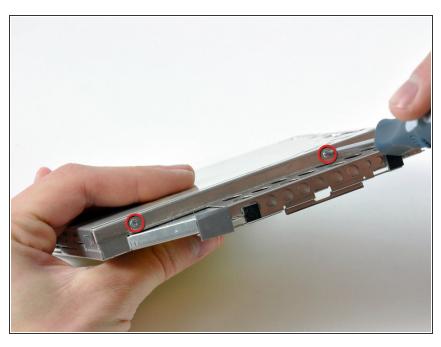


- if your new optical drive already has brackets on it, you'll only need to transfer the data cable to your new drive.
- Disconnect the orange ribbon cable from the back of the optical drive.



- Remove the two small silver Phillips screws attaching the bracket to the left side of the optical drive.
- Remove the bracket.

#### Step 22



- Remove the two small silver Phillips screws attaching the bracket to the right side of the optical drive.
- Remove the bracket.
- If you purchased an optical drive without mounting brackets, simply transfer the two silver metal brackets and orange ribbon cable to your new optical drive.

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