



- The sequence of installation may differ depending on the type of case and devices used. The installation instructions below apply to GIGABYTE's desktop systems and are for reference only.



- Refer to the user's manual included for detailed motherboard specifications.
- Before installing the devices, make sure they are compliant with the connectors on your computer.
- Before installing the devices, be sure to turn off the devices and your computer. Unplug the power cord from the power outlet to prevent damage to the devices and the system components.
- Place the computer system on a stable surface to prevent improper installation resulted from shaking.

Step

1

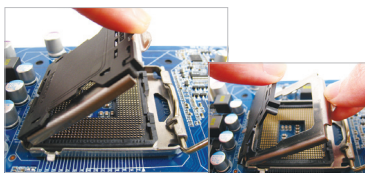
Installing a CPU and CPU Cooler

A. Installing an Intel CPU

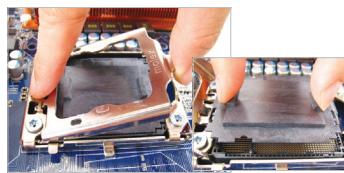
A-1

LGA775/LGA1366 CPU:

Raise the CPU socket lever and lift the metal load plate. Remove the protective socket cover.



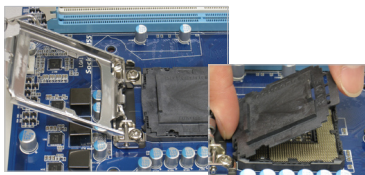
LGA775 CPU



LGA1366 CPU

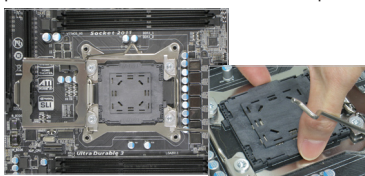
LGA1156/LGA1155 CPU:

Raise the CPU socket lever and the metal load plate will be lifted as well. Remove the protective socket cover.



LGA2011 CPU:

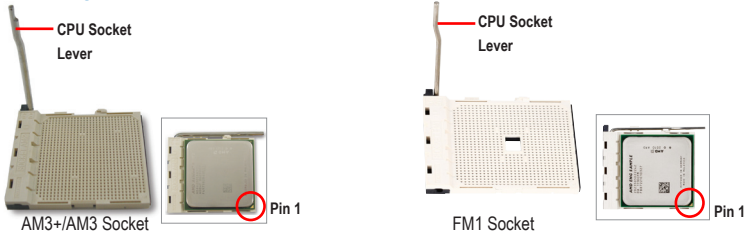
Raise the CPU socket lever next to the "OPEN 1st" mark first and then raise the other one. Lift the metal load plate from the CPU socket. Remove the protective socket cover.



A-2 Hold the CPU with your thumb and index fingers. Align the CPU pin one marking (triangle) with the pin one corner of the CPU socket (or you may align the CPU notches with the socket alignment keys) and gently insert the CPU into position.

A-3 Once the CPU is properly inserted, replace the load plate and push the CPU socket lever back into its locked position.

B. Installing an AMD CPU



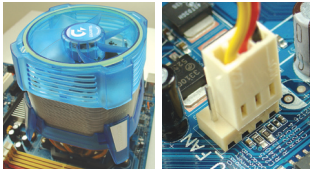
- B-1 Completely raise the CPU socket lever. Align the CPU pin one (small triangle marking) with the triangle marking on the CPU socket and gently insert the CPU into the socket. Make sure that the CPU pins fit perfectly into their holes.
- B-2 Once the CPU is positioned into its socket, place one finger down on the middle of the CPU, lowering the socket lever and latching it into the fully locked position.



CAUTION

- Do not force the CPU into the CPU socket. The CPU cannot fit in if oriented incorrectly. Adjust the CPU orientation if this occurs.
- DO NOT touch socket contacts. To protect the CPU socket, always replace the protective socket cover when the CPU is not installed.

C. Installing the CPU Cooler



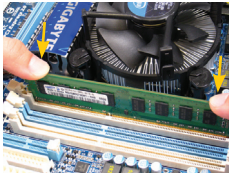
C-1 Before installing the CPU cooler, please first add a thin layer of heat sink paste on the surface of the CPU. Then install the cooler (refer to the installation manual for your CPU cooler).

C-2 Connect the CPU cooler cable to the CPU_FAN connector located on the motherboard so that the cooler can properly function to prevent the CPU from overheating.

Step

2

Installing Memory



Note the orientation of the memory module. Spread the retaining clips at both ends of the memory socket. Place the memory module on the socket. As indicated in the picture on the left, place your fingers on the top edge of the memory, push down on the memory and insert it vertically into the memory socket. The clips at both ends of the socket will snap into place when the memory module is securely inserted.

Step

3

Preparing the Case and Installing a Power Supply



Using the GIGABYTE desktop system as the demonstration example, please first remove both sides and the lid of the case in order to install the power supply. Place the power supply in the correct place in the case and secure it with screws. Installation and placement of the power supply may differ depending on the type of case used.



NOTE

To ensure sufficient power can be supplied to your system, it is recommended that a power supply of good quality be used. If a power supply is used that does not provide the required power, the result can lead to an unstable or unbootable system.

Step

4

Installing the Motherboard



Remove the original I/O shield from the back of the case and replace it with the motherboard I/O shield. Place the motherboard within the case by positioning it into its I/O shield. Align the mounting screw holes on the motherboard with their corresponding mounting holes on the case. Secure the motherboard in place with screws.



I/O Shield

Step

5

Installing an Expansion Card



PCI Express Graphics Card

Locate an expansion slot that supports your card and remove the slot cover from the case back panel. Then insert the expansion card into the slot. Secure the expansion card's bracket to the case back panel with a screw.



- Before purchasing an expansion card, check the length of the card, making sure it can fit into your case.
- Make sure that the expansion card is fully seated in its slot.

Step

6

Installing IDE and SATA Devices



Installing an Optical Drive

6-1 Install your optical drives, such as DVD-ROM and CD-ROM drives.

Remove the 5.25" drive bay cover from the front of the case. Mount the optical drive in the 5.25" drive bay and secure it with screws.



Installing a Hard Drive

6-2 Install your IDE and SATA hard drives.

Install the hard drive into a drive bay within the case and secure it with screws.



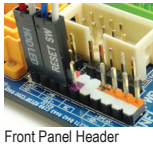
- One motherboard IDE connector can connect up to two IDE devices. Prior to installation, check the jumper settings (master and slave) on your IDE devices.
- If more than one hard drive is installed, enter system BIOS Setup to set the hard drive boot sequence.

Step

7

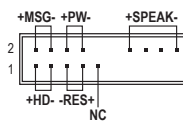
Connecting Cables to Internal Connectors

- 7-1 Connect cables to internal connectors and headers on the motherboard, including IDE/SATA connectors, and front panel audio, USB, IEEE 1394 headers, etc.
- 7-2 Attach the front panel module (differs depending on the case design, consisting of power indicator, hard drive activity indicator, speakers, reset switch, power switch, etc.) from the case to the front panel header (F_PANEL) on the motherboard.

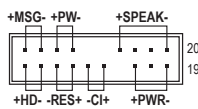


Front Panel Header

Pin Assignments A:



Pin Assignments B:



MSG: Message/Power/Sleep LED
 PWR: Power LED
 PW: Power Switch
 SPEAK: Speaker
 HD: Hard Drive Activity LED
 RES: Reset Switch
 CI: Chassis Intrusion Header

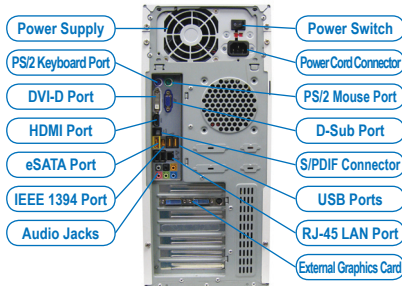
(Note) The pin assignments for the front panel header may differ by model. Refer to the motherboard user's manual for the actual pin assignments.

Step

8

Connecting Peripherals

Back Panel of the Case



Once the steps above have been completed, connect the peripheral devices to the computer, such as the keyboard, mouse, monitor, etc. Then connect the power, turn on the system, and install all required software.