

Guide PC assembly guide

Required equipment:

Screwdriver with a Philips 2 bit (PH 2)

Computer parts for assembly

Central processing unit (CPU)

Motherboard with compatible CPU socket and firmware

Random access memory (RAM)

Power supply (PSU)

Case (That supports motherboard)

CPU cooler (if thermal paste is not included you also need to acquire some)

Storage (Solid state storage is preferred as primary boot partition)

ESD safe work mat (Preferred not absolutely necessary)

Temporary storage for screws (Bowl, cup or magnetic tray)

When starting a PC build the first thing you need to do is clear some space to work so that the work becomes easier and the chances for damaging the computer or the surrounding things while you build.

Start with taking the motherboard out of its box, if you do not have an ESD safe mat you should place the motherboard on top of the ESD safe bag the motherboard comes inside.

The order you add your components is somewhat important and can be divided into 3 groups, The pre- case assembly, the case assembly and the wiring.

The first components to install is the processor, ram, cooler and M.2 SSD (if you have one), then prepare the case to place the motherboard inside.

If the case is small it might be smart to put the motherboard in first but if it is a normal size case you can get the PSU and depending on if it is modular, semi-modular or non- modular you connect the required cables often being the Motherboard power cable which has the most plugs and the the 4-6 pin cpu connetor. If you have a GPU you also need the correct power cable for this if your GPU is very modern it might have a 12V power connector or if this seems wrong it might have 1 or 2 normal 6-8 pin power connectors. Use the correct connector and if you use the 12 V power connector be 100% sure that the entire plug is fully connected, loose connectors can and have caused fire inside of pc's.



Image credit: By Jacek Halicki - Own work, CC BY-SA 4.0,

<https://commons.wikimedia.org/w/index.php?curid=135703903>

Revision #2

Created 2026-03-10 14:08:26 UTC by olikol

Updated 2026-09-21 17:30:29 UTC by olikol