

INTRODUCTION

Use this guide to replace the short optical drive ribbon cable connecting the optical drive to the logic board.

TOOLS:

- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)
- [Tri-point Y0 Screwdriver](#) (1)

PARTS:

- [MacBook Pro 15" Unibody \(Mid 2009/Mid 2012\) SATA SuperDrive Cable](#) (1)

Step 1 — Lower Case



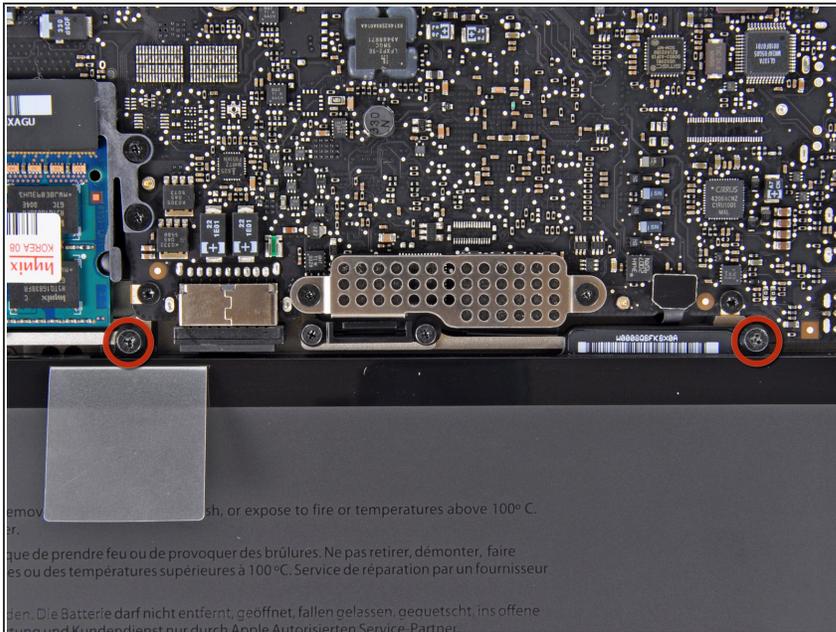
- Remove the following ten screws securing the lower case to the upper case:
 - Three 13.5 mm (14.1 mm) Phillips screws.
 - Seven 3 mm Phillips screws.
- ☑ When removing these screws, note how they come out at a slight angle. They must be reinstalled the same way.

Step 2



- Using both hands, lift the lower case near the vent to pop it off two clips securing it to the upper case.
- Remove the lower case and set it aside.

Step 3 — Battery



- Remove the two 7.4 mm Tri-point screws securing the battery to the upper case.
 - Note: For certain repairs (e.g. hard drive), removing the battery is not necessary but it prevents any accidental shorting of electronics on the motherboard. If you do not remove the battery, please be careful as parts of the motherboard might be electrified.
- i** You do not necessarily have to follow steps 3-6 to remove the battery in order to replace the hard drive. However it is recommended to remove all power sources from electronics before working on them.

Step 4



- Use the tip of your finger to carefully peel back the corner of the warning label to reveal a hidden Tri-point screw.
- Remove the last 7.4 mm Tri-point screw securing the battery to the upper case.

Step 5



- Lift the battery by its plastic pull tab and slide it away from the long edge of the upper case.

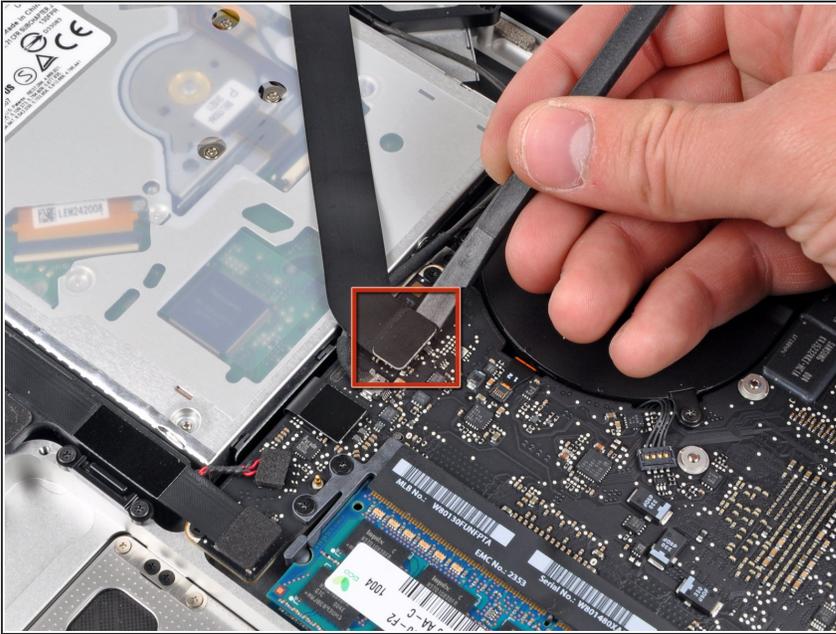
⚠ Do not try to completely remove the battery just yet.

Step 6



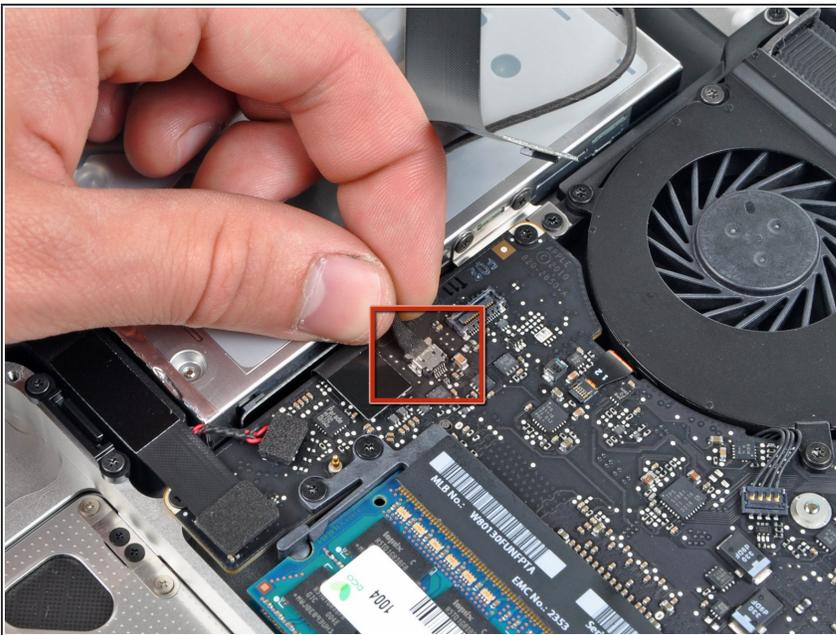
- Tilt the battery away from the logic board enough to access the battery cable connector.
- Pull the battery cable connector away from its socket on the logic board and remove the battery from the upper case.
- ⓘ Pull the battery cable connector away from the center of the logic board.
- ★ If you're installing a new battery, you should [calibrate](#) it after installation:
 - Charge it to 100%, and then keep charging it for at least 2 more hours. Next, unplug and use it normally to drain the battery. When you see the low battery warning, save your work, and keep your laptop on until it goes to sleep due to low battery. Wait at least 5 hours, then charge your laptop uninterrupted to 100%.
 - If you notice any unusual behavior or problems after installing your new battery, you may need to [reset your MacBook's SMC](#).

Step 7 — Optical Drive



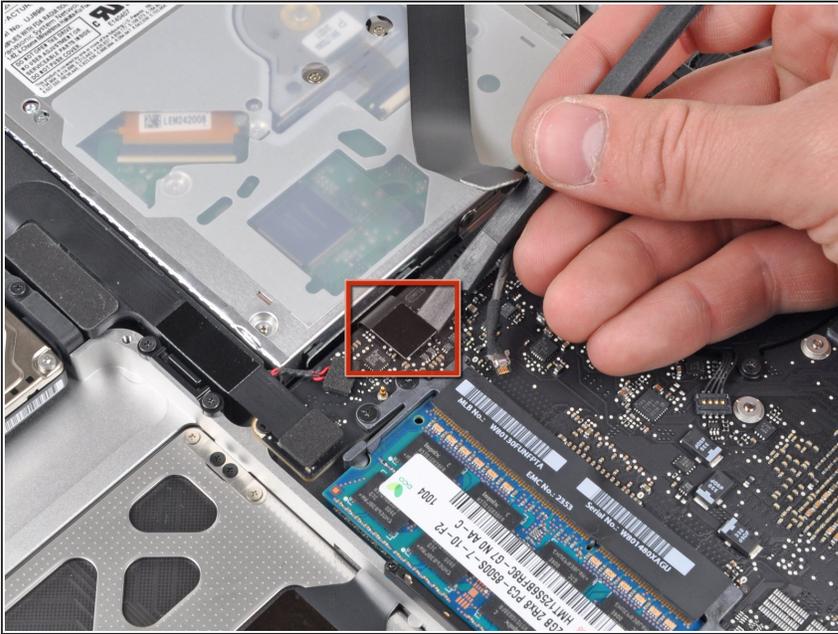
- Use the flat end of a spudger to pry the AirPort/Bluetooth ribbon cable connector up off the logic board.

Step 8



- Disconnect the camera cable by pulling its connector away from the socket (toward the optical drive) on the logic board.

Step 9



- Use the flat end of a spudger to pry the optical drive connector up off the logic board.

Step 10



- Remove the two Phillips screws securing the AirPort/Bluetooth board housing.
- Carefully rotate the AirPort/Bluetooth board housing (with AirPort/Antenna cables still attached) out of the lower case.

Step 11



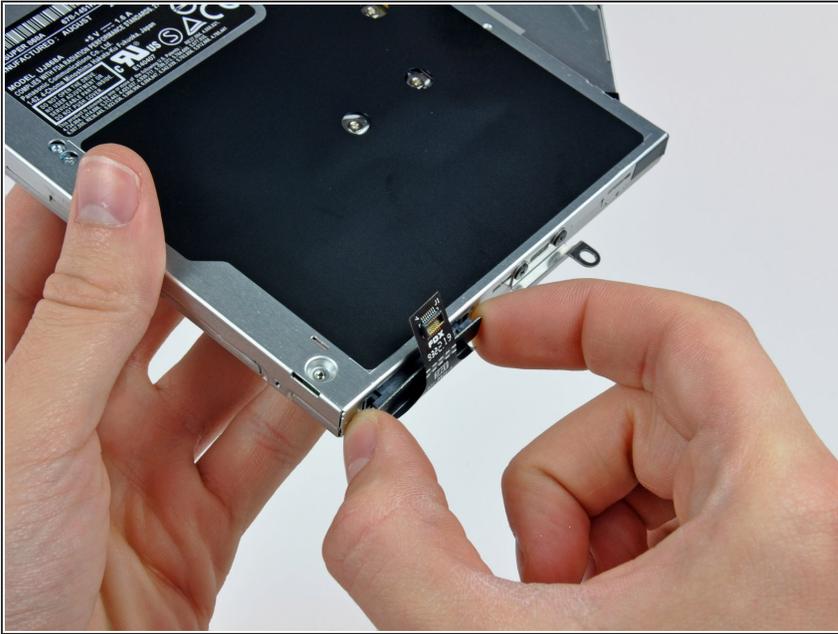
- Remove the following three Phillips screws securing the optical drive to the upper case:
 - One 4.5 mm Phillips screw securing the optical drive bracket to the upper case near the fan.
 - Two 2.5 mm Phillips screws securing the optical drive to the upper case near the optical drive opening.

Step 12



- Lift the optical drive near its connector and pull it away from the upper case to remove it from the computer.

Step 13 — Optical Drive Cable



- Pull the optical drive cable out of the optical drive.

⚠ Be sure to pull by the edges of the connector, not by the cable itself.

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