

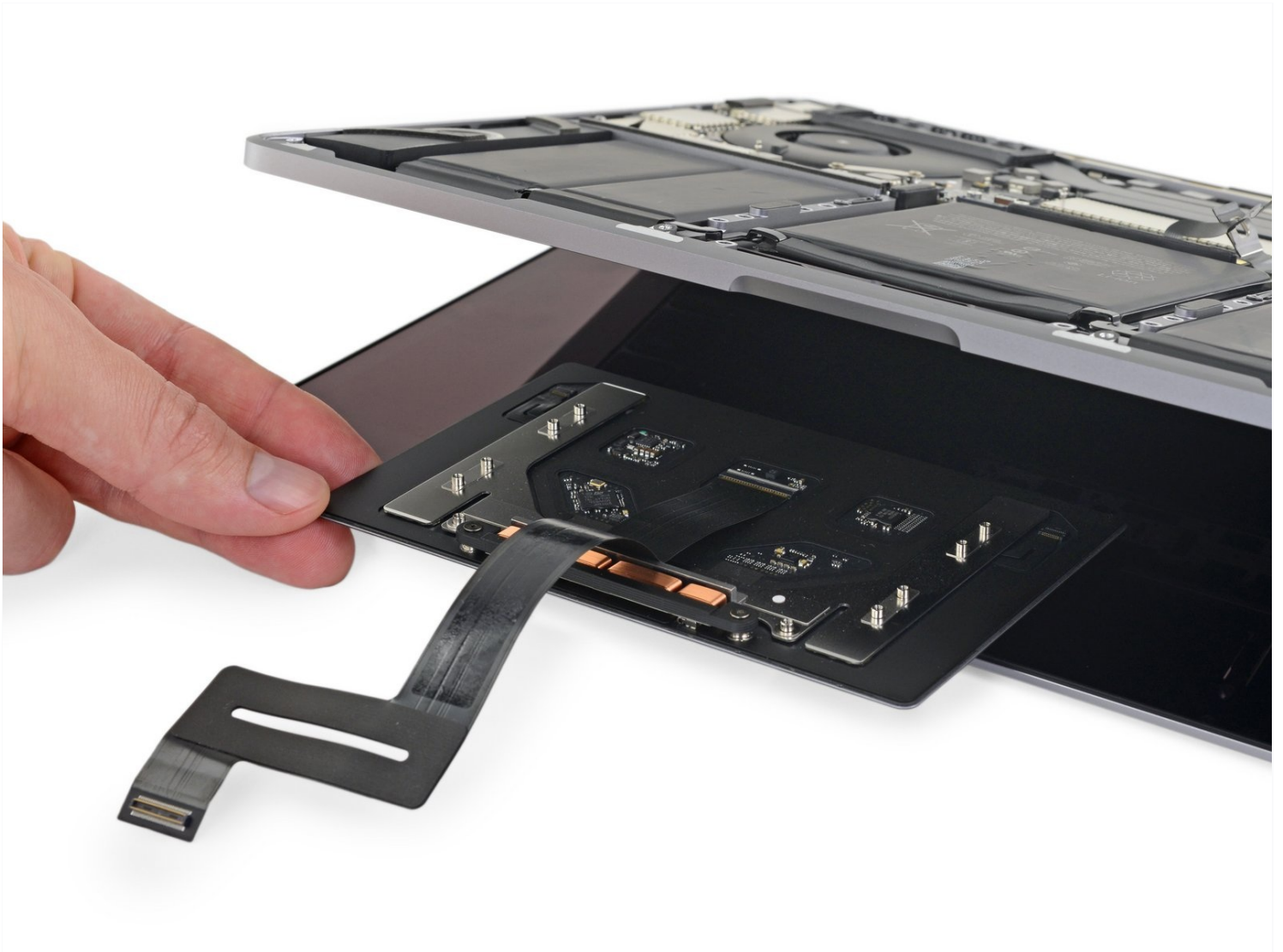


# MacBook Pro 13" Four Thunderbolt Ports 2020

## Trackpad Replacement

If your trackpad is broken or needs to be...

Written By: Carsten Frauenheim



# INTRODUCTION

If your trackpad is broken or needs to be removed for easier access to the battery, follow these steps.

**For your safety, discharge your MacBook Pro's battery below 25%** before you begin this procedure. A charged lithium-ion battery can create a dangerous and uncontrollable fire if accidentally punctured.

*Some photos in this guide are from a different model and may contain slight visual discrepancies, but they won't affect the guide procedure.*



## 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)  
iOpener (1)



## PARTS:


MacBook Pro 13" Retina (A2251, A2289) Trackpad (1)  
MacBook Pro 13" Retina (Touch Bar, Late 2016-2020) Trackpad Cable (1)

## Step 1 — Remove the pentalobe screws




Before starting this procedure, you should 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](#) to disable Auto Boot.

- If your MacBook is running Big Sur v11.1 or later, disabling Auto Boot may not work. You can proceed normally, but make sure to disconnect the battery as soon as you're inside.

 Completely power off and unplug your MacBook before you start. Close the display and flip the entire laptop upside-down.

- Use a P5 Pentalobe driver to remove the six screws securing the lower case:
  - Two 6.7 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 2 — 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 3 — 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 4



- 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.

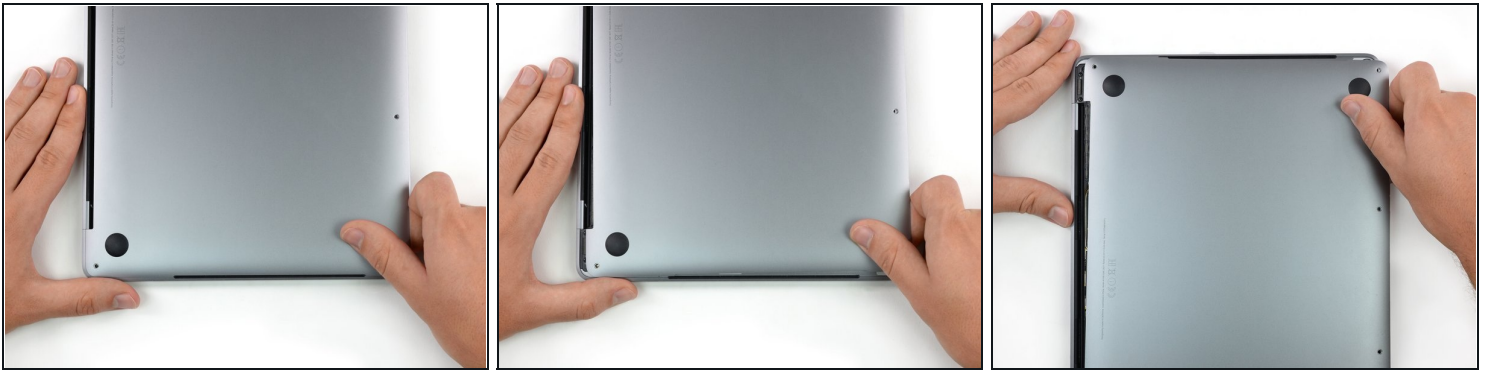
## Step 5



- 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 6

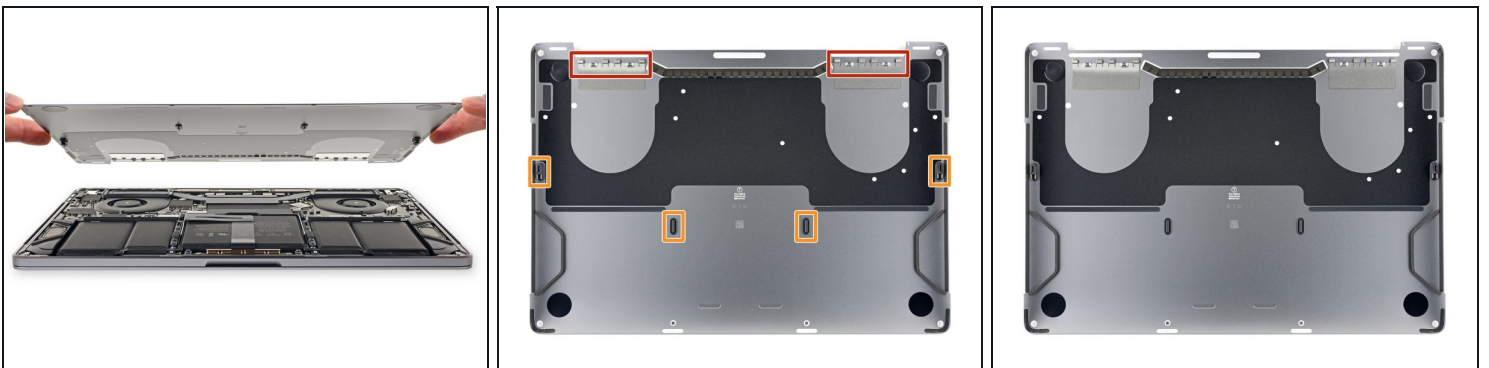


- Pull the lower case firmly towards the front of the MacBook (away from the hinge area) to separate the last of the clips securing the lower case.
- Pull first at one corner, then the other.

⚠ Pull to the side—not up.

ⓘ This can require a lot of force.

## Step 7 — Remove the lower case



- Remove the lower case.

★ To reinstall the lower case:

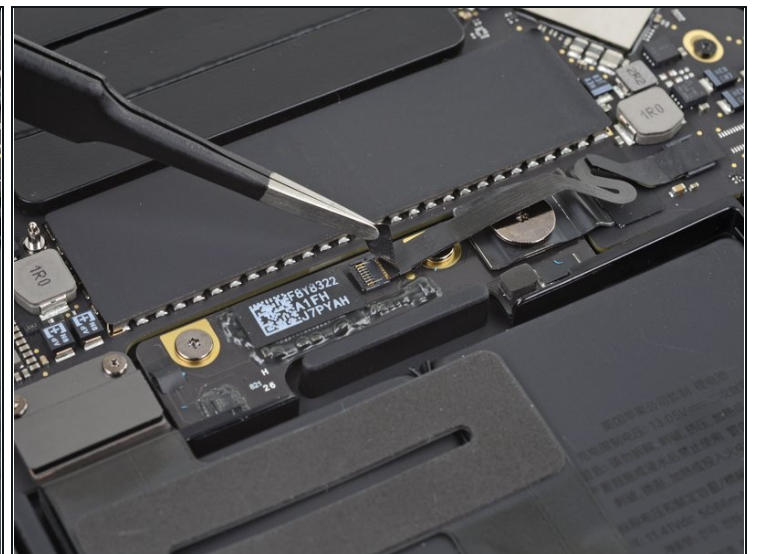
- [Set it in place](#) and align the sliding clips near the display hinge. Press down and slide the cover toward the hinge. It should stop sliding as the clips engage.
- When the sliding clips are fully engaged and the lower case looks correctly aligned, press down firmly on the lower case to engage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

## Step 8 — 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.

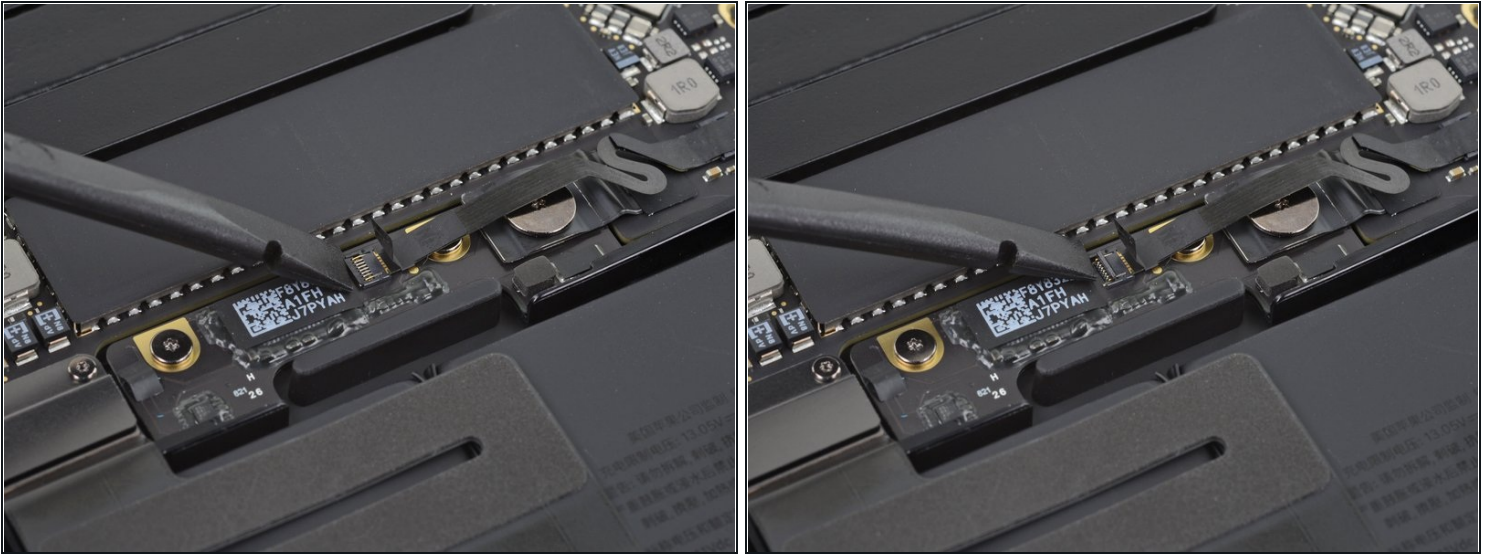
## Step 9



- 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.

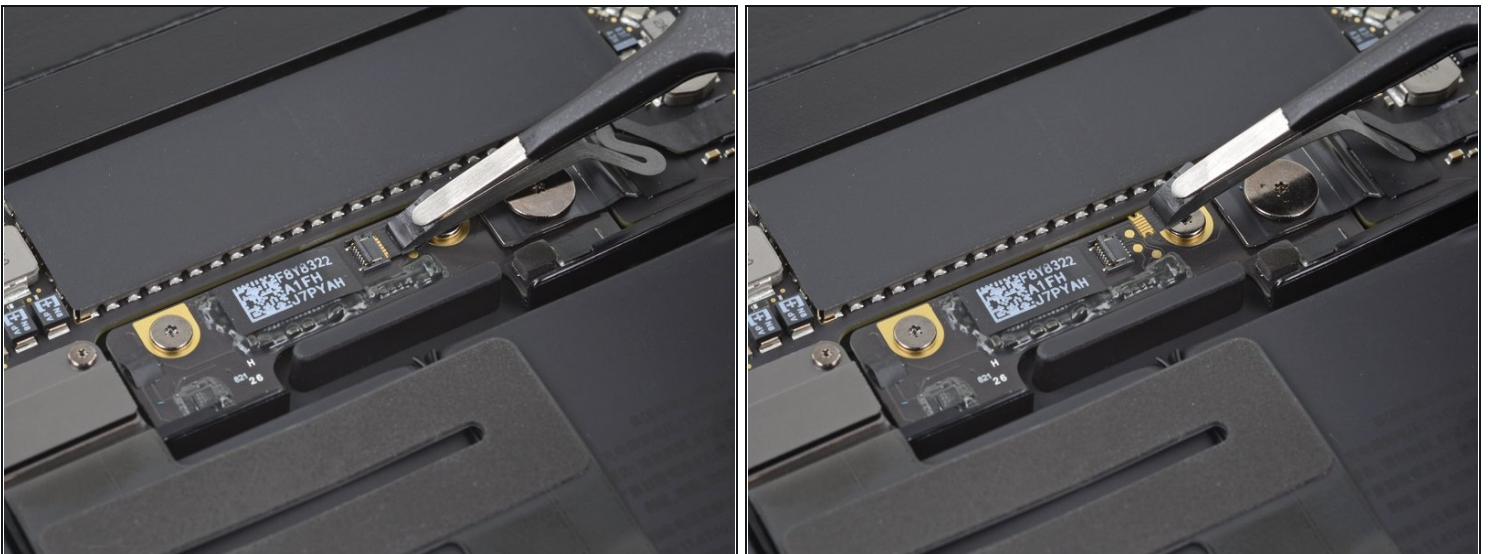


## Step 10



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

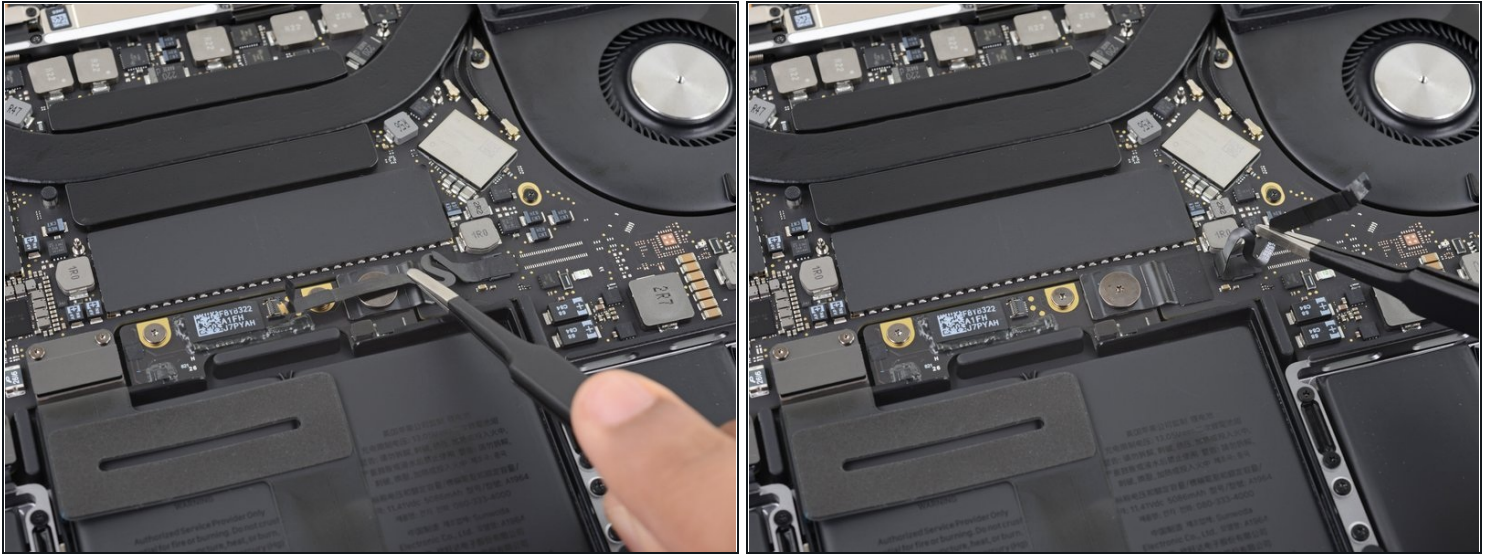
## Step 11



- 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.

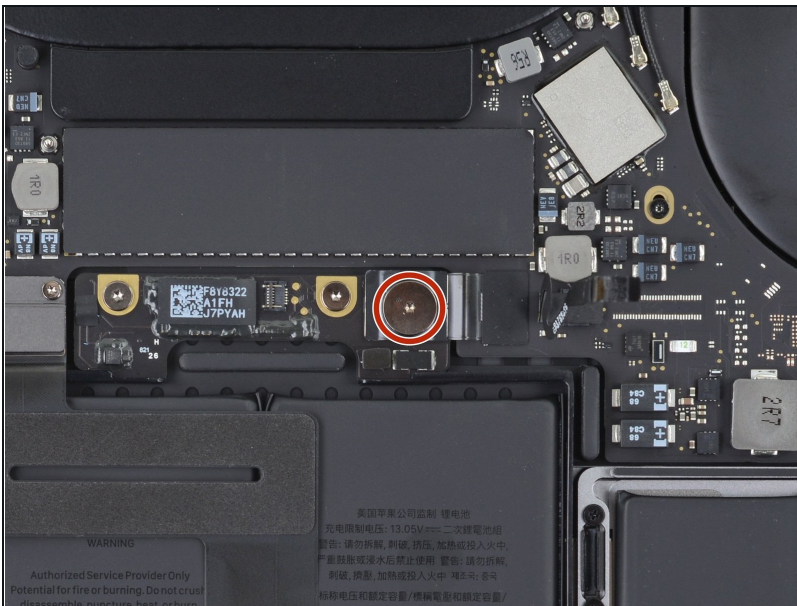


## Step 12



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

## Step 13



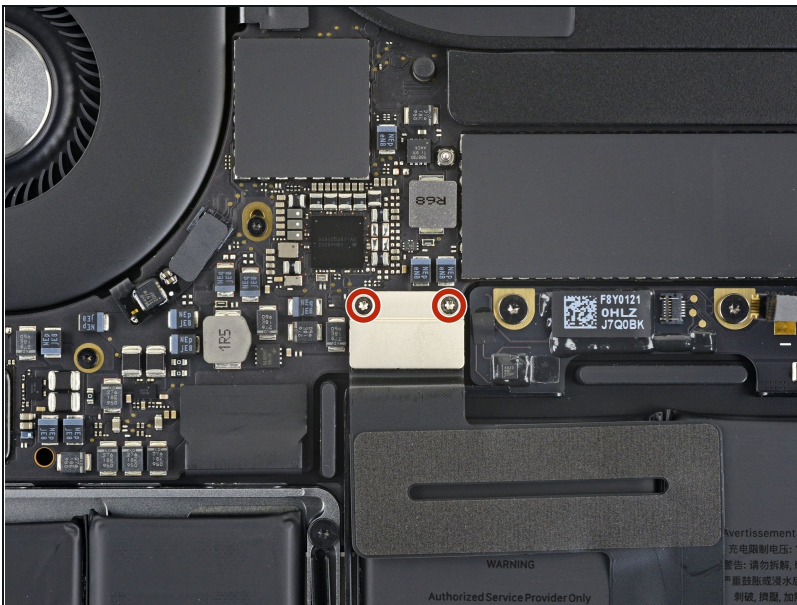
- Use a T5 Torx driver to remove the 3.7 mm pancake screw securing the battery power connector.

## Step 14 — 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.

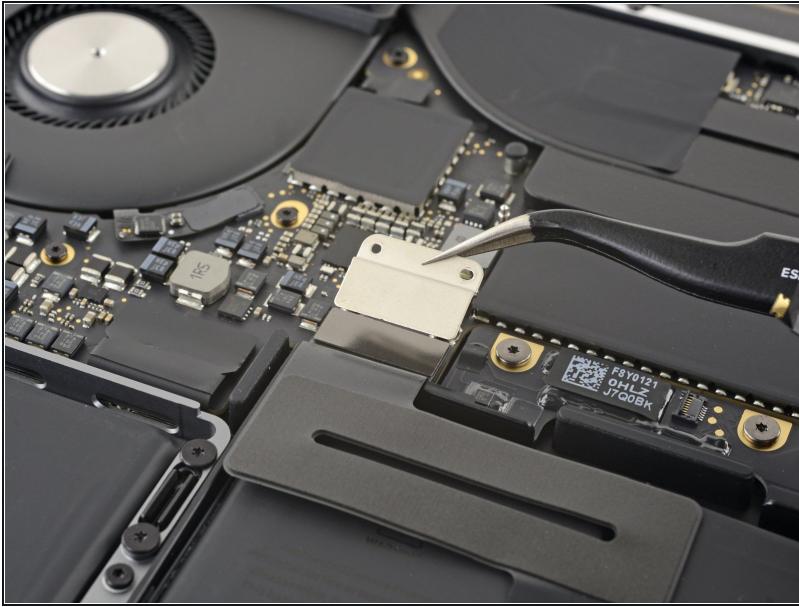
## Step 15 — Remove the trackpad connector screws



- Use a T3 Torx driver to remove the two 1.8 mm screws securing the trackpad cable connector bracket.



## Step 16



- Remove the trackpad cable connector bracket with a pair of [tweezers](#).

## Step 17 — Disconnect the trackpad



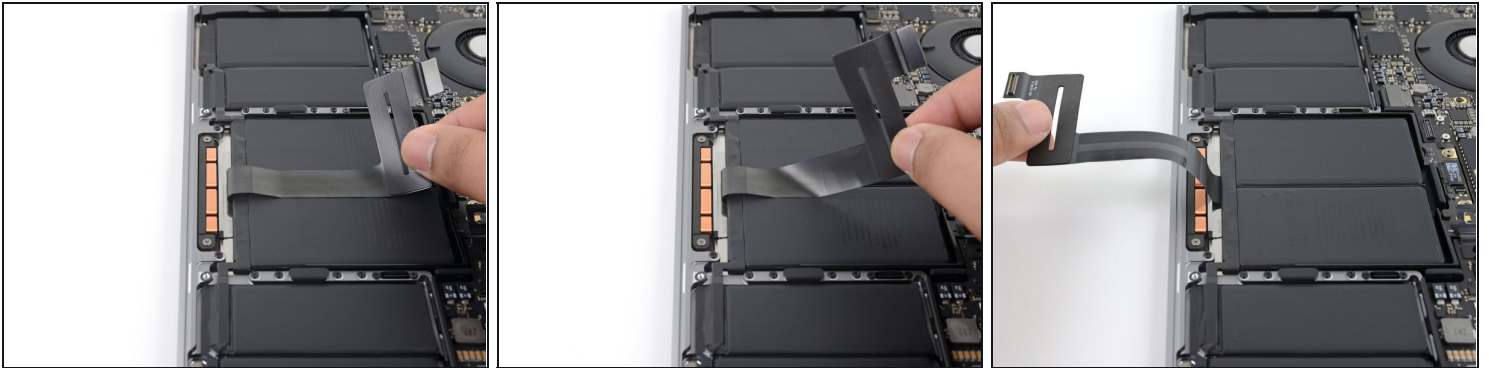
- Use a spudger to disconnect the trackpad ribbon cable by gently prying its connector straight up from the logic board.

## Step 18 — Heat the trackpad cable



- [Prepare an iOpener](#) and lay it on top of the trackpad ribbon cable for about a minute, in order to soften the adhesive securing the trackpad ribbon cable to the top of the battery.
- If you don't have an iOpener, use a hair dryer to warm up the cable instead. The cable should be warm, but not too hot to touch. Be careful not to overheat the battery.

## Step 19 — Peel up the trackpad cable



- Carefully peel the trackpad ribbon cable up off the battery, and push it out of the way.

⚠ Do not fold or tear the cable.



## Step 20 — Remove the trackpad screws



- Use a T5 Torx driver to remove the ten screws securing the trackpad assembly:
  - Two 4.3 mm screws
  - Eight 5.8 mm screws

## Step 21



- Swing the display open slightly to access the trackpad.
- Carefully thread the trackpad ribbon cable out through the hole in the MacBook Pro's frame.

## Step 22



- Remove the trackpad assembly.
- Be sure not to lose the six small washers (two circular and four rectangular) resting on the underside of the trackpad.
- ☑ Make sure your new trackpad has a ribbon cable installed before reassembly. If necessary, transfer the old cable, or install the one your new trackpad came with.

---

Compare your new replacement part to the original part—you may need to transfer remaining components or remove adhesive backings from the new part before installing.

**To reassemble your device, follow the above steps in reverse order.**

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

Repair didn't go as planned? Try some basic [troubleshooting](#) or search our [Answers community](#) for help.