# How to Reset the SMC on MacBooks

If you have done a logic board or battery...

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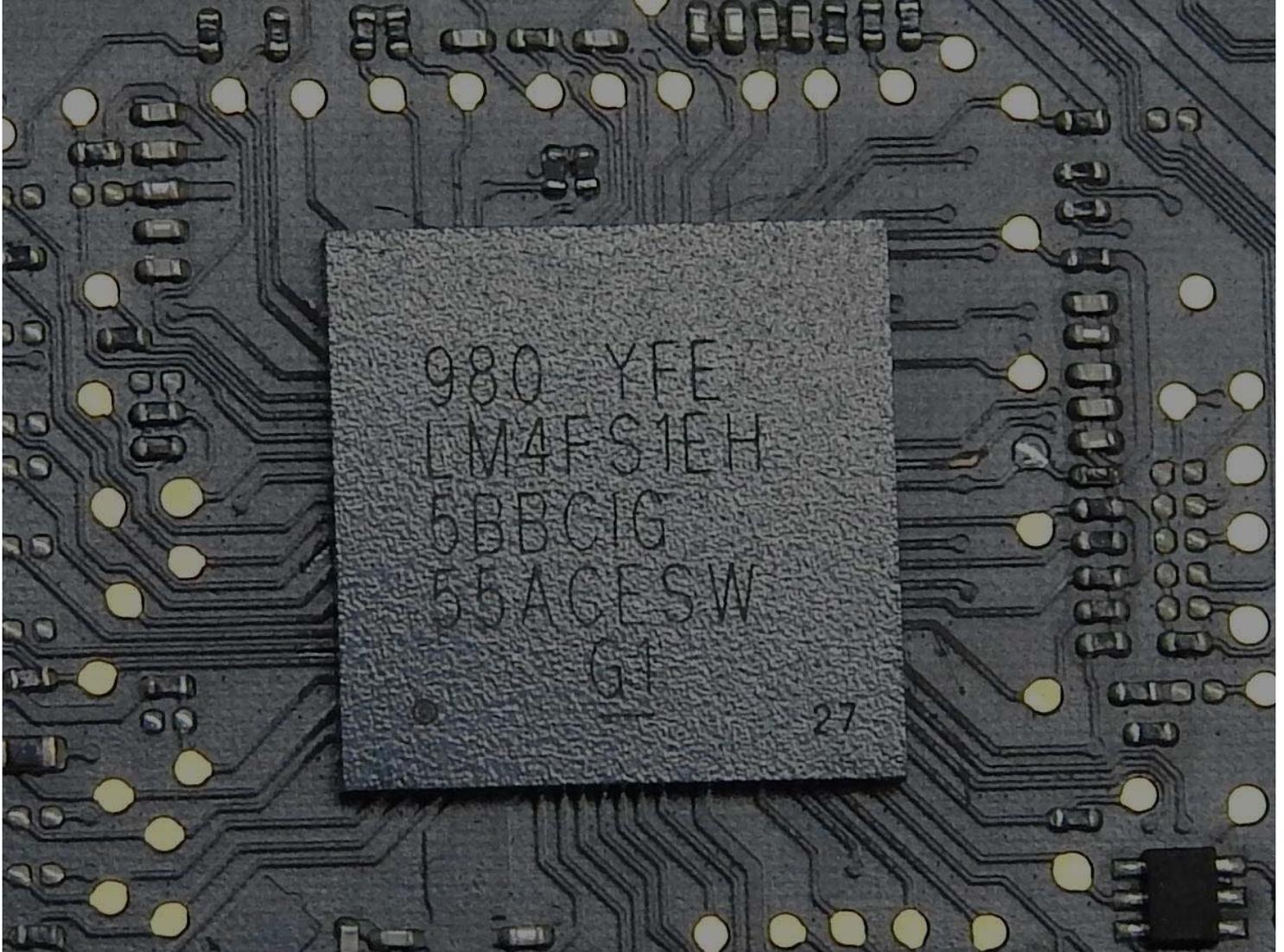
INTRODUCTION

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?
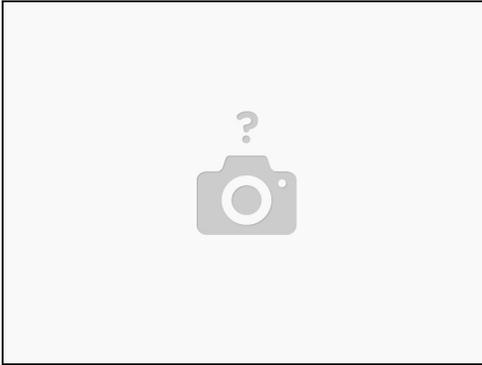
- These MacBooks have a T2 security chip:
  - MacBook Air introduced in 2018 or later

  - 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
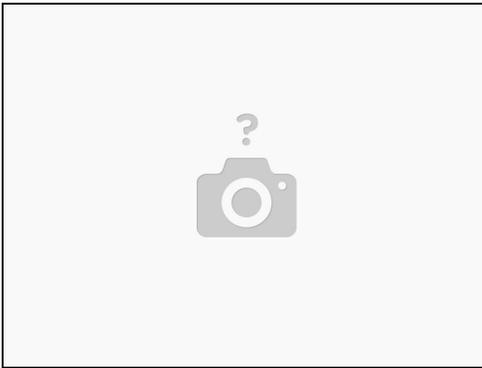
- Shut down your Mac.

- 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
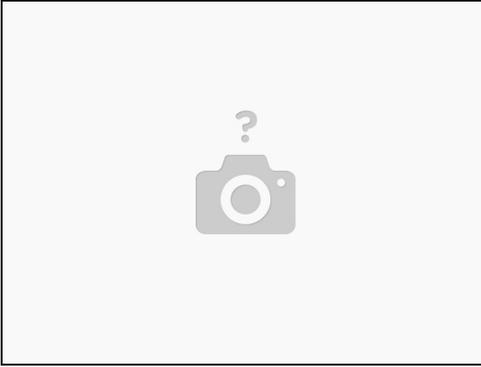
- Shut down your Mac.

- Disconnect the MagSafe power adapter from your computer.

- Remove the battery.

- Press and hold the power button for 15 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.