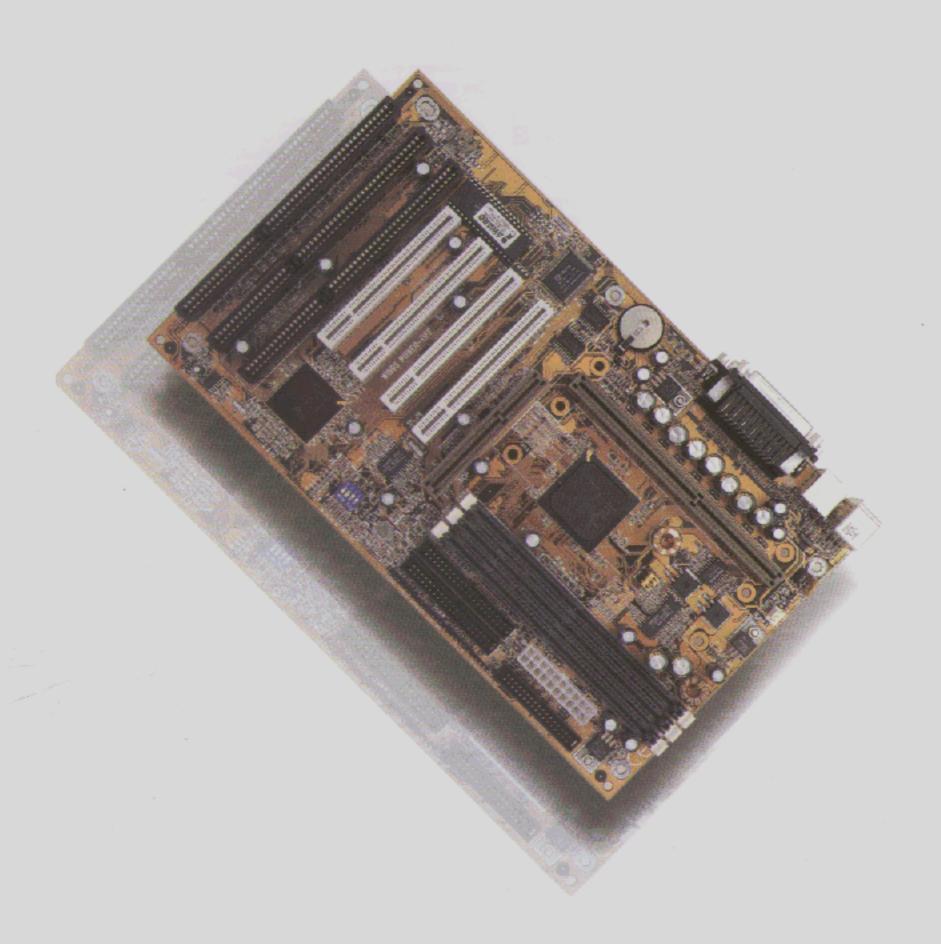
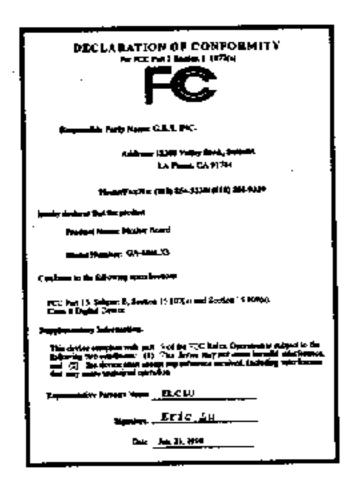
GA-686LX3 **PCI-ISA BUS USER'S MANUAL**











FCC Compliance Statement:

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause

interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Recrient or relocate the receiving antenna
- -Move the equipment away from the receiver
- -Plug the equipment into an outlet on a circuit different from that to which the receiver is connected
- -Consult the dealer or an experienced radio/television technician for additional suggestions

You are cautioned that any change or modifications to the equipment not expressly approve by the party responsible for compliance could void Your authority to operate such equipment.

This device complies with Part 15 of the FCC Rules. Operation is subjected to the following two conditions 1) this device may not cause harmful interference and 2) this device must accept any interference received, including interference that may cause undesired operation.

686LX3

USER'S MANUAL

- 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.
- System power on by Keyboard: If your ATX power supply supports larger than 720 mA 5V Stand-By current, 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

Pentium® II Processor MAINBOARD

REV. 1.0 Third Edition

Release Date 98.4.20

R-10-03-080420

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.

Third-party brands and names are the property of their respective owners.

I. Quick Installation Guide:

CPU SPEED SETUP

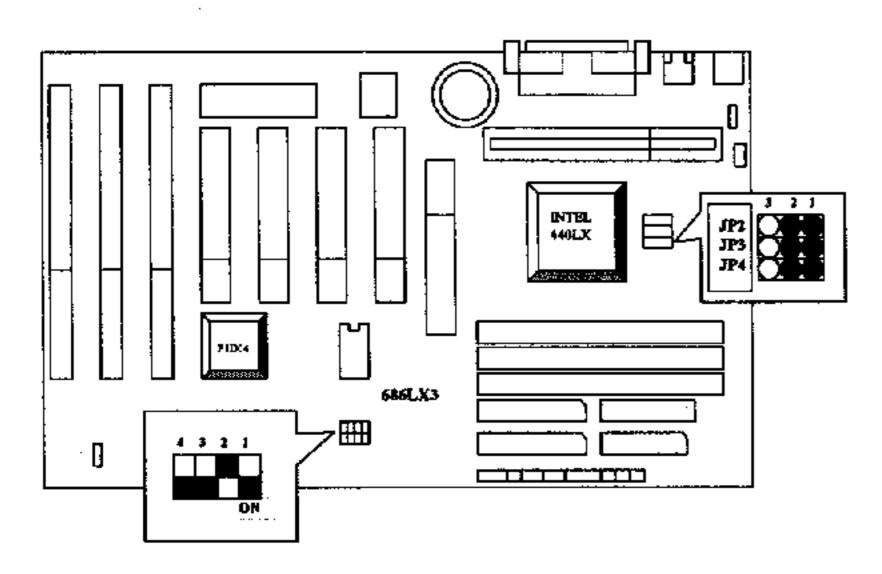
The default system bus speed is set to 68.6MHz. The user can change the DIP SWITCH (SW) selection to set up the CPU speed for 200 - 366MHz processor.

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

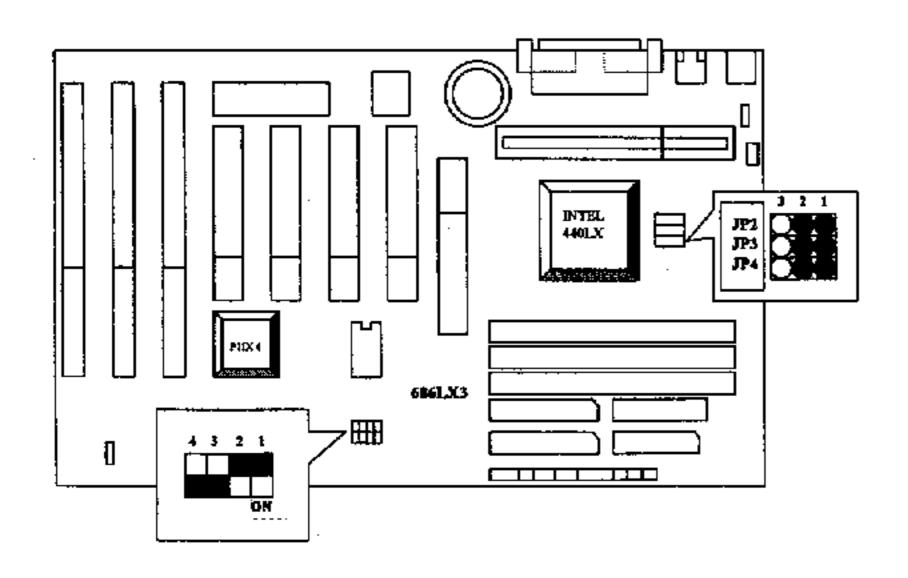
DIP SWITCH (SW)			FREQ.	EXT.GLK.	INT.CLK	CPU Type	
1	2	3	4	RATIO	MHz	MHz	
ON	OFF	ON	ON	3	66	200	Pentium® II 200 MHz
OFF	OFF	ON	ON	3.5	66	233	Pentium® II 233 MHz
ON	ON	OFF	ON	4	66	266	Pentium® II 266 MHz
OFF	ON	OFF	ON	4.5	66	300	Pentium® II 300 MHz
ΟN	OFF	OFF	ON	5	66	333	Pentium® II 333 MHz
OFF	OFF	OFF	ON	5.5	66	366	Pentium® II 366 MHz

Main Clock	JP4	JP3	JP2
66 MHz	1-2	1-2	1-2

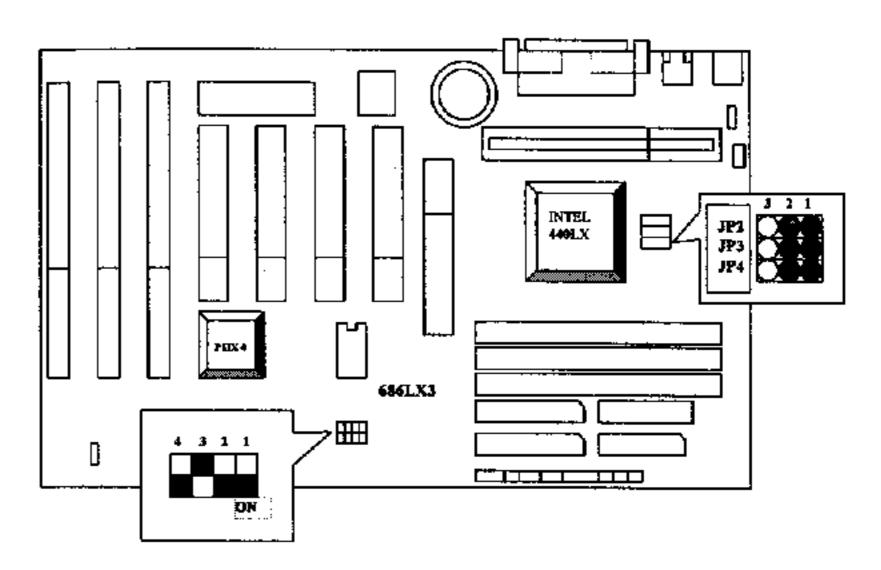
1. Pentium® II 200 MHz



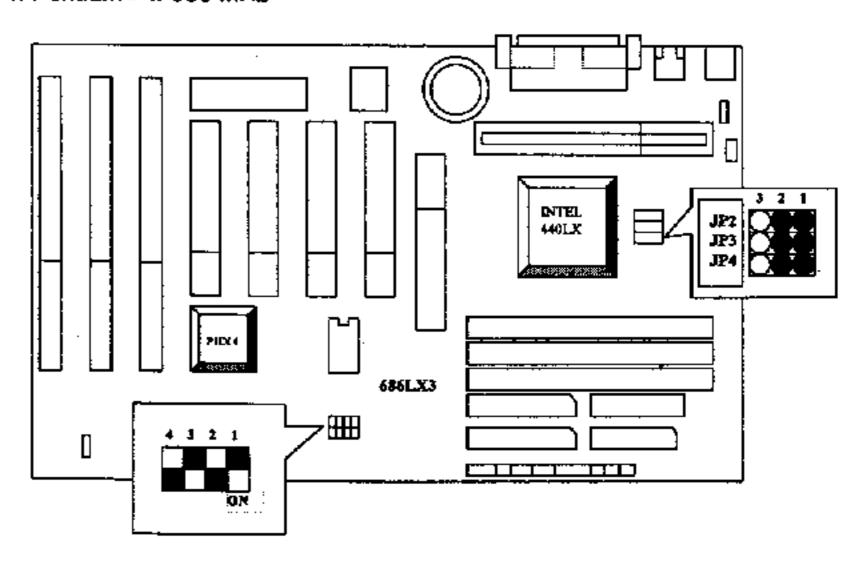
2. Pentium® II 233 MHz



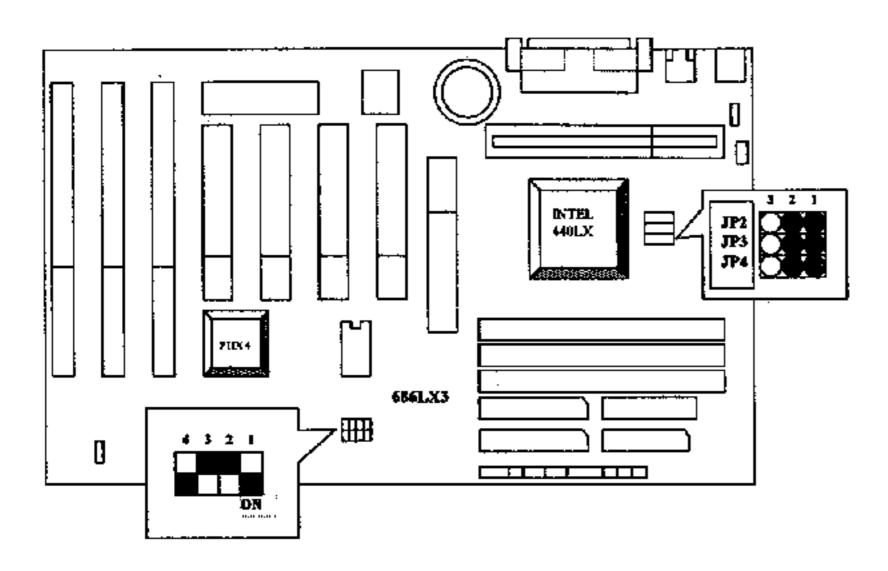
3. Pentium® II 266 MHz



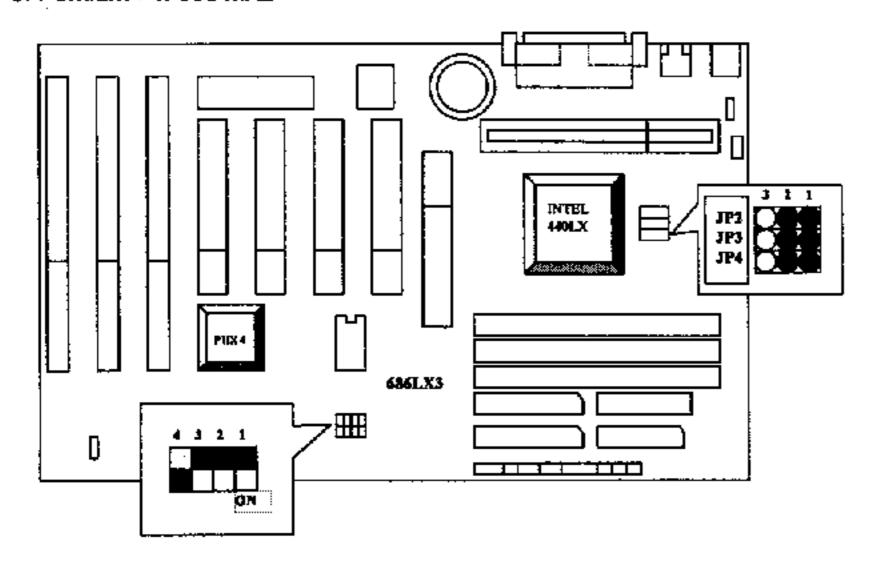
4. Pentium® II 300 MHz



5. Pentium® II 333 MHz

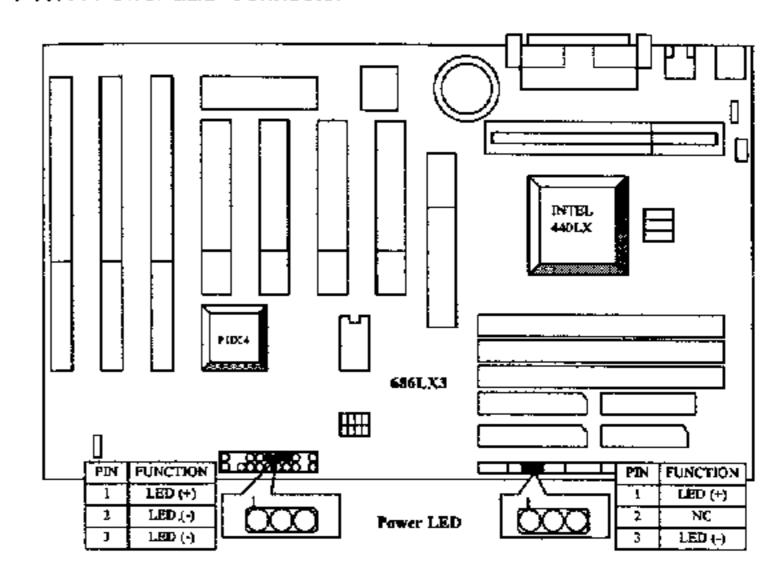


6. Pentium® II 366 MHz

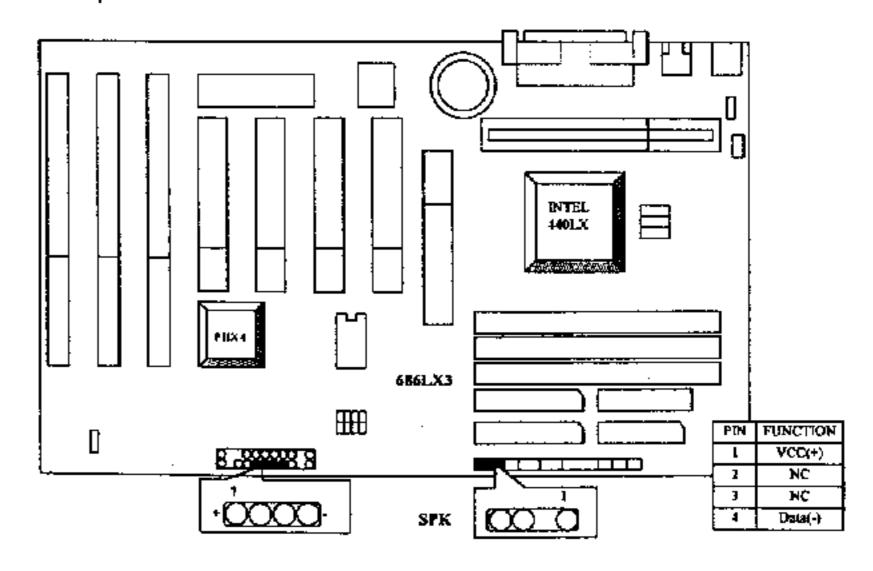


II. Jumper setting:

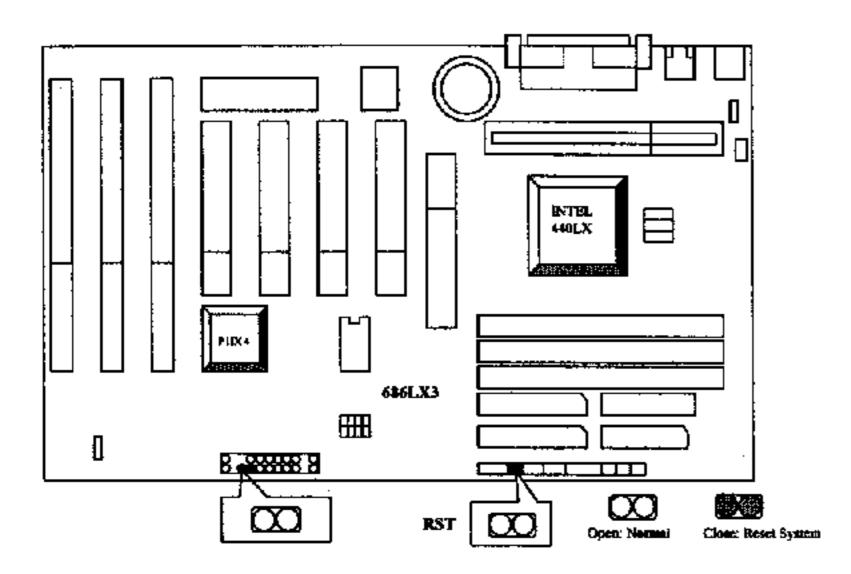
PWR: Power LED Connector



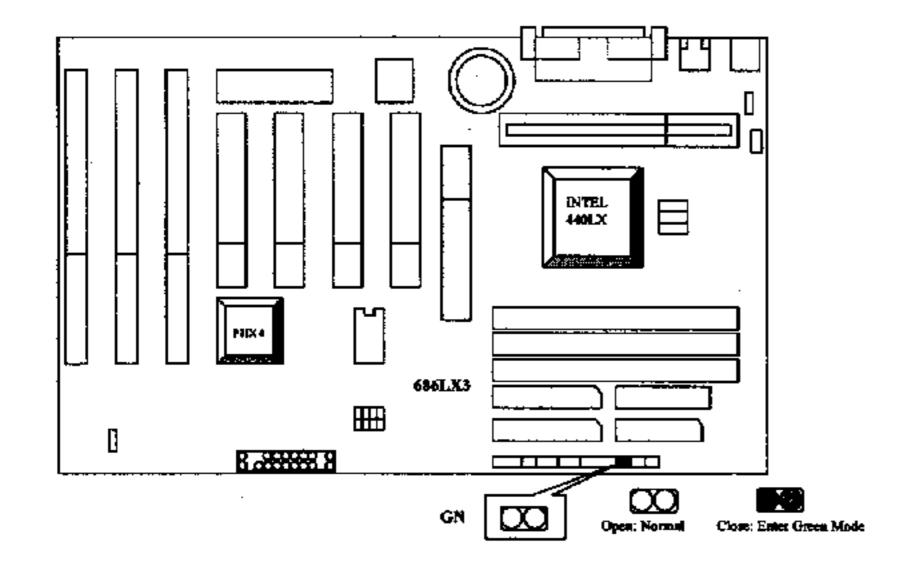
SPK: Speaker Connector



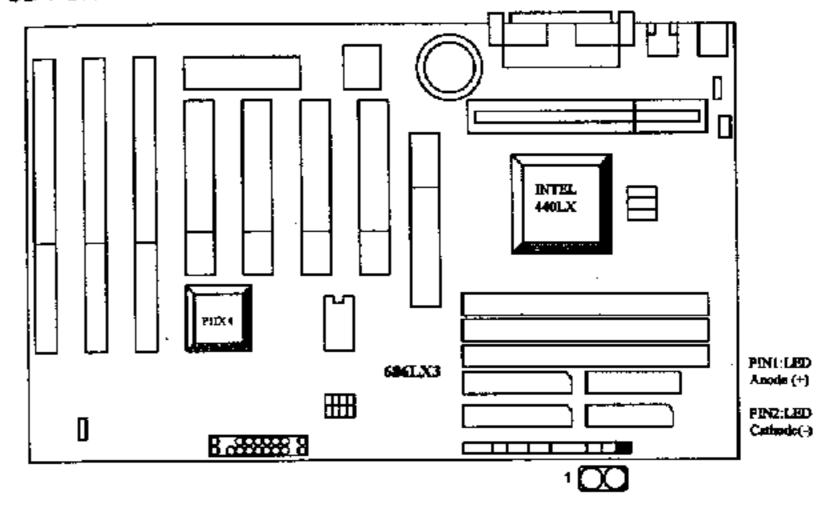
RST: Reset Switch



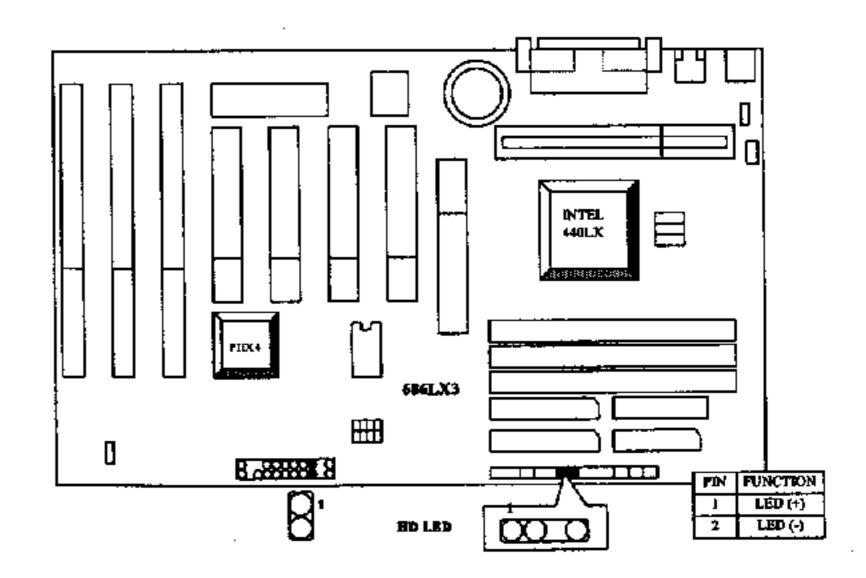
GN: Green Function Switch



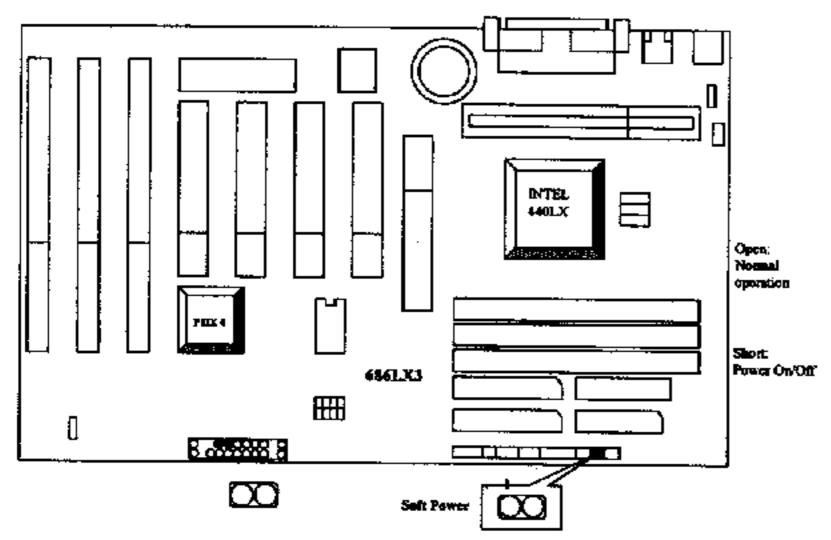
GD : Green LED



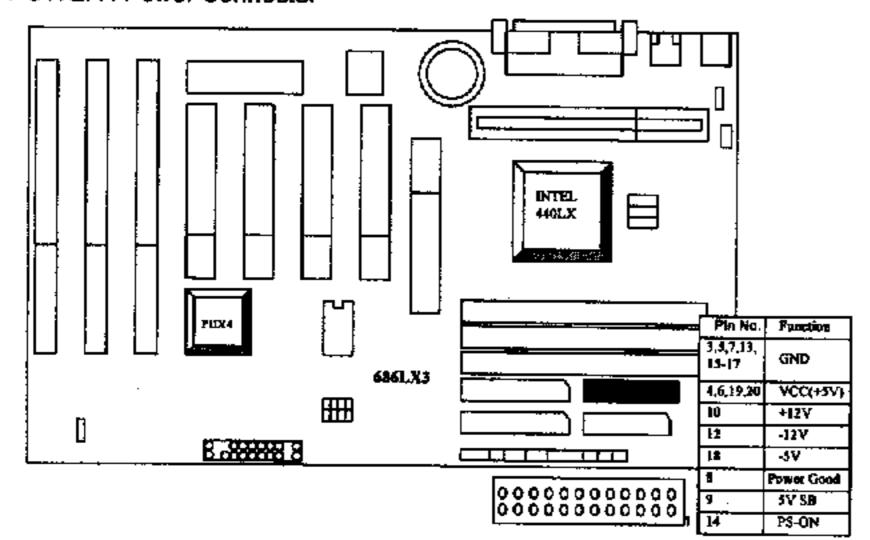
HD: IDE Hard Disk Active LED



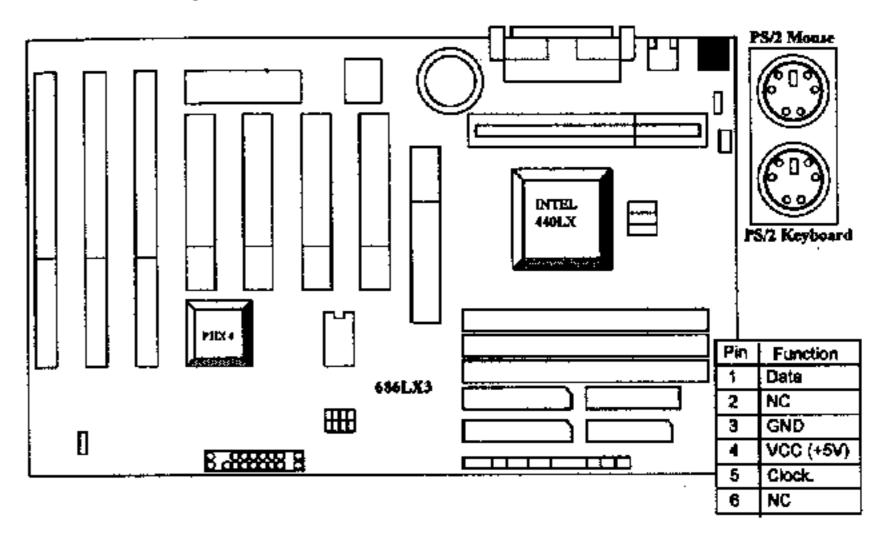
Soft PWR: Soft Power Connector



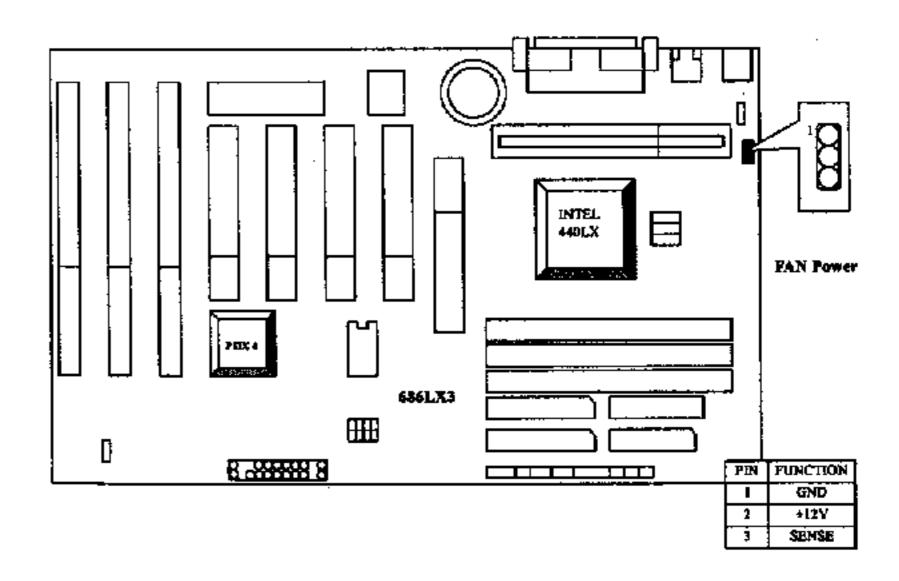
POWER: Power Connector



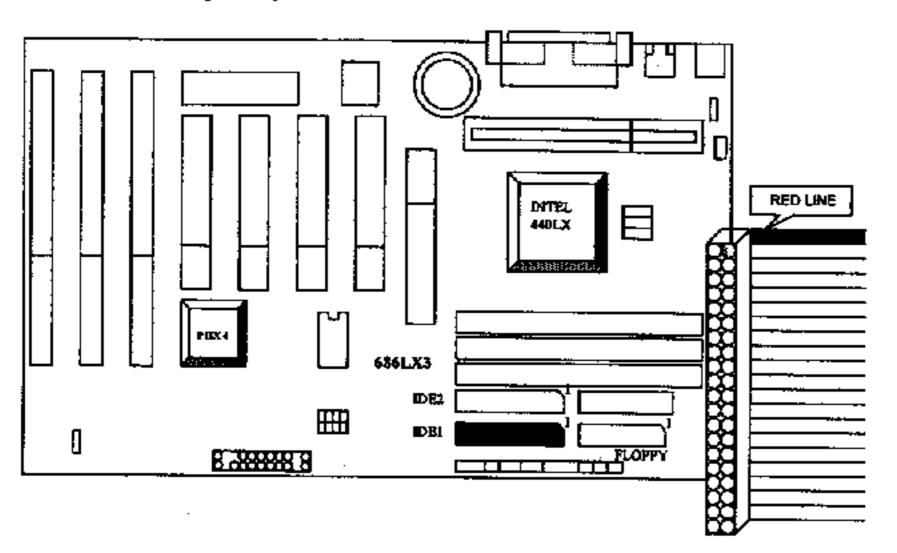
PS/2 Mouse / Keyboard Connector



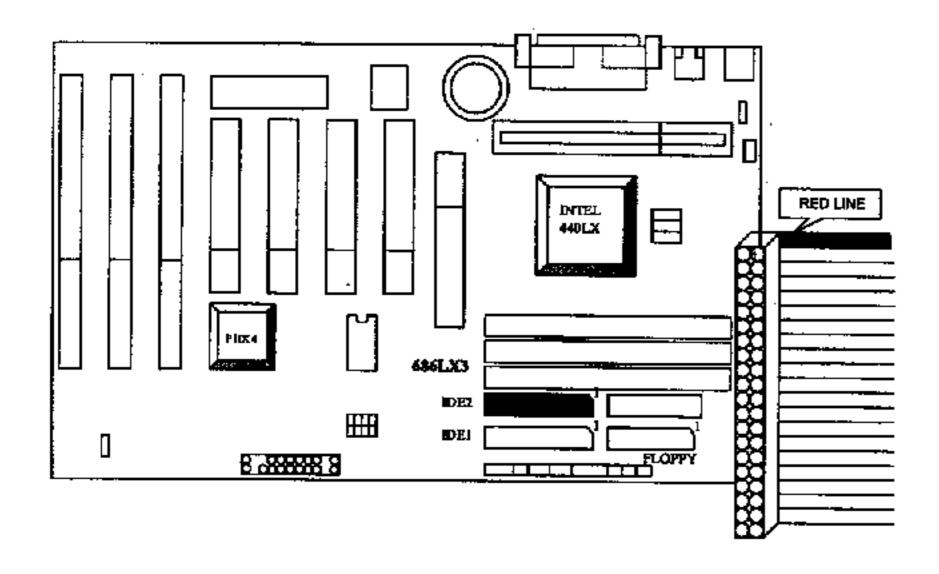
J1 : CPU Cooling Fan Power Connector



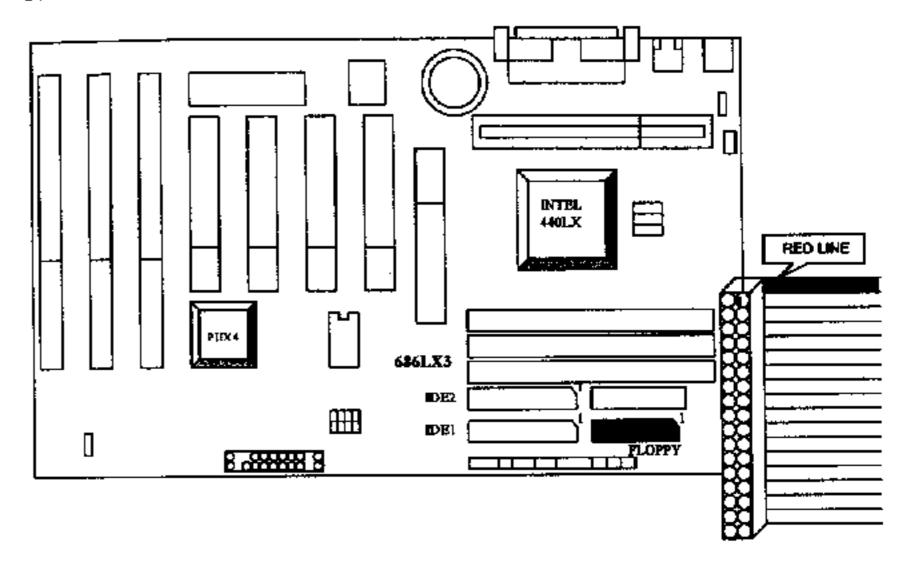
IDE1: For Primary IDE port



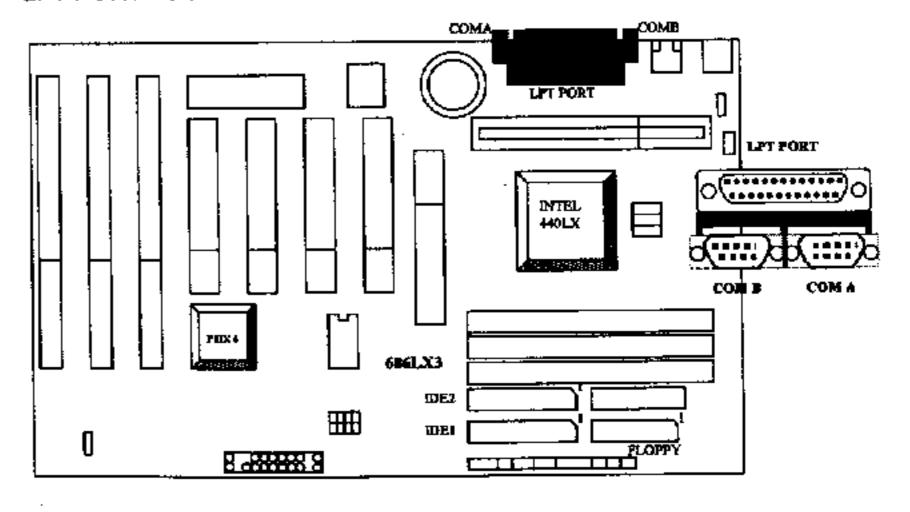
IDE2: For Secondary IDE port



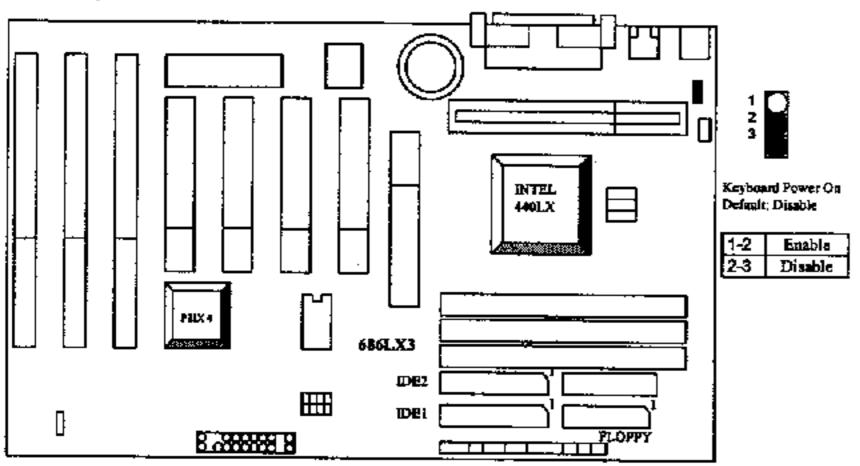
J7: FLOPPY PORT



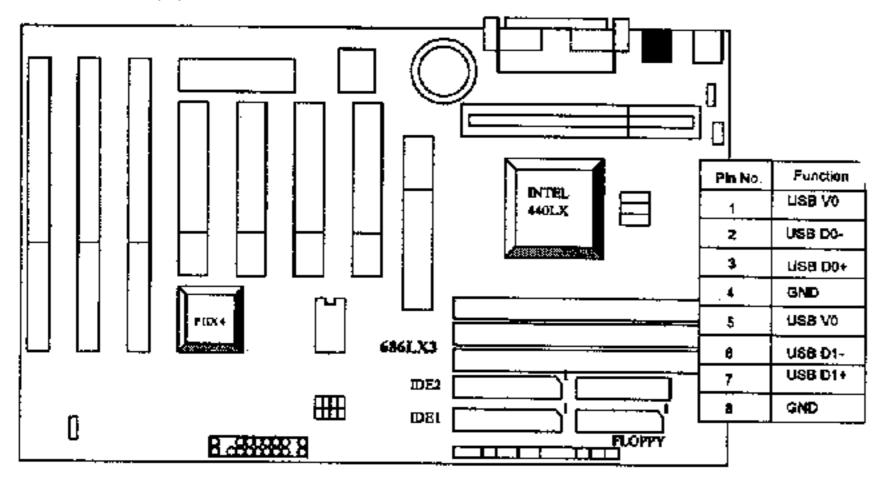
LPT PORT / COM A / COM B



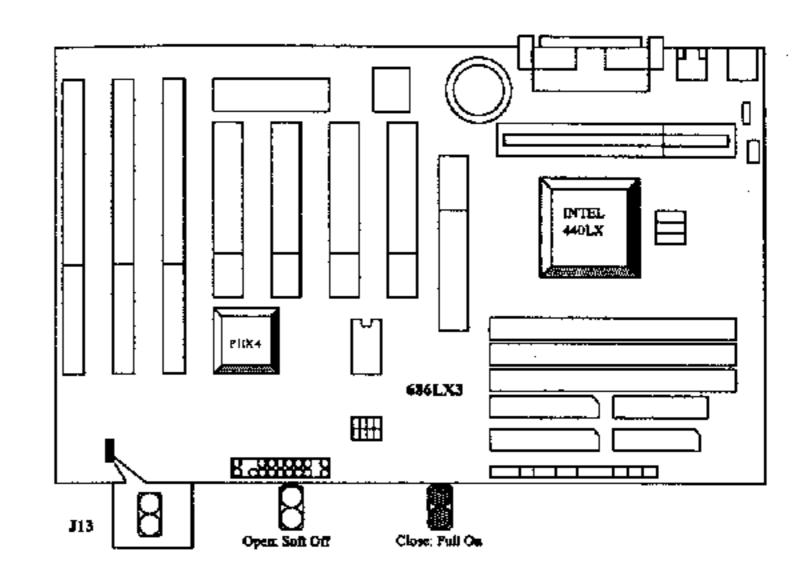
JP1: Keyboard Power On Selection



CN1: USB Port



J13: ATX Power Control Selection



III. Top Performance Test Setting:

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

ROM PCI/ISA BIOS CHIPSET FEATURES SETUP AWARD SOFTWARE, INC.

Auto Configuration DRAM Speed Selection Memory Buffer Strength DRAM Data Integrity Mode Video RAM Cacheable 16 Bit I/O Recovery Time Memory Hole At 15M-16M Delayed Transaction SDRAM RAS-to-CAS Delay SDRAM RAS Precharge Time	: Enabled : Past : Middle : Non-ECC : Disabled : I : Disabled : Disabled : Fast : Fast			
SDRAM CAS latency Time	•	ESC : Quit F1 : Help F5 : Old Values F7 : Load Setup I	PU/PD/+/- (Shift)F2	Select Item : Modify : Calor

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1. INTRODUCTION

1.1. PREFACE

Welcome to use the 686LX3 motherboard. It is a Pentium® II Processor based PC / AT compatible system with AGP / PCI / ISA Bus, and has been designed to be the fastest PC / AT system. There are some new features allow you to operate the system with just the performance you want.

This manual also explains how to Install the motherboard for operation, and how to set up your CMOS CONFIGURATION with BIOS SETUP program.

1.2. KEY FEATURES

- ☐ Intel Pentium[®] II Processor based PC / AT compatible mainboard.
- □ Slot 1 supports Pentium[®] II processor running at 200-633 MHz.
- Intel 440LX chipset, Supports AGP / SDRAM / Ultra DMA/33 IDE Keyboard and PS/2 Mouse Power On / ACPI features.
- □ Supports 3xDIMMs using 3.3V EDO or SDRAM DIMM module.
- □ Supports 8 MB 768 MB EDO / 384MB SDRAM memory on board.
- ☐ Supports ECC or Non-ECC type DRAM module.
- ☐ 1xAGP slot, 4xPCl Bus slots, 3xlSA Bus slots.
- ☐ Supports 2 channels Ultra DMA/33 IDE ports for 4 IDE Devices.
- ☐ Supports 2xCOM (16550), 1xLPT (EPP / ECP), 1x1.44MB Floppy port.
- ☐ Supports 2xUSB ports, 1xPS/2 Mouse.
- ☐ Licensed AWARD BIOS, 1Mbit FLASH RAM.
- ☐ 30.5 cm x 18 cm ATX SIZE form factor, 4 layers PCB.

1.3. PERFORMANCE LIST

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

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

(32 x 2) MB SDRAM (LGS GM72V16821GT10K)

• CACHE SIZE

512 KB included in CPU

DISPLAY

GA-600 AGP Display Card (4MB SGRAM)

STORAGE

Onboard IDE (IBM DHEA-34330)

• O.S.

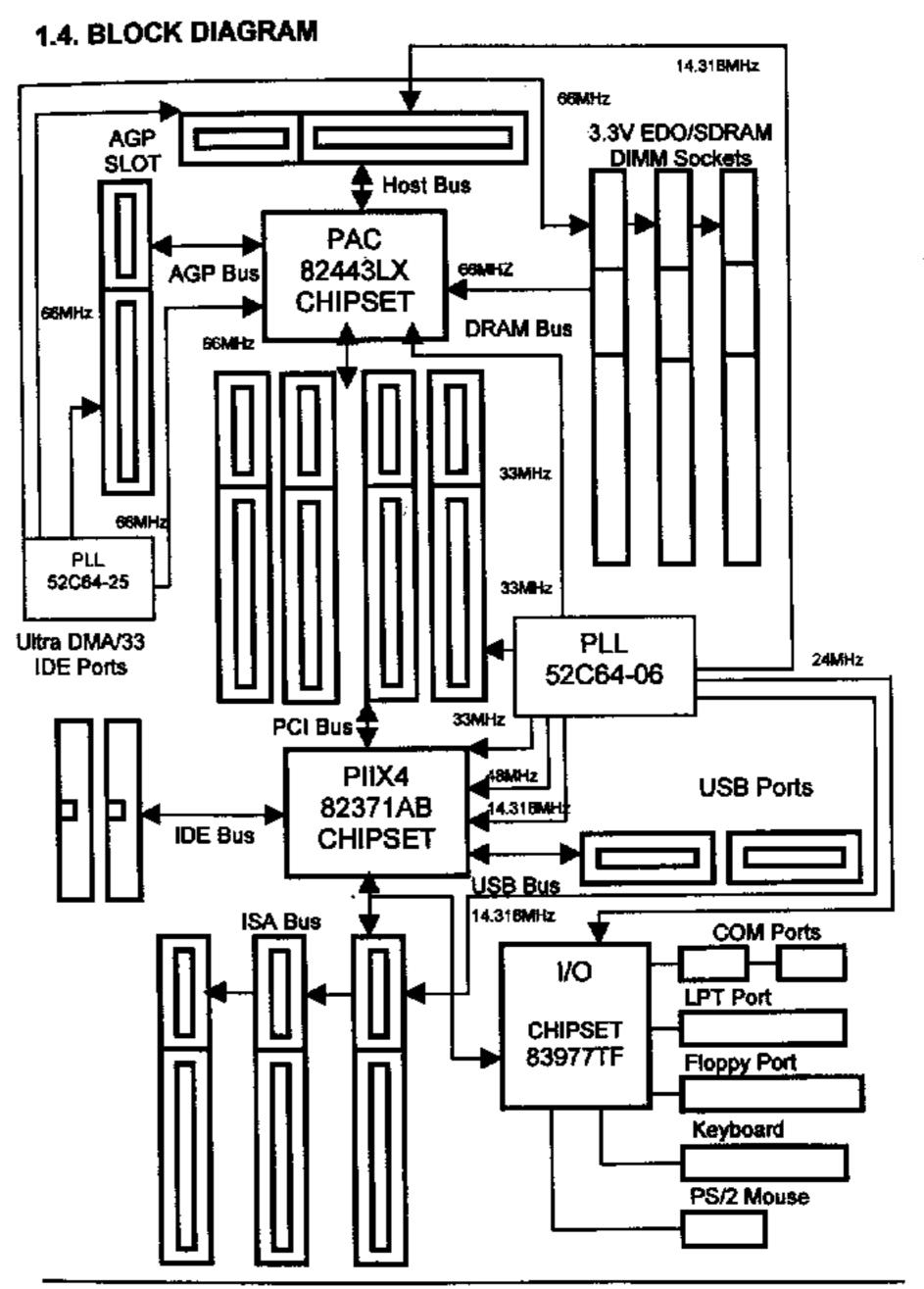
Windows® 95 OSR2.1

• DRIVER

Display Driver at 1024 x 768 x 64k colors at 75Hz.

TRIONES Bus Master IDE Driver 3.70

Processor	Intel Pentium [®] II		
1 10003301	266MHz	300MHz	
Winbench97	-		
CPU mark32	692	759	
Business Disk	1940	2070	
Hi-End Disk	5900	6210	
Business Graphics	116	126	
Hi-End Graphics	50.8	55.4	
Winstone97			
Business	62.1	64.8	
H⊢End	30.7	32.1	



1.5. INTRODUCE THE Pentium® II Processor & AGP

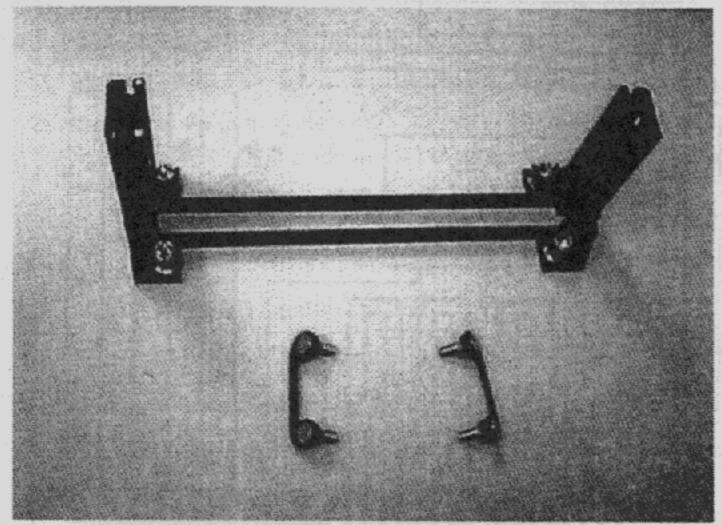


Figure 1:Retention Mechanism & attach Mount



Figure 2:0EM Pentium® II Processor

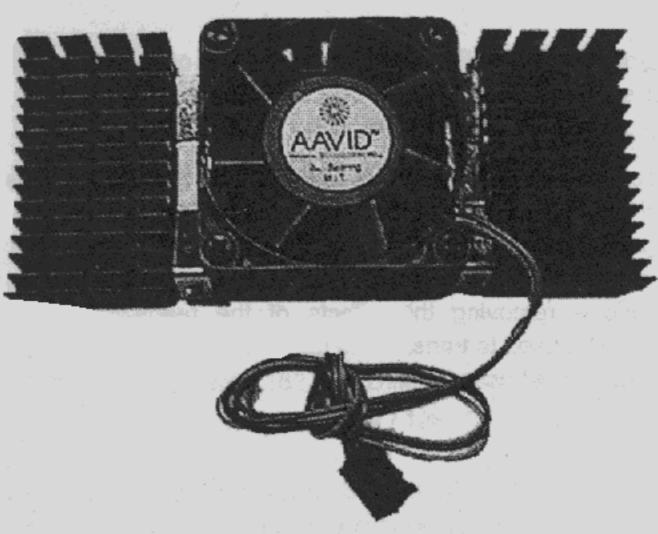


Figure 3:Heatsink / FAN & Heat sink support for OEM Pentium® II Processor

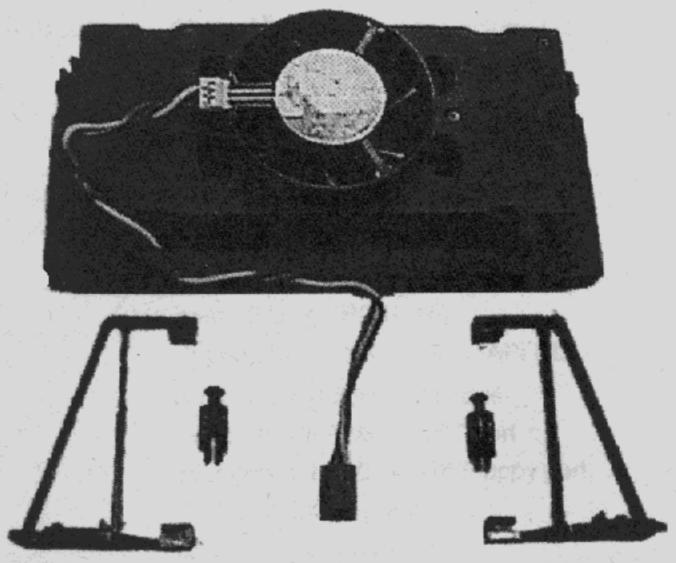


Figure 4:Boxed Pentium® II Processor & Heat sink support

1.6 What is AGP?

The Accelerated Graphics Port (AGP) is a new port on the Host-To-PCI bridge device that supports an AGP port. The main purpose of the AGP port is to provide fast access to system memory.

The AGP port can be used either as fast PCI port (32-bits at 66MHz vs. 32-bits at 33MHz) or as an AGP port which supports 2x data-rate, a read queue, and side band addressing. When the 2x-data rate is used, the port can transmit data at 533MB/sec (66.6*2*4). The read-queue can be used to pipeline reads — removing the effects of the reads-latency. Side band addressing can be used to transmit the data address on a separate line in order to speed up the transaction.

2. SPECIFICATION

2.1. HARDWARE

• CPU

Pentium® II processor 200 – 833 MHz.

- 242 pins 66MHz slot1 on board.

SPEED

- 66 MHz system speed.

- 66 MHz AGP bus speed. (133MHz 2*mode)

33 MHz PCI-Bus speed.

- 8 MHz AT bus speed.

DRAM MEMORY

- 3 banks 168 pins DIMM module sockets on board.

Use 8 / 16 / 32 / 64 / 128 / 256 MB DIMM module

DRAM.

- 8 ~ 768 MB EDQ / 384 MB SDRAM.

Supports 3.3V SDRAM / EDO type DRAM.

- Supports ECC or Non-ECC type DRAM.

CACHE MEMORY

- 32 KB 1st cache memory included in CPU.

- 256KB/512 KB 2nd cache in CPU.

- Supports DIB speed mode for L2 Cache.

• I/O BUS SLOTS

- 4 33MHz Master / Slave PCI-BUS.

- 3 BMHz 16 bits ISA BUS.

1 66MHz / 133MHz AGP bus.

• IDE PORTS

- 2 Ultra DMA/33 Bus Master IDE channels on

board.(Using IRQ14,15)

Support Mode 3,4 IDE & ATAPI CD - ROM.

I/O PORTS

- Supports 2 16550 COM ports.

- Supports 1 EPP/ECP LPT port.

Supports 1 1.44/2.88 MB Floppy port.

Supports 2 USB ports.

Supports PS/2 Mouse.

• GREEN FUNCTION

- Suspend mode support.

Green switch & ACPI LED support.
IDE & Display power down support.

Monitor all IRQ / DMA / Display / I/O events.

• BIOS

- 1M bits FLASH RAM.

- Supports Plug & Play, DMI, ACPI Function.

• DIMENSION

- ATX Form Factor, 4 layers PCB.

2.2. SOFTWARE

DRIVER

- Bus Master IDE Driver.

- Suspend to HD utility.

• BIOS

- Licensed AWARD BIOS.

- AT CMOS Setup, BIOS / Chipset Setup, Green

Setup, Hard Disk Utility included.

• O.S.

Operation with MS-DOS®, Windows®95,

WINDOWS™ NT, OS/2, NOVELL and SCO UNIX.

2.3. ENVIRONMENT

• Ambient Temp.

- 0°C to +50°C (Operating).

Relative Hum.

0 to +85% (Operating).

Altitude

- 0 to 10,000 feet (Operating).

Vibration

- 0 to 1,000 Hz.

Electricity

- 4.9 V to 5.2 V. (Max. 20A current at 5V.)

3. HARDWARE INSTALLATION

3.1. UNPACKING

The mainboard package should contain the following:

- The 686LX3 mainboard.
- The Retention Mechanism & Attach Mount
- USER'S MANUAL for mainboard.
- Cable set for IDE, Floppy devices.
- Diskette or CD for Mainboard Utility.

The main board contains sensitive electric components, which can be easily damaged by static electricity, so the mainboard should be left in its original packing until it is installed.

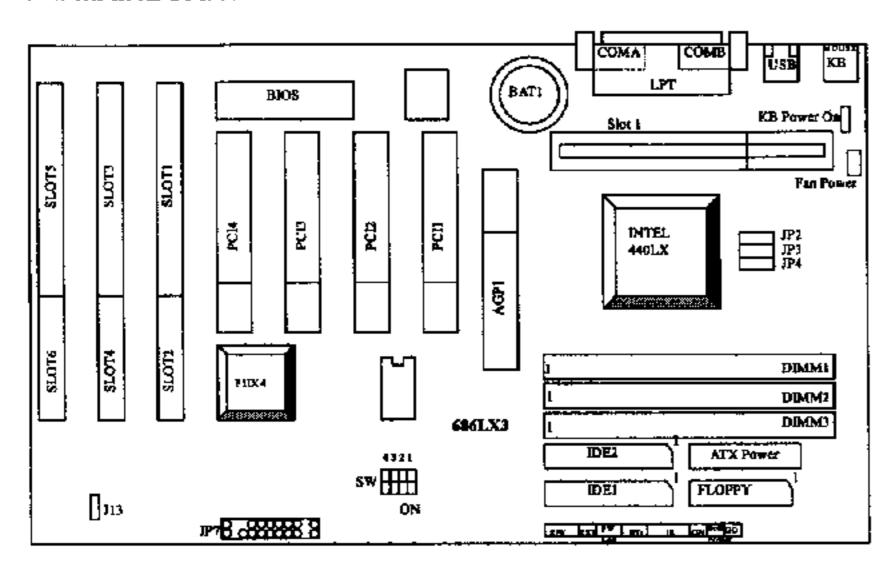
Unpacking and installation should be done on a grounded anti-static mat. The operator should be wearing an anti-static wristband, grounded at the same point as the anti-static mat.

Inspect the mainboard carton for obvious damage. Shipping and handling may cause damage to your board. Be sure there are no shipping and handling damages on the board before proceeding.

After opening the mainboard carton, extract the system board and place it only on a grounded anti-static surface component side up. Again inspect the board for damage. Press down on all of the socket IC's to make sure that they are properly seated. Do this only on with the board placed on a firm flat surface.

●*DO NOT APPLY POWER TO THE BOARD IF IT HAS BEEN DAMAGED.

3.2. MAINBOARD LAYOUT



⊀Figure 3.1≻

3.3. QUICK REFERENCE FOR JUMPERS & CONNECTORS

♦ I/O Po	erts Connector
CN1	USB port.
CN3	For Primary IDE port.
CN2	For Secondary IDE port.
· J2	For PS/2 Keyboard port.
J2	For PS/2 Mouse port.
J3	For Floppy port
J4	For Serial port2 (COM B).
J5	For Serial port1 (COM A).
J7	For LPT port.

♦ GN: GN-SW		
Pin No.	Function	
1	CTRL-Signal	
2	GND	

♦ HD : Hard Disk active LED (HD-LED)			
Pin No.	Function		
1	LED POWER (+)		
2	LED POWER (-)		

♦ J1:CPL	♦ J1 : CPU cooling FAN Power Connector		
Pin No.	Function		
1	GND.		
2	+12V		
3	SENSE		

◆ J13 : System After Ac Back			
Pin No.	Function		
1	Signal		
2	GND		

♦ JP1 : Keyboard Power On Selection		
Pin No.	Function	
1-2	Enabled Keyboard power on.	
2-3	Disabled Keyboard power on.	

♦ RST : RESET Switch		
Pin No.	Function	
1	RESET Input	
2	GND	

♦ PWR : P	OWER ON LED (PW-LED)
Ріл Мо.	Function
1	LED POWER (+)
2	NC
3	GND

♦ Slot 1		
For Pentium® II processor i	stalled	

♦ SPK:S	PEAKER Connector
Pin No.	Function
1	VCC
2	NC.
3	NC.
4	Output

♦ Soft PWR : Soft Power Switch			
Pin No.	Function		
1	CTRL-Signal		
2	GND		

JP7: 2*11 PIN Jumper

PWR LED HD

JP7 P. ES RKPS

Soft PWR: Soft Power Connector

Open: Normal Operation Short: Power On/Off

RES: Reset Switch

Open: Normal Operation
Short: For Hardware Reset System

LED: Power LED

PIN 1 : anode (+)
PIN 2 : cathode (-)
PIN 3 : cathode (-)

RKPS: Speaker Connector

PIN 1 : VCC PIN 2 : NC PIN 3 : NC PIN 4 : Data

HD: IDE Hard Disk Active LED

PIN 1: LED anode (+) PIN 2: LED cathode (-)

3.4. DRAM INSTALLATION

The mainboard can be installed with 8 / 16 / 32 / 64 / 128 / 256 MB 168 pins DIMM module DRAM, and the DRAM speed must be 50 or 60 ns for EDO & 67~100 MHz for SDRAM. The DRAM memory system on mainboard consists of bank 0, 1 & bank 2.

Since 168 pins DIMM module is 64 bits width, using 1 PCS which can match a 64 bits system. The total memory size is 8 MB ~ 768 MB EDO / 384MB SDRAM. The DRAM installation position refer to Figure 3.1, and notice the Pin 1 of DIMM module must match with the Pin 1 of DIMM socket. Insert the DRAM DIMM module into the DIMM socket at Vertical angle. If there is a wrong direction of Pin 1, the DRAM DIMM module couldn't be inserted into socket completely.

3.5. 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 200 - 366MHz processor. The CPU speed must match with the frequency RATIO and external clock frequency. It will cause system hanging up if the frequency RATIO and external clock frequency are higher than that of CPU.

DIP SWITCH (SW)		FREQ. EXT.CLK		INT.CLK.	CPU Type			
1	2	3	4	RATIO	MHz	MHz		
ON	OFF	ON	ON	3	66	200	Pentium® II 200 MHz	
OFF	QFF	ON	ON	3.5	66	233	Pentium® II 233 MHz	
ON	ON	OFF	ON	4	66	266	Pentium® II 266 MHz	
OFF	ON	OFF	ON	4.5	66	300	Pentium® II 300 MHz	
ON	OFF	OFF	ON	5	64	333	Pentium® II 333 MHz	
OFF	OFF	OFF	ON	5.5	66	388	Pentium® II 366 MHz	

Main Clock	JP4	JP3	JP2
66 MHz	1-2	1-2	1-2

The CPU is a sensitive electric component and it can be easily damaged by static electricity, so users must keep it away from metal surface when the CPU is installed onto mainboard.

3.6. CMOS RTC & ISA CFG CMOS SRAM

The main board contains RTC & CMOS SRAM on board. They have a power supply from external battery to keep the DATA inviolate & effective. The RTC is a REAL-TIME CLOCK device, which provides the DATE & TIME to system. The CMOS SRAM is used for keeping the information of system configuration, so the system can automatically boot OS every time. Since the lifetime of internal battery is 5 years, the user can change a new Battery to replace old one when it has consumed.

- ■*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.

3.7. SPEAKER CONNECTOR INSTALLATION

There is a speaker in AT system for sound purpose. The 4 - Pins connector SPK is used to connect speaker.

3.8. HARDWARE RESET SWITCH CONNECTOR INSTALLATION

The RESET switch on panel provides users with HARDWARE RESET function. The system will do a cold start after the RESET switch is pushed and released by user. The RESET switch is a 2 PINS connector and should be installed to RST on mainboard.

3.9. POWER LED CONNECTOR INSTALLATION

System has power LED lamp on the panel of case. The power LED will light on off or flash to indicate which step on the system. The connector should be connected to PWR of mainboard in correct direction.

3.10. IDE & ATAPI DEVICE INSTALLATION

There are two-Enhanced PCI IDE ports (IDE1, IDE2) on board, which following ATAPI standard SPEC. Any one IDE port can connected to two ATAPI devices (IDE Hard Disk, CD-ROM & Tape Driver), so total four ATAPI devices can exist in a system. The HD is the active LED port for ATAPI devices.

3.11. PERIPHERAL DEVICE INSTALLATION

After the I/O device installation and jumpers setup, the mainboard can be mounted into the case and fixed by screw. To complete the mainboard installation, the peripheral device could be installed now. The basic system needs a display interface card. If the PCI - Bus device is to be installed in the system, any one of four PCI - Bus slots can be used.

3.12. KEYBOARD & PS/2 MOUSE INSTALLATION

The main board supports PS/2 Mouse (J2). The BIOS will auto detect whether the PS/2 Mouse is installed or not & assign IRQ12 for PS/2 Mouse port if it is installed. After installing the peripheral device, the user should check everything again, and prepare to power-on the system.

4. BIOS CONFIGURATION

Award's BIOS ROM has a built-in Setup program that allows users to modify the basic system configuration. This type of information is stored in batterybacked CMOS SRAM so that it retains the Setup information when the power is turned off.

4.1. ENTERING SETUP

Power ON the computer and press immediately will allow you to enter Setup. If the message disappears before you respond and you still wish to enter Setup, restart the system to try again by turning it OFF then ON or pressing the "RESET" bottom on the system case. You may also restart by simultaneously press <Ctrl>, <Alt>, and keys.

4.2. CONTROL KEYS

	T
Up arrow	Move to previous item
Down arrow	Move to next item
Left arrow	Move to the item in the left hand
Right arrow	Move to the item in the right hand
Esc key	Main Menu - Quit and not save changes into CMOS Status Page Setup Menu and Option Page Setup Menu - Exit current page and return to Main Menu
PgUp key	Increase the numeric value or make changes
PgDn key	Decrease the numeric value or make changes
F1 key	General help, only for Status Page Setup Menu and Option Page Setup Menu
F2 key	Change color from total 16 colors
F3 key	Reserved
F4 key	Reserved
F5 key	Restore the previous CMOS value from CMOS, only for Option Page Setup Menu
F6 key	Load the default CMOS value from BIOS default table, only for Option Page Setup Menu
F7 key	Load the default
F8 key	Reserved
F9 key	Reserved
F10 key	Save all the CMOS changes, only for Main Menu

4.3. GETTING HELP

4.3.1. Main Menu

The on-line description of the highlighted setup function is displayed at the bottom of the screen.

4.3.2. Status Page Setup Menu / Option Page Setup Menu

Press F1 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window press <Esc>.

4.4. THE MAIN MENU

Once you enter Award BIOS CMOS Setup Utility, the Main Menu (Figure 4.1) will appear on the screen. The Main Menu allows you to select from nine setup functions and two exit choices. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

ROM PCI / ISA BIOS CMOS SETUP UTILITY AWARD SOFTWARE, INC.

ESC: Quit F10: Save & Exit Setup	↑ ↓ → ← : Select Item (Shift)F2 : Change Color			
LOAD SETUP DEFAULTS	<u> </u>			
INTEGRATED PERIPHERALS				
PNP/PCI CONFIGURATION				
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING			
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP			
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION			
STANDARD CMOS SETUP	USER PASSWORD			

Figure 4.1; Main Menu

Standard CMOS setup

This setup page includes all the items in standard compatible BIOS.

BIOS features setup

This setup page includes all the items of Award special enhanced features.

Chipset features setup

This setup page includes all the items of chipset special features.

Power management setup

This setup page includes all the items of Green function features.

PNP/PCI configuration

This setup page includes all the configurations of PCI & PnP ISA resources.

Integrated peripherals

This setup page includes all onboard peripherals.

Load setup defaults

Setup Defaults indicates the most appropriate value of the system parameters which the system would be in safe configuration.

User password

Change, set, or disable password. It allows you to limit access to the system and Setup, or just to Setup.

IDE HDD auto detection

Automatically configure hard disk parameters.

Save & exit setup

Save CMOS value settings to CMOS and exit setup.

Exit without saving

Abandon all CMOS value changes and exit setup.

4.5. STANDARD CMOS SETUP MENU

The items in Standard CMOS Setup Menu (Figure 4.2) are divided into 9 categories. Each category includes no, one or more than one setup items. Use the arrows to highlight the item and then use the <PgUp> or <PgDn> keys to select the value you want in each item.

ROM PCI/ISA BIOS STANDARD CMOS SETUP AWARD SOFTWARE, INC.

HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
Primary Mester	: Auto	0	Ó	0	0	0	0	Auto
Primary Slave	: None	0	0	0	0	0	0	
Secondary Master	; None	0	O	0	0	•	0	
Secondary Slave	; None	0	O	0	0	0	0	
Drive A : 1 44M , 3.5	in.							
Drive B : None								
Floppy 3 Mode Support	Disable :	ed		1		е Метку:		
Video : EGAVGA				1		d Memory:		
Hait On : No Errors				1	Oth	er Memory:	384 K	_
Table Committee					Total	d Memory:	16384 K	

Figure 4.2: Standard CMOS Setup Menu

Date

The date format is <day>, <month> <date> <year>.

day	The day, from Sun to Sat, determined by the BIOS and is display-only
month	The month, Jan. through Dec
date	The date, from 1 to 31 (or the maximum allowed in the month)
year	The year, from 1994 through 2079

Time

The times format in <hour> <minute> <second>. The time is calculated base on the 24-hour military-time clock. For example, 1 p.m. is 13:00:00.

Primary HDDs / Secondary HDDs

The category identifies the types of hard disk from drive C to F that has been installed in the computer. There are two types: auto type, and user definable type. User type is user-definable; Auto type which will automatically detect HDD type.

Note that the specifications of your drive must match with the drive table. The hard disk will not work properly if you enter improper information for this category.

If you select User Type, related information will be asked to enter to the following items. Enter the information directly from the keyboard and press <Enter>. Such information should be provided in the documentation form your hard disk vendor or the system manufacturer.

CYLS.	Number of cylinders
HEADS	number of heads
PRECOMP	write precomp
LANDZONE	Landing zone
SECTORS	number of sectors

If a hard disk has not been installed select NONE and press <Enter>.

Drive A type / Drive B type

The category identifies the types of floppy disk drive A or drive B that has been installed in the computer.

None	No floppy drive installed		
360K, 5.25 in.	5.25 inch PC-type standard drive; 360K byte capacity.		
1.2M, 5.25 in. 5.25 inch AT-type high-density drive; capacity (3.5 inch when 3 Mode is Enabled			
720K, 3.5 in.	3.5 inch double-sided drive; 720K byte capacity		
1.44M, 3.5 in.	3.5 inch double-sided drive; 1.44M byte capacity.		
2.88M, 3.5 in. 3.5 inch double-sided drive; 2.88M byte capacity.			

Floppy 3 Mode Support (for Japan Area)

Disabled	Normal Floppy Drive.	
Drive A	Drive A is 3 mode Floppy Drive.	
Drive B	Drive B is 3 mode Floppy Drive.	
Both	Drive A & B are 3 mode Floppy Drives.	

Video

The category detects the type of adapter used for the primary system monitor that must match your video display card and monitor. Although secondary monitors are supported, you do not have to select the type in setup.

EGA/VGA	Enhanced Graphics Adapter/Video Graphics Array. For EGA, VGA, SVGA, or PGA monitor adapters		
CGA 40	Color Graphics Adapter, power up in 40 column mode		
CGA 80	Color Graphics Adapter, power up in 80 column mode		
MONO	Monochrome adapter, includes high resolution monochrome adapters		

Halt on

The category determines whether the computer will stop if an error is detected during power up.

NO Errors	The system boot will not stop for any error that may be detected
All Errors	Whenever the BIOS detects a non-fatal error the system will be stopped and you will be prompted
All, But Keyboard	The system boot will not stop for a keyboard error; it will stop for all other errors
All, But Diskette	The system boot will not stop for a disk error; it will stop for all other errors
All, But Disk/Key	The system boot will not stop for a keyboard or disk error; it will stop for all other errors

Memory

The category is display-only which is determined by POST (Power On Self Test) of the BIOS.

Base Memory

The POST of the BIOS will determine the amount of base (or conventional) memory installed in the system.

The value of the base memory is typically 512 K for systems with 512 K memory installed on the motherboard, or 640 K for systems with 640 K or more memory installed on the motherboard.

Extended Memory

The BIOS determines how much extended memory is present during the POST.

This is the amount of memory located above 1 MB in the CPU's memory address map.

Expanded Memory

Expanded Memory in memory defined by the Lotus/Intel/Microsoft (LIM) standard as EMS.

Many standard DOS applications can not utilize memory above 640 K; the Expanded Memory Specification (EMS) swaps memory, which not utilized by DOS with a section, or frame, so these applications, can access all of the system memory.

Memory can be swapped by EMS is usually 64 K within 1 MB or memory above 1 MB, depends on the chipset design.

Expanded memory device driver is required to use memory as Expanded Memory.

Other Memory

This refers to the memory located in the 640 K to 1024 K address space. This is memory that can be used for different applications.

DOS uses this area to load device drivers to keep as much base memory free for application programs. Most use for this area is Shadow RAM.

4.6. BIOS FEATURES SETUP

ROM PCI/ISA BIOS BIOS FEATURES SETUP AWARD SOFTWARE, INC.

Virus Warning	: Disables	Video BIOS Shadow	, : E	balds
CPU Internal Cache	: Enabled			
External Cache	: Enabled			
CPU L2 Cache ECC Checking	: Disabled			
Quick Power On Self Test	: Enabled			
CPU Update Data	: Enabled			
Boot Sequence Swap Floppy Drive	: A, C, SCSI : Disabled			
VGA Boot From	: AGP			
Boat Up Floppy Seek	: Enabled			
Boot Up NumLock Status	: On			
Typematic Rate Setting	: Disabled			
Typematic Rate (Chars/Sec)	: 6	ESC : Quit	† ↓→ ←	: Select Item
Typematic Delay (Mscc)	: 250	F1:Help	PU/PD/+/-	: Modify
Security Option	: Setup	F5 : Old Values	(Shift)F2	Color
PCLVGA Palente Snoop	: Disabled	F7 : Load Setup 1	Defaults	
OS Select For DRAM >64MB	: Non-OS2	!		

Figure 4.3: BIOS Features Setup

Virus Warning

If it is set to enable, the category will flash on the screen when there is any attempt to write to the boot sector or partition table of the hard disk drive. The system will halt and the following error message will appear in the mean time. You can run anti-virus program to locate the problem.

Default value is Disabled.

Enabled	Activate automatically when the system boots up causing a
Į	warning message to appear when anything attempts to
	access the boot sector or hard disk partition table
Disabled	No warning message to appear when anything attempts to
	access the boot sector or hard disk partition table

CPU Internal Cache / External Cache

These two categories speed up memory access. However, it depends on CPU / chipset design. The default value is Enabled.

Enabled	Enable cache	
Disabled	Disable cache	·

CPU L2 Cache ECC Checking

The default value is Disabled.

Enabled	Enable CPU L2 Cache ECC Checking	
Disabled	Disable CPU L2 Cache ECC Checking	

Quick Power On Self Test

This category speeds up Power On Self Test (POST) after you power on the computer. If it is set to Enable, BIOS will shorten or skip some check items during POST.

The default value is Enabled.

Enabled	Enable quick POST
Disabled	Normal POST

CPU Update Data

The default value is Enabled.

Enabled	Enable CPU Update Data
Disabled	Normal CPU Update Data

Boot Sequence

This category determines which drive computer searches first for the disk operating system (i.e., DOS). Default value is A, C, SCSI.

X1, X2, X3	System will first search for X1 disk drive then X2 disk		
	drive and then X3 disk drive.		

Swap Floppy Drive

The default value is Disabled.

Enabled	Floppy A & B will be swapped under DOS	
	Floppy A & B will be normal definition	_

VGA Boot From

The default value is AGP

AGP	System will boot from AGP Display Card	
PCI	System will boot from PCI VGA Card	

Boot Up Floppy Seek

During POST, BIOS will determine the floppy disk drive installed is 40 or 80 tracks. 360 K type is 40 tracks 720 K, 1.2 M and 1.44 M are all 80 tracks. The default value is Enabled.

Enabled	BIOS searches for floppy disk drive to determine it is 40 or 80 tracks. Note that BIOS can not tell from 720 K, 1.2 M or 1.44 M drive type as they are all 80 tracks
Disabled	BIOS will not search for the type of floppy disk drive by track number. Note that there will not be any warning message if the drive installed is 360 K

Boot Up NumLock Status

The default value is On.

On	Keypad is number keys
Off	Keypad is arrow keys

Typematic Rate Setting

The default value is Disabled.

Enabled	Enable Keyboard Typematic rate setting.
Disabled	Disable Keyboard Typematic rate setting.

Typematic Rate (Chars / Sec.)

The default value is 6.

6-30	Set the maximum Typematic rate from 6 chars. Per second	
	to 30 characters. Per second.	

Typematic Delay (Msec.)

The default value is 250.

250-1000	Set the time delay from first key to repeat the same key
	in to computer.

Security Option

This category allows you to limit access to the system and Setup, or just to Setup. The default value is Setup.

System	The system can not boot and can not access to Setup page will be denied if the correct password is not entered at the prompt
Setup	The system will boot, but access to Setup will be denied if
ļ	the correct password is not entered at the prompt

To disable security, select PASSWORD SETTING at Main Menu and then you will be asked to enter password. Do not type anything and just press <Enter>, it will disable security. Once the security is disabled, the system will boot and you can enter Setup page freely.

PCI/VGA Palette Snoop

The default value is Disabled.

Enabled	For having Video Card on ISA Bus and VGA Card on PCI Bus.	
Disabled	For VGA Card only.	

OS Select For DRAM>64MB

The default value is Non-OS2.

Non-OS2	Using non-OS2 operating system.	
OS2	Using OS2 operating system and DRAM>64MB.	

Video BIOS Shadow

It determines whether video BIOS is able to copy to RAM, however, it is optional from chipset design. Video Shadow will increase the video speed. The default value is Enabled.

Enabled	Video shadow is enabled	
Disabled	Video shadow is disabled	

4,7. CHIPSET FEATURES SETUP

ROM PCI / ISA BIOS CHIPSET FEATURES SETUP AWARD SOFTWARE, INC.

Auto Configuration	: Enabled			
DRAM Speed Selection	: Normal			
Memory Buffer Strength	: Middle			
DRAM Data Integrity Mode	: Non-ECC	1		
Video RAM Cacheable	: Disabled			
16 Bit I/O Recovery Time	:1]		
Memory Hole At 15M-16M	: Disabled	j		
Delayed Transaction	: Disabled	1		
SDRAM RAS-to-CAS Delay	: Fast			
SDRAM RAS Procharge Time	: Fast			
SDRAM CAS latency Time	: 2			
		·1		
		ESC : Quit	† ↓→←	: Select Item
		Fl : Help	PU/PD/+/-	: Modify
		F5 : Old Values	(Shift)F2	: Color
		F7 : Load Setup I	Defaults	

Figure 4.4: Chipset Features Setup

Auto Configuration

The default value is Enabled.

Enabled	For 50 - 60ns EDO DRAM Timing.
Disabled	For slow speed DRAM Timing.

DRAM Speed Selection

The default value is Normal.

Normal	For normal DRAM operation.	
Fast	For Fastest DRAM timing operation.	

Memory Buffer Strength

The default value is Middle.

Middle	For Middle Memory Buffer strength.	
Low	For Low Memory Buffer strength.	
High	For High Memory Buffer strength.	

DRAM Data Integrity Mode

The default value is Non-ECC.

Non-ECC	For 64bit standard type DIMM module.	
ECC	For 72bit ECC type DIMM module.	

Video RAM Cacheable

The default value is Disabled.

Disabled	Disable this function.
Enabled	Enable this function to get better VGA performance;
	while some brands of VGA must be disabled this function
	(e.g.ET4000W32P).

^{*} This item will be unavailable when Auto Configuration is set to Disabled.

16 Bit I/O Recovery Time

The default value is 1.

1-4	Set 16 Bit I/O recovery time from 1 to 4.
NA	None.

Memory Hole At 15M-16M

The default value is Disabled.

Disabled	Normal Setting.
Enabled	Set Address=15~16MB remap to ISA BUS.

Delayed Transaction

The default value is Disabled.

Disabled	Normal operation.
Enabled	For slow speed ISA device in system.

SDRAM RAS-to-CAS Delay

The default value is Fast

Slow	For 67 / 83 MHz SDRAM DIMM module.
Fast	For 100 MHz SDRAM DIMM module.

SDRAM RAS Precharge Time

The default value is Fast.

Slow	For 67 / 83 MHz SDRAM DIMM module.
Fast	For 100 MHz SDRAM DIMM module.

SDRAM CAS latency Time

The default value is 2.

3	For 67 / 83 MHz SDRAM DIMM module.
2	For 100 MHz SDRAM DIMM module.

4.8. POWER MANAGEMENT SETUP

ROM PCI / ISA BIOS
POWER MANAGEMENT SETUP
AWARD SOFTWARE, INC.

Power Management PM Control by APM Suspend Mode HDD Power Down Suspend Mode option VGA Active Monitor Soft-off by PWR-BTTN Resume by Alarm * Date (of Month) Alarm * Time (hh:mm;ss) Alarm	: Enable : Yes : Disable : Disable : PowerOn Suspend : Disabled : Instant-off : Disabled : 0 . 00.00:00	Reload Global Timer Events RQ [3-7,9-15], NMI Primary IDE 0 Primary IDE 1 Secondary IDE 0 Secondary IDE 1 Floppy Disk Serial Port Parallel Port	: Enabled : Disabled : Disabled : Disabled : Disabled : Disabled : Enabled : Enabled : Enabled
		ESC : Quit	

Figure 4.5: Power Management Setup

- These two items will show up when Resume by Alarm is enabled.
- Power Management
 The default value is Enabled.

Enabled	Enable Green function.
Disabled	Disable Green function.

PM Control by APM
 The default value is Yes.

Yes	Enable software APM function.
No	Disable software APM function.

Suspend Mode

The default value is Disable.

Disabled	Disable Suspend Mode.
1 min - 1 Hour	Setup the timer to enter Suspend Mode.

HDD Power Down

The default value is Disable.

Disable	Disable HDD Power Down mode function.
1-15 mins.	Enable HDD Power Down mode between 1 to 15 mins.

Suspend Mode Option

The default value is PowerOn Suspend

PowerOn Suspend	Set the system to PowerOn Suspend mode
Suspend to Disk	Set the system to Suspend to Disk mode
(Optional)	

VGA Active Monitor

The default value is Disabled.

Disabled	Disable monitor VGA activity.
Enabled	Enable monitor VGA activity.

Soft-off by PWR-BTTN

The default value is Instant-Off.

instant-off	Soft switch ON/OFF for POWER ON/OFF
Delay 4 Sec.	Soft switch ON 4sec. for POWER OFF.

Resume by Alarm

The default value is Disabled.

Disabled	Disable this function.
Enabled	Enable alarm function to POWER ON system.

If the default value is Enabled.

Date (of Month) Alarm :	0~31
Time (hh: mm: ss) Alarm :	(0~23) : (0~59) : (0~59)

IRQ [3-7,9-15], NMI

The default value is Enabled.

Disabled	Disable this function.
Enabled	Enable monitor IRQ [3-7,9-15] for Green event.

Primary IDE 0 / 1

The default value is Disabled.

Disabled	Disable this function.
Enabled	Enable monitor Primary IDE 0 / 1 for Green event.

Secondary IDE 0 / 1

The default value is Disabled.

Disabled	Disable this function.
Enabled	Enable monitor Secondary IDE 0 / 1 for Green event.

Floppy Disk

The default value is Enabled.

Disabled	Disable this function.
Enabled	Enable monitor Floppy Disk for Green event.

Serial Port

The default value is Enabled.

Disabled	Disable this function.
Enabled	Enable monitor Serial Port for Green event.

Parallel Port

The default value is Disabled.

Disabled	Disable this function.
Enabled	Enable monitor Parallel Port for Green event.

4.9. PNP/PCI CONFIGURATION

ROM PCI / ISA BIOS PNP/PCI CONFGURATION

AWARD SOFTWARE, INC.

PNP OS Installed	; Ng	Used MEM base addr	: N/A
Resources Controlled by	: Manual	*Used MEM Length	: 8K
Reset Configuration Data	: Disabled	Assign IRQ For USB	: Enabled
IRQ-3 assigned to	: Legacy ISA		
IRQ-4 assigned to	: Legacy ISA	İ	
IRQ-5 assigned to	: PC#ISA PnP		
IRQ-7 assigned to	: Legácy ISA	1	
IRQ-9 assigned to	: PCI/ISA PnP		
IRQ-10 assigned to	: PCI/ISA PnP	1	
IRQ-11 assigned to	: PCVISA PnP		
IRQ-12 assigned to	: Legacy ISA		
IRQ-14 assigned to	: Legacy ISA	1	
IRQ-15 assigned to	: Legacy ISA		
DMA-0 assigned to	: PCI/ISA PaP		
DMA-1 assigned to	: PCI/ISA PnP	ESC : Quit	- : Select Item
DMA-3 assigned to	: PCI/ISA PnP	Fi :Help PU/PD/+/	- : Modify
DMA-5 assigned to	: PCI/ISA PnP	F5 : Old Values (Shift)F2	: Color
DMA-6 assigned to	: PCI/ISA PuP	F6 : Land BIOS Defaults	
DMA-7 assigned to	: PCI/ISA PnP	F7 : Load PERFORM ANCI	E Defaults

Figure 4.6: PCI Slot Configuration

PNP OS Installed

The default value is No.

Yes	Enable PNP OS installed function.	
No	Disable PNP OS Installed function.	

Resources Controlled by

The default value is Manual.

Manual	User can set the PnP resource (I/O Address, IRQ & DMA channels) used by legacy ISA DEVICE.
Auto	BIOS automatically use these PnP rescuers.

Reset Configuration Data

The default value is Disabled.

Disabled	Disable this function.
Enabled	Enable clear PnP information in ESCD.

IRQ (3,4,5,7,9,10,11,12,14,15), DMA(0,1,3,5,6,7) assigned to

The default value is "Legacy ISA" or "PCI/ISA PnP".

Legacy ISA	The resource is used by Legacy ISA device.		
PCI/ISA PnP	The resource is used by PCI/ISA PnP device (PCI or		
	ISA).		

Used MEM base addr

The default value is N/A.

N/A	Disable the MEM. block using.
C800 ~ DC00	Select the MEM. block starting address.

Used MEM Length

The default value is 8K.

	8K ~ 64K	Select the MEM. block size.

Assign IRQ For USB

The default value is Enabled.

Enabled	Assign a specific IRQ for USB
Disabled	No IRQ is assigned for USB

^{*} This item will show up when Used MEM base addr has been set.

4.10. INTEGRATED PERIPHERALS

ROM PC1/ ISA BIOS INTEGRATED PERIPHERALS AWARD SOFTWARE, INC.

IDE HDD Block Mode IDE Primary Master PiO	: Enabled : Auto	PS/2 Mouse Power On Keyboard Power On	: Disabled : Disabled
IDE Primary Slave PIO IDE Secondary Master PIO IDE Secondary Slave PIO IDE Primary Master UDMA IDE Primary Slave UDMA IDE Secondary Master UDMA IDE Secondary Slave UDMA IDE Secondary Slave UDMA On-Chip Primary PCI IDE On-Chip Secondary PCI IDE USB Keyboard Support	: Auto : Enabled : Enabled	** KB Power On Multikey	: Enter
Onboard FDC Controller Onboard Serial Port1 Onboard Serial Port2 Onboard Parallel Port Parallel Port Mode	: Enabled : 3FB/IRQ4 : 2FB/IRQ3 : 37B/IRQ7 : SPP	ESC : Quit ↑ ↓ → ← F1 : Help PU/PD/+/- F5 : Old Values (Shift)F2 F7 : Load Setup Defaults	: Select Item : Modify : Color

Figure 4.7: Integrated Peripherals

IDE HDD Block Mode

The default value is Enabled.

Enabled	Enable IDE HDD Block Mode
Disabled	Disable IDE HDD Block Mode

IDE Primary Master PIO (for onboard IDE 1st channel).

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing	
	mode.	
Mode0~4	Manually set the IDE Accessing mode.	

IDE Primary Slave PiO (for onboard IDE 1st channel).

The default value is Auto.

·		
Auto	BIOS will automatically detect the IDE HDD Accessing	
	mode.	
Mode0~4	Manually set the IDE Accessing mode.	

IDE Secondary Master PIO (for onboard IDE 2nd channel).

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing mode.	
Mode0~4	Manually set the IDE Accessing mode.	

IDE Secondary Slave PIO (for onboard IDE 2nd channel).

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing	
Auto		
	mode.	
Mode0~4	Manually set the IDE Accessing mode.	

IDE Primary Master UDMA.

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing	
ļ	mode.	
Disabled	Disable UDMA function.	

IDE Primary Slave UDMA.

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing	
	mode	
Disabled	Disable UDMA function.	

^{**} This item will show up when "Keyboard Power On: Multikey" is selected.

IDE Secondary Master UDMA.

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing	
-	mode.	
Disabled	Disable UDMA function.	

IDE Secondary Slave UDMA.

The default value is Auto.

Auto	BIOS will automatically detect the IDE HDD Accessing	
	mode.	
Disabled	Disable UDMA function.	

On-Chip Primary PCI IDE

The default value is Enabled.

Enabled	Enable onboard 1st channel IDE port.	
Disabled	Disable onboard 1st channel IDE port.	

On-Chip Secondary PCI IDE

The default value is Enabled.

Enabled	Enable onboard 2nd channel IDE port.	
Disabled	Disable onboard 2nd channel IDE port.	

USB Keyboard Support

The default value is Disabled.

Enabled	Enable USB Keyboard Support.
Disabled	Disable USB Keyboard Support.

Onboard FDC Controller

The default value is Enabled.

Enabled	Enable onboard FDD port.	
Disabled	Disable onboard FDD port.	

Onboard Serial Port 1

The default value is 3F8/IRQ4.

Auto	BIOS will automatically setup the port 1 address.
3F8/IRQ4	Enable onboard Serial port 1 and address is 3F8.
2F8/IRQ3	Enable onboard Serial port 1 and address is 2F8.
3E8/IRQ4	Enable onboard Serial port 1 and address is 3E8.
2E8/IRQ3	Enable onboard Serial port 1 and address is 2E8.
Disabled	Disable onboard Serial port 1.

Onboard Serial Port 2

The default value is 2F8/IRQ3.

Auto	BIOS will automatically setup the port 2 address.
3F8/IRQ4	Enable onboard Serial port 2 and address is 3F8.
2F8/IRQ3	Enable onboard Serial port 2 and address is 2F8.
3E8/IRQ4	Enable onboard Serial port 2 and address is 3E8.
2E8/IRQ3	Enable onboard Serial port 2 and address is 2E8.
Disabled	Disable onboard Serial port 2.

Onboard Parallel port

The default value is 378/IRQ7.

378/IRQ7	Enable onboard LPT port and address is 378/IRQ7.
278/IRQ5	Enable onboard LPT port and address is 278/IRQ5.
Disabled	Disable onboard LPT port.
3BC/IRQ7	Enable onboard LPT port and address is 3BC/IRQ7.

Parallel Port Mode

The default value is SPP.

SPP	Using Parallel port as Standard Printer Port.
EPP	Using Parallel port as Enhanced Parallel Port.
ECP	Using Parallel port as Extended Capabilities Port.
ECP/EPP	Using Parallel port as ECP & EPP mode.

PS/2 Mouse Power on

The default value is Disabled.

Disabled	Disable PS/2 Mouse Power on .
Left Double	Click twice on PS/2 mouse left button to Power on system.
Right Double	Click twice on PS/2 mouse right button to Power on system.

Keyboard Power on

The default value is Disabled.

Disabled	Disable Keyboard Power on .
Multikey	Enter multikey combination to Power on system.

4.11. LOAD SETUP DEFAULTS

LOAD SETUP DEFAULTS AWARD SOFTWARE, INC.

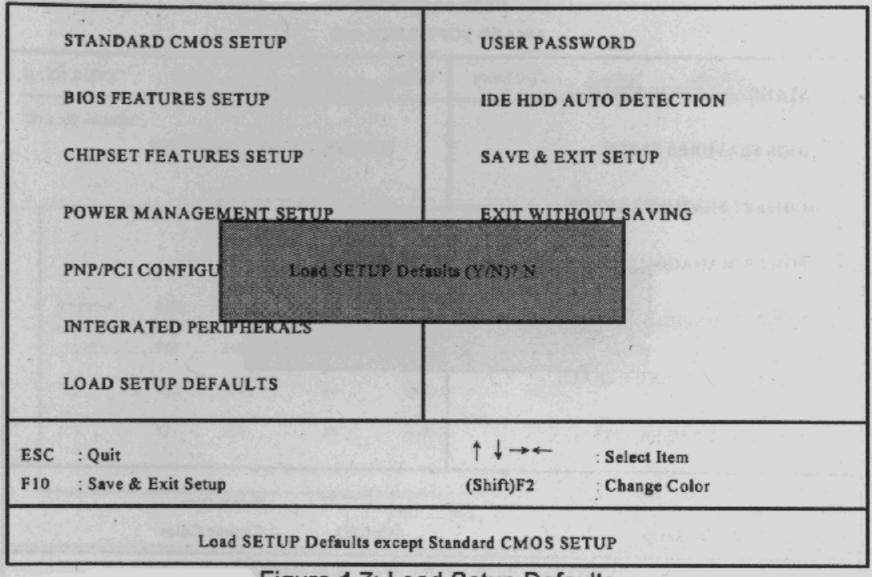


Figure 4.7: Load Setup Defaults

Load SETUP Defaults

To load SETUP defaults value to CMOS SRAM, enter "Y". If not, enter "N".

BIOS Configuration

4.12. USER PASSWORD

When you select this function, the following message will appear at the center of the screen to assist you in creating a password.

ROM PCI / ISA BIOS
USER PASSWORD
AWARD SOFTWARE, INC.

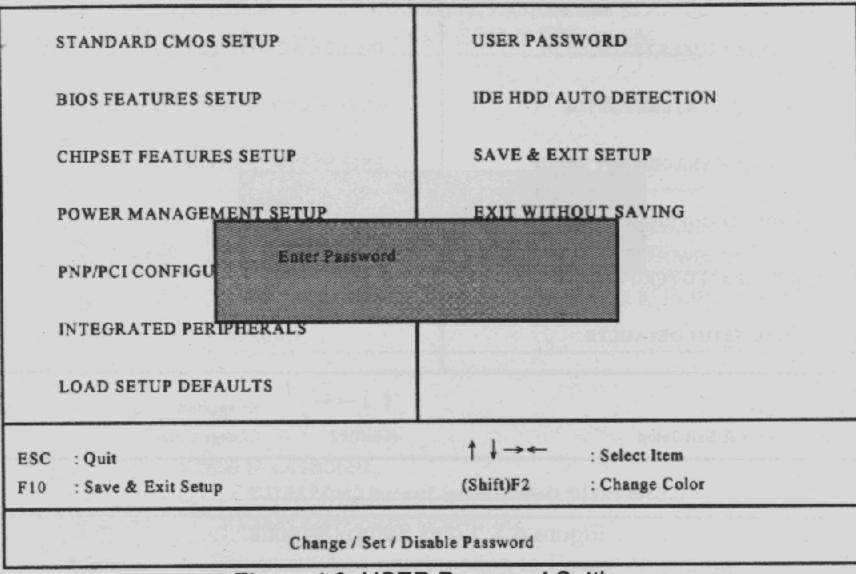


Figure 4.8: USER Password Setting

Type the password, up to eight characters, and press <Enter>. The password typed now will clear the previously entered password from CMOS memory. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection.

To disable password, just press <Enter> when you are prompted to enter password. A message "PASSWORD DISABLED" will appear to confirm the password being disabled. Once the password is disabled, the system will boot and you can enter Setup freely.

If you select System at Security Option in BIOS Features Setup Menu, you will be prompted for the password every time the system is rebooted or any time you try to enter Setup Menu. If you select Setup at Security Option in BIOS Features Setup Menu, you will be prompted only when you try to enter Setup.

4.13. IDE HDD AUTO DETECTION

ROM PCI/ISA BIOS

IDE HDDD AUTO DETECTION

AWARD SOFTWARE, INC.

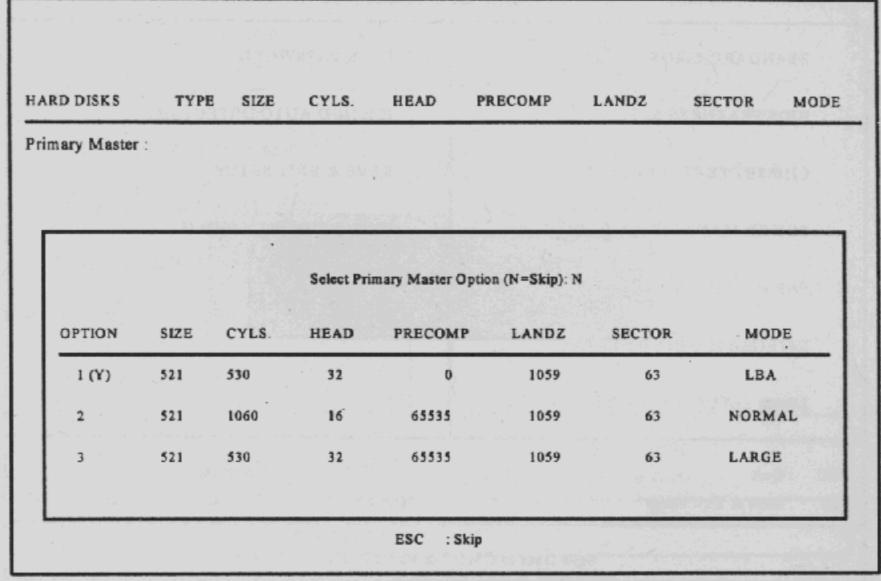


Figure 4.9: IDE HDD Auto Detection

Type "Y" will accept the H.D.D. parameter reported by BIOS.

Type "N" will keep the old H.D.D. parameter setup. If the hard disk cylinder number is over 1024, then the user can select LBA mode or LARGER mode for DOS partition larger than 528 MB.

4.14. SAVE & EXIT SETUP

SAVE & EXIT SETUP

AWARD SOFTWARE, INC.

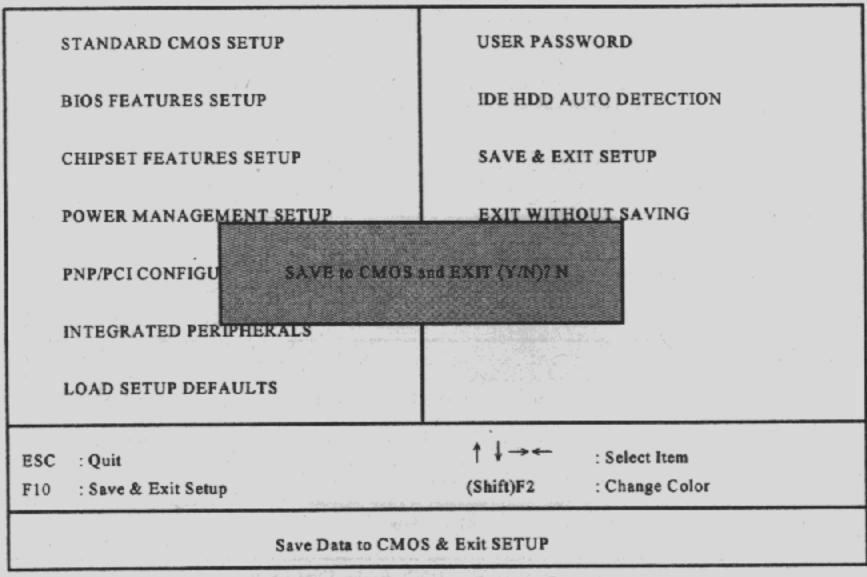


Figure 4.10: Save & Exit Setup

Type "Y" will quit the Setup Utility and save the user setup value to RTC CMOS SRAM.

Type "N" will return to Setup Utility.

4.15. EXIT WITHOUT SAVING

ROM PCI/ISA BIOS EXIT WITHOUT SAVING AWARD SOFTWARE, INC.

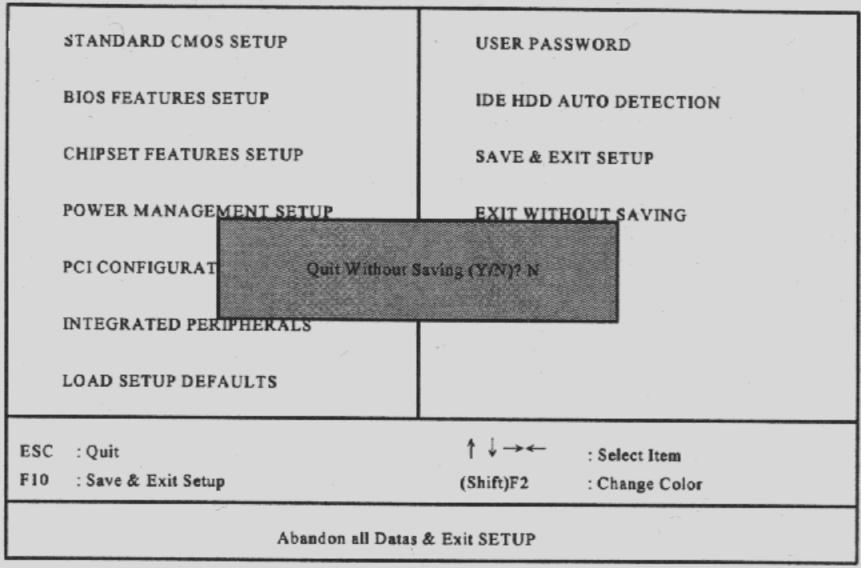


Figure 4.11: Exit Without Saving

Type "Y" will quit the Setup Utility without saving to RTC CMOS SRAM.

Type "N" will return to Setup Utility.