



MacBook Pro 15" Unibody Mid 2010 Display Replacement

Replace a broken display assembly on your Mid 2010 MacBook Pro 15" Unibody.

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INTRODUCTION

Replacing a broken display assembly gives you a new LCD, front glass, display enclosure, iSight camera, and new AirPort antennas.

TOOLS:

- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)
- [T6 Torx Screwdriver](#) (1)
- [Tri-point Y0 Screwdriver](#) (1)

PARTS:

- [MacBook Pro 15" Unibody \(Mid 2010\) Display Assembly](#) (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.

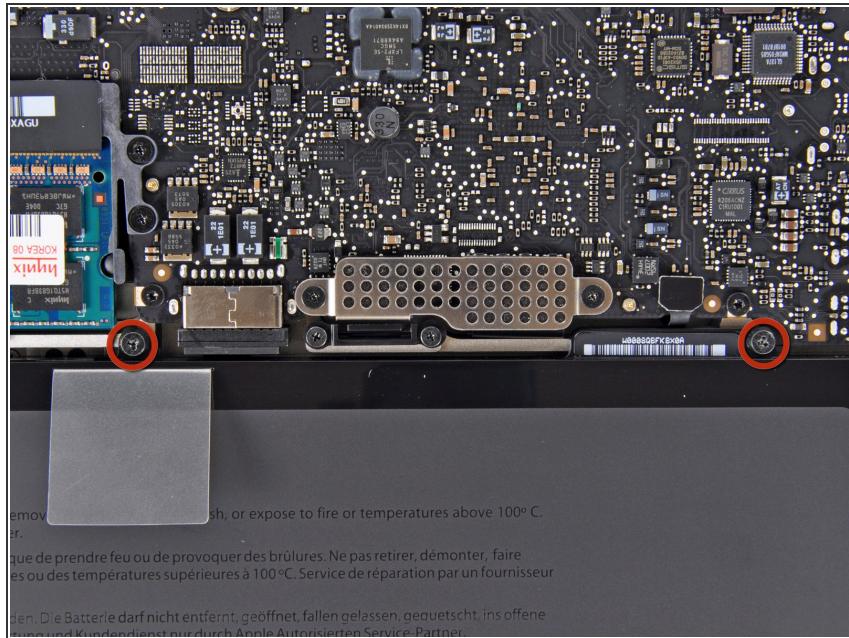
 When removing these screws, note how they come out at a slight angle. They must be reinstalled the same way.

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.

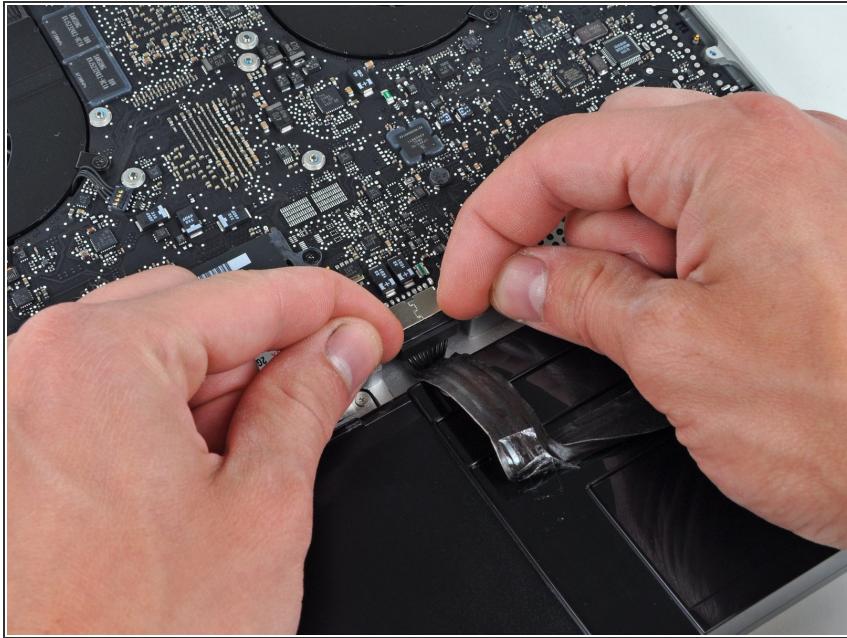
Step 5



- 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.

i 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:

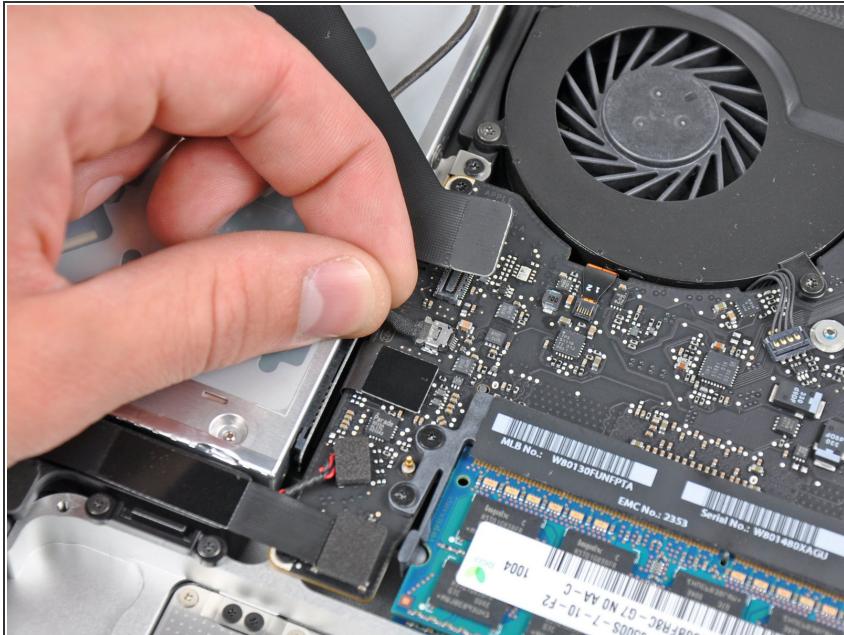
- Charge it to 100%, and then keep charging it for at least 2 more hours. Next, unplug and use it normally to drain the battery. When you see the low battery warning, save your work, and keep your laptop on until it goes to sleep due to low battery. Wait at least 5 hours, then charge your laptop uninterrupted 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 — Display



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

Step 8



- Pull the camera cable connector straight out of its socket on the logic board.
- *i* Pull the cable parallel to the face of the logic board toward the optical drive opening.

Step 9



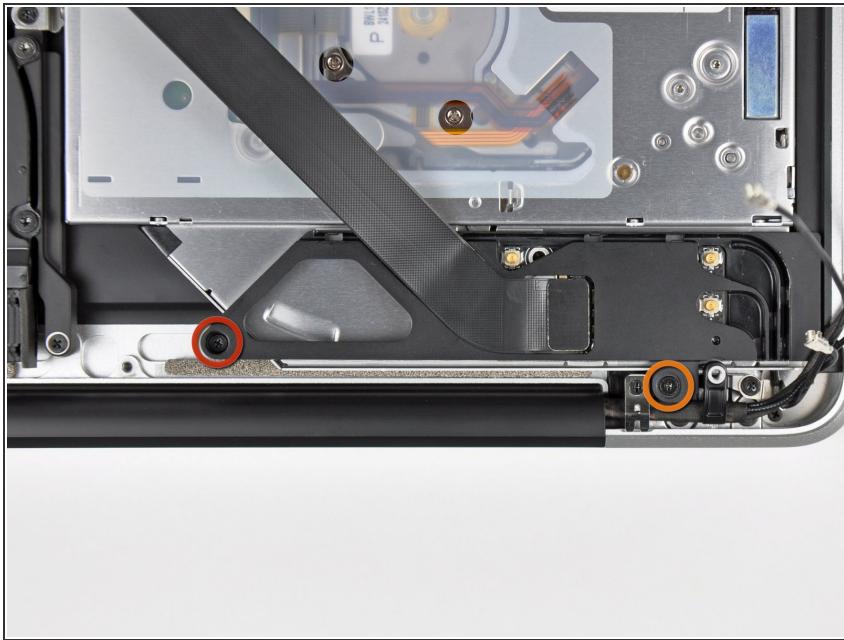
- Use the tip of a spudger to pry the three antenna connectors up off the AirPort/Bluetooth board.

Step 10



- De-route all three antenna cables from their channels in the AirPort/Bluetooth housing.
- De-route the camera cable from its channel in the AirPort/Bluetooth housing.

Step 11



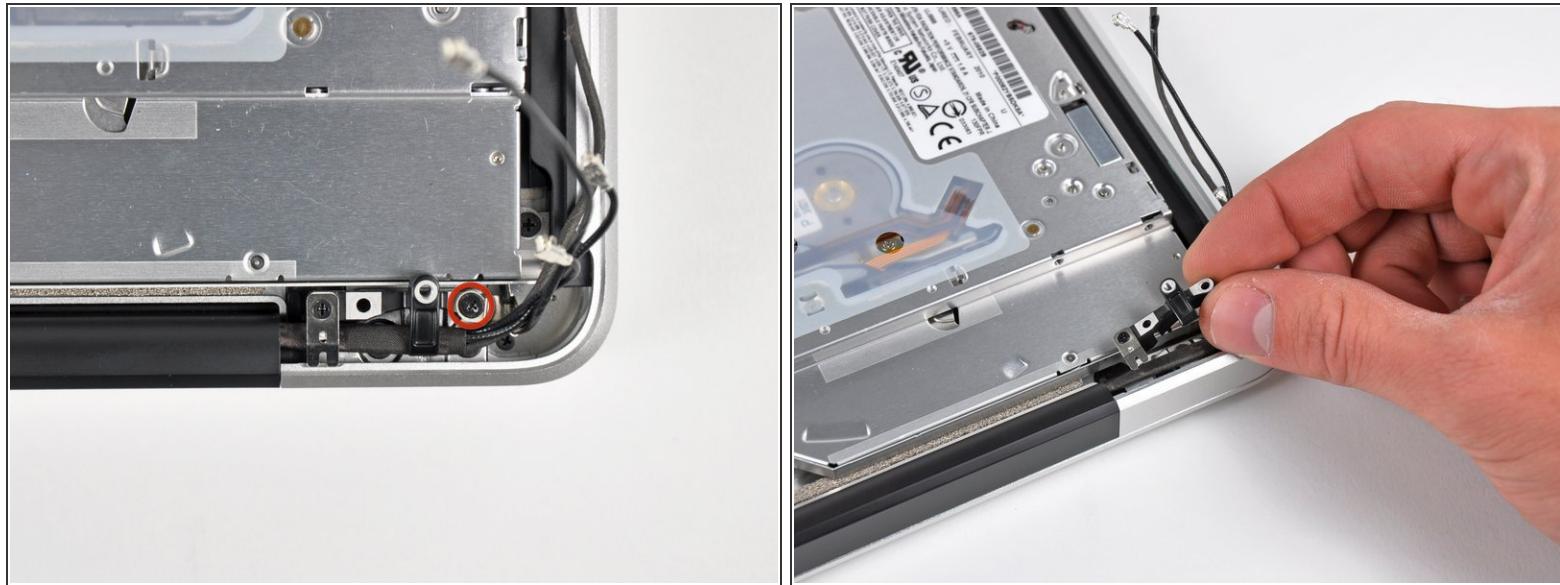
- Remove the following two screws securing the AirPort/Bluetooth housing to the upper case:
 - One 3.8 mm Phillips
 - One 8.6 mm Phillips

Step 12



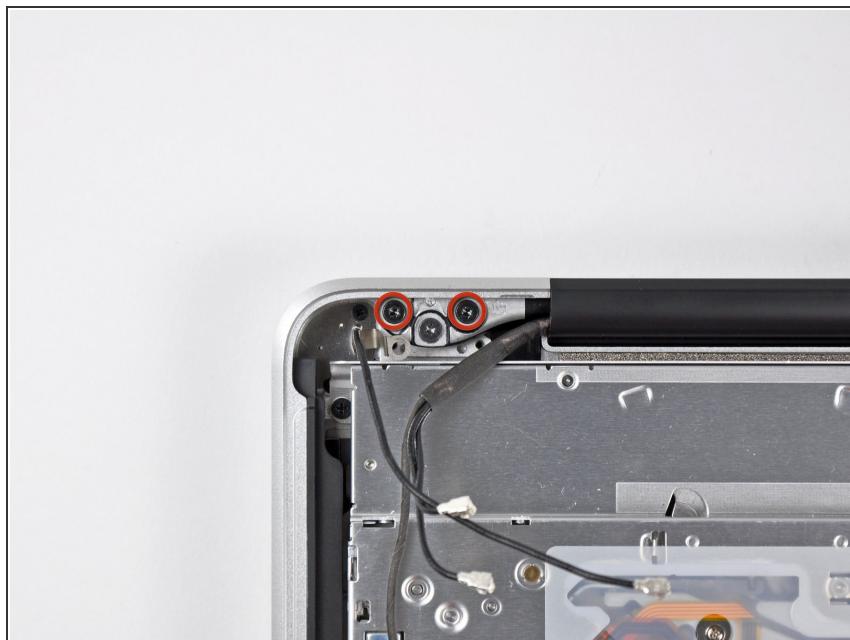
- Remove the AirPort/Bluetooth assembly from the upper case, minding any cables that may get caught.

Step 13



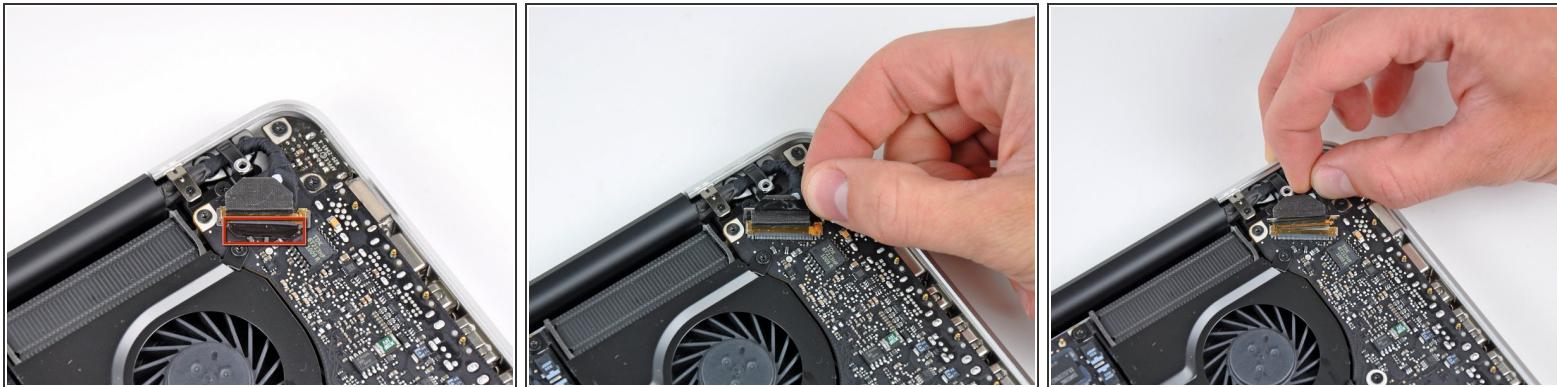
- Remove the 8.6 mm Phillips screw securing the antenna/camera cable retainer to the upper case.
- Remove the antenna/camera cable retainer from the upper case.

Step 14



- Remove two of the three 6 mm T6 Torx screws securing the right side of the display to the upper case.
- *(i)* We purposely have you leave one screw attaching the display to the upper case to aid in future steps.

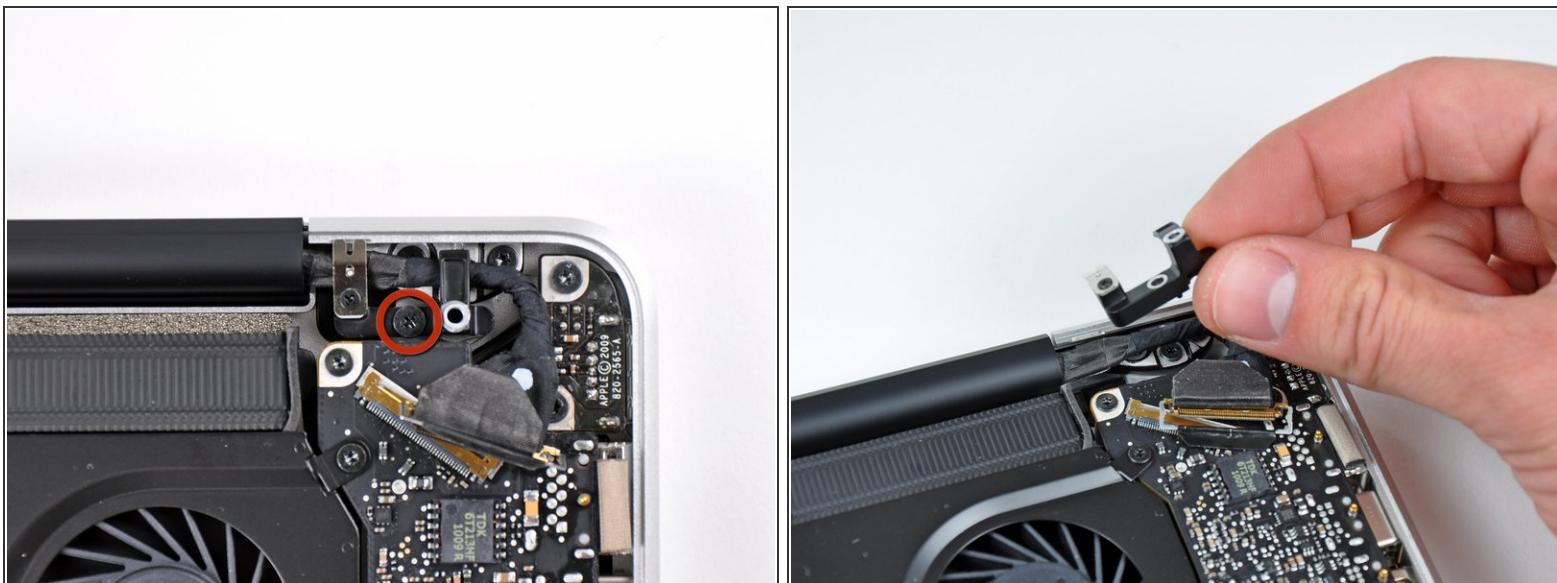
Step 15



- 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.

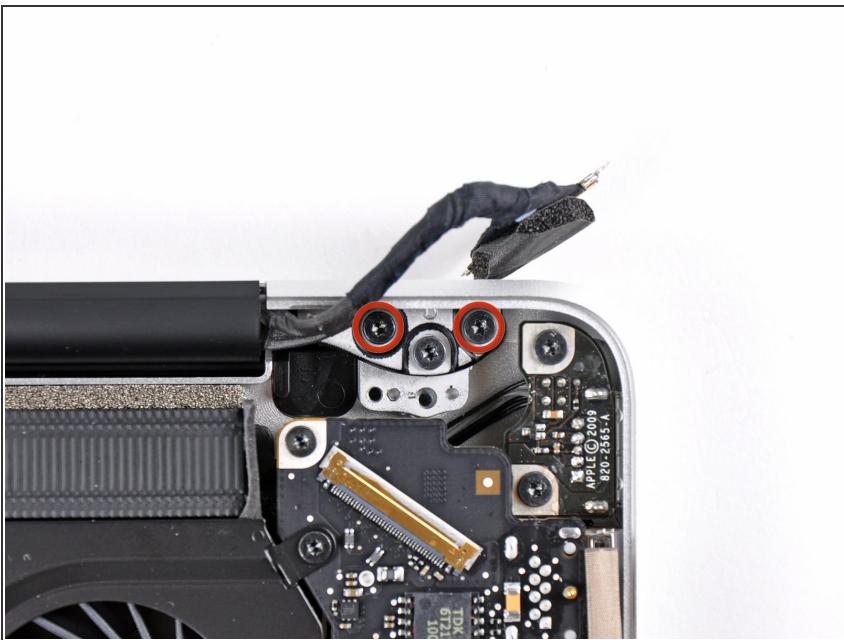
⚠ Do not lift up on the display data cable, as its socket is very fragile. Pull the cable parallel to the face of the logic board.

Step 16



- Remove the 8.6 mm Phillips screw securing the display data cable retainer to the upper case.
- Remove the display data cable retainer from the upper case.

Step 17



- Remove two of the three 6 mm T6 Torx screws securing the left side of the display to the upper case.
- *(i)* We purposely have you leave one screw attaching the display to the upper case to aid in future steps.

Step 18



- Open your MacBook Pro so the display is perpendicular to the upper case.
- Place your opened MacBook Pro on a table as pictured.
- While holding the display and upper case together with your left hand, remove the remaining T6 Torx screw from the upper display bracket.

Step 19



⚠ Be sure to hold the display and upper case together with your left hand. Failure to do so may cause the freed display/upper case to fall, potentially damaging each component.

- Remove the last remaining T6 Torx screw securing the display to the upper case.

Step 20



- Grab the upper case with your right hand and rotate it slightly toward the top of the display so the upper display bracket clears the edge of the upper case.
- Rotate the display slightly away from the upper case.
- Lift the display up and away from the upper case, minding any brackets or cables that may get caught.

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

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