

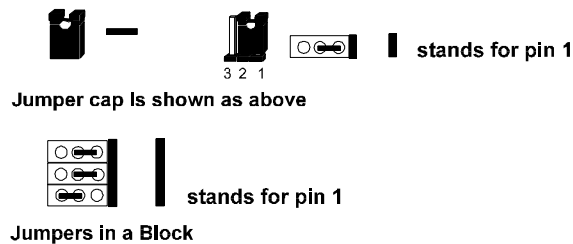
Installation Procedures

The motherboard has several user-adjustable jumpers on the board that allow you to configure your system to suit your requirements. To set up your computer, you should follow these installation steps: 1). set system jumpers; 2). install RAM modules; 3). install the CPU; 4). install expansion cards; 5). connect cables and power supply; 6). set up BIOS feature. 7). set up supporting software tools.

CAUTION : If you use an electric drill to install this motherboard on your chassis, please wear a static wrist strap. The recommended electric drill torque is from 5.0 to 8.0 kg/cm to avoid damaging the chips' pins.

Jumpers

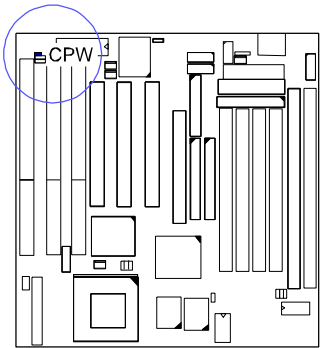
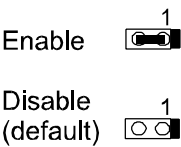
Jumpers are used to select the operation modes for your system. To [set](#) a jumper, a black cap containing metal contacts is placed over the jumper pins according to the required configuration. A jumper is said to be [shorted](#) when the black cap has been placed on one or two of its pins. The types of jumpers used in this manual are shown below:



NOTE: Users are not encouraged to change the jumper settings not listed in this manual. Changing the jumper settings improperly may adversely affect system performance.

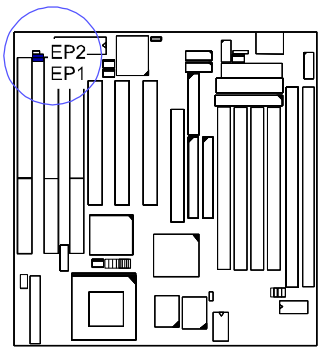
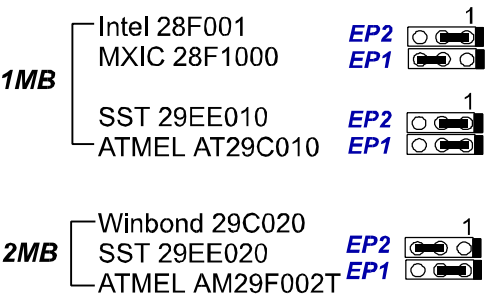
Clear Password: CPW

This jumper allows you to enable or to disable the password configuration. You may need to enable this jumper by shorting it with a jumper cap if you forget your password. To clear the password setting: (1). Turn off your computer, (2). Short this jumper by placing a jumper cap on it, (3). Turn on your computer, (4), Hold down the Delete key during boot and enter BIOS Setup to re-enter user preferences, (5). Turn off your computer, (6). Remove the jumper cap, (7). Turn on your computer for the new settings to take effect.



Flash ROM Type Selection: EP1, EP2

These two jumpers allow you to configure the type of flash ROM chip. This jumper setting is correct by manufactory default. If you want to know the flash ROM type installed on this motherboard, remove the sticker from the chip to see its type.



Power Supply Type Selection: PWR

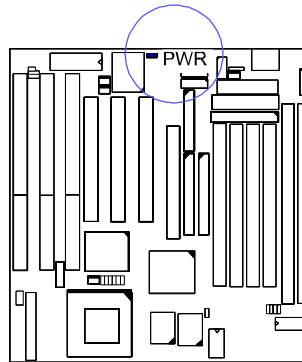
This jumper allows you to select the power supply type that you use: an AT or ATX power supply while both power supply connectors onboard. If only one type of power supply connector onboard, this jumper will be wired by the manufacturer.



ATX Power Supply
AT Power Supply with Remote Feature



AT Power Supply without Remote Feature
(default)



CPU to SRAM Data Transacting Mode Selection: SRAM

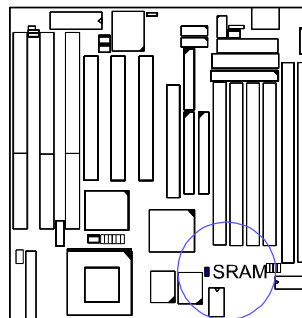
This jumper allows you to select the CPU to SRAM data read/write mode. If you install a Cyrix or IBM processor on this motherboard, please set at 2-3 pin pair. Please also read Linear Burst feature of BIOS Setup, Chapter 3 for more information.



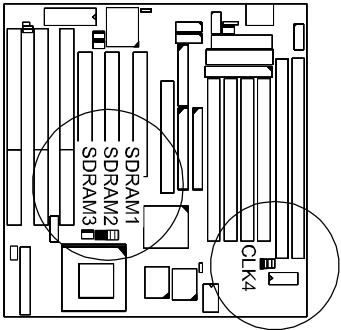
Intel Burst
(default)
For
Intel, AMD,
Cyrix,
IBM CPUs



Linear Burst
For
Cyrix,
IBM CPUs

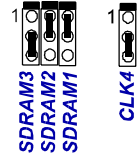
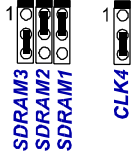
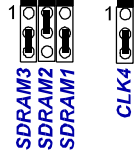
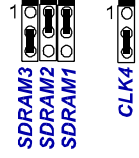


**DIMM Frequency: CLK4,
SDRAM1 &
System Frequency: SDRAM2,
SDRAM3**



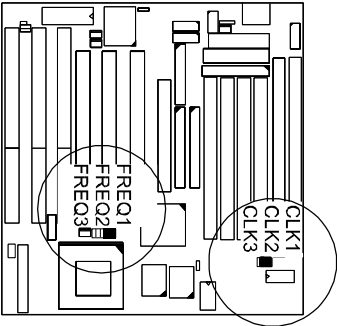
<div>CPU External Freq.</div> <div>DIMM Freq.</div>	PC-100 -6ns, -7ns, -8ns	Non PC-100 -8ns, -10ns, -12ns, above
100MHz	<div>SDRAM3</div> <div>SDRAM2</div> <div>SDRAM1</div> <div>CLK4</div>	<div>SDRAM3</div> <div>SDRAM2</div> <div>SDRAM1</div> <div>CLK4</div>
83MHz	<div>SDRAM3</div> <div>SDRAM2</div> <div>SDRAM1</div> <div>CLK4</div>	<div>SDRAM3</div> <div>SDRAM2</div> <div>SDRAM1</div> <div>CLK4</div> <div>*</div> <div>SDRAM3</div> <div>SDRAM2</div> <div>SDRAM1</div> <div>CLK4</div> <div>**</div>
75MHz	<div>SDRAM3</div> <div>SDRAM2</div> <div>SDRAM1</div> <div>CLK4</div>	<div>SDRAM3</div> <div>SDRAM2</div> <div>SDRAM1</div> <div>CLK4</div> <div>*</div> <div>SDRAM3</div> <div>SDRAM2</div> <div>SDRAM1</div> <div>CLK4</div> <div>**</div>
66MHz	<div>SDRAM3</div> <div>SDRAM2</div> <div>SDRAM1</div> <div>CLK4</div>	<div>(Default)</div> <div>SDRAM3</div> <div>SDRAM2</div> <div>SDRAM1</div> <div>CLK4</div>

** set for stable performance;*
***set for high performance, but some SDRAM may make the system unstable.*

<div>CPU External Freq.</div> <div>DIMM Freq.</div>	PC-100 -6ns, -7ns, -8ns	Non PC-100 -8ns, -10ns, -12ns, above
124MHz	N/A	
112MHz	N/A	
95MHz		

CPU External (BUS) Frequency:
CLK1, CLK2, CLK3

The table below shows the jumper settings for the different CPU speed configurations.



124MHz*		112MHz*		100 MHz		75 MHz	
	CLK3 CLK2 CLK1		CLK3 CLK2 CLK1		CLK3 CLK2 CLK1		CLK3 CLK2 CLK1
		95MHz		83 MHz		66 MHz	
			CLK3 CLK2 CLK1		CLK3 CLK2 CLK1		CLK3 CLK2 CLK1

* : When it selected, the system performance will not be guaranteed.

CPU to Bus Frequency Ratio: FREQ1, FREQ2, FREQ3

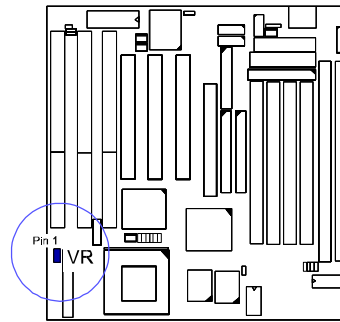
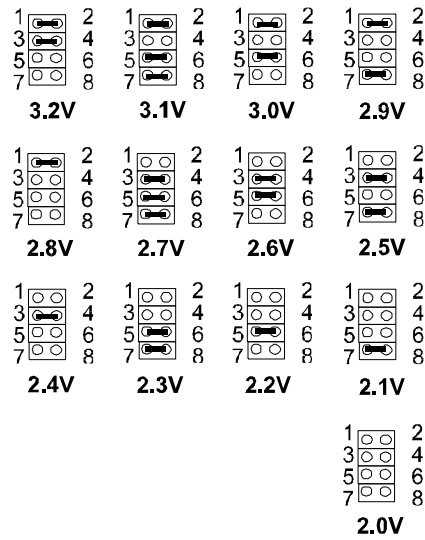
These three jumpers are used in combination to decide the ratio of the internal frequency of the CPU to the bus clock.

2 x		3 x		4 x		5 x	
	FREQ3 FREQ2 FREQ1		FREQ3 FREQ2 FREQ1		FREQ3 FREQ2 FREQ1		FREQ3 FREQ2 FREQ1
2.5 x		3.5 x		4.5 x		5.5 x	
	FREQ3 FREQ2 FREQ1		FREQ3 FREQ2 FREQ1		FREQ3 FREQ2 FREQ1		FREQ3 FREQ2 FREQ1

Set CPU Voltage

This section lists all possible CPU voltages that this motherboard supports. There are three rows of CPU voltage (core voltage) jumper setting in the diagram below.

NOTE : Please refer to your CPU top marking about the actual CPU voltage.



This Page Left for Note