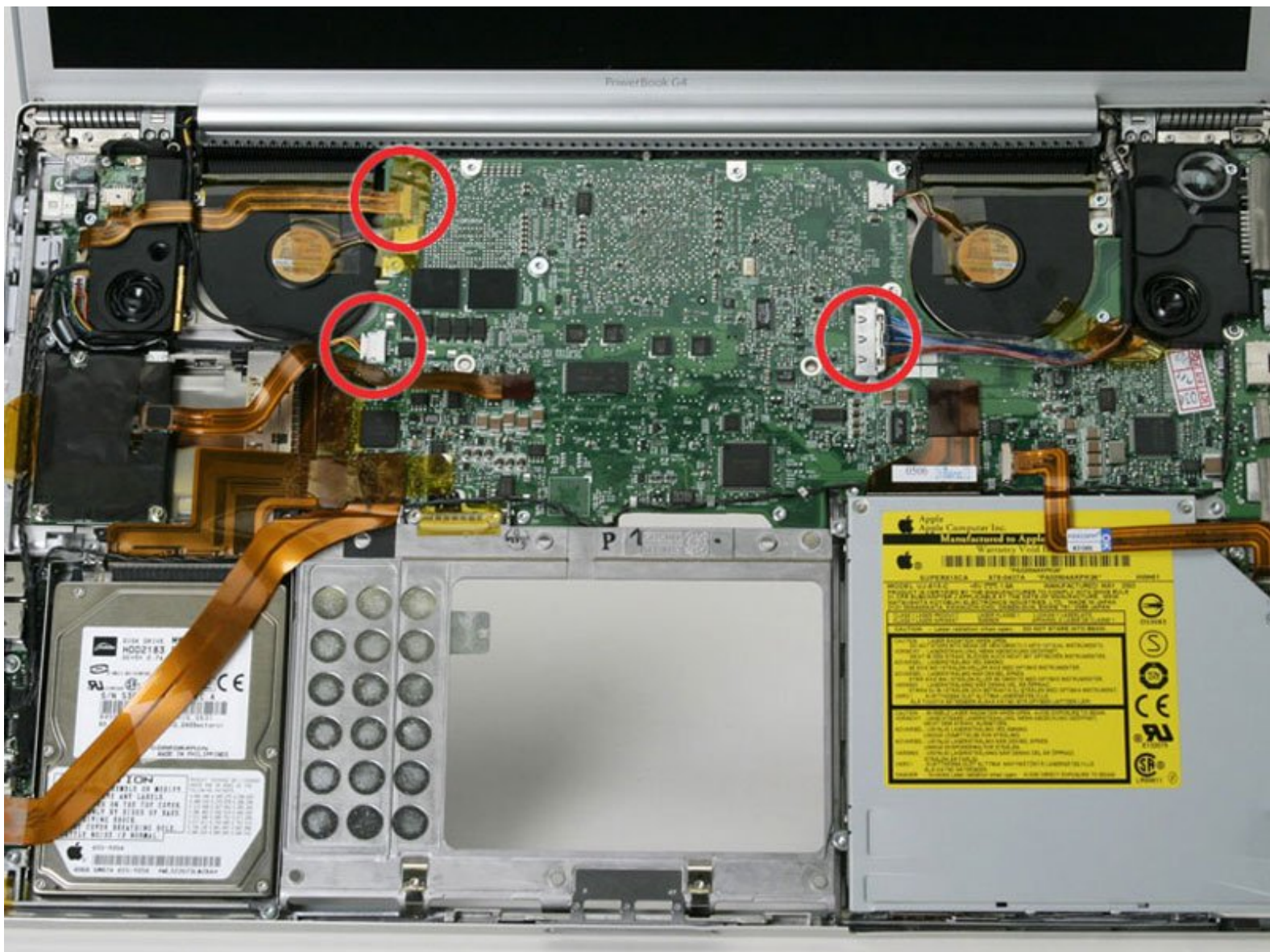




PowerBook G4 Aluminum 17" 1-1.67 GHz

Display Replacement

Written By: iRobot



INTRODUCTION

Change out the entire display assembly, including the inverter, Airport antenna, hinges and metal casing.



TOOLS:

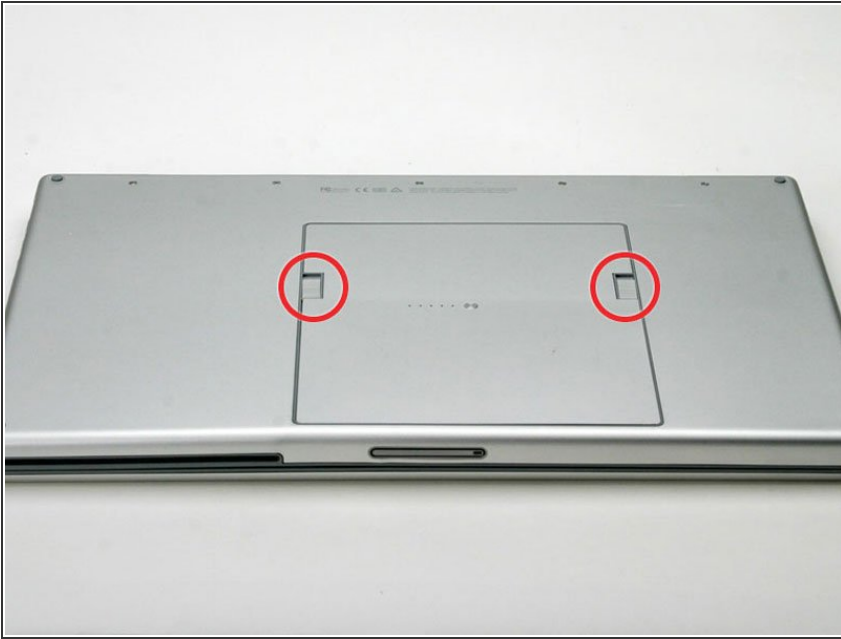
- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)
- [T6 Torx Screwdriver](#) (1)
- [T8 Torx Screwdriver](#) (1)



PARTS:

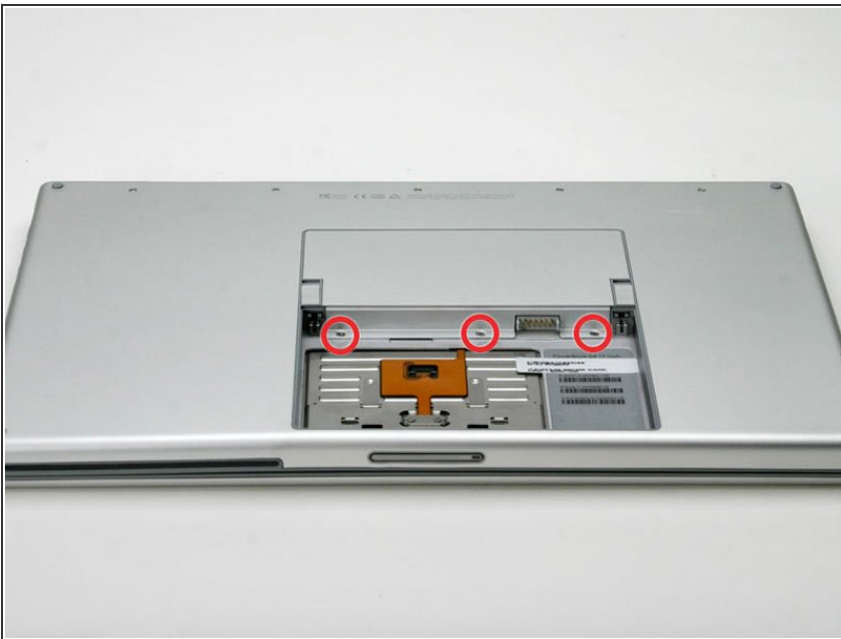
- [G4 Aluminum 17" \(LR\) Display Assembly](#) (1)

Step 1 — Battery



- Orient the computer so that the side with the line of screws on it is away from you.
- Use your thumbs to push both battery release tabs away so that the edge of the battery lifts up.
- Lift the battery out of the computer.

Step 2 — Upper Case



- Remove the three identical Phillips screws from the memory door.

Step 3



- Lift the memory door up enough so that you can get a grip on it, and slide it toward you, pulling it away from the casing.

Step 4



- Release the tabs on each side of the RAM chip at the same time. These tabs lock the chip in place and releasing them will cause the chip to "pop" up.
- Pull the chip directly out from its connectors. If there is a second RAM chip installed, pop it out in the same manner.

Step 5




 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 slide it a small amount (about 1/16" or 2 mm) towards the battery.
- 2) After disengaging the locking bar, slide the cable out of the connector.

Step 6



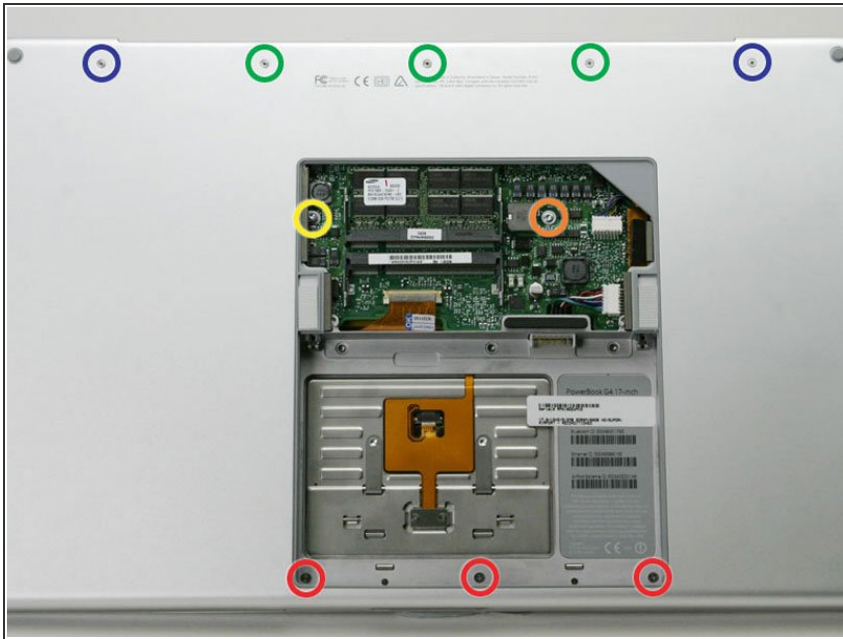
 For this step, you only need to move the connector about 2 mm. Pulling too hard or too far will damage the connector.

- Loosen the trackpad connector by pulling the locking bar toward the battery housing, using the tips of your fingers.
- Slide the trackpad cable out of the loosened connector.

 When reattaching the trackpad ribbon cable, make sure that the orange cable is slid into the connector above the locking bar.

- Note: When reassembling the case, the trackpad cable can get stuck below the slot to the motherboard. It's possible to nudge it out slowly by gently prodding it on either side with a small screwdriver. You don't need to use much force to do this. Eventually it will just pop back out and you can reconnect as per the instructions above. Also, note that the locking bar comes loose so if you see a little piece of plastic lying around when reassembling, that's what it is. :)

Step 7



- Remove the following 10 screws from the bottom case:
 - Three 1.7 mm Phillips from the front edge of the battery compartment.
 - One 3.9 mm T8 Torx to the right of the memory card.
 - One 6.9 mm T8 Torx at the left edge of the memory compartment.
 - Three 12.4 mm fully threaded Phillips from the center of the row of screws along the back edge of the case.
 - Two 15.1 mm 2.5 mm threaded Phillips, one from either end of the row of screws along the back edge of the case.

Step 8



- Turn the computer over and rotate it so that the DVI port faces you.
- Remove the four identical Phillips screws spread along this edge of the case.

Step 9



- Turn the computer 180 degrees so that the power receptacle faces you, and remove the four Phillips screws (identical to those in the last step).

Step 10



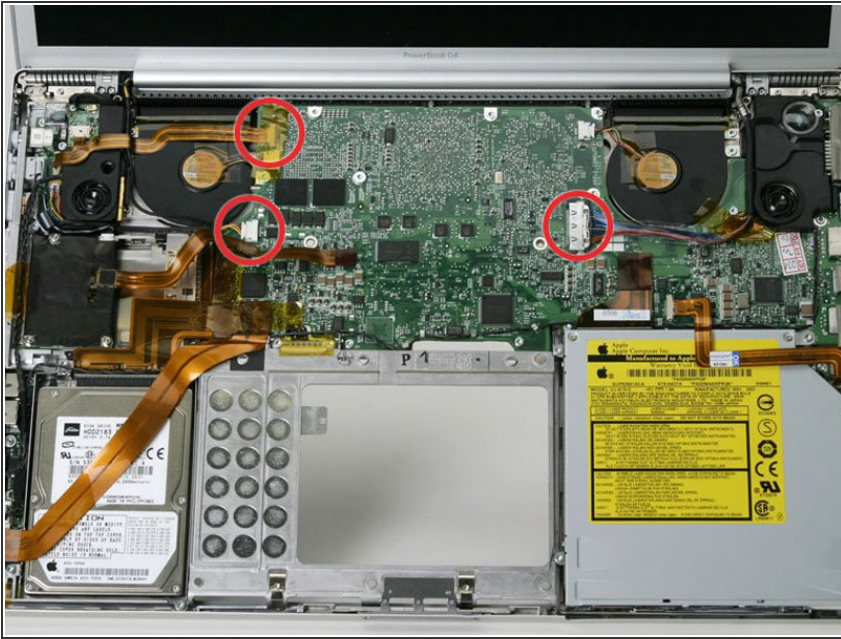
- Open the computer and turn it so that the screen faces you.
- Pull the upper case off, lifting from the back, and working around the edges.

Step 11



- Use a spudger to loosen the casing if it sticks.
- Once the casing is entirely free, lift it off of the computer.

Step 12 — Display



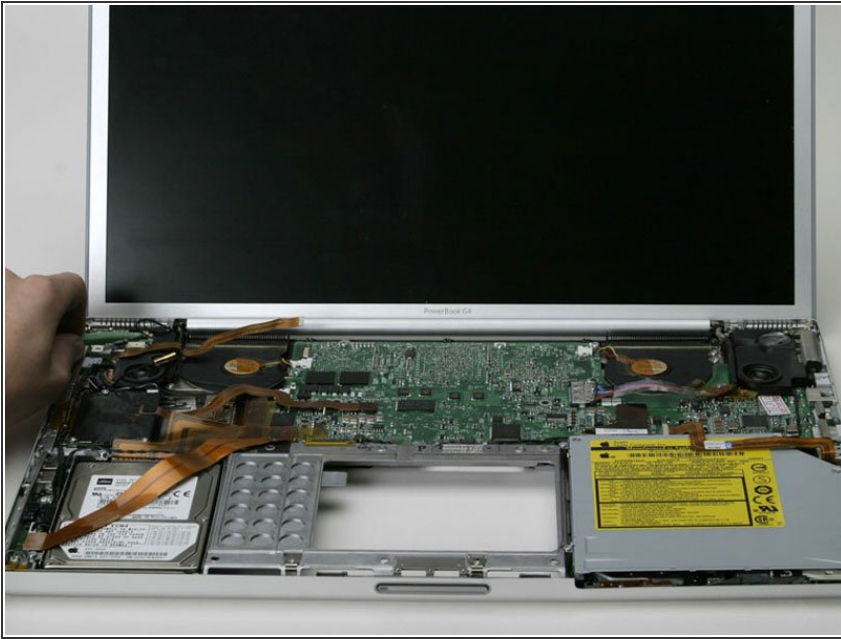
- **i** If you are ultimately removing the heat sink & fan assembly, your computer will differ from the images in this section.
- Disconnect the inverter cable, the Bluetooth/DC-In cable, and the display data cable from the logic board.

Step 13



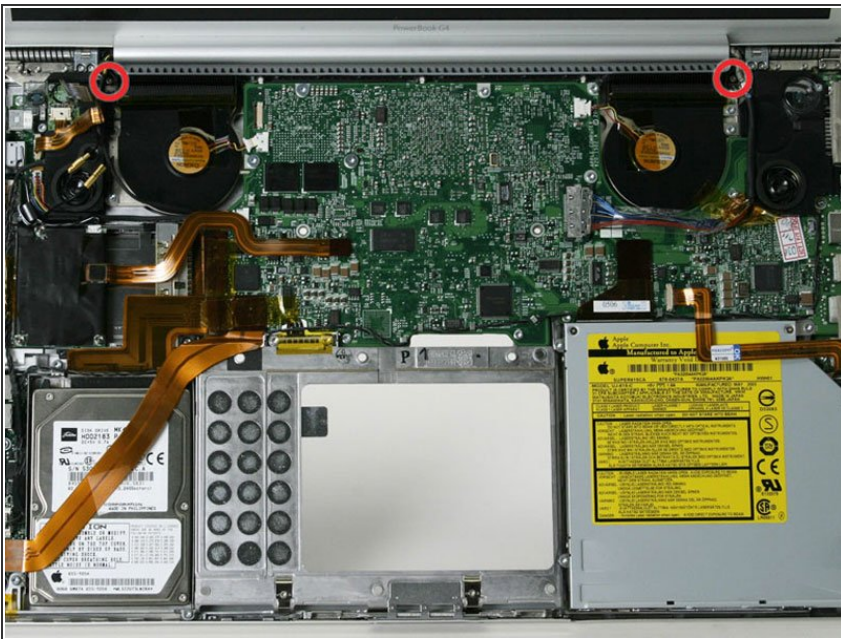
- Disconnect the Airport antenna cable at the gold connector, making sure you pull only on the gold metal portion of the connector.

Step 14



- Disconnect the Bluetooth antenna cable from the Bluetooth board.

Step 15



- Remove one T6 Torx screw from the upper, left corner of the left fan, and one from the upper, right corner of the right fan (2 screws total).

Step 16



- From each complete hinge assembly, remove two Torx T6 screws from the outside of each set, leaving two remaining in the middle of each hinge. On each side, the two screws closer to the edge of the computer are shorter than the two screws closer to the center of the computer. Then remove the two inner screws from each hinge assembly. There are 8 screws total.

Step 17



- Lift the screen assembly away from the computer.

Step 18



- When reassembling the display, check to see that the hinges are seated properly before reinstalling the 8 screws of the two hinges. There is a metal phalange on the inside end of each hinge assembly that must be pointed downward and fit into a slot below the inside edge of the hinge. If not, the inside end of each hinge will sit too high and the plastic retaining bracket for the wiring will not sit down properly.

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