



MacBook Pro 13" Unibody Early 2011 Logic Board Replacement

Internal Prerequisite.

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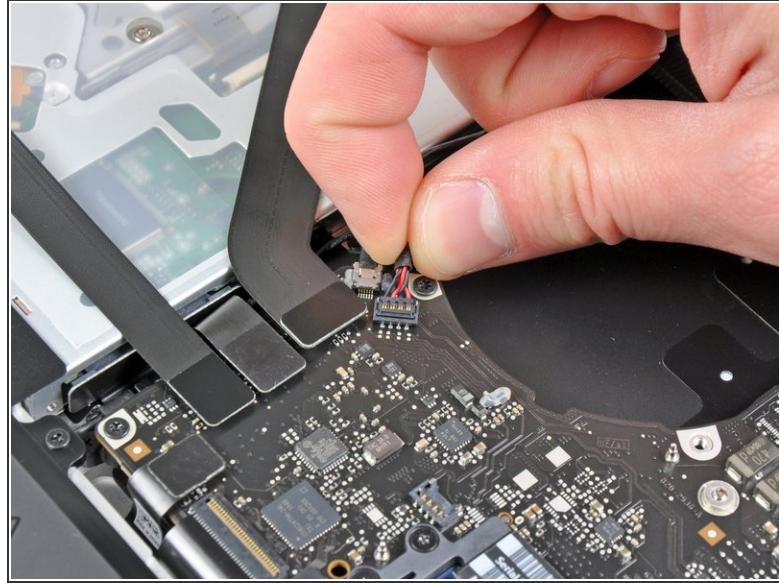
INTRODUCTION

Internal Prerequisite.

TOOLS:

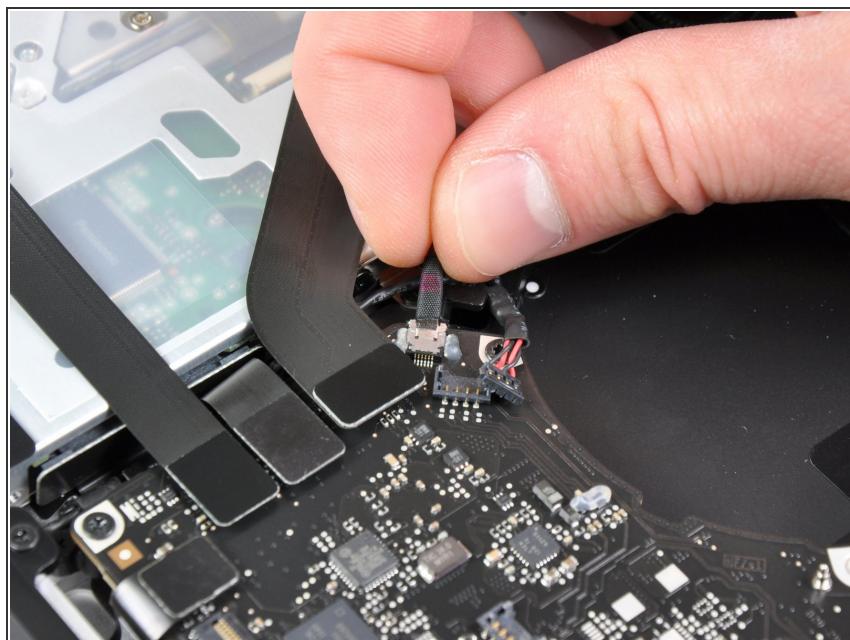
- [Spudger](#) (1)
- [T6 Torx Screwdriver](#) (1)
- [Phillips #00 Screwdriver](#) (1)

Step 1 — Logic Board



- Use the tip of a spudger to pull the right speaker/subwoofer cable out from under the retaining finger molded into the upper case.
- Pull the right speaker/subwoofer cable upward to lift the connector out of its socket on the logic board.

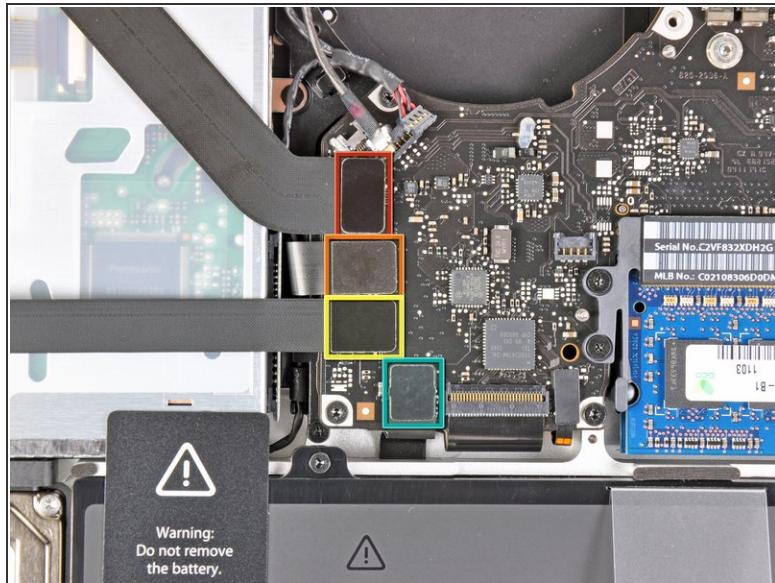
Step 2



- Disconnect the camera cable from the logic board.

⚠ Pull the cable parallel to the face of the logic board. Pulling the cable upward may damage the logic board or the cable itself.

Step 3



- Disconnect the following four cables:
 - AirPort/Bluetooth cable
 - Optical drive cable
 - Hard drive cable
 - Trackpad cable

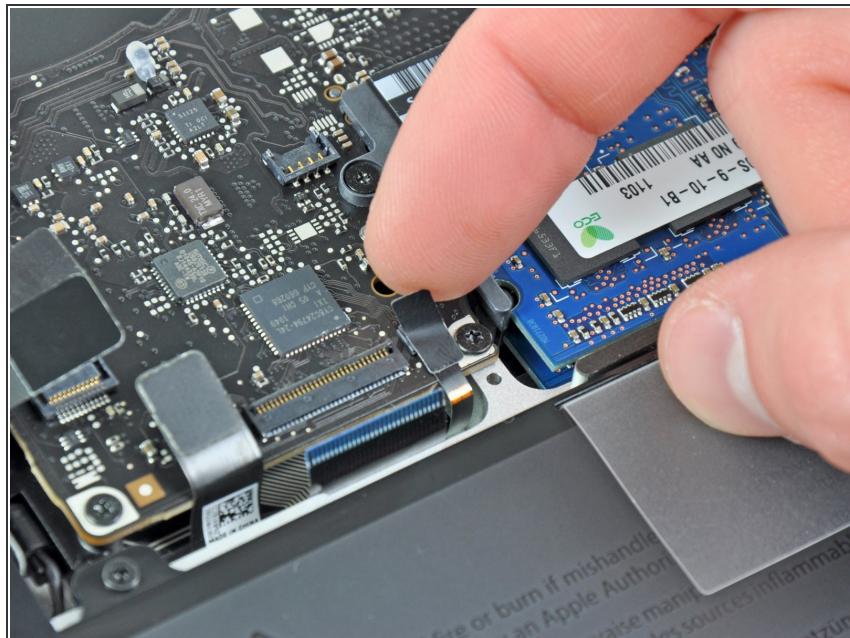
i To disconnect the cables, use the flat end of a spudger to pry their connectors up from the sockets on the logic board.

Step 4



- Use your fingernail to flip up the retaining flap on the keyboard ribbon cable ZIF socket.
- ⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.
- Use the tip of a spudger to pull the keyboard ribbon cable out of its socket.
- ★ The cable may be difficult to insert. If you are having trouble, temporarily attach a piece of tape to the cable to help you guide the cable into the socket.

Step 5



- If present, remove the small strip of black tape covering the keyboard backlight cable socket.

Step 6



- Use the tip of a spudger or your fingernail to flip up the retaining flap on the keyboard backlight ribbon cable ZIF socket.

⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.

- Pull the keyboard backlight ribbon cable out of its socket.

Step 7



- Use the flat end of a spudger to pry the sleep sensor/battery indicator connector up from its socket on the logic board.

Step 8



- Grab the plastic pull tab secured to the display data cable lock and rotate it toward the DC-In side of the computer.
- Pull the display data cable straight out of its socket on the logic board.

⚠ Do not lift up on the display data cable, as its socket is very fragile. Pull the cable parallel to the face of the logic board.

Step 9

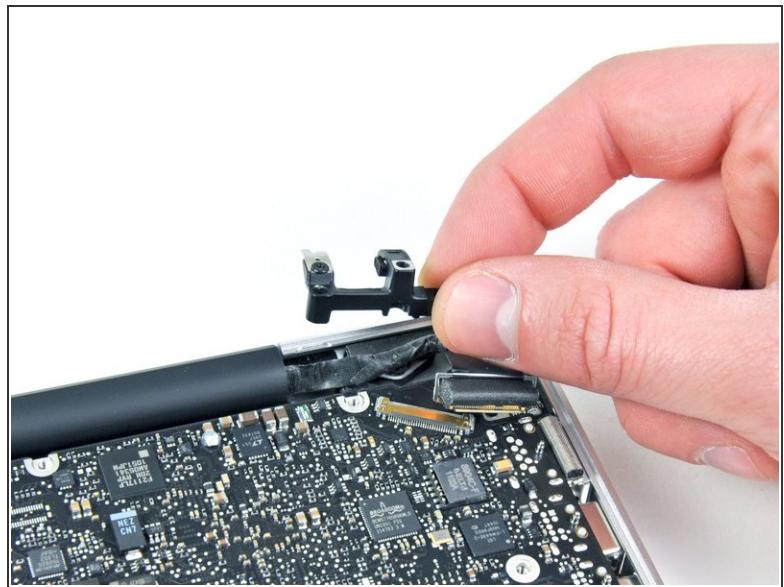
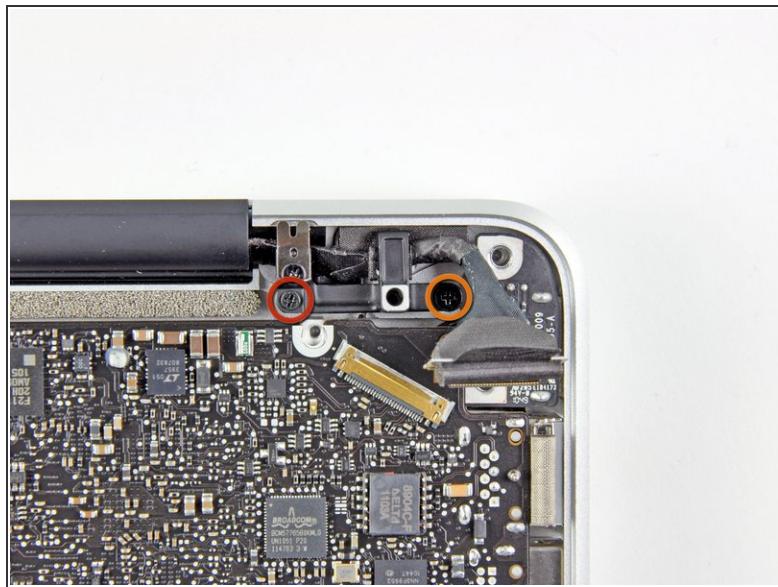


- Remove the following nine screws:
 - Five 3.6 mm T6 Torx screws
 - Two 4.3 mm T6 Torx screws
 - Two 7.2 mm T6 Torx screws

i In some models the screws may be slightly shorter as follows:

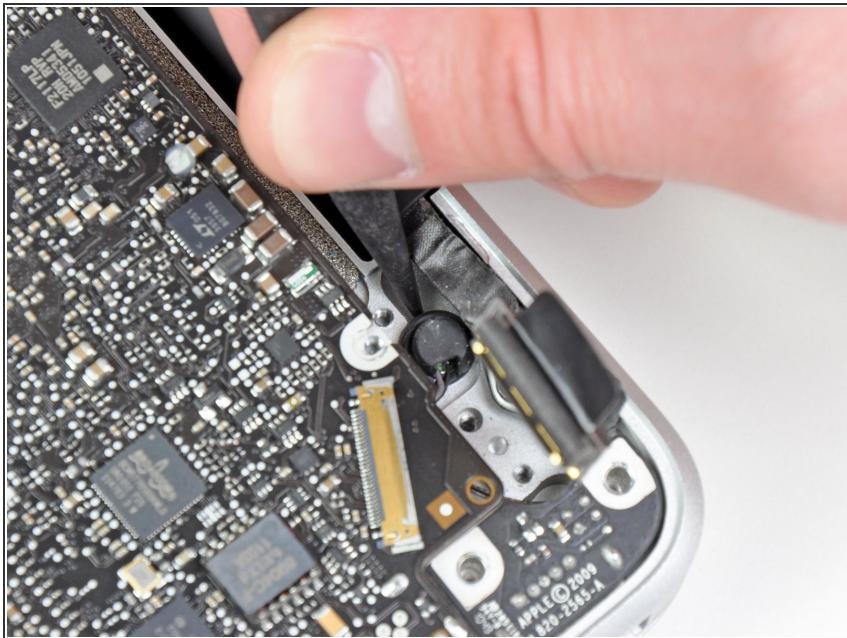
- Five 3.0 mm T6 screws
- Two 3.6 mm T6 screws
- Two 6.7 mm T6 screws

Step 10



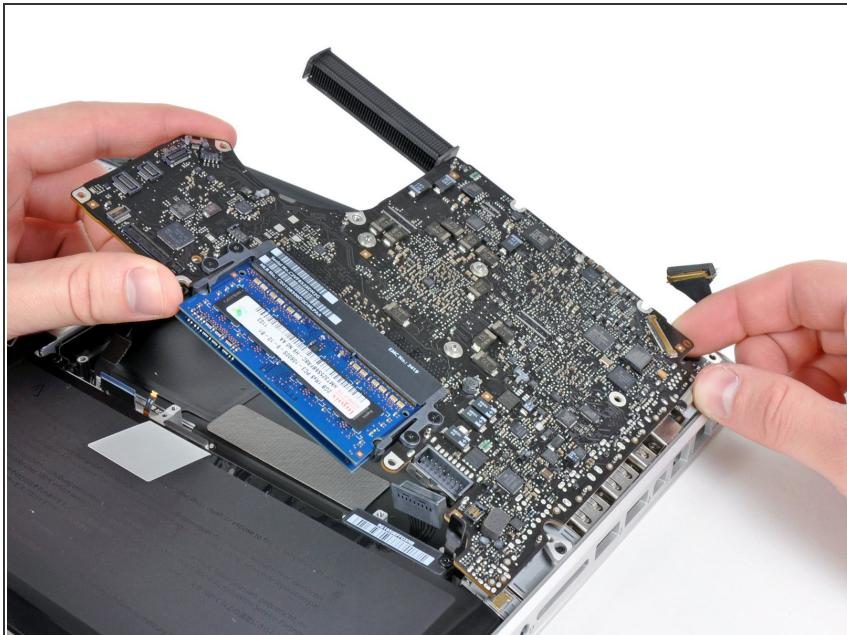
- Remove the following two screws:
 - One 8.6 mm Phillips screw
 - One 5.5 mm Phillips screw
- Remove the display data cable retainer from the upper case.

Step 11



- Use the tip of a spudger to gently peel the microphone off the adhesive securing it to the upper case.

Step 12



- Minding the many connectors near its edges, lift the logic board from the end nearest the optical drive.
- Without flexing the board, maneuver it out of the upper case, minding the flexible connection to the DC-In board that may get caught in the upper case.
- Remove the logic board.

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