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Page 1 of 6

# INTRODUCTION

Use this guide to replace a worn-out battery. If your battery is swollen, [take appropriate precautions](#).

[video: <http://www.youtube.com/watch?v=ZJvOoSKIPfM>]



## TOOLS:

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



## PARTS:

- [MacBook Pro 13" Unibody \(Mid 2009 to Mid 2012\) Replacement Battery](#) (1)

## Step 1 — Lower Case



- Remove the following ten screws:
  - Three 14.4 mm Phillips #00 screws
  - Three 3.5 mm Phillips #00 screws
  - Four 3.5 mm shouldered Phillips #00 screws
- ⓘ When replacing the small screws, align them perpendicular to the slight curvature of the case (they don't go straight down).

## Step 2



- Use your fingers to pry the lower case away from the body of the MacBook near the vent.
- Remove the lower case.



## Step 3 — Battery Connection



- Use the edge of a spudger to pry the battery connector upwards from its socket on the logic board.
- ❗ It is useful to pry upward on both short sides of the connector to "walk" it out of its socket. Be careful with the corners of the connectors, they can be easily broken off.

## Step 4



- Bend the battery cable slightly away from its socket on the logic board so it does not accidentally connect itself while you work.

## Step 5 — Battery



- Remove the following two screws:
  - One 5.6 mm Tri-point screw
  - One 13 mm Tri-point screw

## Step 6

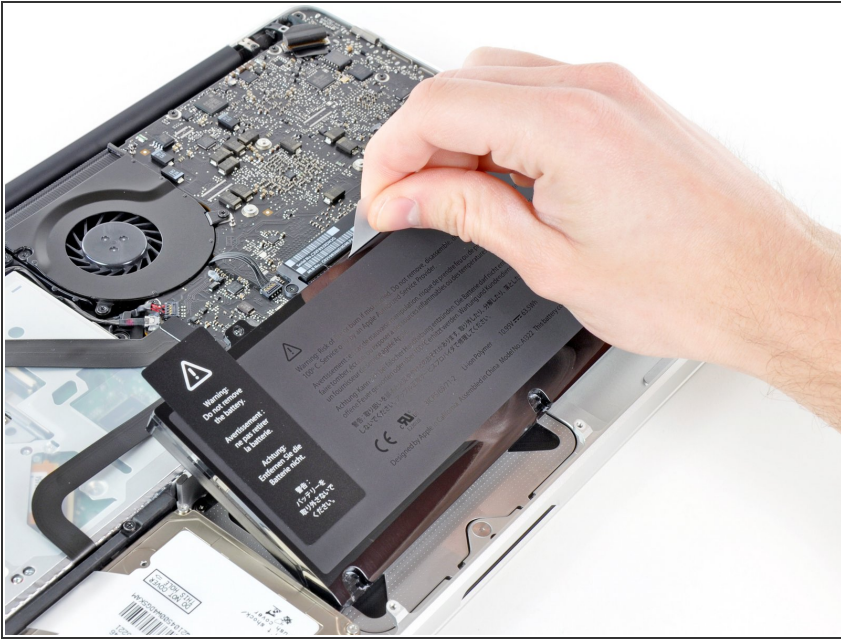


- Carefully peel the battery warning label off the upper case between the battery and the optical drive.

**⚠ Do not remove the label from the battery.**



## Step 7



- Use the attached plastic pull tab to remove the battery from the upper case.
- ☑ 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](#).

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

Take your e-waste to an [R2 or e-Stewards certified recycler](#).