# Quick Jumper Setting Reference

If you are familiar with most of the material in this chapter, you can begin preparing the mainboard for installation by using this quick reference to begin setting the jumpers. A detailed description of the jumper setting appears later in this chapter.

JP1: Clear CMOS memory jumper

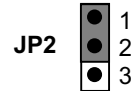Use this 3-pin jumper to clear all the current data stored in the CMOS memory.

Function	Jumper Cap
Normal operation	Short pins 1-2
Clear CMOS	Short pins 2-3
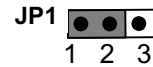
JP2: Keyboard power on jumper

Use this 3-pin jumper to enable keyboard power on with hot keys or password.

Function	Jumper Cap
Enable keyboard power on	Short pins 1-2
Disable keyboard power on	Short pins 2-3

JP3, JP6, JP7, JP11: Select Celeron or Joshua Processor for Socket-370

Use these 3-pin jumper sets to select the processor type you are using in the PGA370 processor socket.
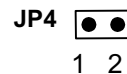
Function	Jumper Cap
Intel Celeron	Short pins 1-2
Cyrix Joshua	Short pins 2-3
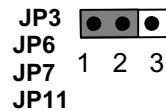
JP4: Detect Chassis Open jumper

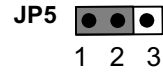Use this 2-pin jumper to enable chassis open detection.

Function	Jumper Cap
Disable Chassis Open	Open pins 1-2
Enable Chassis Open	Short pins 2-3

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JP5: Supend-to-RAM jumper

Use this 3-pin jumper to enable the Suspend-to-RAM function.

Function	Jumper Cap
Enable Suspend-to-RAM	Short pins 1-2
Disable Suspend-to-RAM	Short pins 2-3

JP5 ● ● ●
  1 2 3

JP8: Set System Bus Frequency to 133 MHz

Use this 3-pin jumper to set the system bus frequency. In the normal setting, the system automatically selects the correct frequency according to the kind of processor installed. In the Force 133 MHz setting, the system uses a 133 MHz system bus even if the processor is designed to operate with a 66 or 100 MHz bus.

Function	Jumper Cap
Normal operation	Short pins 1-2
Force 133 MHz	Short pins 2-3

JP8 ● ● ●
  1 2 3
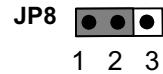
JP9: Set System Bus Frequency to 100 MHz

Use this 3-pin jumper to set the system bus frequency. In the normal setting, the system automatically selects the correct frequency according to the kind of processor installed. In the Force 100 MHz setting, the system uses a 100 MHz system bus even if the processor is designed to operate with a 66 or 133 MHz bus.
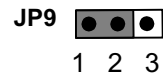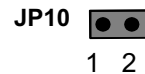
Function	Jumper Cap
Normal operation	Short pins 1-2
Force 100 MHz	Short pins 2-3

JP9 ● ● ●
  1 2 3

JP10: Automatic (BIOS) or Manual configuration

Use this 2-pin jumper to automatically (BIOS) or manually set the CPU core voltage and system bus multiplier ratio. When set to manual configuration, use the VID and BF jumpers to define proper configuration. It is recommended that you set this jumper to automatic configuration.
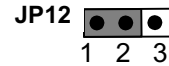
Function	Jumper Cap
Automatic configuration	Short pins 1-2
Manual configuration	Open pins 1-2

JP10 ● ●
   1 2

JP12: Flash BIOS jumper

Use this 3-pin jumper to enable or disable Flash BIOS protection. If enabled, the existing BIOS cannot be flashed with another version.

Function	Jumper Cap
Enable Flash BIOS	Short pins 1-2
Disable Flash BIOS	Short pins 2-3

JP12
1 2 3

VID: Set CPU core voltage jumpers

Use this 3 x 5-pin jumper set to manually set the CPU core voltage. See later in this chapter for information on the core voltage setting required for the processor that you have installed.

1 2 3
VID1
VID5
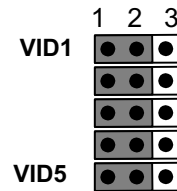
Volt.	Short Pin Settings				
	VID1	VID2	VID3	VID4	VID5
Auto*	1-2	1-2	1-2	1-2	1-2
2.05V	2-3	2-3	2-3	2-3	2-3
2.00V	1-2	2-3	2-3	2-3	2-3
1.95V	2-3	1-2	2-3	2-3	2-3
1.90V	1-2	1-2	2-3	2-3	2-3
1.85V	2-3	2-3	1-2	2-3	2-3
1.80V	1-2	2-3	1-2	2-3	2-3
1.75V	2-3	1-2	1-2	2-3	2-3
1.70V	1-2	1-2	1-2	2-3	2-3
1.65V	2-3	2-3	2-3	1-2	2-3
1.60V	1-2	2-3	2-3	1-2	2-3
1.55V	2-3	1-2	2-3	1-2	2-3
1.50V	1-2	1-2	2-3	1-2	2-3
1.45V	2-3	2-3	1-2	1-2	2-3
1.40V	1-2	2-3	1-2	1-2	2-3
1.35V	2-3	1-2	1-2	1-2	2-3
1.30V	1-2	1-2	1-2	1-2	2-3
3.5V	2-3	2-3	2-3	2-3	1-2
3.4V	1-2	2-3	2-3	2-3	1-2
3.3V	2-3	1-2	2-3	2-3	1-2
3.2V	1-2	1-2	2-3	2-3	1-2
3.1V	2-3	2-3	1-2	2-3	1-2
3.0V	1-2	2-3	1-2	2-3	1-2
2.9V	2-3	1-2	1-2	2-3	1-2
2.8V	1-2	1-2	1-2	2-3	1-2
2.7V	2-3	2-3	2-3	1-2	1-2
2.6V	1-2	2-3	2-3	1-2	1-2

Volt.	Short Pin Settings				
	VID1	VID2	VID3	VID4	VID5
2.5V	2-3	1-2	2-3	1-2	1-2
2.4V	1-2	1-2	2-3	1-2	1-2
2.3V	2-3	2-3	1-2	1-2	1-2
2.2V	1-2	2-3	1-2	1-2	1-2
2.1V	2-3	1-2	1-2	1-2	1-2

*Auto: When all 1-2 pins are shorted, the core voltage will automatically be determined.

BF: Set system bus multiplier ratio jumpers

Use this 3 x 4-pin jumper set to manually set the system bus multiplier ratio. See later in this chapter for information on the system bus multiplier ratio setting required for the processor that you have installed.
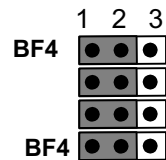
Ratio	Short Pin Settings			
	BF1	BF2	BF3	BF4
Auto*	1-2	1-2	1-2	1-2
2	2-3	2-3	2-3	2-3
4	2-3	1-2	2-3	2-3
3	2-3	2-3	1-2	2-3
5	2-3	1-2	1-2	2-3
2.5	2-3	2-3	2-3	1-2
4.5	2-3	1-2	2-3	1-2
3.5	2-3	2-3	1-2	1-2
5.5	2-3	1-2	1-2	1-2
6	1-2	2-3	2-3	2-3
8	1-2	1-2	2-3	2-3
7	1-2	2-3	1-2	2-3
Res.	1-2	1-2	1-2	2-3
6.5	1-2	2-3	2-3	1-2
1.5	1-2	1-2	2-3	2-3
7.5	1-2	2-3	1-2	1-2
2	1-2	1-2	1-2	1-2

*Auto: When all 1-2 pins are shorted, the system bus multiplier ratio will automatically be determined.