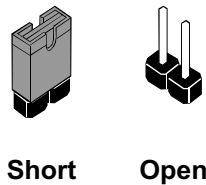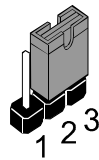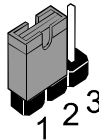# How to Set Jumpers

A jumper consists of two or more pins mounted on the main-board. Some jumpers might be arranged in a series with each pair of pins numbered differently. Jumpers are used to change the electronic circuits on the mainboard. When a jumper cap (or shunt) is placed on two jumper pins, the pins are SHORT. If the jumper cap is removed (or placed on just a single pin), the pins are OPEN.

Short   **Open**

This illustration shows a 2-pin jumper. When the jumper cap is placed on both pins, the jumper is SHORT. If you remove the jumper cap, or place the jumper cap on just one pin, the jumper is OPEN.

This illustration shows a 3-pin jumper. The jumper cap is placed on pins 2 and 3, so this jumper setting is SHORT PINS 2-3.

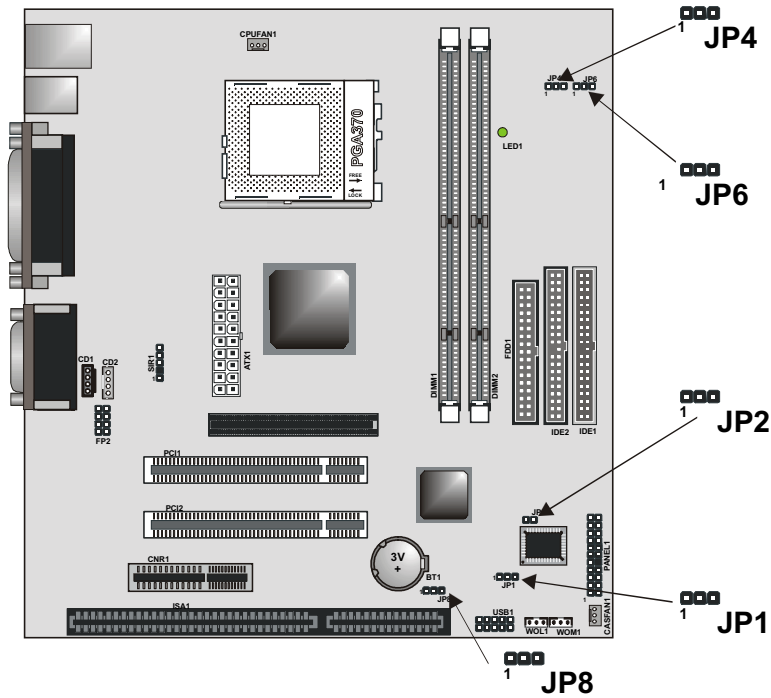This illustration shows the same 3-pin jumper. The jumper cap is placed on pins 1 and 2, so this jumper setting is SHORT PINS 1-2.

In this manual, all the jumper illustrations clearly show the pin numbers. When you are setting the jumpers, make sure that the jumper caps are placed on the correct pins to select the function or feature that you want to enable or disable.

1

Check the Jumper Settings

Check all the mainboard jumpers to ensure that the mainboard is configured correctly.

JP1: Clear BIOS jumper
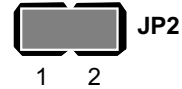
Use this jumper to clear the system BIOS.

Function	Jumper Setting
Normal operation	Short pins 1-2
Clear CMOS	Short pins 2-3

JP2: BIOS flash protect jumper

Use this 2-pin jumper to protect the system BIOS from being accidentally flashed (updated).

Function	Jumper Setting
Protect	Short
Unprotect	Open

JP2

1　2

JP4: CPU frequency select jumper

Use this jumper to force a 66 MHz CPU to run at 100 MHz.

Function	Jumper Setting
Auto	Short pins 1-2
Use this jumper to force a 66 MHz CPU to run at 100 MHz.	Short pins 2-3

JP4

1　2　3

JP6: CPU frequency select jumper

Use this jumper to force a100 MHz CPU to run at 133 MHz.

Function	Jumper Setting
Auto	Short pins 1-2
Force 100 MHz CPU to run at 133 MHz	Short pins 2-3

JP6

1　2　3

JP8: USB1 power select jumper

Use this jumper to select USB1 power source.

Function	Jumper Setting
VCC	Short pins 1-2
5VSB	Short pins 2-3

JP8

1　2　3