

# 6VA

## USER'S MANUAL

1. **System power on by PS/2 Mouse:** First, enable this function in CMOS Setup, then you can power on the system by double clicking the right or left button of your PS/2 Mouse.
2. **System power on by Keyboard:** If your ATX power supply supports larger than 300 mA 5V Stand-By current, you can power on your system by entering password from the Keyboard after setting the "Keyboard power on" jumper (JP1) and password in CMOS Setup.
3. **Support Modem Ring-On.** (Include internal Modem and external modem on COM A and COM B)
4. **Wake-up on LAN supports(on J11):** Your ATX power supply must support larger than 720 mA 5V Stand-By current.
5. **Support 3 steps ACPI LED.**

For Intel Pentium<sup>®</sup> II / III / Celeron<sup>™</sup> Processor MAINBOARD  
REV. 2.8 First Edition  
R-28-01-090122



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Jan 22, 1999 Taipei, Taiwan

## I. Quick Installation Guide :

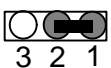
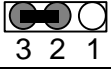
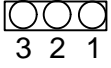
### CPU SPEED SETUP

The system bus speed can be selectable between 66.6MHz and 100MHz. The user can select the system bus speed (JP8) and change the DIP SWITCH selection to set up the CPU speed for 233 - 633MHz processor.

● **The CPU speed must match with the frequency RATIO. It will cause system hanging up if the frequency RATIO is higher than CPU's.**

FREQ. RATIO	DIP SWITCH			
	1	2	3	4
X 3	ON	OFF	ON	ON
X 3.5	OFF	OFF	ON	ON
X 4	ON	ON	OFF	ON
X 4.5	OFF	ON	OFF	ON
X 5	ON	OFF	OFF	ON
X 5.5	OFF	OFF	OFF	ON
X 6	ON	ON	ON	OFF
X 6.5	OFF	ON	ON	OFF
X 7	ON	OFF	ON	OFF
X 7.5	OFF	OFF	ON	OFF
X 8	ON	ON	OFF	OFF
X 8.5	OFF	ON	OFF	OFF
X 9	ON	OFF	OFF	OFF
X 9.5	OFF	OFF	OFF	OFF

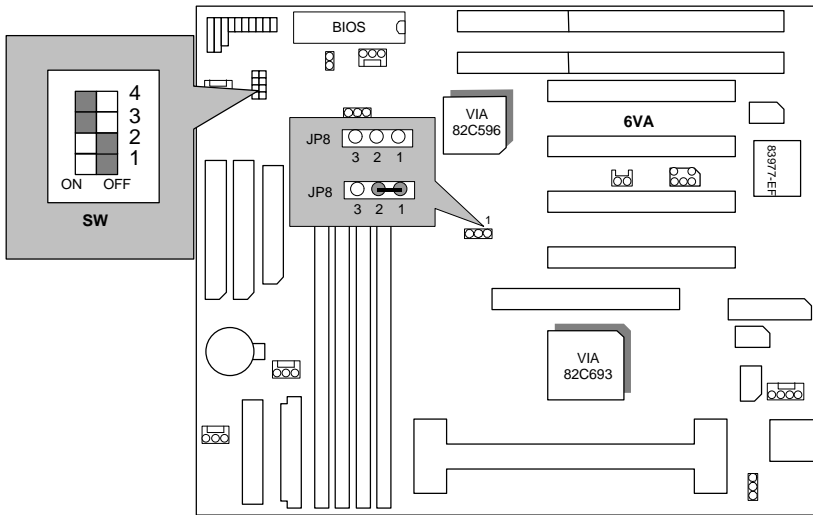
**JP8** (Select the system speed between 66.6MHz and 100MHz)

<b>1-2 Close</b>  3 2 1	<b>Set system speed to 66MHz</b> - system always run at 66MHz FSB (Front Side Bus).
<b>2-3 Close</b>  3 2 1	<b>Set system speed to Auto</b> - system speed detect automatically (66/ 100MHz FSB).
<b>1-2-3 Open</b>  3 2 1	<b>Set system speed to 100MHz</b> - system always run at 100MHz FSB (Front Side Bus).

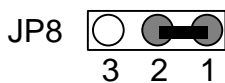
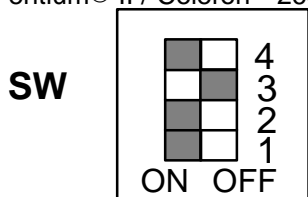
**There are two ways to set system speed**

- A. 66MHz forced (JP8 1-2 short) or Auto detect (2-3 short)
- B. 100MHz forced (JP8 1-2-3 open) or Auto detect (2-3 short)

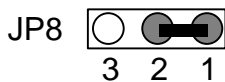
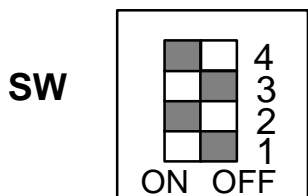
1. Pentium® II / Celeron™ 233 / 66 MHz FSB



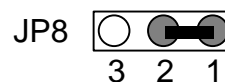
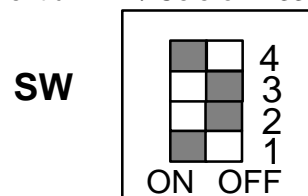
2. Pentium® II / Celeron™ 266 / 66 MHz FSB



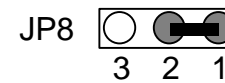
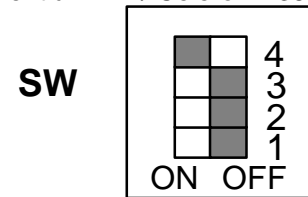
3. Pentium® II / Celeron™ 300MHz / Celeron™ 300A MHz/66MHz FSB



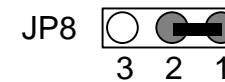
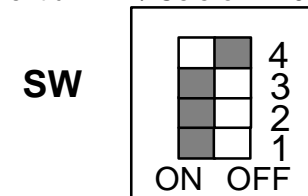
4. Pentium® II / Celeron™ 333 / 66 MHz FSB



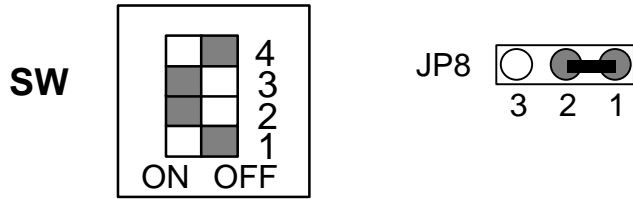
5. Pentium® II / Celeron™ 366 / 66 MHz FSB



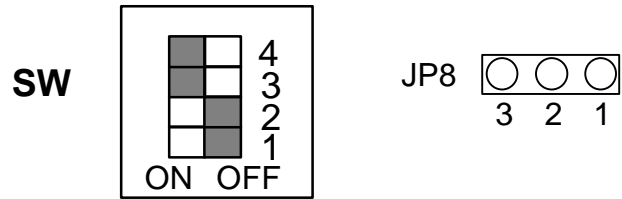
6. Pentium® II / Celeron™ 400 MHz / 66MHz FSB



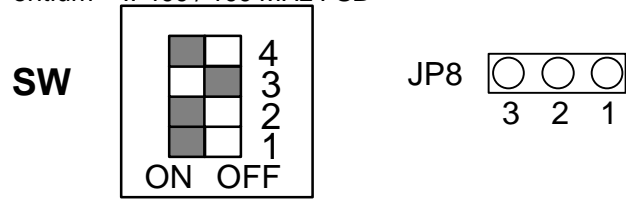
7. Pentium® II / Celeron™ 433 MHz / 66MHz FSB



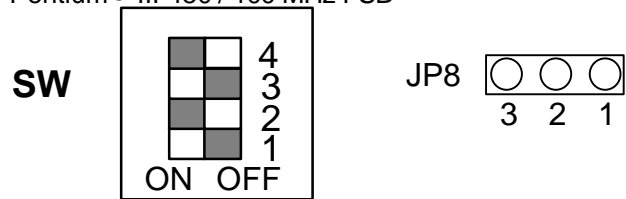
8. Pentium® II 350 / 100 MHz FSB



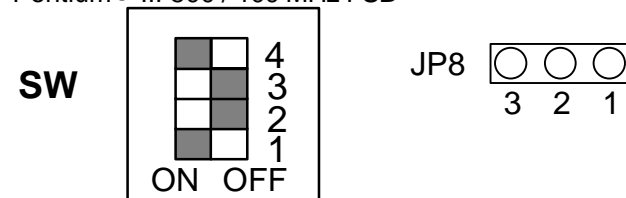
9. Pentium® II 400 / 100 MHz FSB



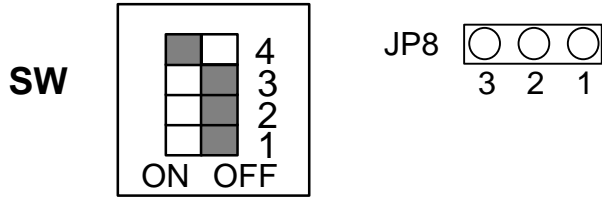
10. Pentium® III 450 / 100 MHz FSB



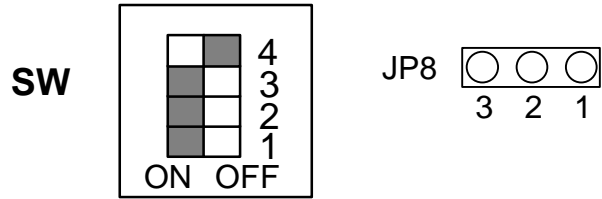
11. Pentium® III 500 / 100 MHz FSB



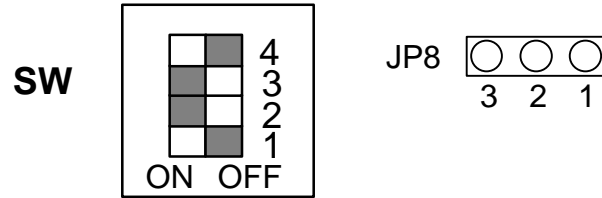
12. Pentium® III 550MHz / 100MHz FSB



13. Pentium® III 600MHz / 100MHz FSB



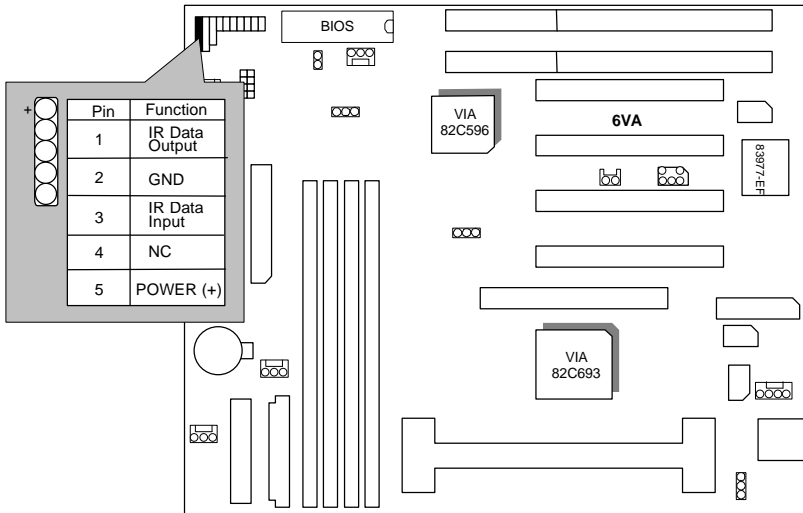
14. Pentium® III 650MHz / 100MHz FSB



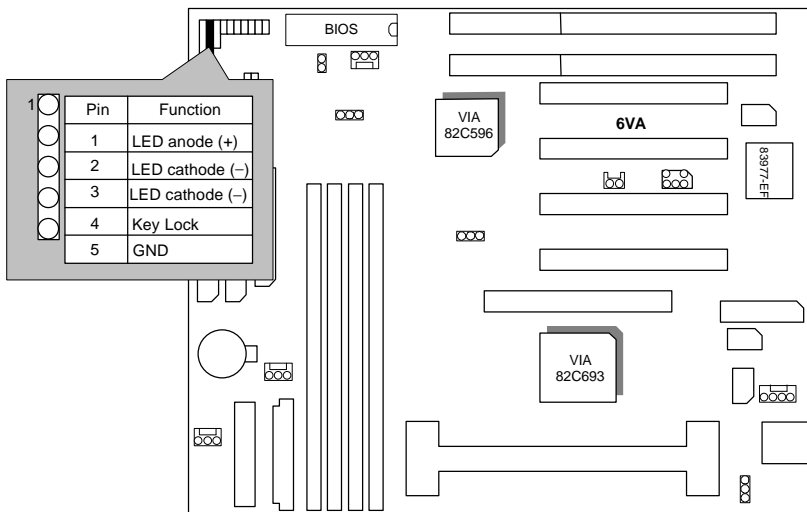


**II. Jumper setting :**

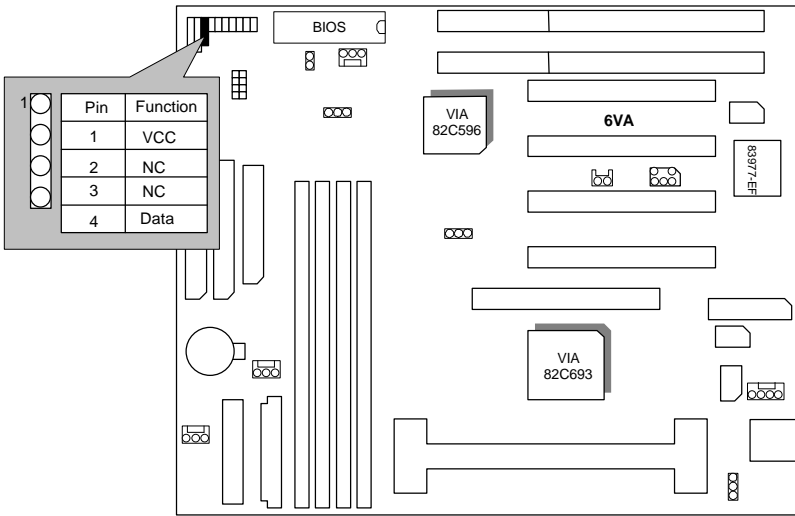
IR : Infrared Connector (Optional)



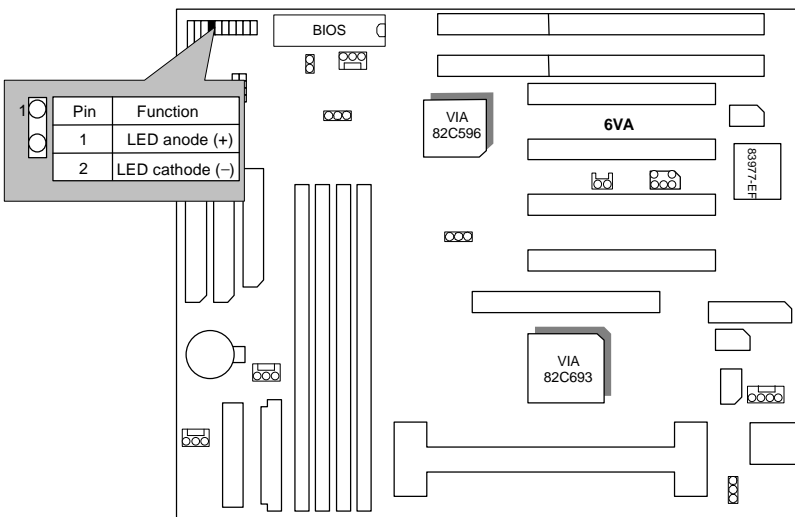
PWR : Power LED / Key-Lock Connector



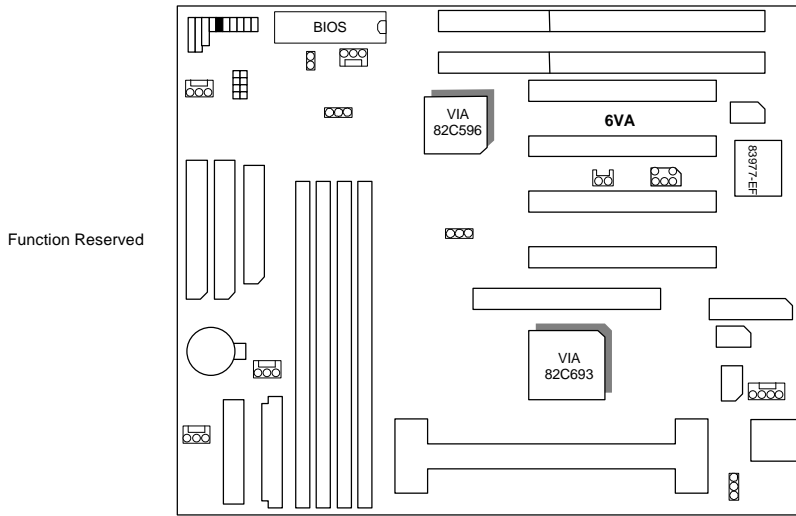
SPK : Speaker Connector



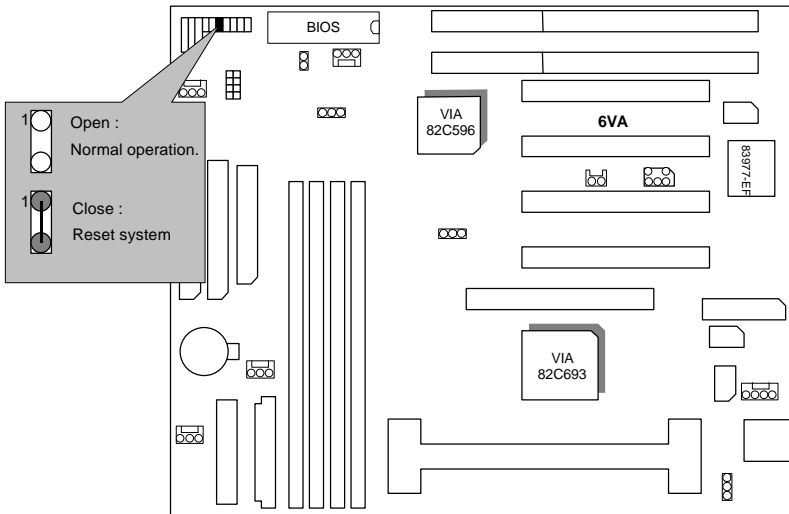
TD : Turbo LED Connector



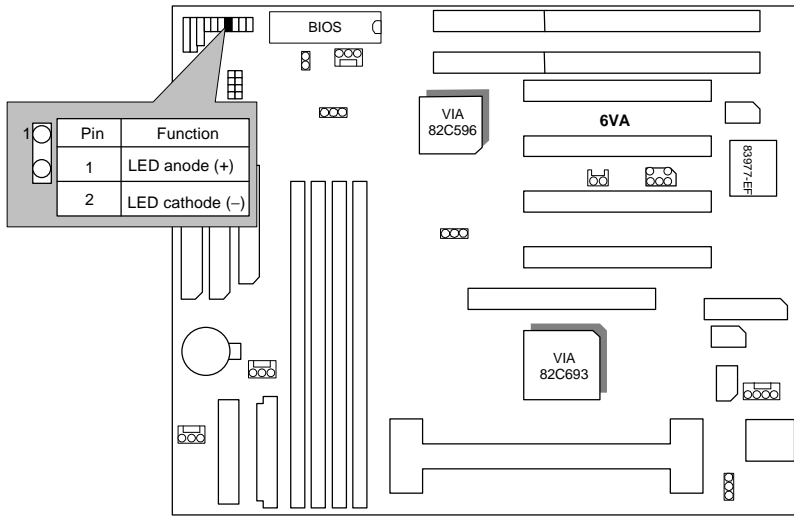
TB : Turbo Switch Connector



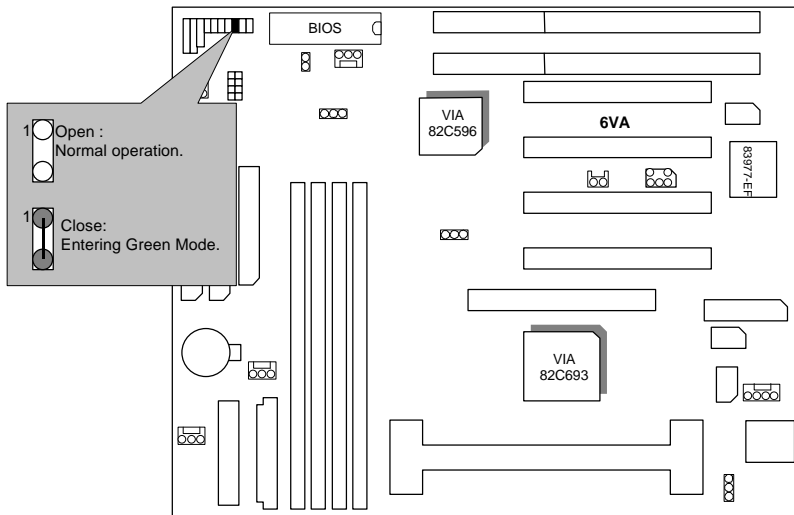
RST : Reset Switch



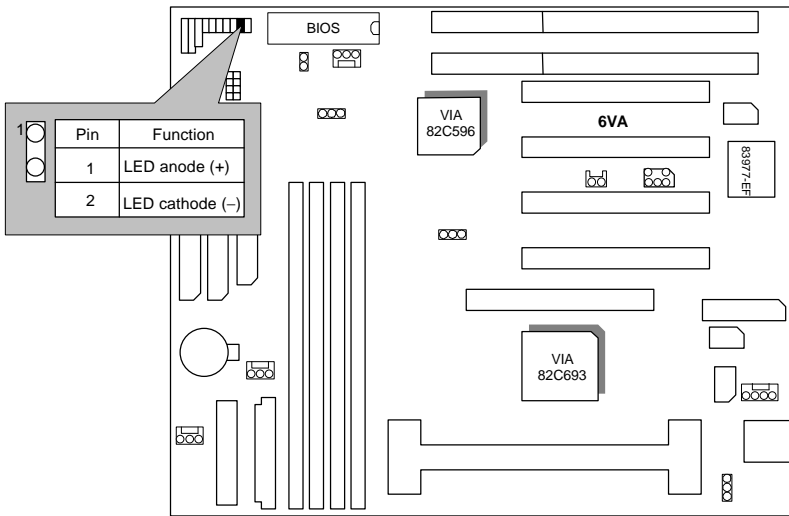
GD : Green Function LED



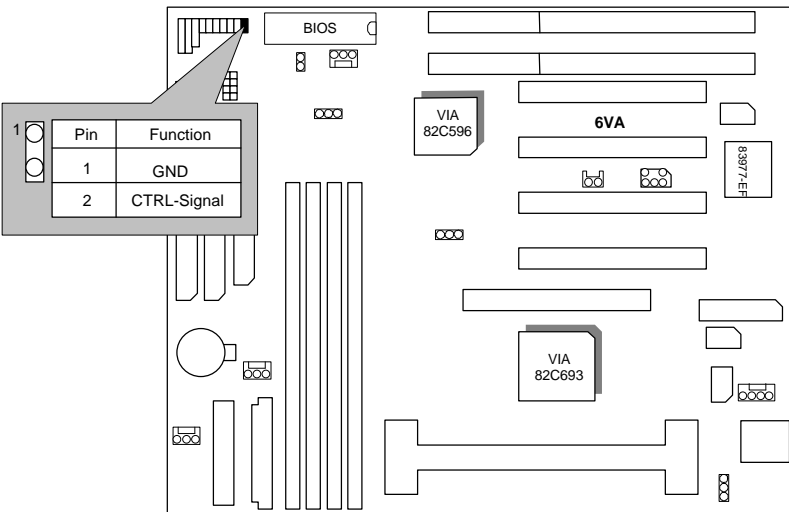
GN : Green Function Switch



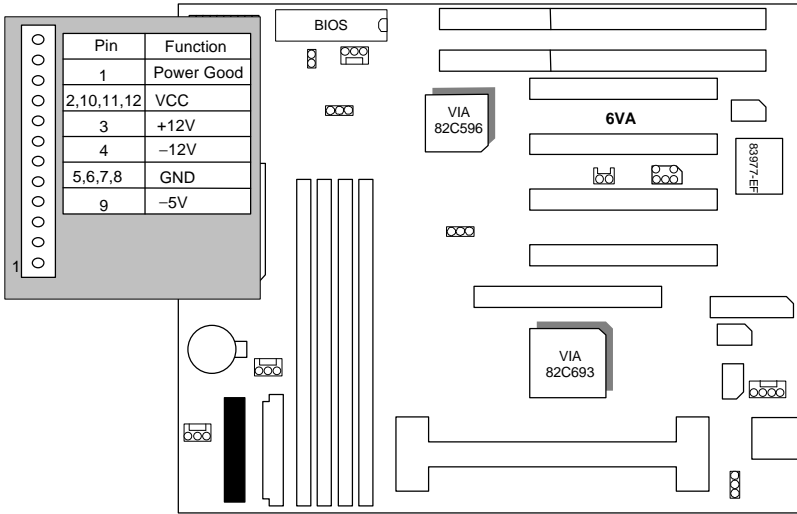
HD : IDE Hard Disk Active LED



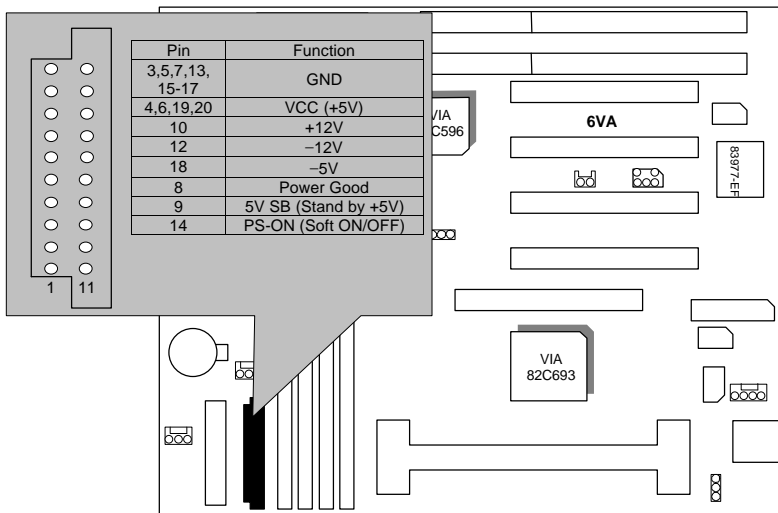
Soft PWR : Soft Power Connector



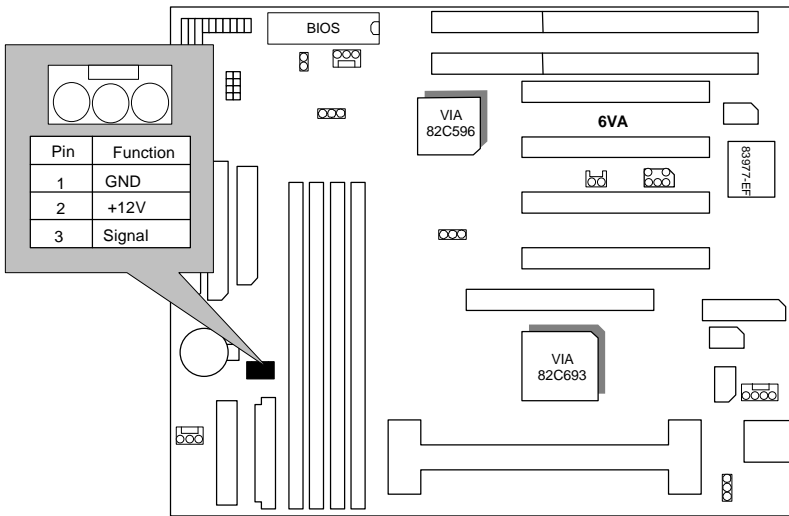
**POWER : P8&P9 Power Connector**



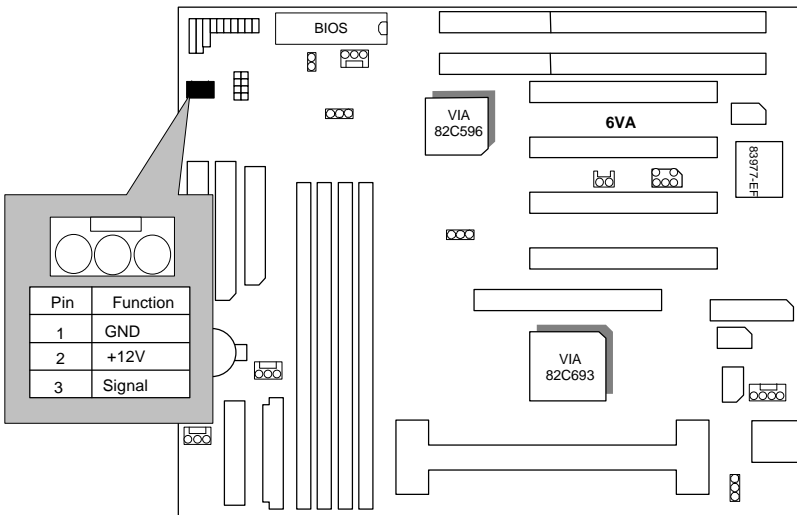
**ATX POWER : ATX POWER Connector**



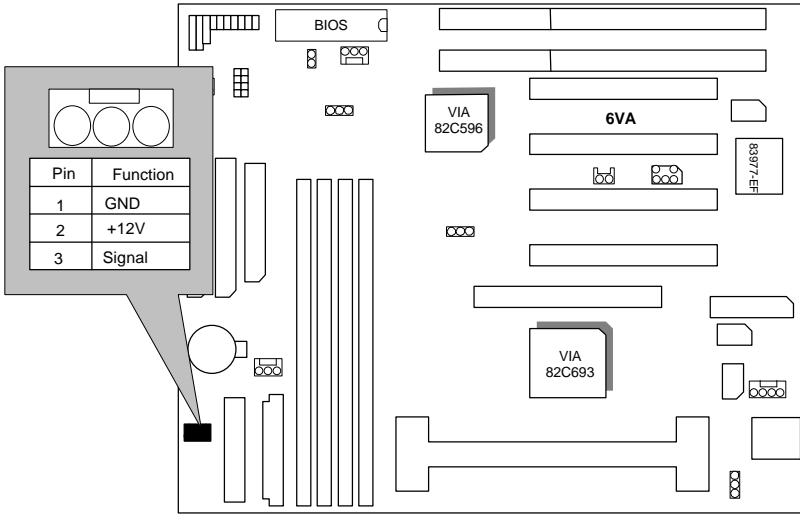
CPU FAN : CPU Cooling Fan Power Connector



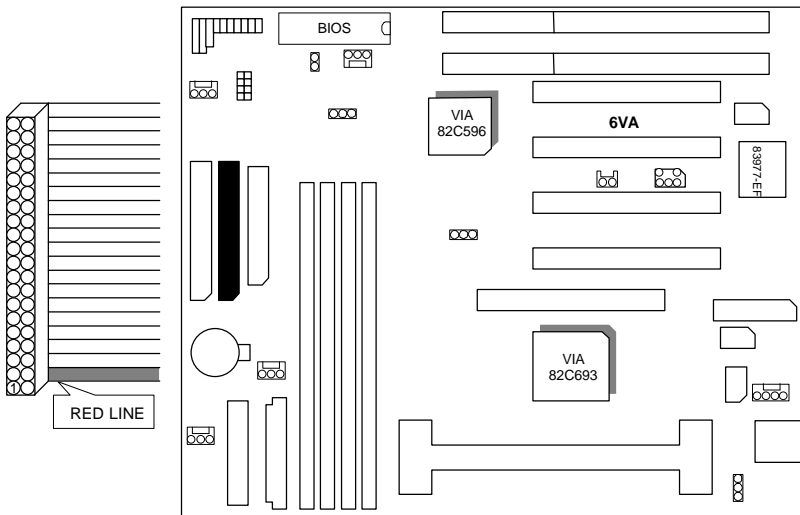
SYSTEM FAN : SYSTEM Fan Power Connector



POWER FAN : POWER Fan Connector

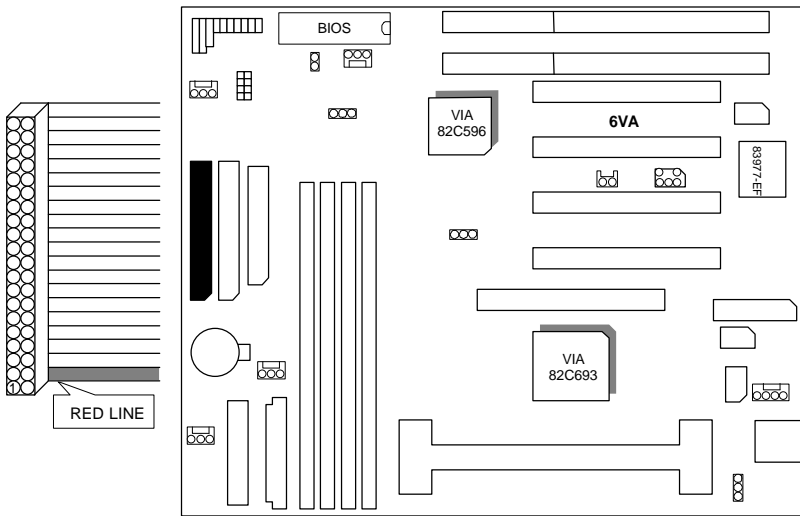


IDE1: Primary IDE port

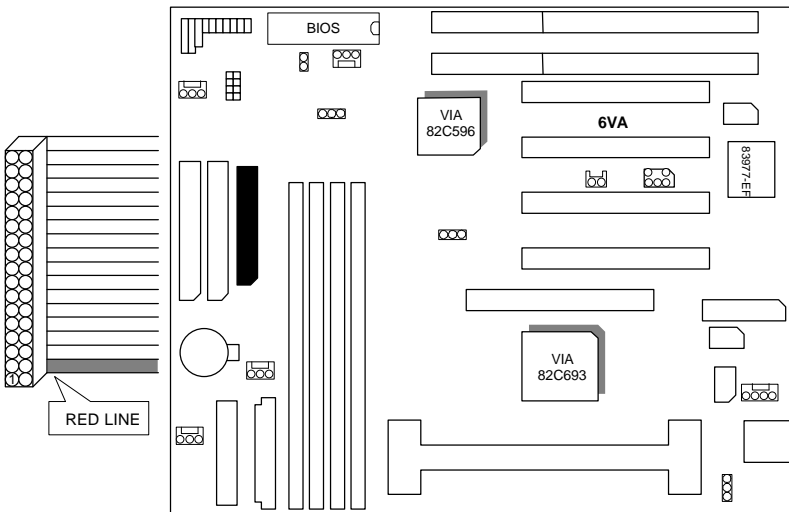




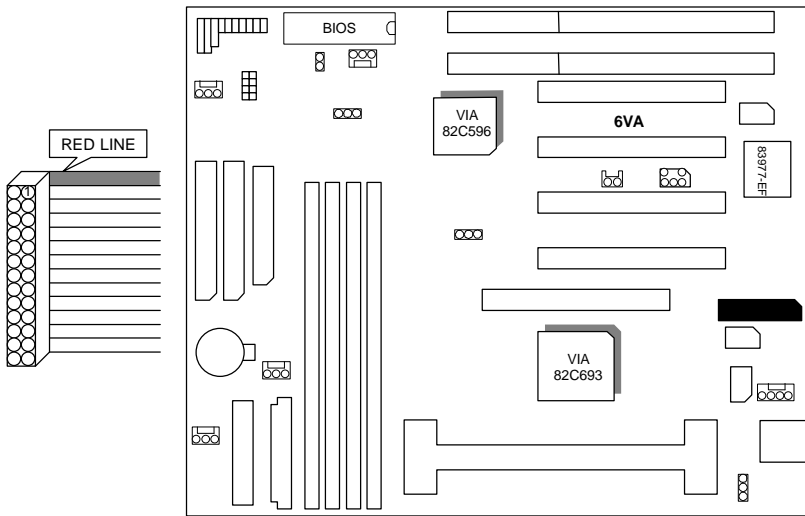
IDE2: Secondary IDE port



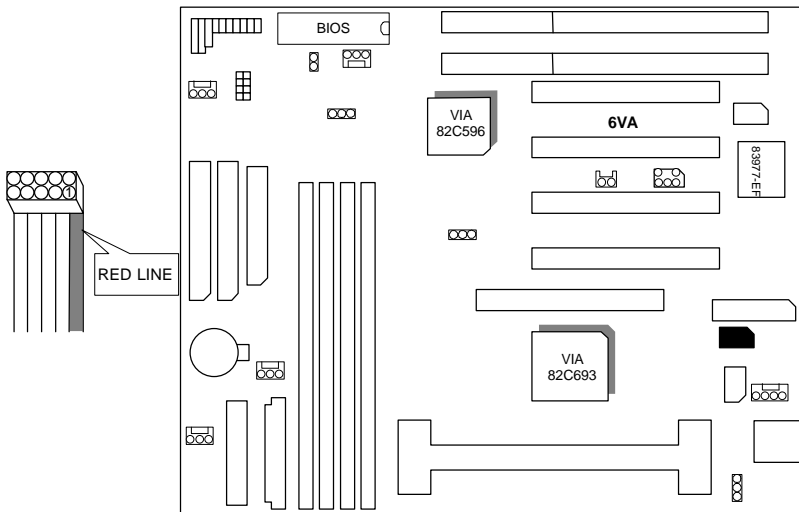
FLOPPY : FLOPPY PORT



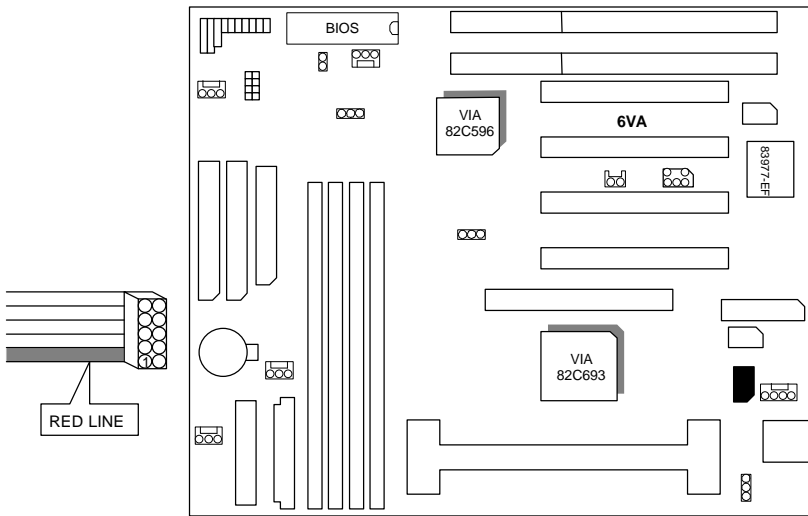
LPT : LPT PORT



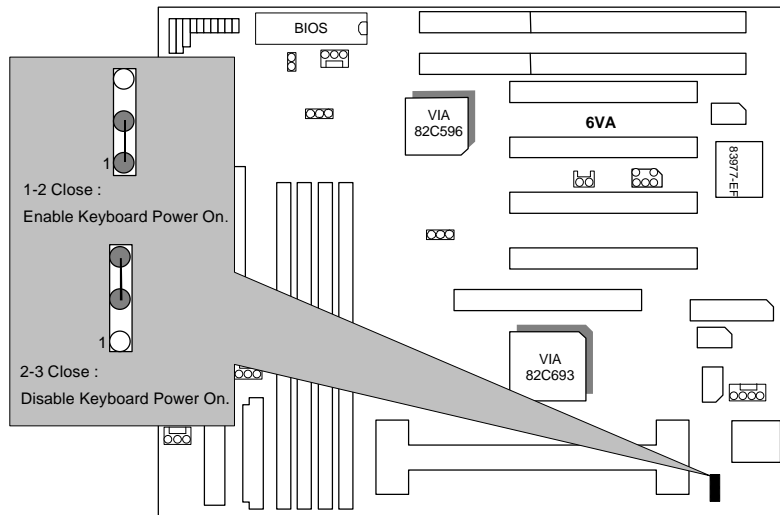
COMB : COM B PORT



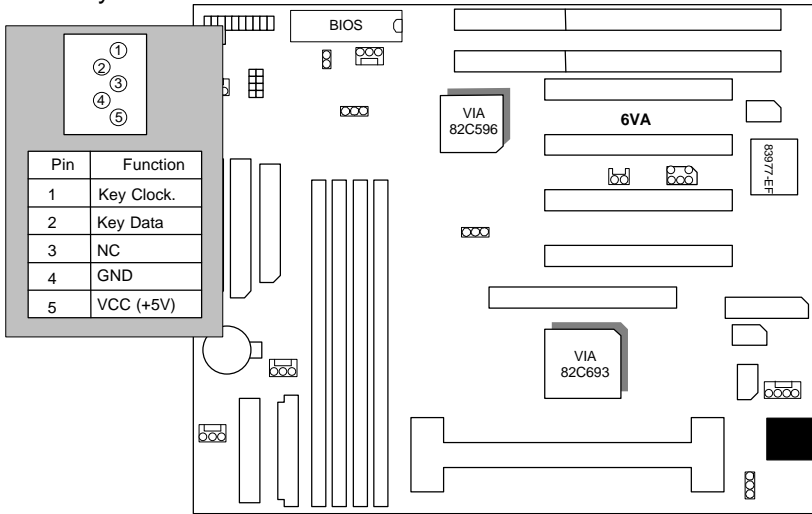
COMA : COM A PORT



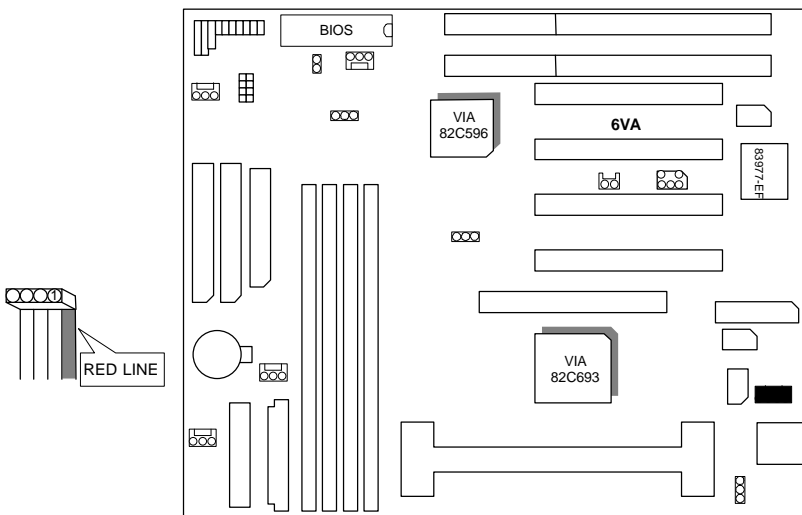
JP1 : Keyboard Power On (for ATX Power Supply only)



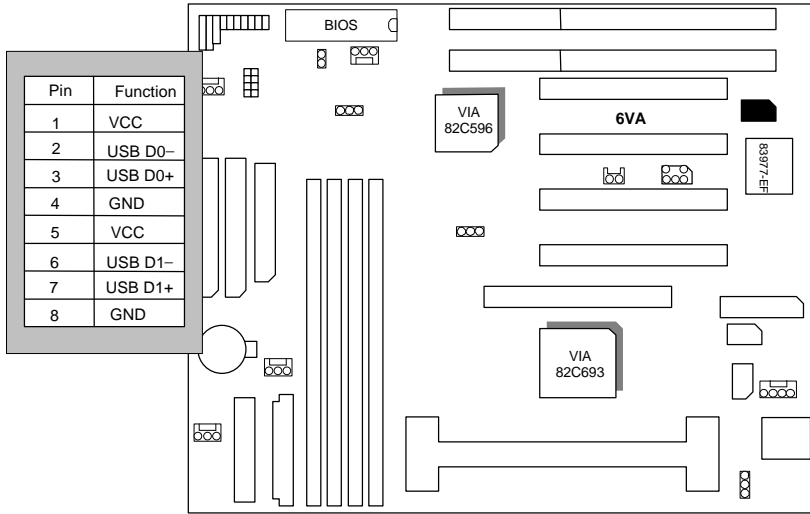
**K.B : Keyboard Connector**



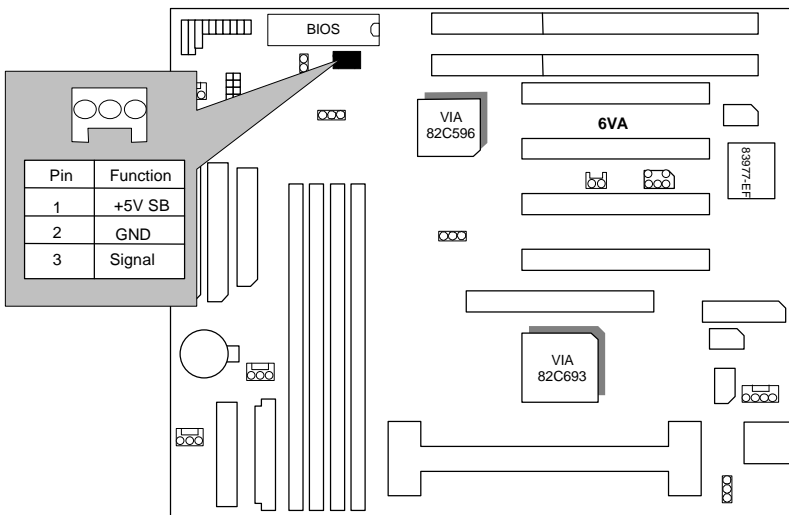
**J4 : PS/2 MOUSE**



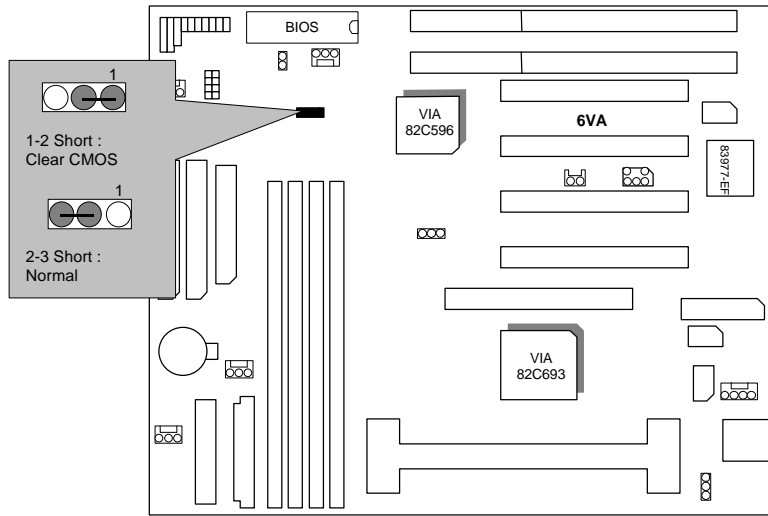
USB : USB Port



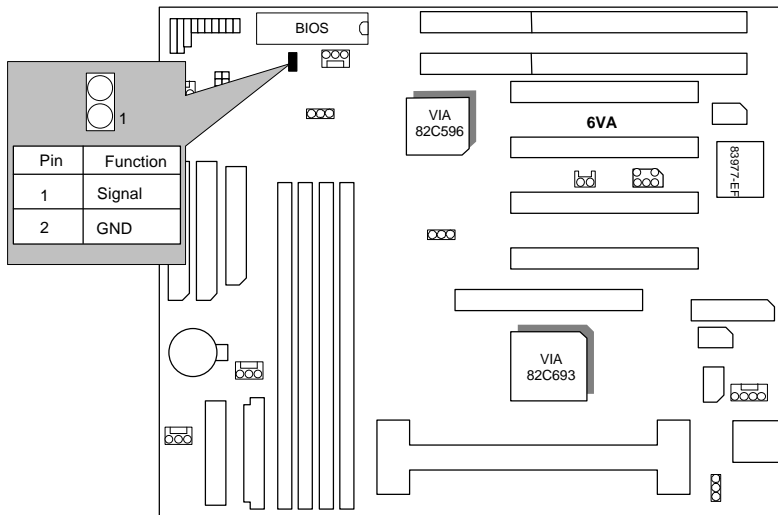
J11 : Wake on Lan  
(for ATX Power Supply only)



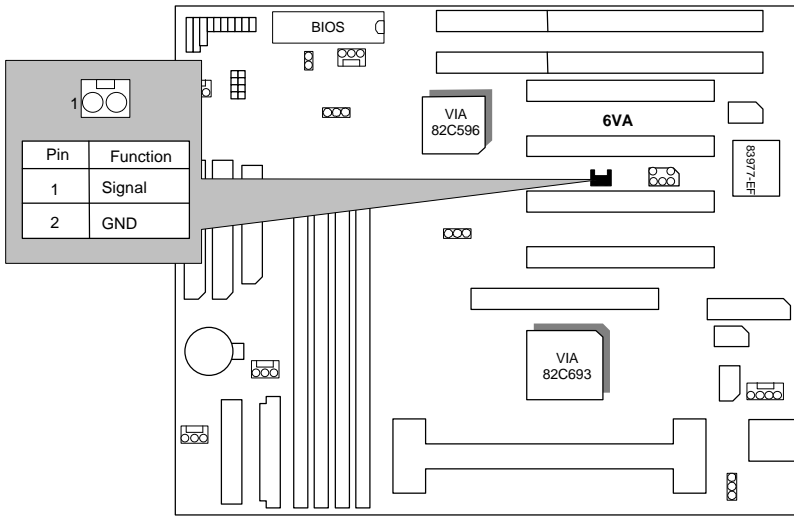
**JP9 : CLEAR CMOS**



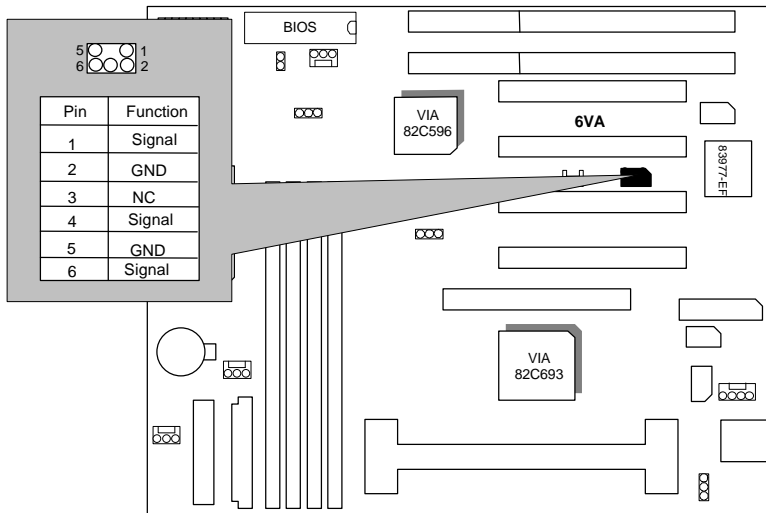
**JP10 : CASE OPEN (Optional)**



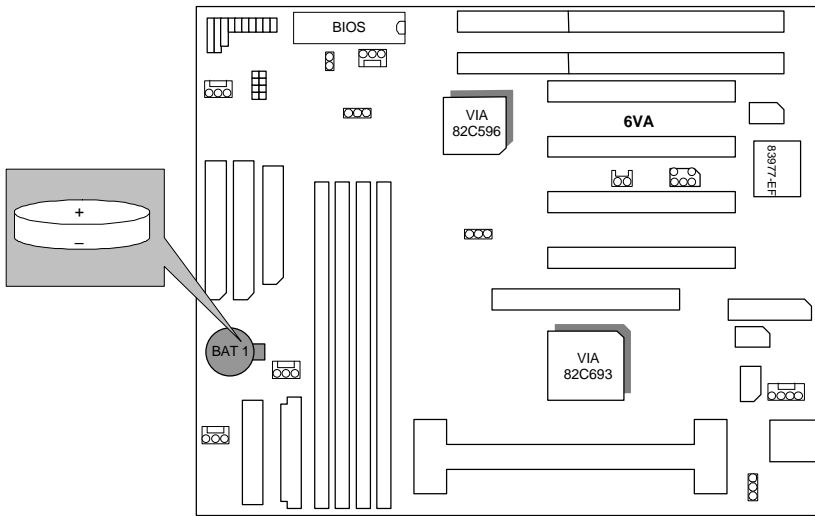
J19 : Internal Modem Card Ring PWR On



SB-LINK : For PCI Audio / Sound Card use only  
(Creative PCI Sound Card Support)



BAT1 : For Battery



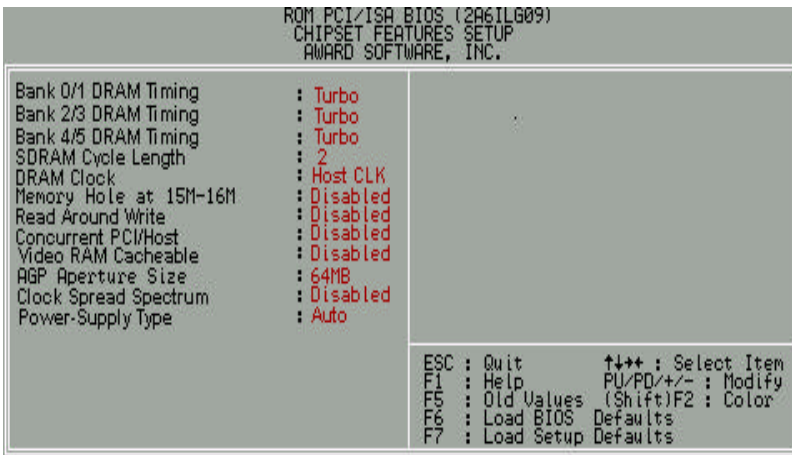
- ⚠ Danger of explosion if battery is incorrectly replaced.
- ⚠ Replace only with the same or equivalent type recommended by the manufacturer.
- ⚠ Dispose of used batteries according to the manufacturer's instructions.



### III. Top Performance Test Setting:

The following performance data list is the testing results of some popular benchmark testing programs.

Users have to modify the value for each item in chipset features as follow for top performance setting.



These data are just referred by users, and there is no responsibility for different testing data values gotten by users. (The different Hardware & Software configuration will result in different benchmark testing results.)

- CPU Pentium® III processor
- DRAM (128x1)MB SDRAM (MITSUBSHI M5M4V64S30ATP-8)
- CACHE SIZE 512 KB included in CPU
- DISPLAY GA-630 AGP Display Card (16MB SGRAM)
- STORAGE Onboard IDE (Seagate ST34520A)
- O.S. Windows NT™4.0 SPK4
- DRIVER Display Driver at 1024 x 768 x 64k colors x 75Hz.  
VIA Bus Master IDE Driver

Processor	Intel Pentium® III	
	450MHz(100x4.5)	400MHz(100x4)
<b>Winbench99</b>		
CPU mark32	1130	1010
FPU Winmark	2280	2050
Business Disk	4450	4330
Hi-End Disk	10500	10300
Business Graphics	193	178
Hi-End Graphics	347	315
<b>Winstone99</b>		
Business	29.7	25.8
Hi-End	27.3	25.6