



# Installing MacBook Pro 17" Models A1151 A1212 A1229 and A1261 Keyboard

Author: iRobot

## Tools used in this guide

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

## Parts relevant to this guide

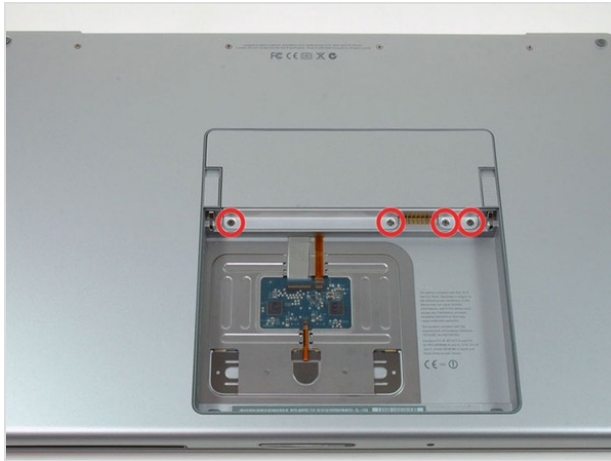
- [MacBook Pro 17" \(Model A1151\) Keyboard](#) (1)
- [MacBook Pro 17" \(Model A1212\) Keyboard](#) (1)
- [MacBook Pro 17" \(Model A1229\) Keyboard](#) (1)
- [MacBook Pro 17" \(Model A1261\) Keyboard](#) (1)

This guide shows the hidden screws you must remove when replacing the keyboard.



## Step 1 — Battery

- Use your fingers to push both battery release tabs away from the battery and lift the battery out of the computer.



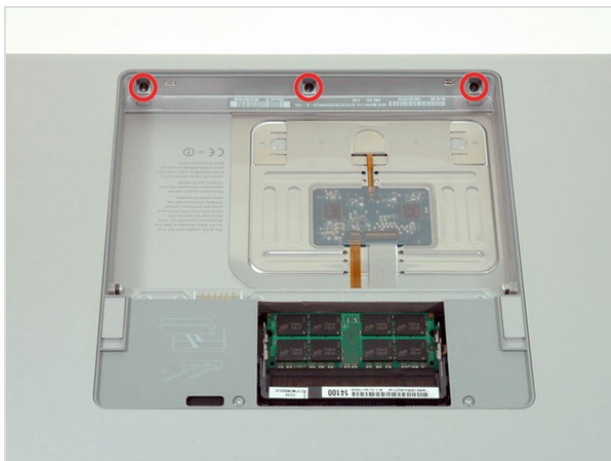
## Step 2 — RAM Shield

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



## Step 3

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



## Step 4 — Upper Case

- Remove the three Phillips screws in the battery compartment near the latch. Apple was nice enough to tilt these screws at a slight angle to make them easier to remove.



## Step 5

- Remove the following six screws:
  - Two T6 Torx screws on either side of the RAM slot.
  - Four Phillips screws along the hinge.



## Step 6

- Remove the four Phillips screws on the port side of the computer.



## Step 7

- Rotate the computer 90 degrees and remove the two Phillips screws from the rear of the computer.




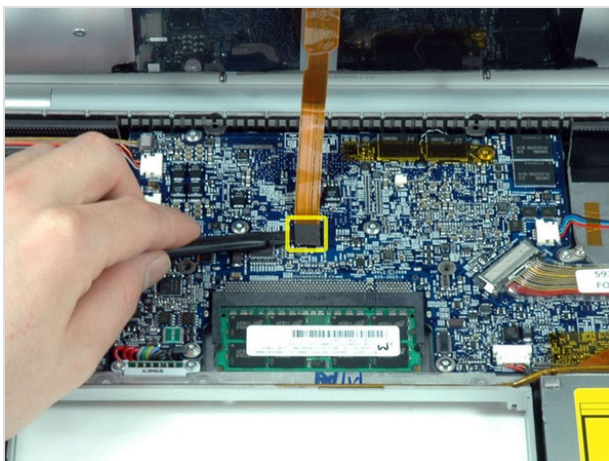
## Step 8

- Rotate the computer 90 degrees again and remove the four Phillips screws from the side of the computer.



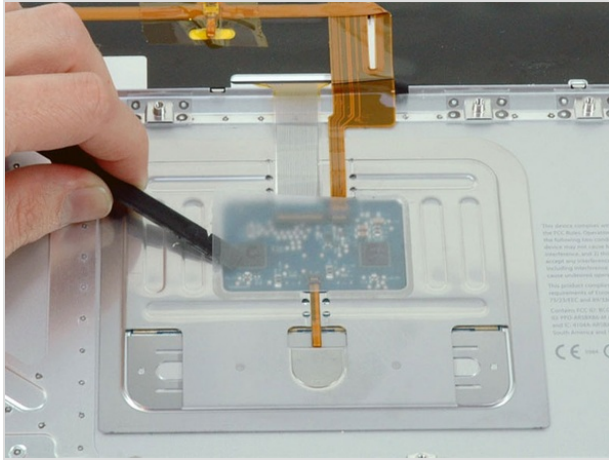
## Step 9

- Do not yank the upper case off quickly. The case is attached to the logic board via a ribbon cable. 
- Lift up the back of the case and work your fingers along the sides, freeing the case as you go. Once you have freed the sides, you may need to rock the case up and down to free the front of the upper case.



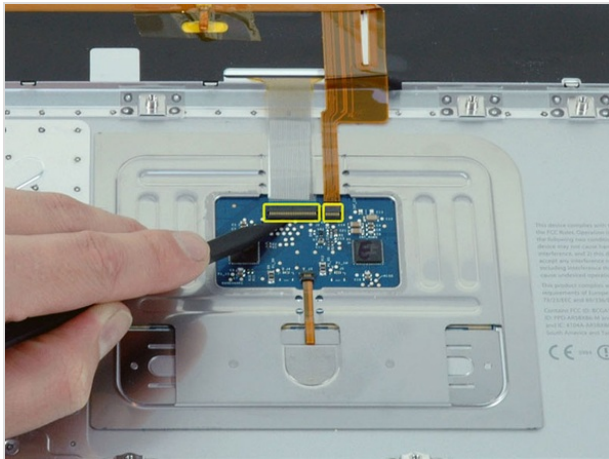
## Step 10

- Disconnect the trackpad and keyboard ribbon cable from the logic board.
- Remove the upper case.



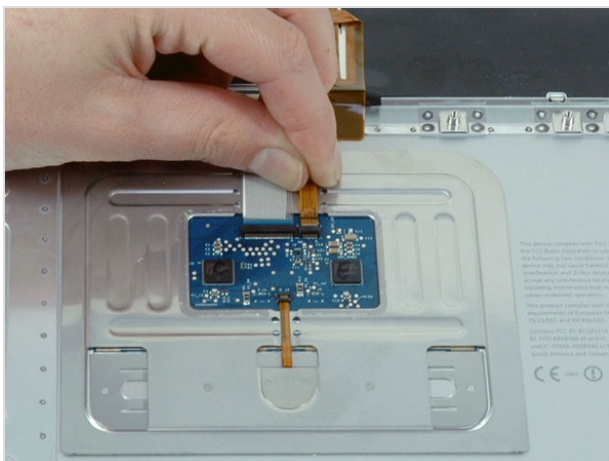
## Step 11 — Keyboard

- Use a spudger to pry up the translucent plastic sheath covering the keyboard connector.



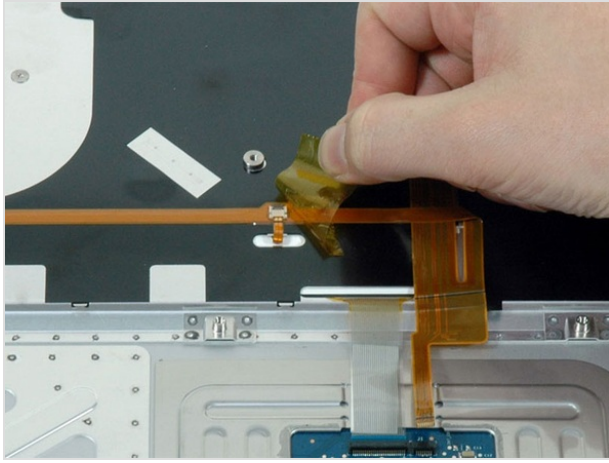
## Step 12

- Use the tip of a spudger to flip up the black plastic flaps locking down the keyboard and keyboard backlight ribbon cables.



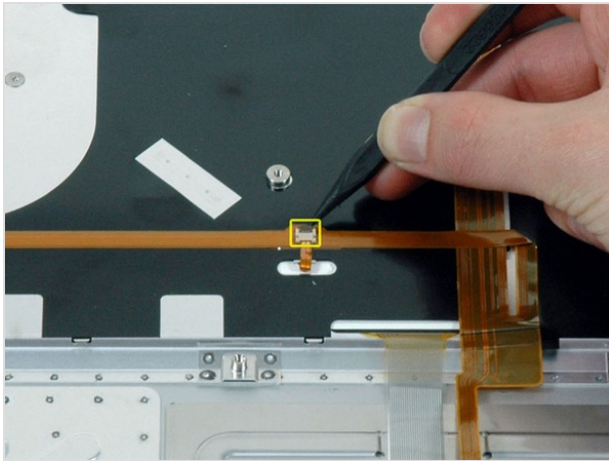
## Step 13

- Slide the orange keyboard backlight ribbon out of its connector.



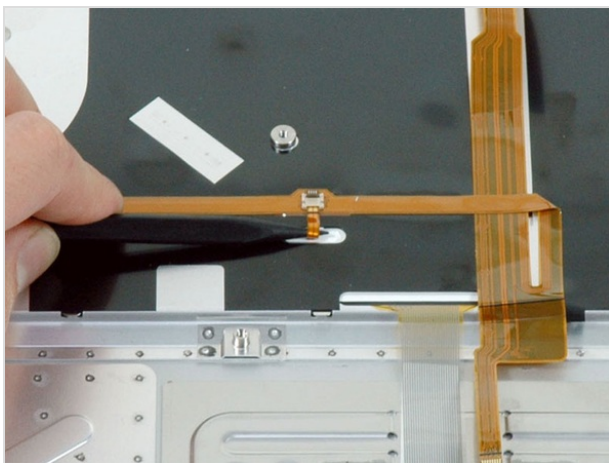
**Step 14**

- Peel up the orange tape covering the keyboard backlight connector.



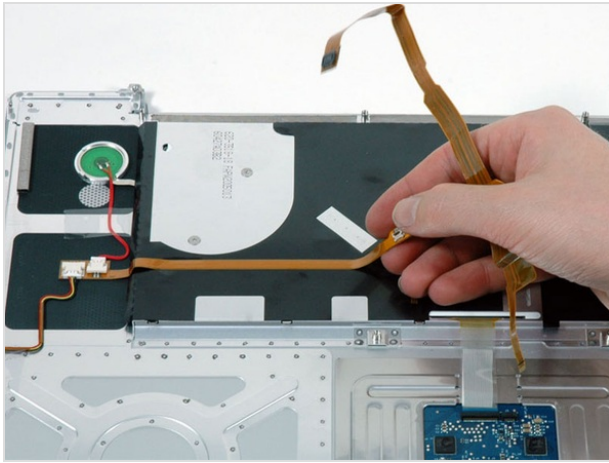
**Step 15**

- Use the tip of a spudger to flip up the brown plastic flap locking down the keyboard backlight ribbon cable.



**Step 16**

- Use a spudger or your finger to slide the keyboard backlight ribbon out of its connector.



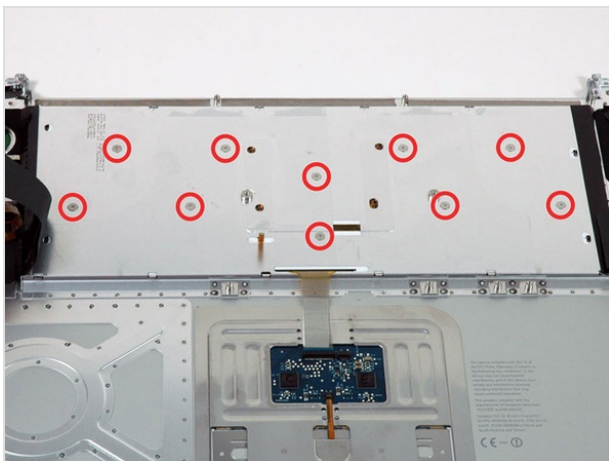
### Step 17

- Carefully peel up the orange ribbon cable which carries the power and sleep signals.



### Step 18

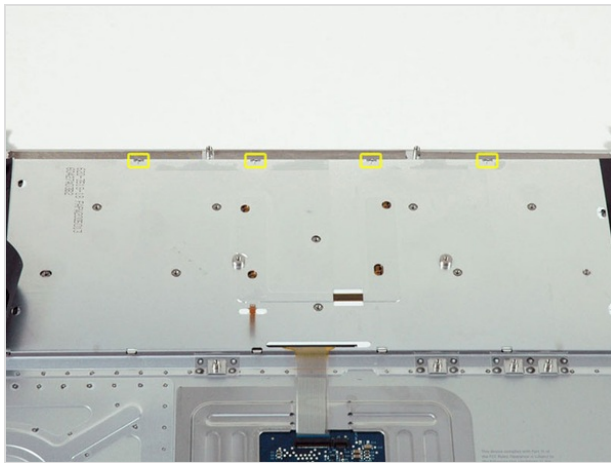
- Peel up the two black protective sheaths on the bottom of the keyboard. It is not necessary to fully remove these, but only to peel them back enough to access the screws beneath.



### Step 19

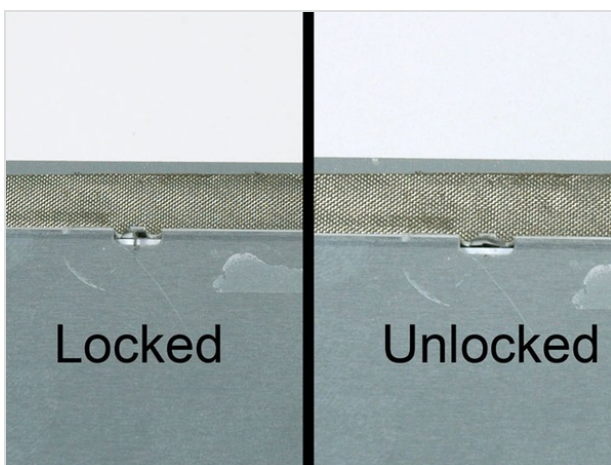
- Remove the ten identical Phillips screws attaching the keyboard to the casing.
- The keyboard on A1261 models is secured with twelve screws. Their locations are shown in the second picture.





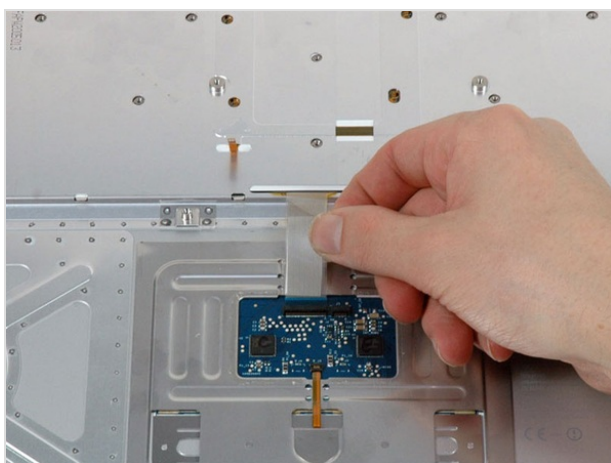
## Step 20

- There are four locking tabs along the back edge of the keyboard holding it in place. These tabs must be straightened before you can remove the keyboard.
- The keyboard on A1261 models has five locking tabs. Their locations are shown in the second picture.



## Step 21

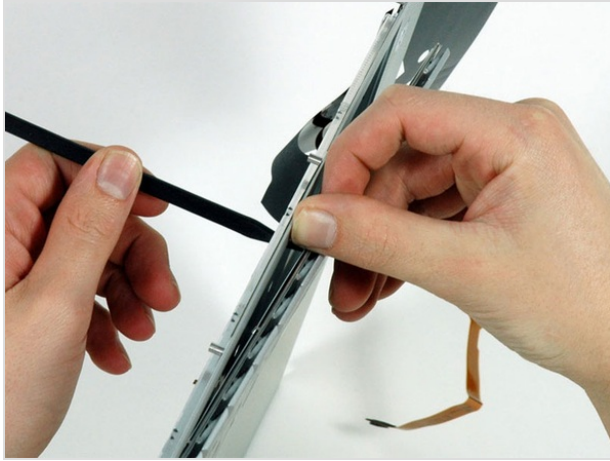
- The first frame shows a tab in the "locked" position and the second frame shows the same tab in the "unlocked" position.
- Use needlenose pliers or a spudger to bend each of the four tabs so that they are all in the "unlocked" position.



## Step 22

- Slide the keyboard ribbon out of its connector.
- If the keyboard ribbon won't slide out, make sure that the black plastic flap holding the ribbon in place is vertical.





## Step 23

- Place the upper casing on its edge and use a spudger to push the keyboard away from the casing, poking the spudger through the central keyboard screw hole. Grasp the keyboard as it separates from the casing.



## Step 24

- Maintaining your hold on the keyboard, lay the casing flat and gently bow the keyboard until the two tabs on either side of the keyboard come free.
- Slide the keyboard away from the trackpad and out of the upper case.

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

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