6BXC

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 (dependent on the specification of keyboards), you can power on your system by entering password from the keyboard after setting the "Keyboard power on" password in CMOS Setup.**

3. **Supports 3 steps ACPI LED.**

4. **Modem Ring-On. (COM A , B).**

5. **Wake-Up on LAN. (on JP7) (The ATX power supply supports larger than 720 mA 5V Stand-By current)**

For Intel Pentium â II / III / Celeron™ Processor MAINBOARD
REV. 2.0 First Edition

R-20-01-090429

The author assumes no responsibility for any errors or omissions which may appear in this document nor does it make a commitment to update the information contained herein.

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Apr. 29, 1999 Taipei, Taiwan

I. Quick Installation Guide :

CPU SPEED SETUP

The system bus speed is selectable between 66 / 100 MHz. The user can select the system bus speed **(SW1)** and change the DIP SWITCH **(SW2)** selection to set up the CPU speed for 233 - 633MHz processor.

Set System Bus Speed

SW1:

CPU	AGP	1	2	3	4
100 MHz	66 MHz	OFF	OFF	OFF	OFF
133 MHz	89 MHz	OFF	OFF	ON	OFF
112 MHz	75 MHz	OFF	ON	OFF	OFF
66 MHz	66 MHz	ON	OFF	OFF	ON
75 MHz	75 MHz	ON	ON	OFF	ON
83 MHz	83 MHz	ON	OFF	ON	ON

The CPU speed MUST match with the frequency RATIO. It will cause system hanging up if the frequency RATIO is higher than that of CPU.

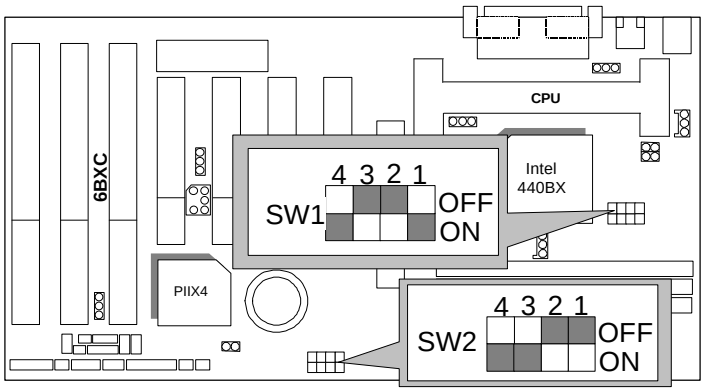
SW2:

CLK RATIO	1	2	3	4
X3	ON	OFF	ON	ON
X3.5	OFF	OFF	ON	ON
X4	ON	ON	OFF	ON
X4.5	OFF	ON	OFF	ON
X5	ON	OFF	OFF	ON
X5.5	OFF	OFF	OFF	ON
X6	ON	ON	ON	OFF
X6.5	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

♦Note: It's strongly recommended that set the system speed according to your hardware configuration: CPU, SDRAM, Cards, etc.

☞ **The black part in the picture is the white extruding piece of the DIP switch.**

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



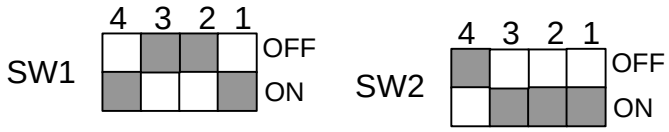
2. Pentium® II /Celeron™ 266 / 66 MHz FSB

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

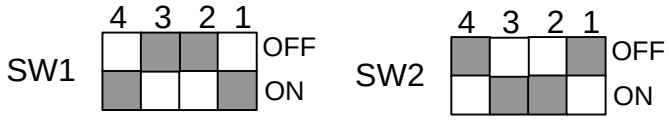
4. Pentium® II /Celeron™ 333 / 66 MHz FSB

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

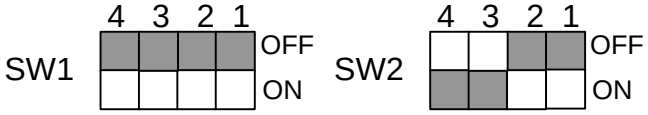
6. Pentium® II /Celeron™ 400 / 66MHz FSB



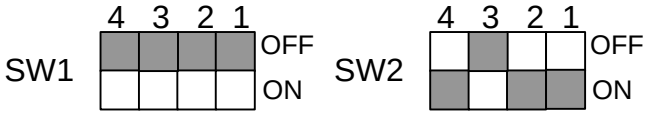
7. Pentium® II /Celeron™ 433 / 66MHz FSB



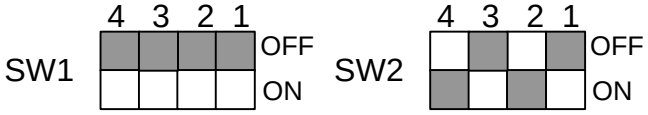
8. Pentium® II 350 / 100 MHz FSB



9. Pentium® II 400 / 100 MHz FSB



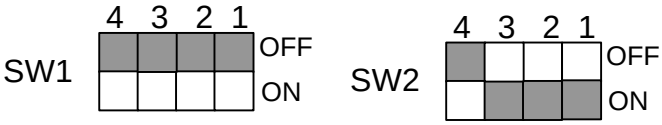
10. Pentium® III 450 / 100 MHz FSB



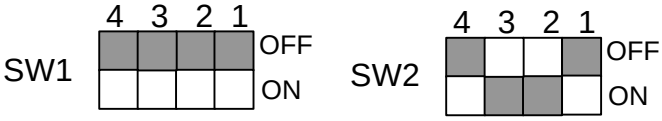
11. Pentium® III 500 / 100 MHz FSB

12. Pentium® III 550 / 100 MHz FSB

13. Pentium® III 600 / 100 MHz FSB

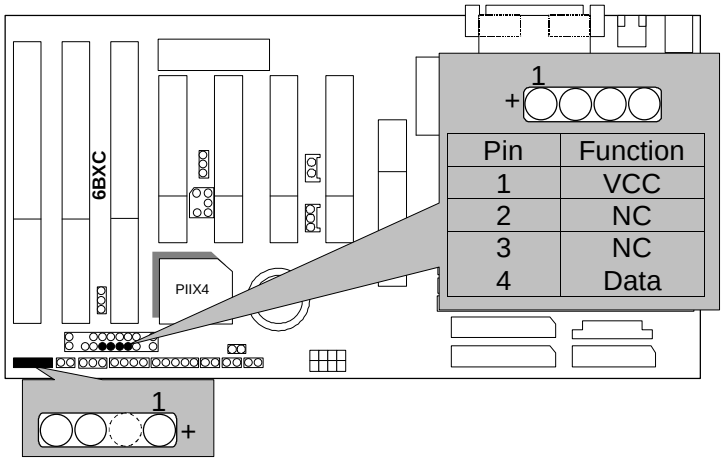


14. Pentium® III 650 / 100 MHz FSB



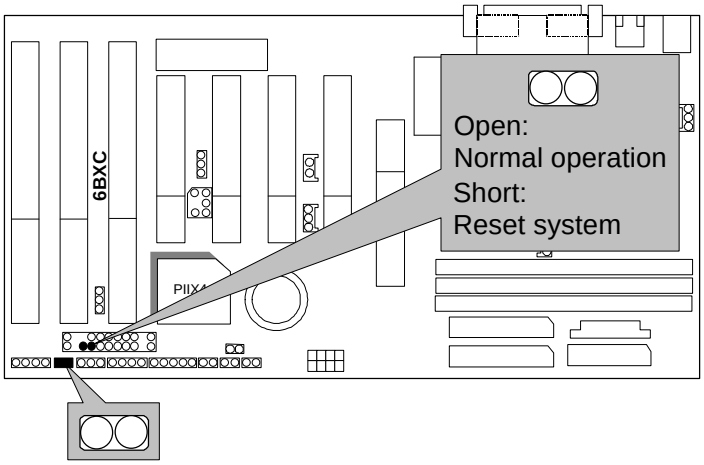
II. Jumper setting :

SPK : Speaker Connector

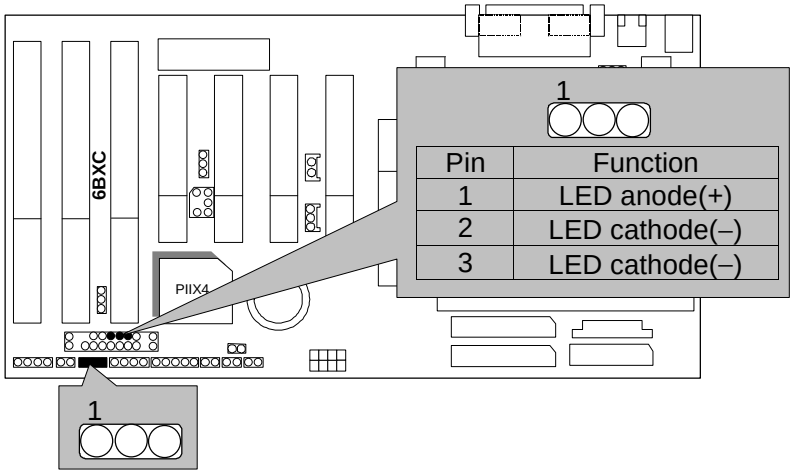


Pin	Function
1	VCC
2	NC
3	NC
4	Data

RE : Reset Switch

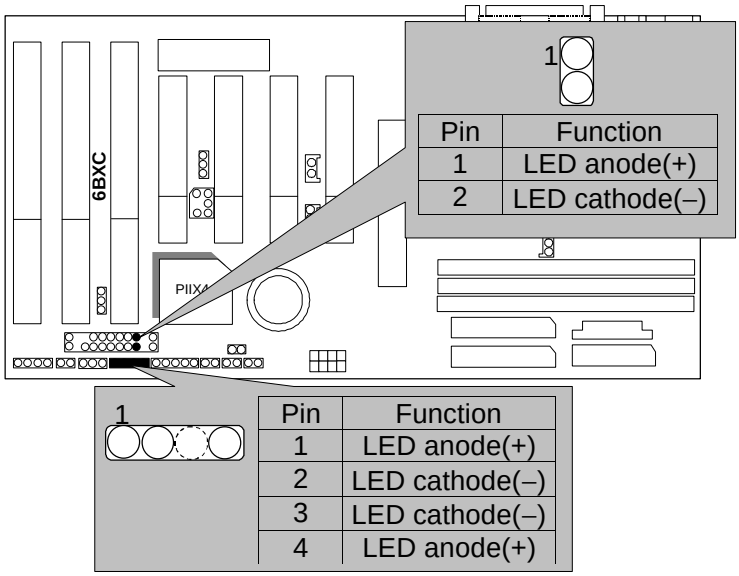


PW LED : Power LED Connector



Pin	Function
1	LED anode(+)
2	LED cathode(–)
3	LED cathode(–)

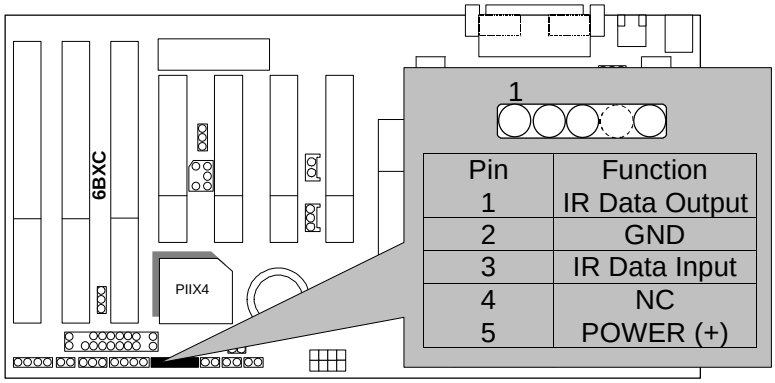
HD : IDE Hard Disk Active LED



Pin	Function
1	LED anode(+)
2	LED cathode(–)

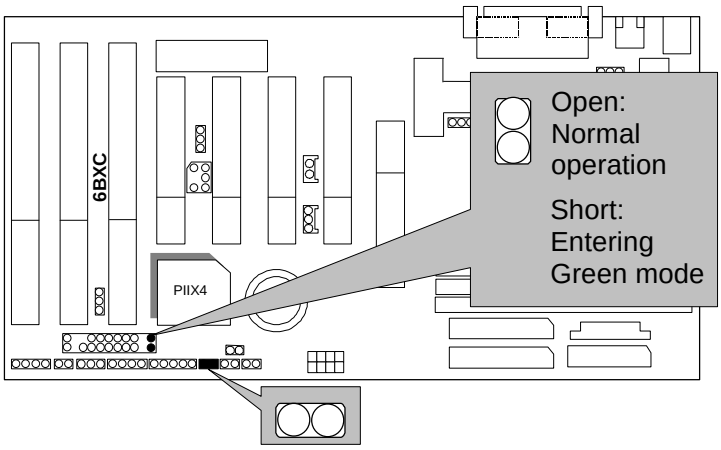
Pin	Function
1	LED anode(+)
2	LED cathode(–)
3	LED cathode(–)
4	LED anode(+)

IR : Infrared Connector (Optional)

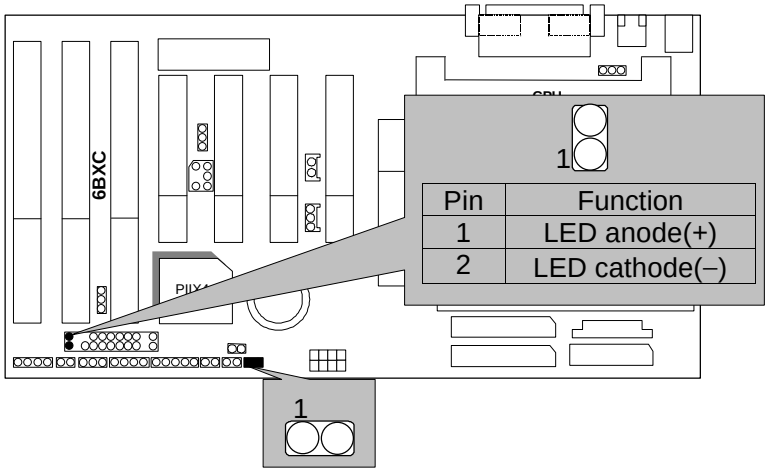


Pin	Function
1	IR Data Output
2	GND
3	IR Data Input
4	NC
5	POWER (+)

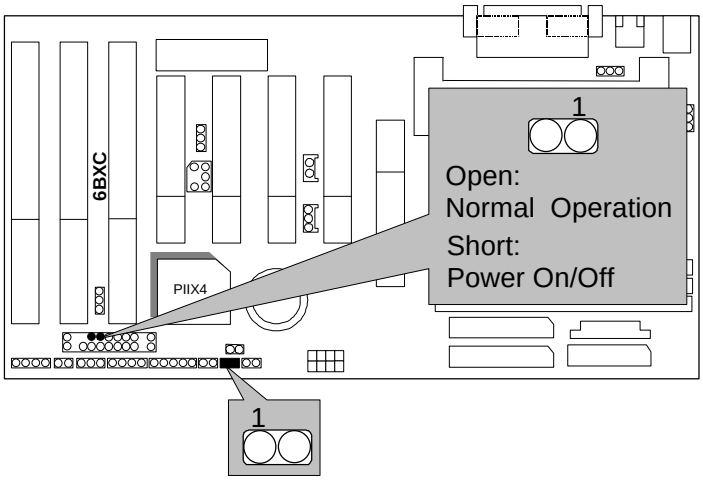
GN : Green Function Switch



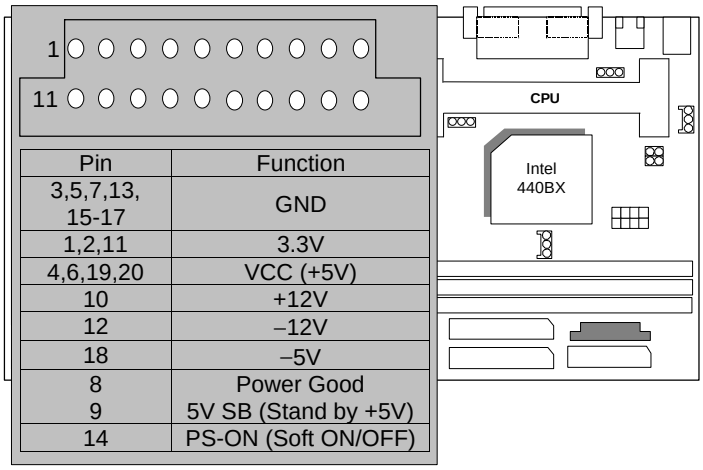
GD : Green LED



PW: Soft Power Connector

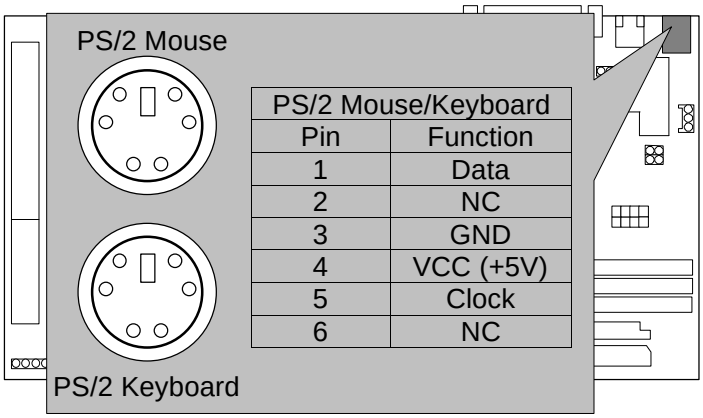


POWER1 : Power Connector



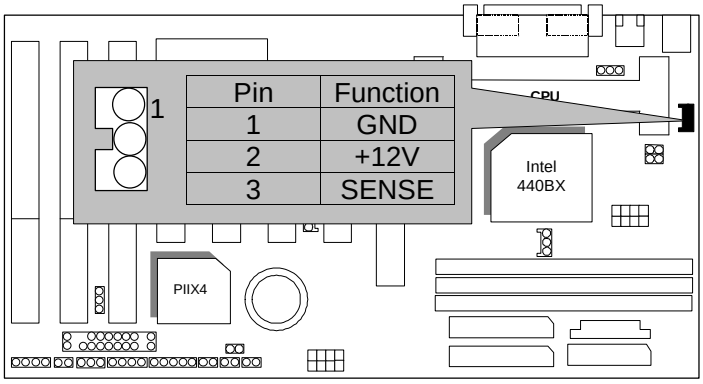
Pin	Function
3,5,7,13, 15-17	GND
1,2,11	3.3V
4,6,19,20	VCC (+5V)
10	+12V
12	–12V
18	–5V
8 9	Power Good 5V SB (Stand by +5V)
14	PS-ON (Soft ON/OFF)

PS/2 Mouse / Keyboard Connector

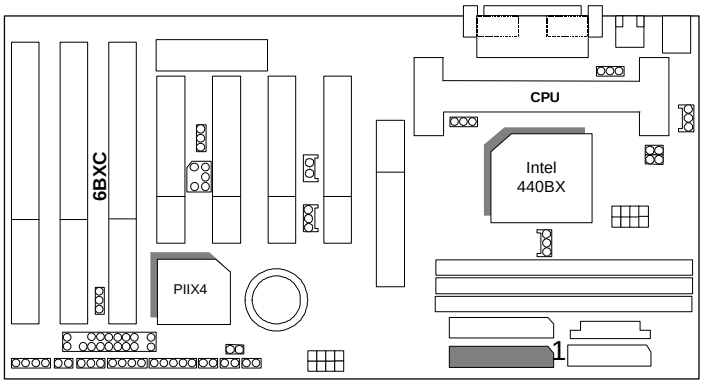


PS/2 Mouse/Keyboard	
Pin	Function
1	Data
2	NC
3	GND
4	VCC (+5V)
5	Clock
6	NC

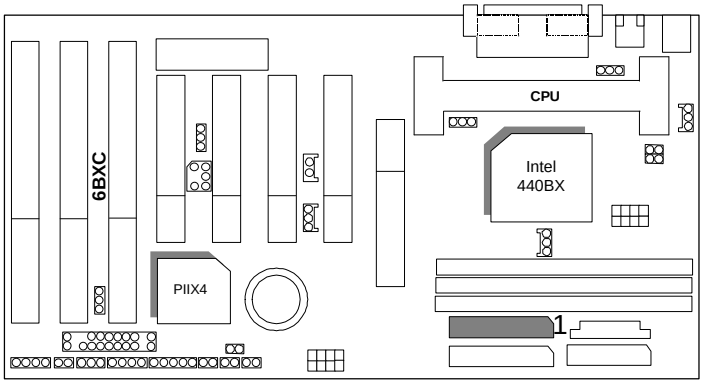
CPU FAN : CPU Cooling Fan Power Connector



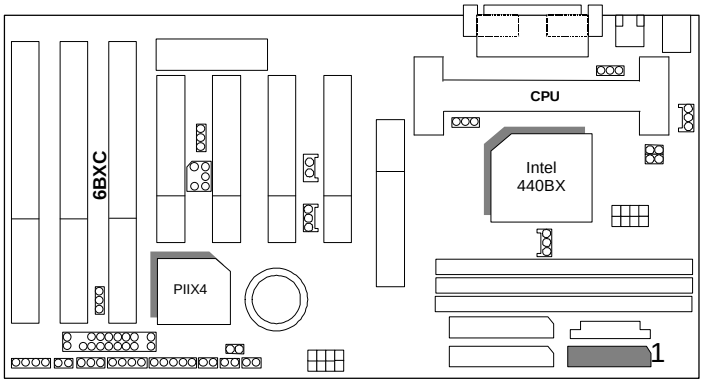
IDE1: For Primary IDE port



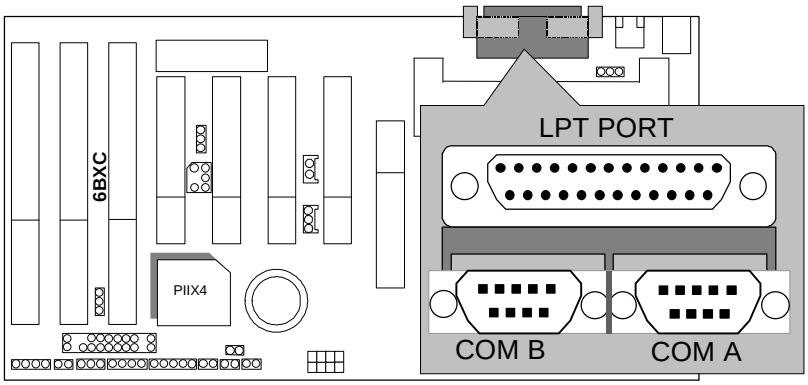
IDE2: For Secondary IDE port



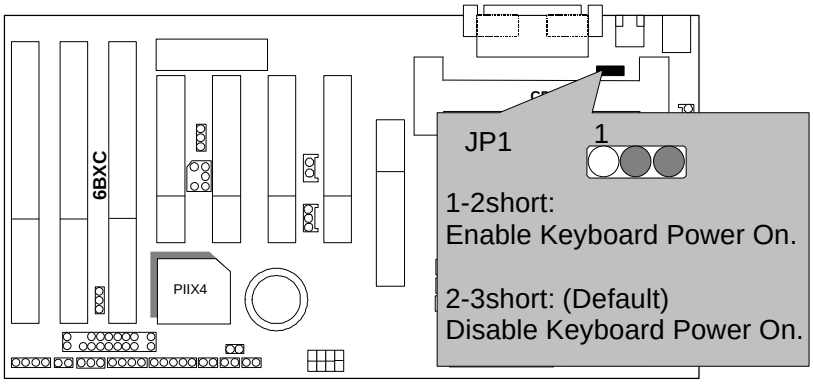
FLOPPY : FLOPPY PORT



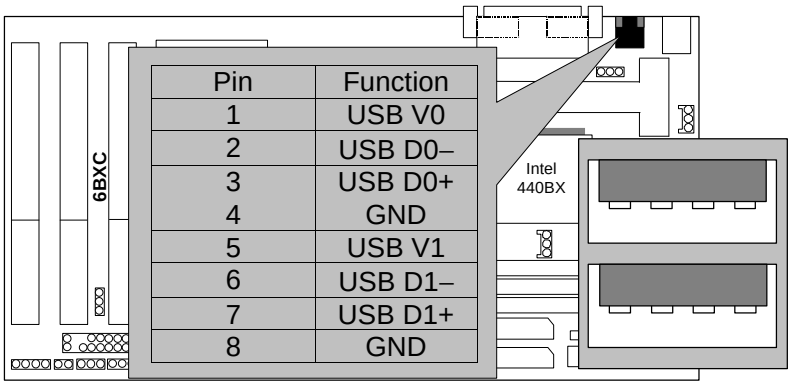
LPT PORT / COM A / COM B



JP1 : Keyboard Power On Selection

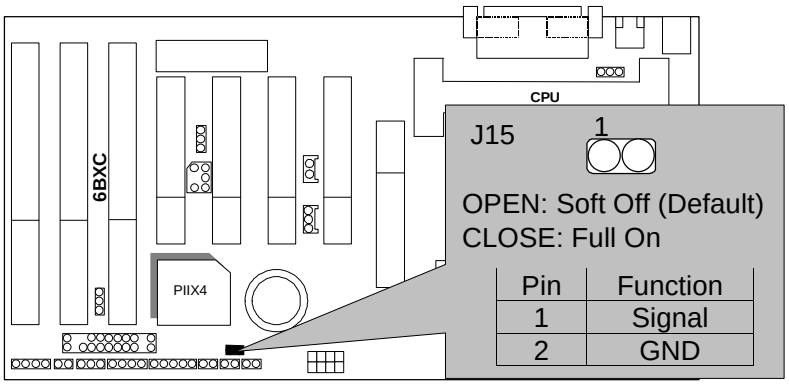


USB : USB Port



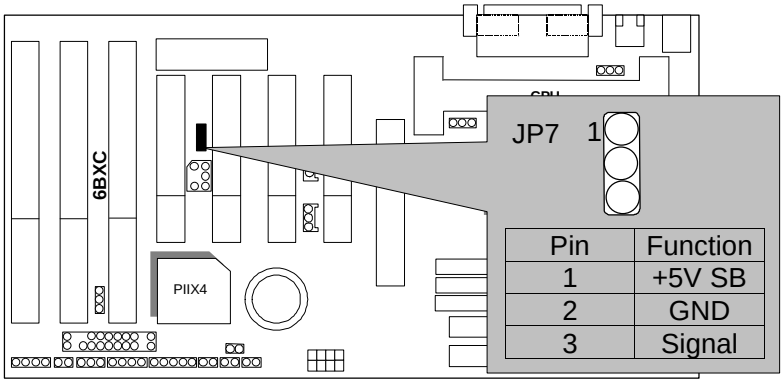
Pin	Function
1	USB V0
2	USB D0–
3	USB D0+
4	GND
5	USB V1
6	USB D1–
7	USB D1+
8	GND

J15: System After AC Back



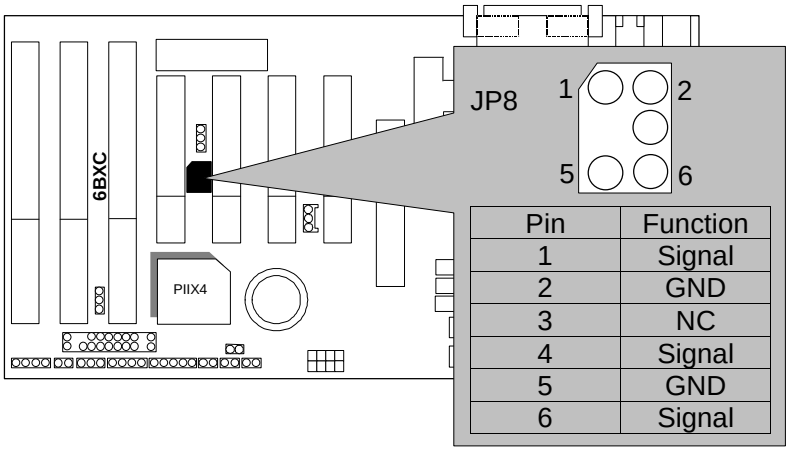
Pin	Function
1	Signal
2	GND

JP7: Wake On LAN



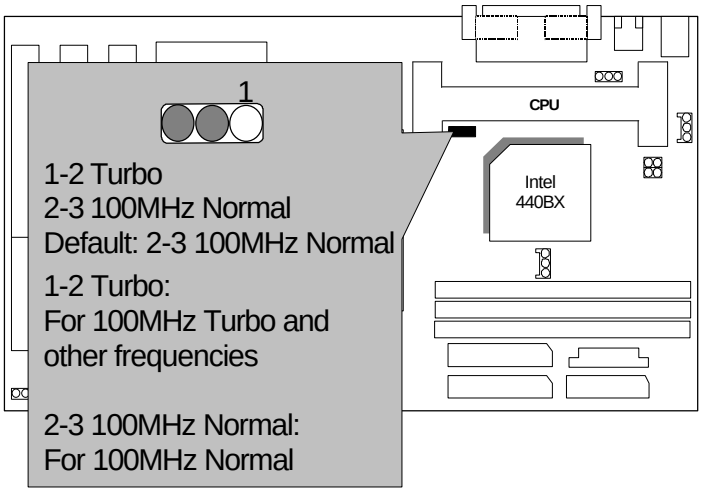
Pin	Function
1	+5V SB
2	GND
3	Signal

JP8:SB-LINK Creative PCI Sound Card Support

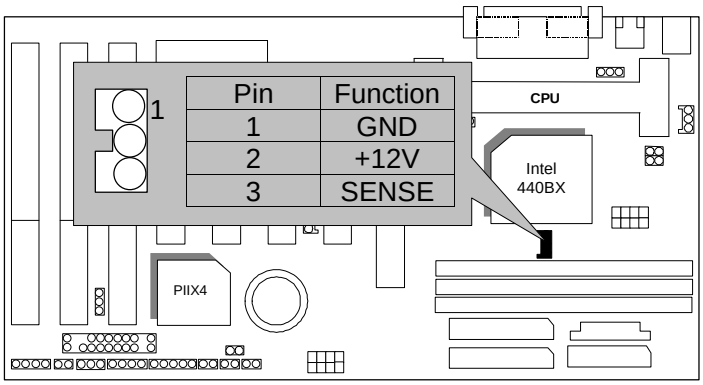


Pin	Function
1	Signal
2	GND
3	NC
4	Signal
5	GND
6	Signal

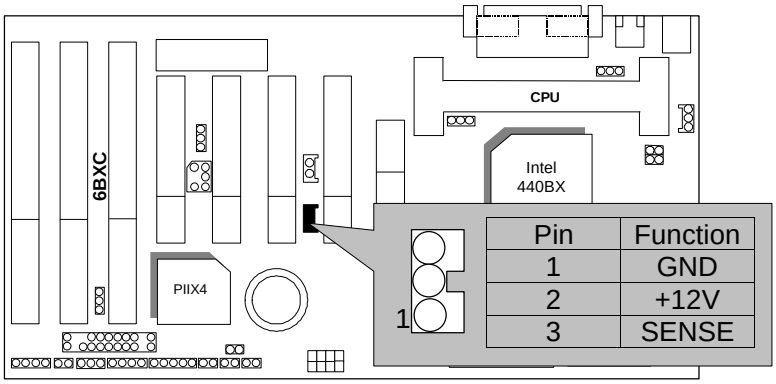
JP10 : System Acceleration



Power FAN : Power Fan Power Connector

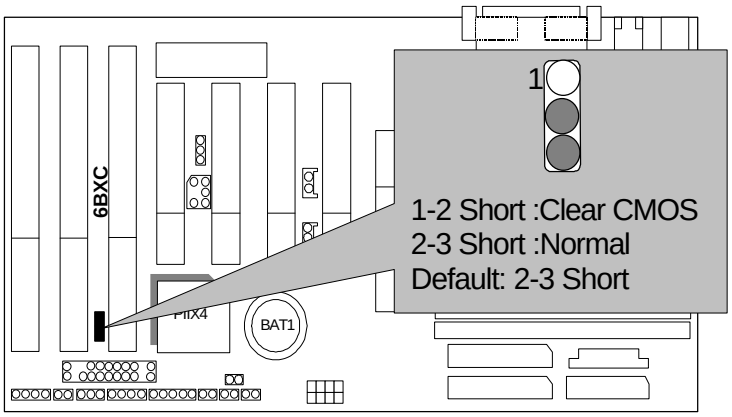


System FAN : System Fan Power Connector

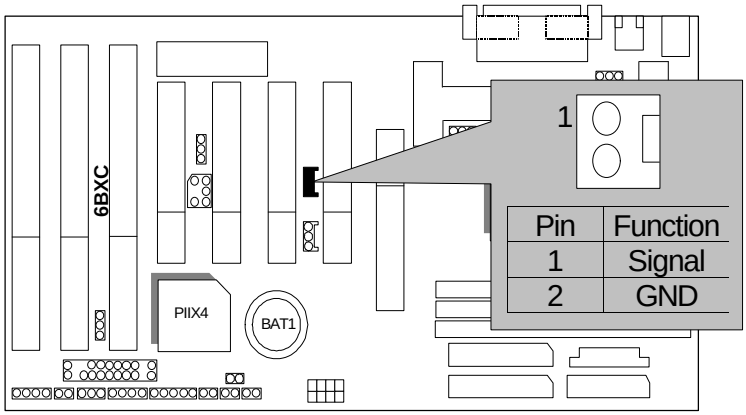


Pin	Function
1	GND
2	+12V
3	SENSE

JP11:CLEAR CMOS FUNCTION

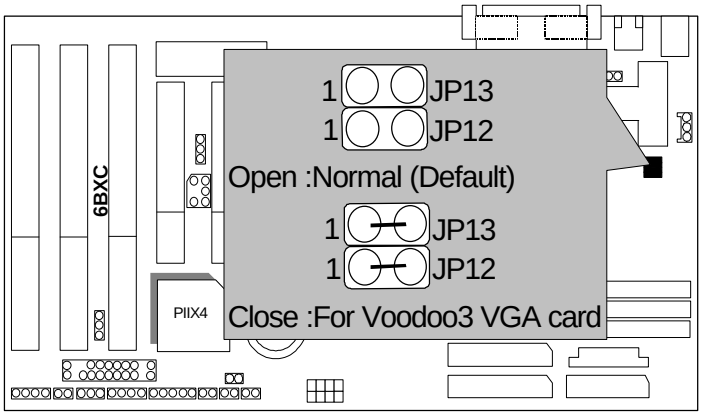


Internal Ring Power On Function

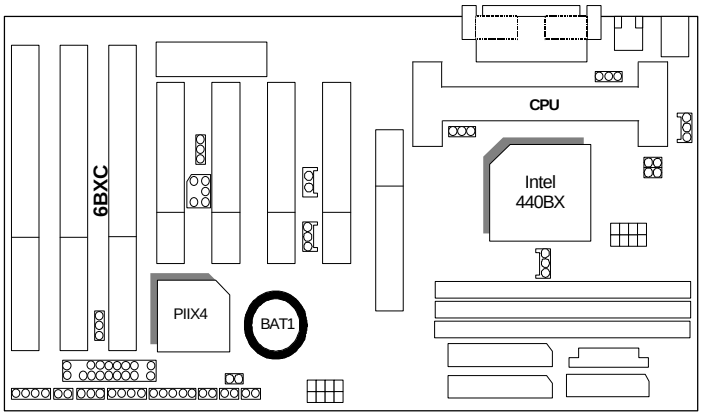


JP12 & JP13

(This function is support in PCB version 2.0 and above)



BAT1 :Battery

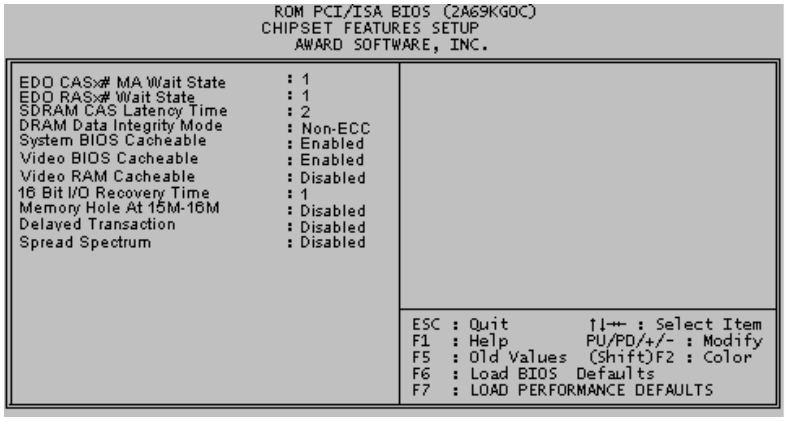


Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacturer's instructions.

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. (Different Hardware & Software configuration will result in different benchmark testing results.)

- CPU Pentium® II processor
- DRAM 128 MB SDRAM (SEC KM48S8030BT-GH)
- CACHE SIZE 512 KB included in CPU
- DISPLAY GA-601 AGP Display Card (4MB SGRAM)
- STORAGE Onboard IDE (IBM DHEA-38451)
- O.S. Windows NT ™4.0
- DRIVER Display Driver at 1024 x 768 x 256 colors x 75Hz.
  TRIONES Bus Master IDE Driver 3.70

Processor	Intel Pentium® II	
	333MHz(66x5)	350MHz(100x3.5)
Winbench98		
CPU mark32	864	947
FPU Winmark	1720	1810
Business Disk	1850	1900
Hi-End Disk	4590	4690
Business Graphics	185	204
Hi-End Graphics	207	232
Winstone98		
Business	33.3	34.6
Hi-End	36.9	39.2