



How to Reset the SMC on MacBooks

This guide shows you how to reset the SMC (System Management Controller) on the MacBook in case of logic board or battery issues.

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INTRODUCTION

If you have done a logic board or battery replacement, you can reset your MacBook's SMC. You may also use this as a first-aid measure if you're having power issues with your MacBook.

Step 1 — Does your MacBook have a T2 security chip?



- These MacBooks have a T2 security chip:
 - MacBook Air introduced in 2018 or later
 - MacBook Pro introduced in 2018 or later
- If it has a T2 chip you can reset the SMC as follows (if not, skip this step):
 - Hold the "Control" and "Option" (Alt) on the left side of your keyboard and the "Shift" on the right side of your keyboard for 7 seconds.
 - Then additionally press and hold the power button and keep holding all four keys for another 7 seconds, then release them.
 - Press the power button after few seconds to turn on your MacBook.

Step 2 — Does your MacBook have a non-/removable battery?



- These models have a non-removable battery ([per Apple definition](#)):
 - MacBook Pro (Early 2009) and later
 - all models of MacBook Air
 - MacBook (Late 2009)
 - MacBook (Retina, 12-inch, Early 2015) and later
- Proceed with the next step to reset your SMC.
- For other models skip this and the next step.

Step 3 — If the battery is non-removable



- Shut down your Mac.
- Unplug the MagSafe or USB-C power adapter from your computer.
- Using the built-in keyboard, press Shift-Control-Option on the left side of the keyboard, then press the power button at the same time. Hold these keys and the power button for 10 seconds.
- Release all keys.
- Reconnect the power adapter.
- Press the power button again to turn on your Mac.

Step 4 — If the battery is removable



- Shut down your Mac.
- Disconnect the MagSafe power adapter from your computer.
- Remove the battery.
- Press and hold the power button for 5 seconds.
- Reconnect the battery and MagSafe power adapter.
- Press the power button to turn on your Mac.
- The LED on the MagSafe power adapter might change colors or temporarily turn off when you reset the SMC.

The SMC of your MacBook has now been reset.