



Battery Disconnect

Prerequisite-only guide to safely disconnect...

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INTRODUCTION

Prerequisite-only guide to safely disconnect the battery before undertaking a repair.

TOOLS:

[Suction Handle](#) (1)

[iFixit Opening Picks \(Set of 6\)](#) (1)

[P5 Pentalobe Screwdriver Retina MacBook Pro and Air](#) (1)

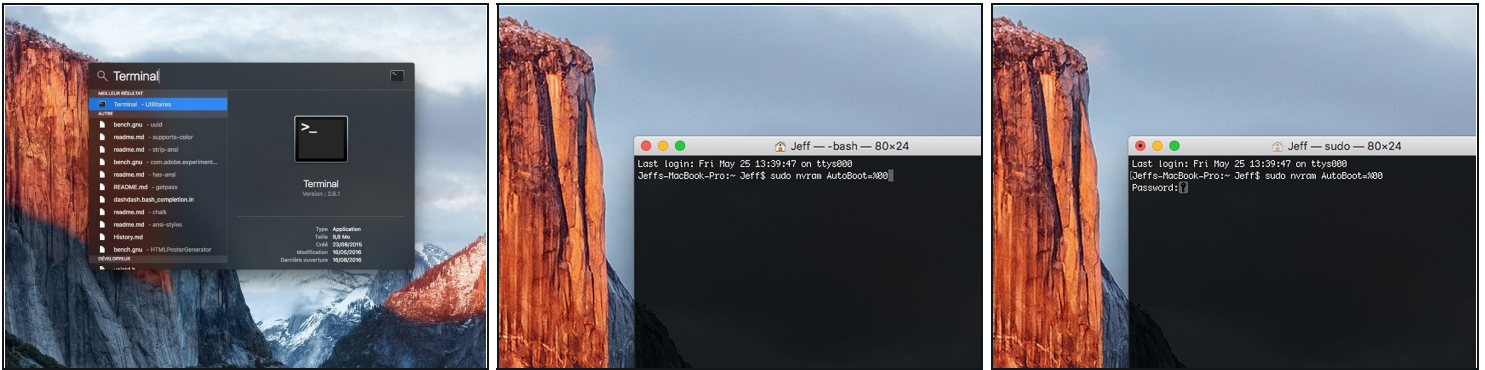
[T3 Torx Screwdriver](#) (1)

[Spudger](#) (1)

[T5 Torx Screwdriver](#) (1)

[Tweezers](#) (1)

Step 1 — Disable Auto Boot



- ① Before starting this procedure, you must disable your Mac's **Auto Boot** feature. Auto Boot powers on your Mac when you open the lid, and may be accidentally triggered during disassembly. [Use this guide](#) or follow the abbreviated instructions below to disable Auto Boot. *This command may not work on all Macs.*
 - Power on your Mac and launch **Terminal**.
 - Copy and paste the following command (or type it exactly) into Terminal:
 - **sudo nvram AutoBoot=%00**
 - Press **[return]**. If prompted, enter your administrator password and press **[return]** again. *Note: Your return key may also be labeled ↵ or "enter."*
- ① You can now safely power down your Mac and open the bottom case, without it accidentally powering on.
- ★ When your repair is complete and your Mac is successfully reassembled, re-enable Auto Boot with the following command:
 - **sudo nvram AutoBoot=%03**

Step 2 — Remove the pentalobe screws



⚠ Before proceeding, unplug and power down your MacBook. Close the display and lay it on a soft surface, top-side down.

- Use a P5 Pentalobe driver to remove the six screws securing the lower case:
 - Two 6.2 mm screws
 - Four 3.4 mm screws
- ★ Throughout this repair, [keep track of each screw](#) and make sure it goes back exactly where it came from to avoid damaging your device.

Step 3 — Open a gap using a suction cup



- Apply a suction handle to the lower case near the front-center area of the MacBook Pro.
- Lift the suction handle to create a slight gap between the lower case and the chassis.

Step 4 — Separate the clips



- Insert one corner of an opening pick into the space between the lower case and the chassis.
- Slide the opening pick around the nearest corner and halfway up the side of the case.
 - ⓘ This releases the first of the hidden clips securing the lower case to the chassis. You should feel and hear the clip pop free.

Step 5



- Repeat the previous step on the opposite side, sliding your opening pick under the lower case and up the side to pop the second clip free.

Step 6



- Insert your opening pick once again under the front edge of the lower case, near one of the two centermost screw holes.
- Give the pick a firm twist to pop free the third clip securing the lower case to the chassis.
- Repeat this procedure near the other of the two centermost screw holes, popping the fourth clip free.

Step 7

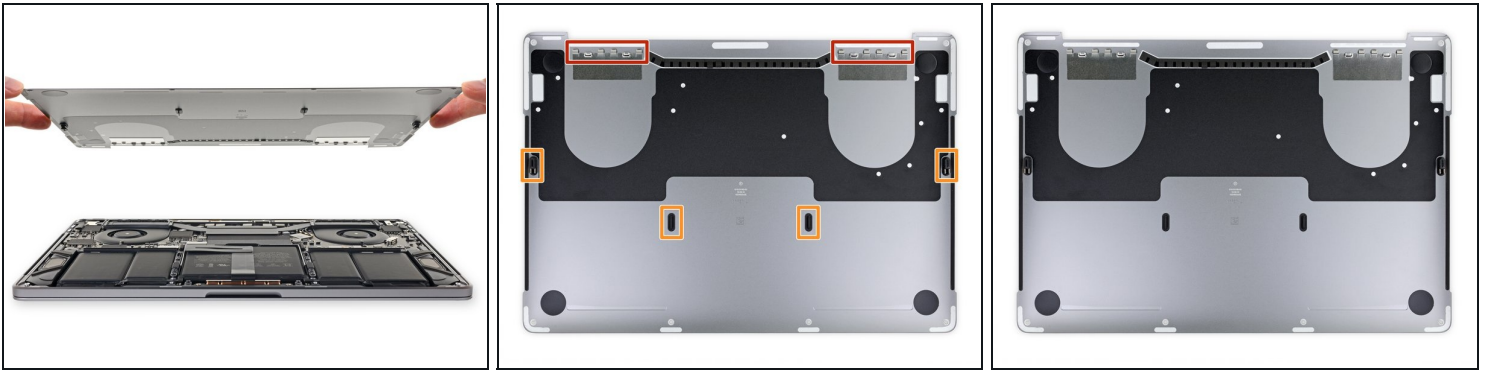


- Pull the lower case firmly towards the front of the MacBook (away from the hinge area) to separate the last of the clips securing the lower case.
 - Pull first at one corner, then the other.

 Pull to the side—not up.

 This can require a lot of force.

Step 8 — Remove the lower case

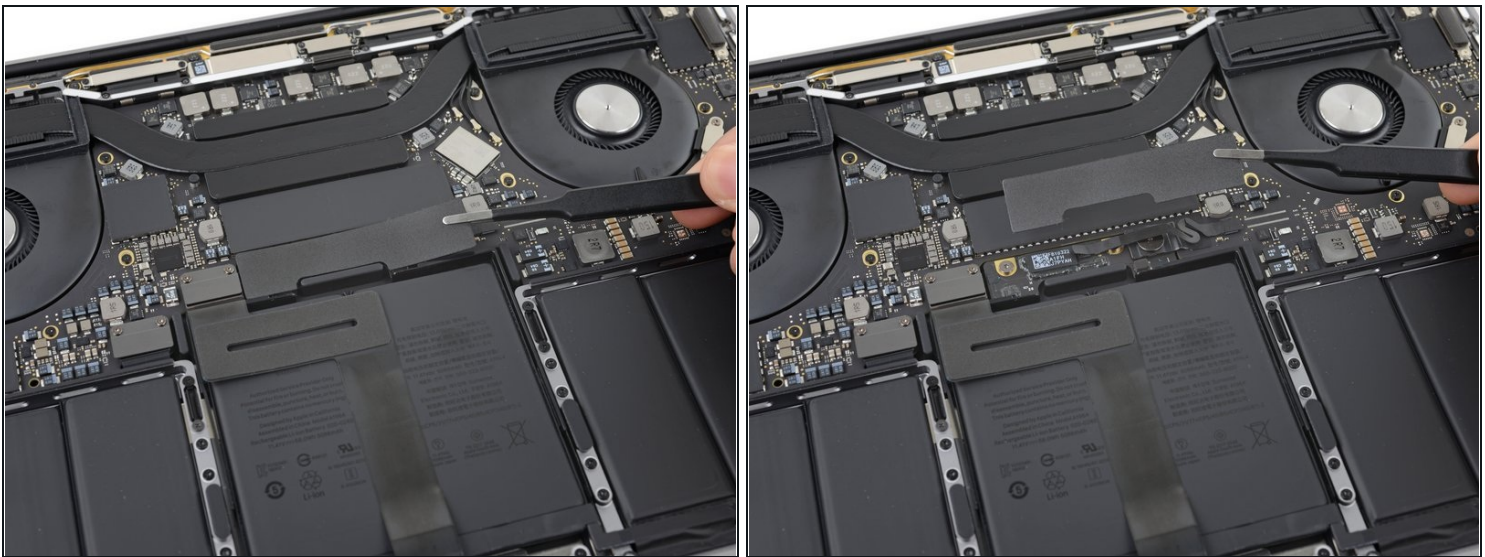


- Remove the lower case.

☒ To reinstall the lower case:

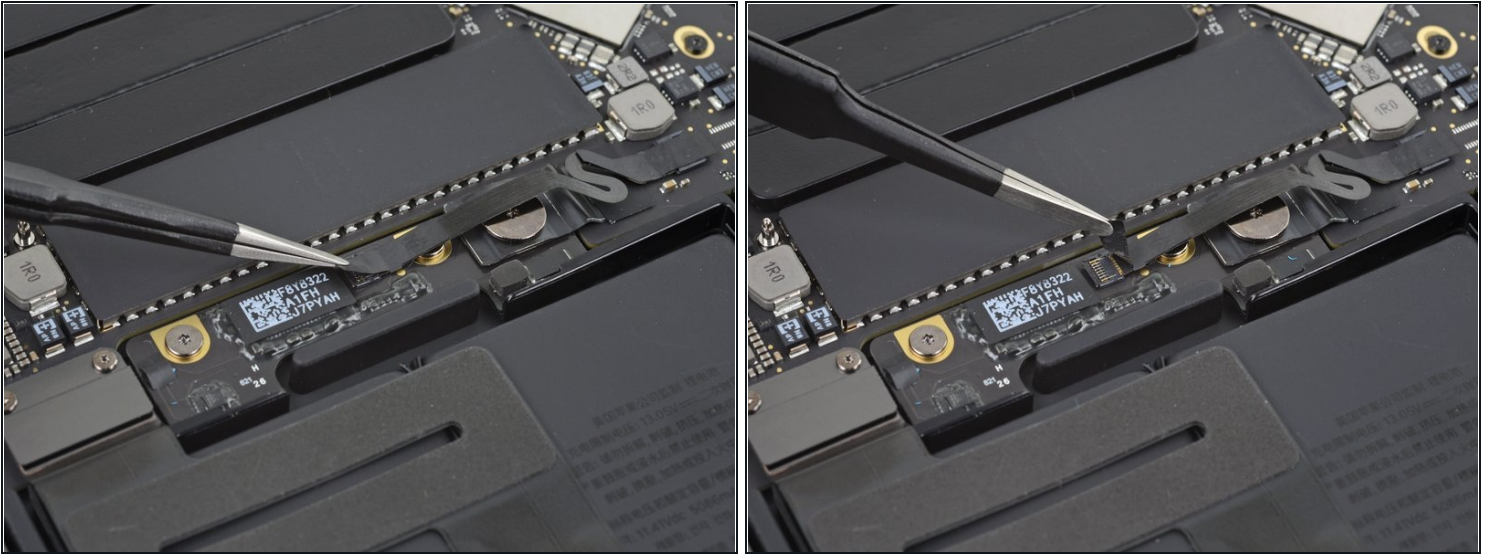
- [Set it in place](#) and align the sliding clips near the display hinge. Press down and slide the cover toward the hinge. It should stop sliding as the clips engage.
- When the sliding clips are fully engaged and the lower case looks correctly aligned, press down firmly on the lower case to engage the four hidden clips underneath. You should feel and hear them snap into place.

Step 9 — Uncover the battery connector



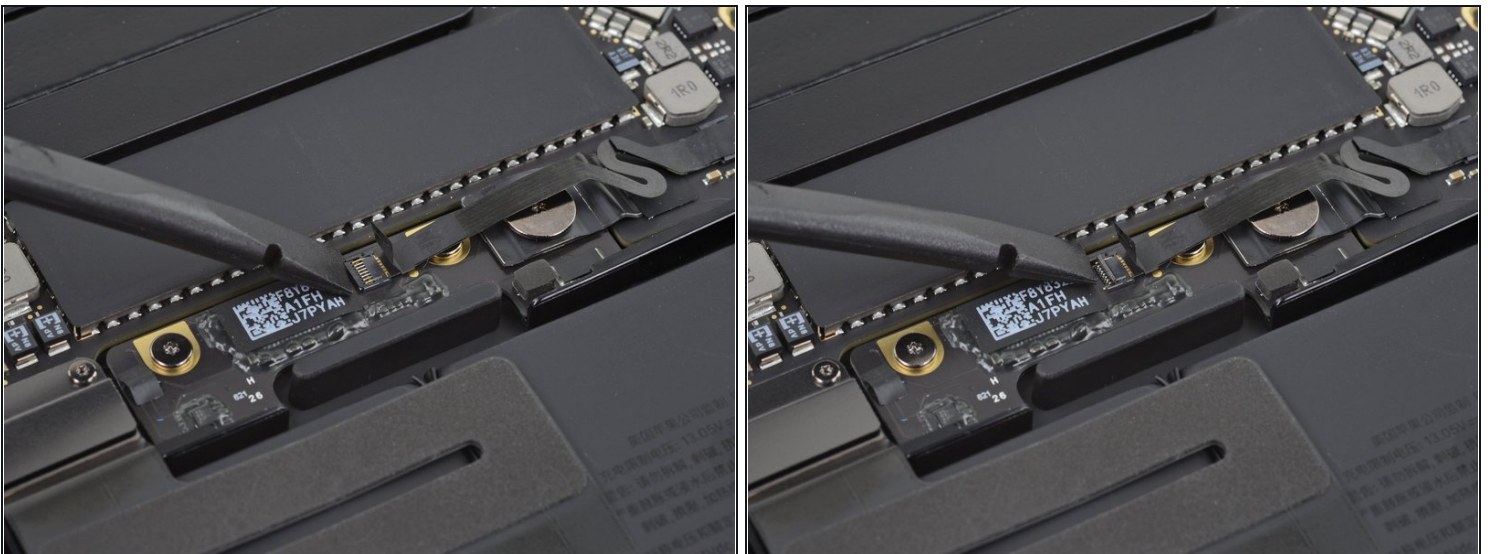
- Carefully peel up the large piece of tape covering the battery connector, on the edge of the logic board nearest the battery.
- Remove the tape.

Step 10



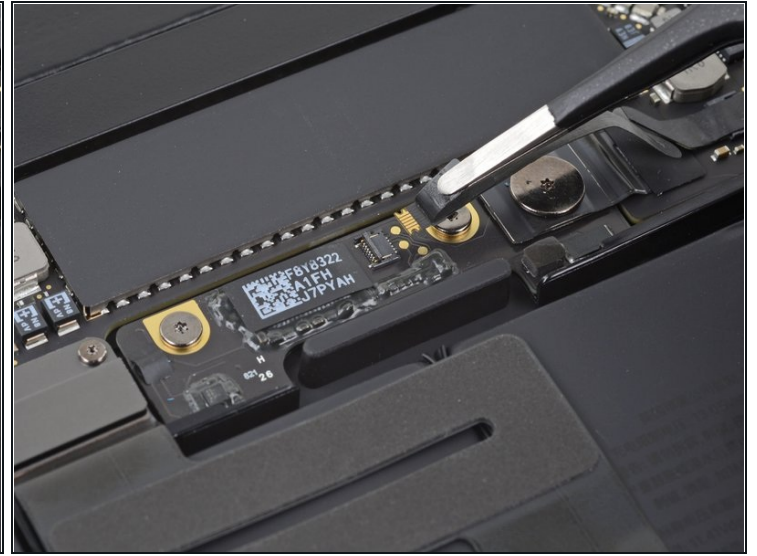
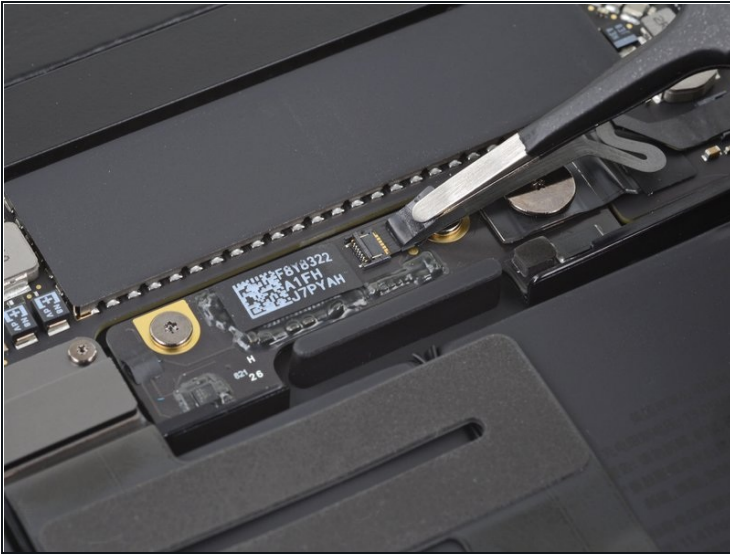
- Gently peel back the small piece of tape covering the battery board data cable connector.
 - ① The tape is integrated into the ribbon cable and will not detach completely. Simply peel it back enough to access the connector.

Step 11



- Use the tip of a spudger to flip up the small black locking tab securing the cable in its connector.

Step 12



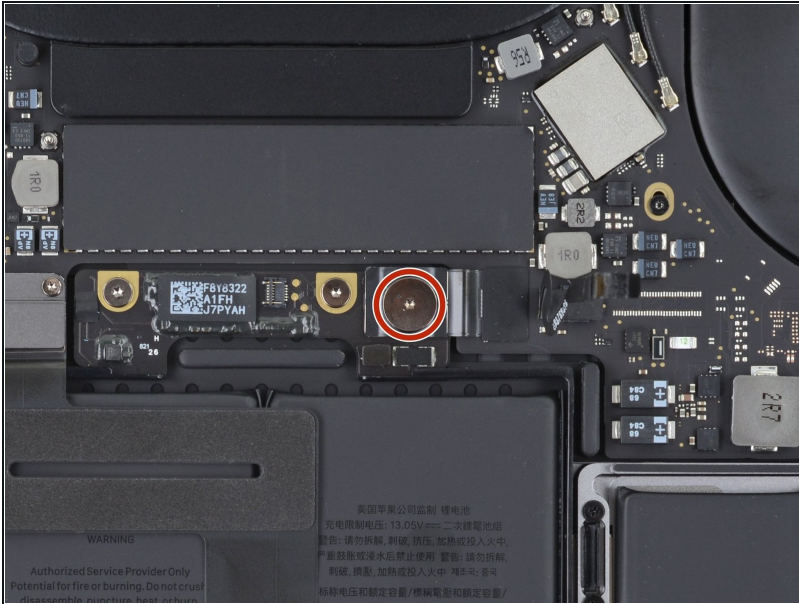
- Disconnect the battery board data cable by sliding it out from its socket.
- Slide parallel to the logic board, in the direction of the cable.

Step 13



- Fold the battery board data cable to the side and out of the way.

Step 14



- Use a T5 Torx driver to remove the 3.7 mm pancake screw securing the battery power connector.

Step 15 — Disconnect the battery



- Use a spudger to gently lift the battery power connector, disconnecting the battery.
- Lift the connector high enough so that it stays separated from its socket. If it accidentally makes contact during the course of your repair, it could damage your MacBook Pro.

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