

6EMMP

USER'S MANUAL

- 1. Support Modem Ring-On. (Include internal Modem and external modem on COM A and COM B)**
- 2. Support Wake-up On LAN. (Your ATX power supply must support larger than 600 mA 5V Stand-By current)**
- 3. ATI RAGE PRO AGP Display Onboard.**
- 4. YAMAHA PCI Sound Onboard.**

Pentium® II /Celeron™ Processor MAINBOARD

REV. 1.3 Second Edition

R-13-02-081119

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

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September 10, 1998 Taipei, Taiwan

I. Quick Installation Guide :

CPU SPEED SETUP

The default system bus speed is 66.6MHz. The user can change the DIP SWITCH (SW) selection to set up the CPU speed for 233 - 366MHz processor.

⚠ **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.**

DIP SWITCH (SW)				FREQ. RATIO	EXT.CLK. MHz	INT.CLK. MHz	CPU Type
1	2	3	4				
OFF	OFF	ON	ON	3.5	66	233	Pentium® II 233 MHz (Celeron™ 233 MHz)
ON	ON	OFF	ON	4	66	266	Pentium® II 266 MHz (Celeron™ 266 MHz)
OFF	ON	OFF	ON	4.5	66	300	Pentium® II 300 MHz (Celeron™ 300/300A MHz)
ON	OFF	OFF	ON	5	66	333	Pentium® II 333 MHz (Celeron™ 333 MHz)
OFF	OFF	OFF	ON	5.5	66	366	Pentium® II 366 MHz (Celeron™ 366 MHz)

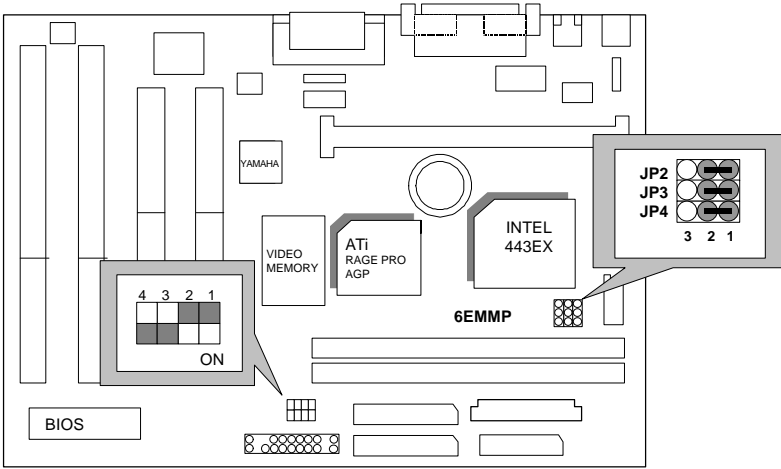
⚠ **JP2, JP3, JP4** (Select the system speed; 66, 75, 83 MHz)

MAIN CLOCK	JP2	JP3	JP4
66MHz	1-2	1-2	1-2
75MHz	1-2	2-3	1-2
83MHz	2-3	2-3	2-3

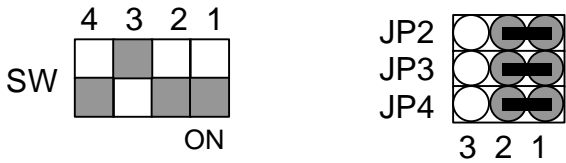
★ **Note:** We don't recommend you to setup your system speed to 75 or 83MHz because these frequencies are not the standard specifications for CPU, Chipset and most of the peripherals. Whether your system can run under 75 or 83MHz properly will depend on your hardware configurations: CPU, SDRAM, Cards,

etc.

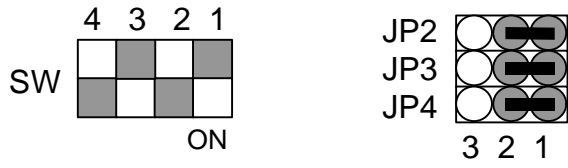
1. Pentium® II 233 /Celeron™ 233 MHz / 66MHz FSB



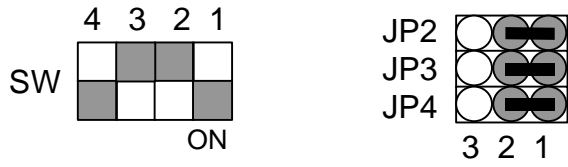
2. Pentium® II 266 /Celeron™ 266 MHz / 66MHz FSB



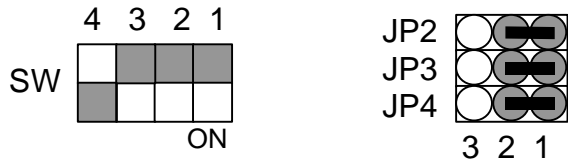
3. Pentium® II 300 /Celeron™ 300 /Celeron™ 300A MHz / 66MHz FSB



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

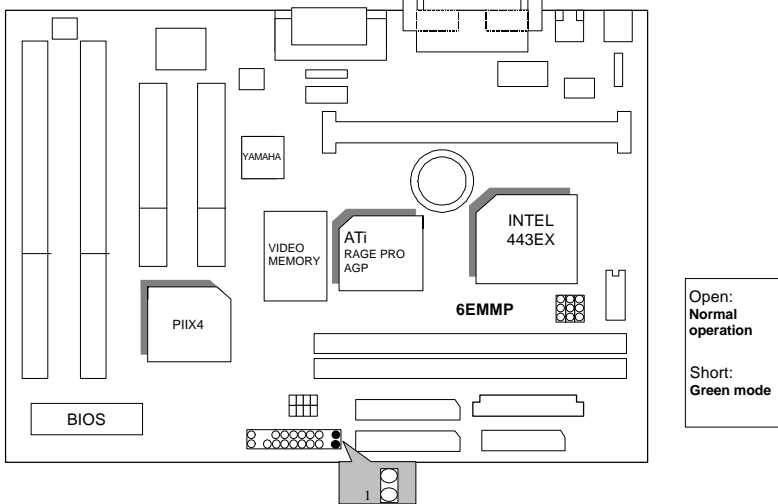


5. Pentium® II 366 /Celeron™ 366 MHz / 66MHz FSB

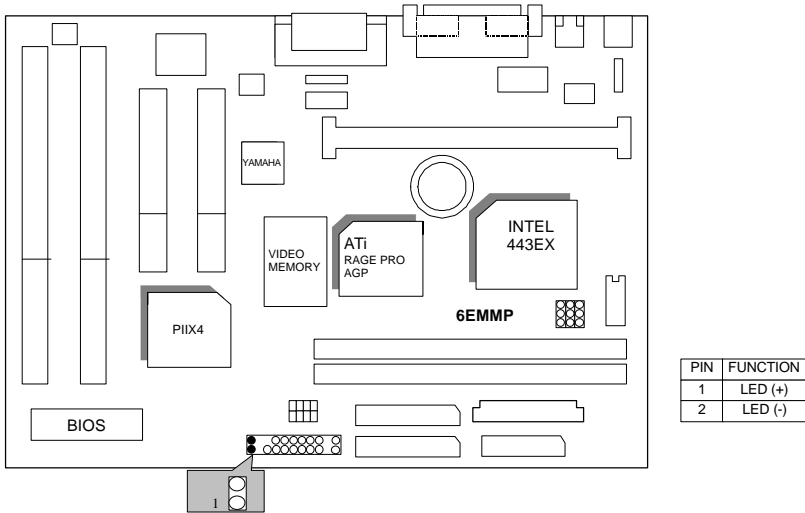


II. Jumper setting :

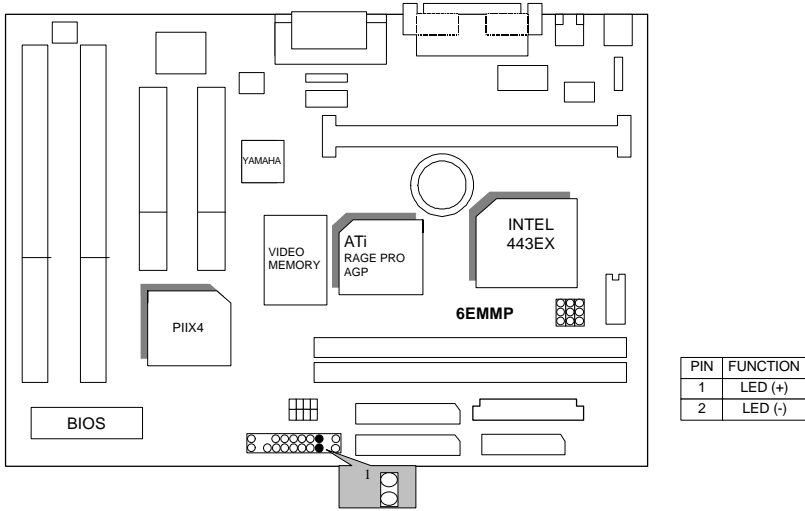
GN : Green Function Switch



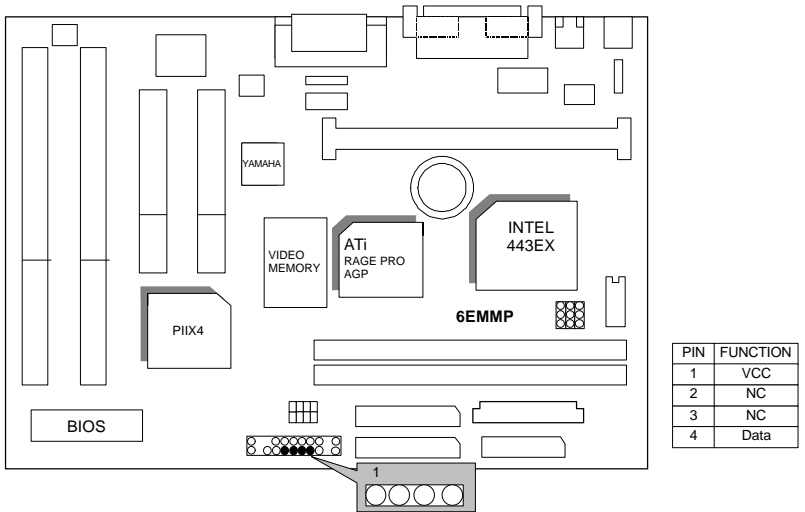
GD : Green Function LED



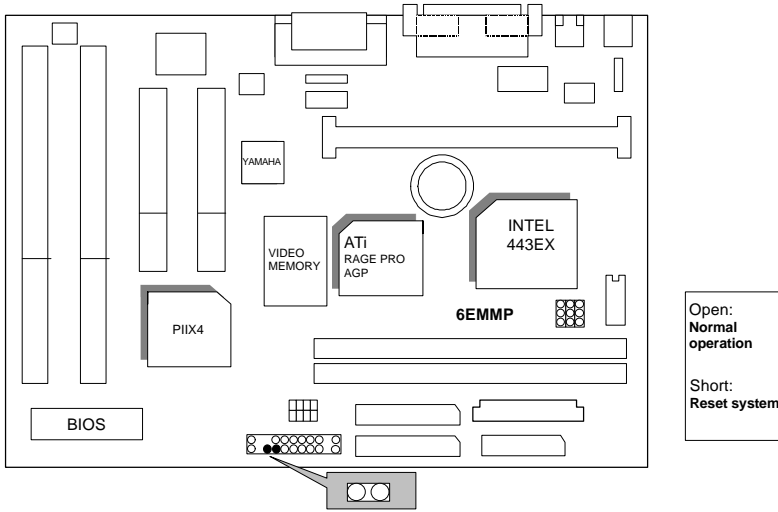
HD : IDE Hard Disk Active LED



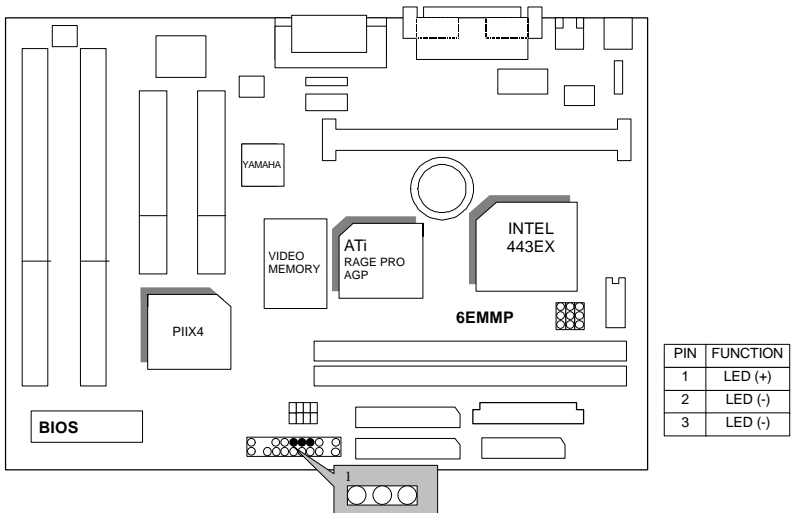
SPKR : Speaker Connector



RES : Reset Switch

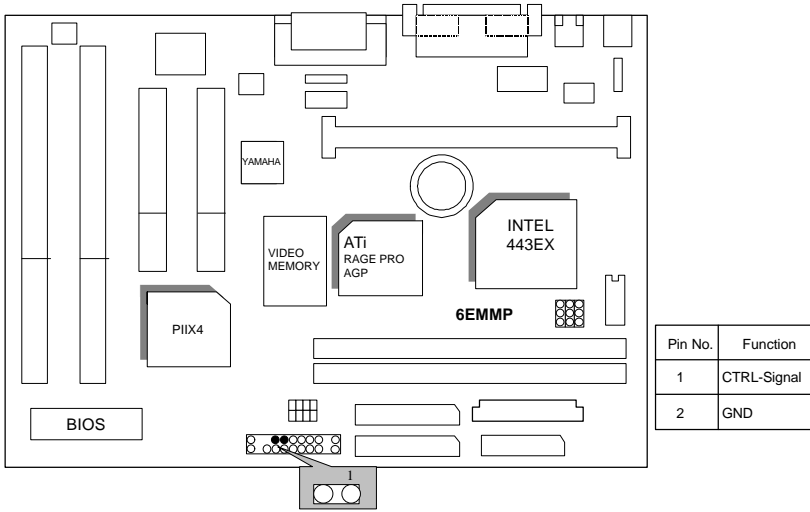


PWR : Power LED Connector

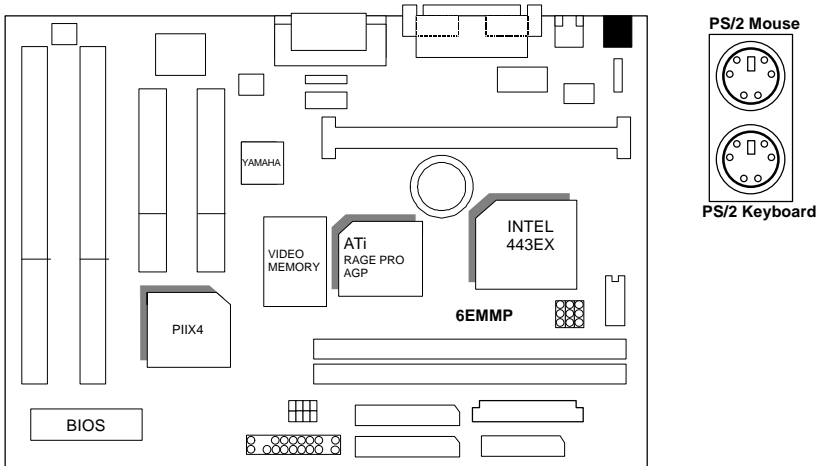


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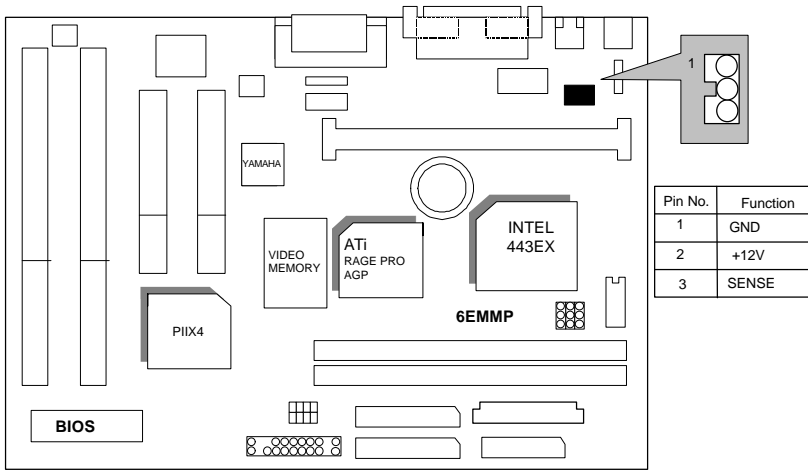
PW: Soft Power Connector



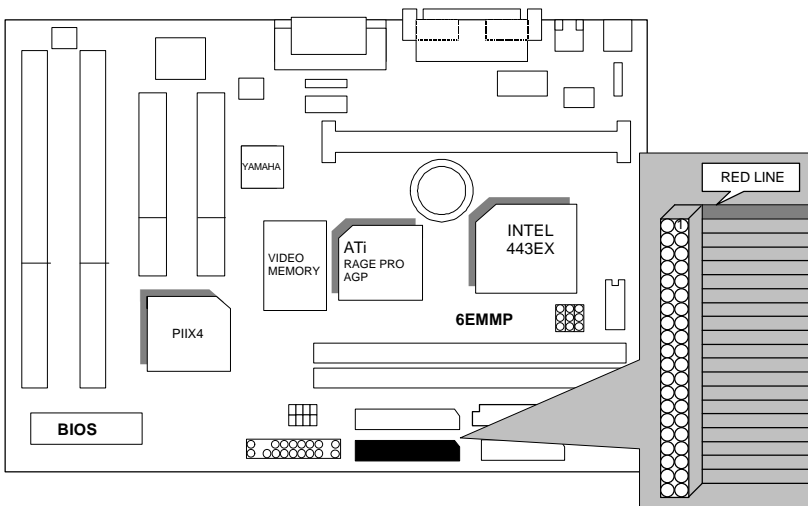
PS/2 Mouse / Keyboard Connector



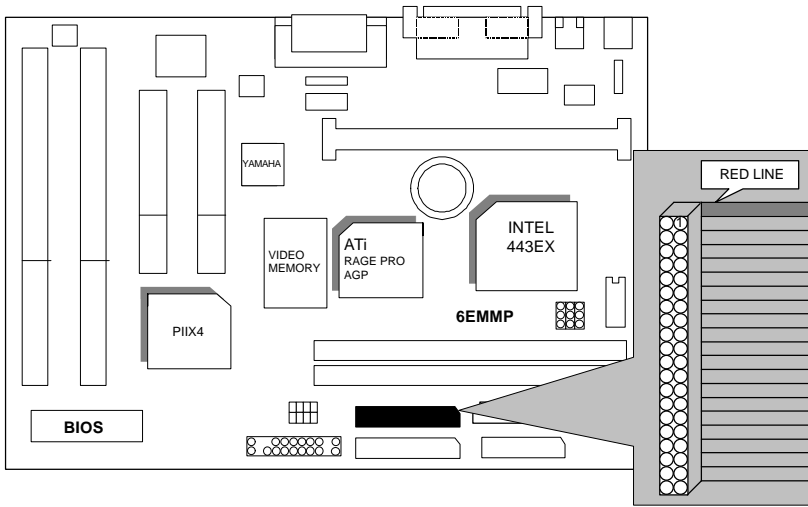
FAN PWR : CPU Cooling Fan Power Connector



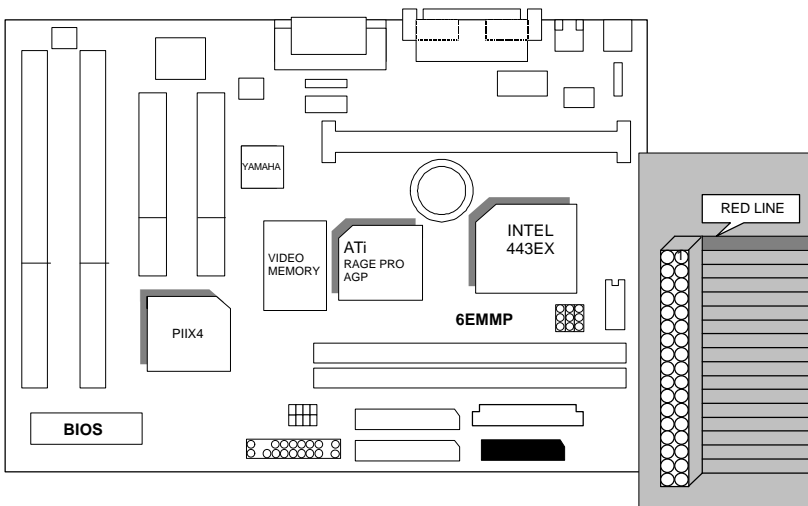
IDE1: For Primary IDE port



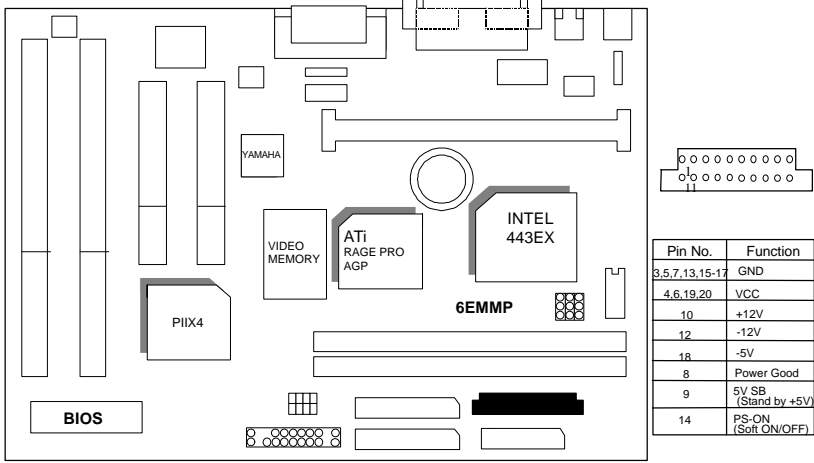
IDE2: For Secondary IDE port



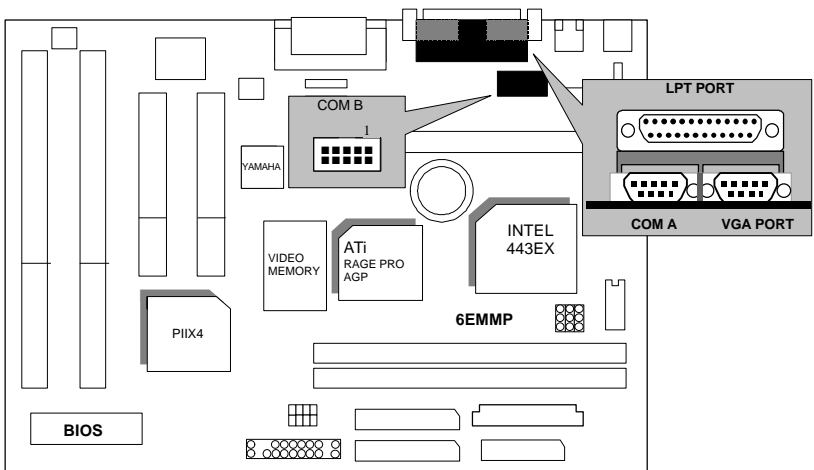
FLOPPY : FLOPPY PORT



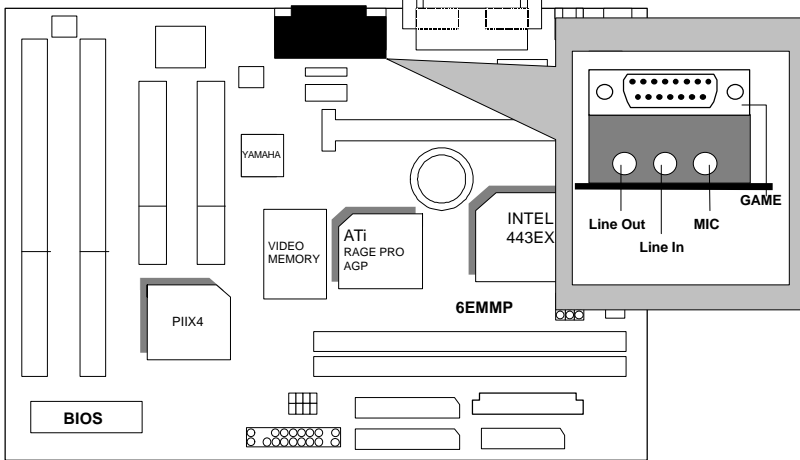
ATX POWER : ATX POWER Connector



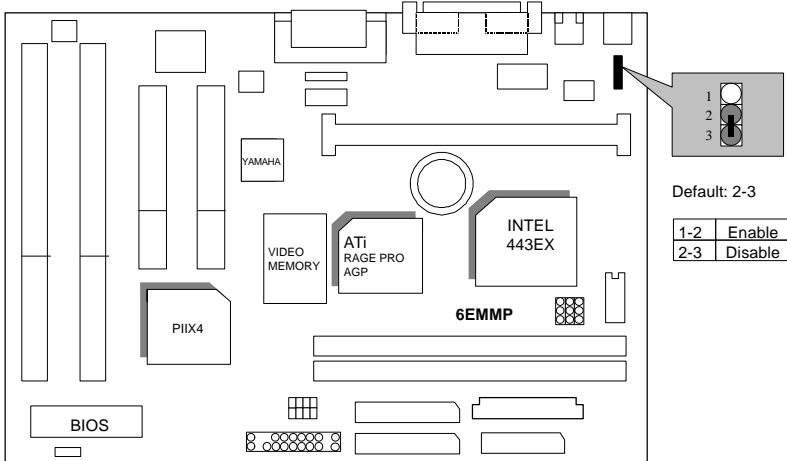
LPT PORT / COM A / COM B / VGA PORT



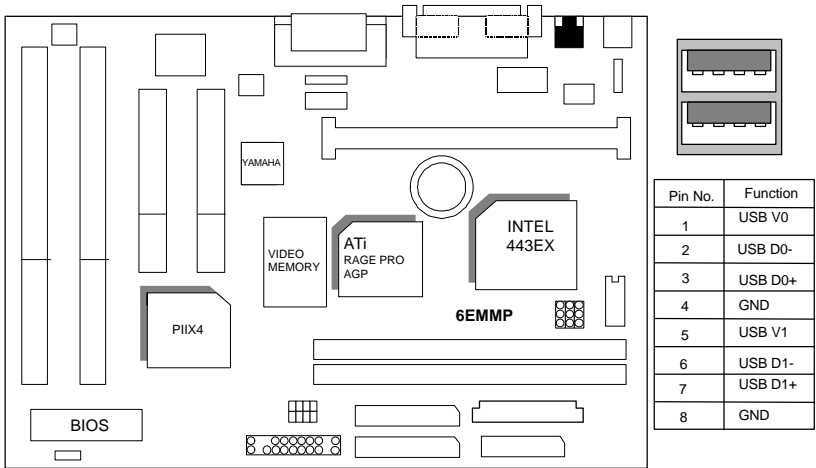
GAME & AUDIO PORT



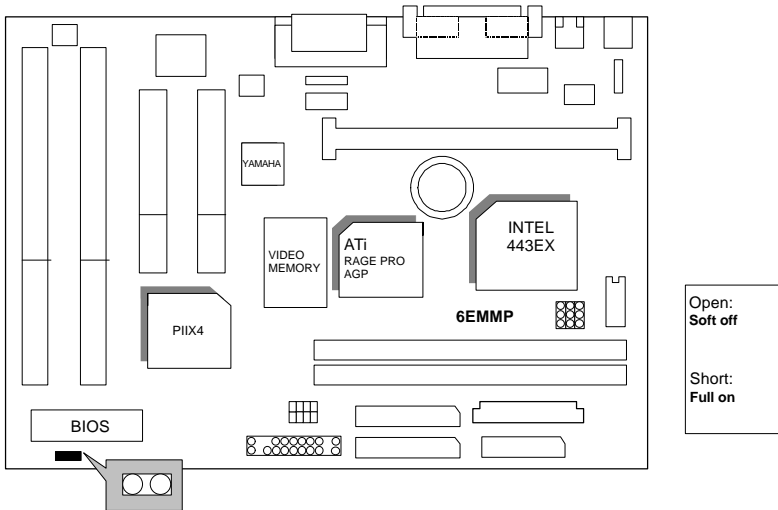
JP1 : Keyboard Power On (Reserved)



USB: USB Port

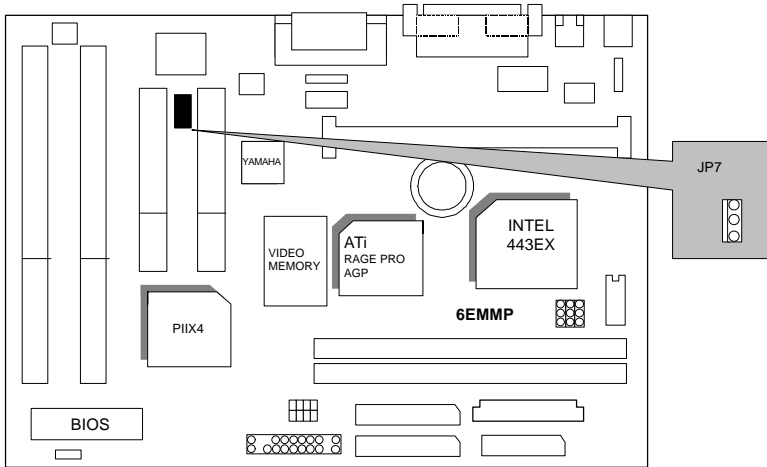


J9: ATX Power Control Selection

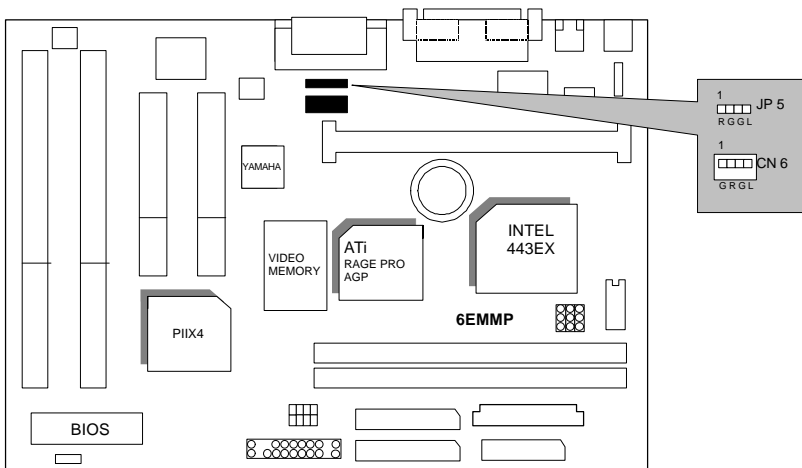


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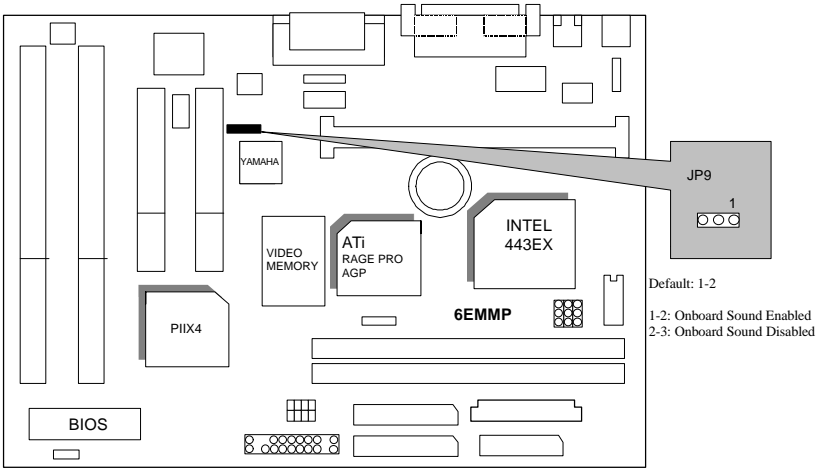
JP7: Wake on LAN



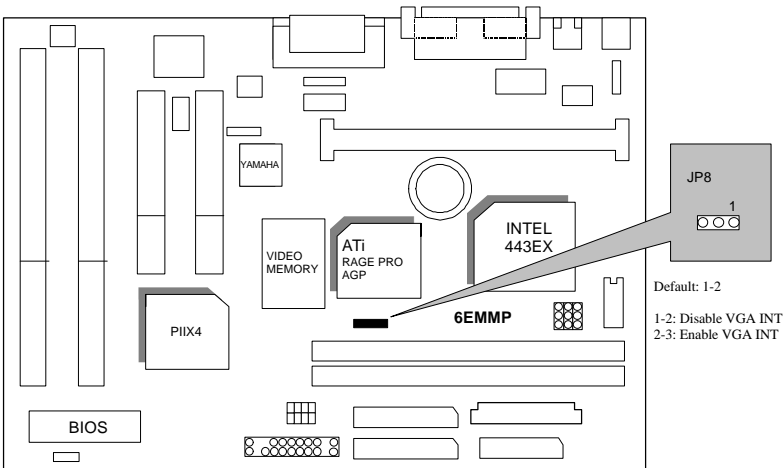
CN6 & JP5: CD Audio Line In



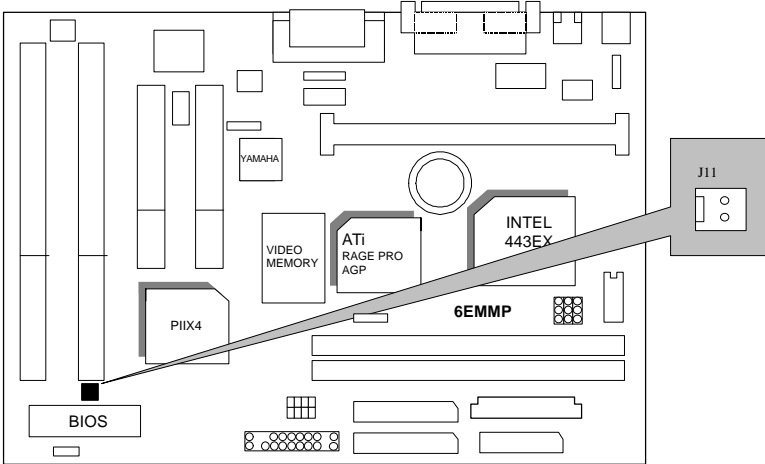
JP9: Onboard Sound Function Selection



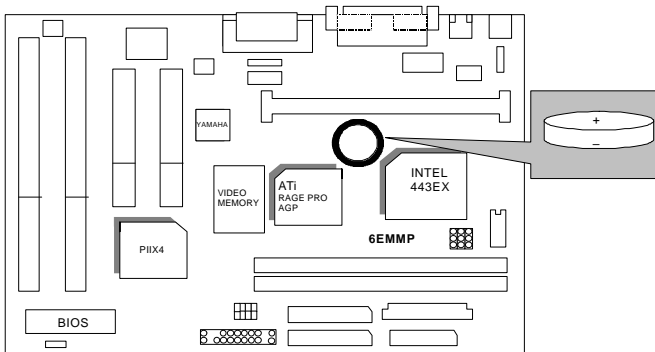
JP8: Release Onboard VGA from occupying IRQ Resource
(It is not to enable or disable Onboard VGA Function.)



J11:Internal Modem Card Ring PWR On



BAT1:For Battery

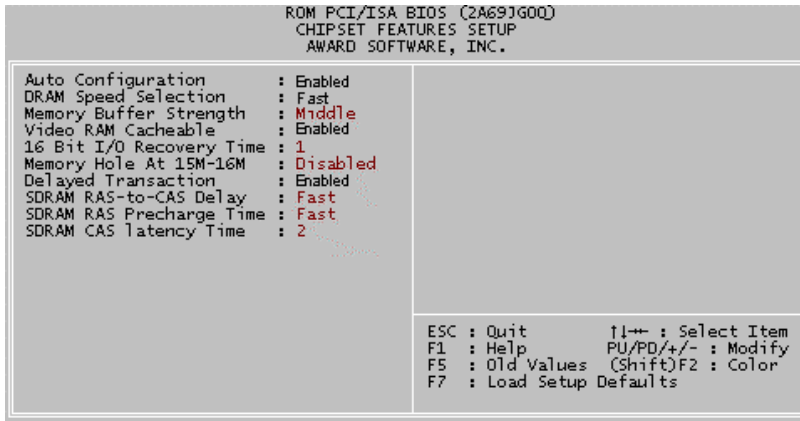


- ⚠ Danger of explosion if battery is incorrectly replaced.
- ⚠ Replace only with the same or equivalent type recommended by the manufacturer.
- ⚠ Dispose of used batteries according to the manufacturer's instructions.

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.



**The above settings have to modify according to different kinds of CPU, SDRAM, and peripherals for your system to work properly.

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® II processor
- DRAM (128 x 1) MB SDRAM (SEC KM48S8030BT-GH)
- CACHE SIZE 512 KB included in CPU
- DISPLAY Onboard ATi AGP 3D graphics acceleration chip (4MB SGRAM)
- STORAGE Onboard IDE (IBM DHEA-38451)
- O.S. Windows NT 4.0
- DRIVER Display Driver at 1024 x 768 x 64K colors x 75Hz.
INTEL Bus Master IDE Driver 3.01

Processor	Intel Pentium® II	
	266MHz(66x4)	333MHz(66x5)
Winbench98		
CPU mark32	721	865
FPU Winmark	1380	1720
Business Disk	1800	1870
Hi-End Disk	4500	4710
Business Graphics	156	176
Hi-End Graphics	174	198
Winstone98		
Business	27.2	32.4
Hi-End	32.2	36.1

