

# Table of Contents

<b>COMPONENT LOCATION DIAGRAM.....</b>	<b>A</b>
INDEX.....	1
<b>CHAPTER 1 INTRODUCTION.....</b>	<b>2</b>
1-1 SYSTEM FEATURES.....	3
1-2 SOFTWARE POWER OFF CONTROL.....	4
1-3 CHECK LIST OF THE PACKAGING .....	5
<b>CHAPTER 2 INSTALLATION.....</b>	<b>6</b>
2-1 INSTALLATION PROCEDURES .....	6
2-2 CPU INSTALLATION.....	7
2-3 SYSTEM MEMORY INSTALLATION.....	9
2-4 CONNECTORS DESCRIPTION .....	11
2-5 IDE DRIVER INSTALLATION.....	16
<b>CHAPTER 3 Award BIOS SETUP .....</b>	<b>17</b>
3-1 UPDATE BIOS PROCEDURES .....	18
3-1-1 UPDATE Award SYSTEM BIOS (FLASH EPROM)	
3-1-2 UPDATE PENTIUM PRO BIOS API	
3-2 Award SYSTEM BIOS CONFIGURATION SETUP .....	20
<b>APPENDIX A .....</b>	<b>45</b>

# CHAPTER 1 INTRODUCTION

This manual describes to configure the ATC-6100 mainboard for different environments. It's an overview of the layout and features of the mainboard, and also provides information for you to change the configuration or system environment.

This manual is divided into two sections :

**PART ONE** includes page A and two chapters as following:

Page A contains layout diagram of the mainboard.

Please refer to it when you configure the system.

**Chapter 1** is an overview of the mainboard features and packing contents.

**Chapter 2** describes how to upgrade and to change hardware configurations such as memory size, CPU type, and lists of jumper settings and connectors.

**PART TWO** includes chapter 3 which contains Award BIOS description..

**Chapter 3** is the user's guide of the Award BIOS setup utility, Flash ROM BIOS, and Intel Pentium II BIOS API update procedure. The menu shown in this chapter are the default settings.

Your system dealer will set up the mainboard according to your demand of the computer. It means that the current settings of your mainboard may not be the same as the defaults shown in this user's manual. If you need to change your configuration, please ask your dealer first. Be sure this will not void your system warranty, or ask your dealer to do it for you.

## **REMARK**

Intel<sup>®</sup> is a registered trademark of Intel Corporation.

MS-DOS<sup>®</sup> is a registered trademark of Microsoft Corporation.

All other brands and product names are trademarks registered trademarks of their respective companies.

## 1-1 SYSTEM FEATURES

- ☐ INTEL Pentium II CPU operating at 233MHz and 266MHz by using Single Edge Contact (S.E.C.) cartridge (or named Slot 1).
- ☐ INTEL Natoma 82440FX PCIset.
- ☐ Pentium II CPU with MMX™ Technology, and 512 or 256KB L2 Cache.
- ☐ Using six 72-pin SIM sockets, provides three banks of 64-bit wide path up to 768MB addressing page mode DRAMs.
- ☐ Supports all types of DRAM included EDO (Extended Data Out), BEDO (Burst EDO), or FPM (Fast Page Mode), with parity chip support ECC (Error Checking and Correcting).
- ☐ Built-in Switching Voltage Regulator.
- ☐ Supports auto-detect CPU core voltage range 2.1V to 3.5V.
- ☐ Supports four PCI revision 2.1 interface compliant and four 16-bit ISA slots.
- ☐ Dual Master IDE connectors support up to four devices in two channels for connecting of high capacity hard drive, CD-ROM, tape backup etc..
- ☐ Supports the USB (Universal Serial Bus) header.
- ☐ PS/2 keyboard connector and PS/2 mouse connector.
- ☐ Winbond 83877 high-speed Multi-I/O chipset.
- ☐ Supports Infrared transfer (IrDA TX/RX) connection.
- ☐ One FDC port supports two devices up to 2.88MB
- ☐ Two 16550A fast UARTs compatible serial ports
- ☐ One EPP/ECP mode parallel port
- ☐ Hardware Dimension is 245mm x 305mm (9.64" x 12.00").

## 1-2 SOFTWARE POWER OFF CONTROL

The mainboard design supports Software Power Off Control feature through the SMM code in the BIOS under Windows 95, Windows 3.1x, and MS-DOS operation system environment. This is Intel ATX form factor feature and you should use ATX power supply.

First, you should connect the power switch cable (provided by the ATX case supplier) to the connector JP1 “PS-ON” (next to IDE connector) on the mainboard. In the BIOS screen of ‘POWER MANAGEMENT SETUP’, choose “User Defined” (or “Min. Power Saving” or “Max. Power Saving”) in ‘Power Manager’ and choose “Yes” in ‘PM Control by APM’.

In Windows 95, if you would like to power off the system, you just choose “shutdown the computer ?” in the “Shut Down Windows“ from Windows 95, then the system power will be off directly, and be the stand-by status. You will find the power LED light blinking. If you would like to restart the system, just press the power switch button, and the system will be powered on.

In Windows 3.1x or MS-DOS, you should copy the program of “down.com” (you can find it in the diskette of the IDE driver) into the hard drive. When you would like to power off the system, just run this “**down.com**”, then the system will be shutdown and stay in standby status.

Note : If you will leave your system for several days, we suggest you use hardware power off to shutdown your system.

## 1-3 CHECK LIST OF THE PACKAGING

The mainboard comes securely packed in a durable box and shipping carton. If any of the above items are missing or damaged, please contact your supplier.

Each mainboard contains:

<u>QTY</u>	<u>Description</u>
1	Mainboard : ATC-6100.
1	Retention module (for Pentium II installation)
1	Diskette : Enhanced IDE driver (3.5") Award system BIOS Update Utility
1	Cable : Enhanced IDE connector.
1	Cable : F.D.D. connector.
1	Manual : User`s manual.

NOTE : Leave the mainboard in its original packaging until you are ready to install it.

# CHAPTER 2 INSTALLATION

## 2-1 INSTALLATION PROCEDURE

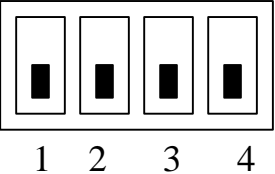
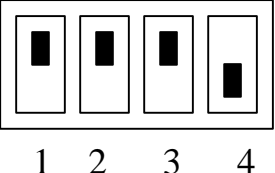
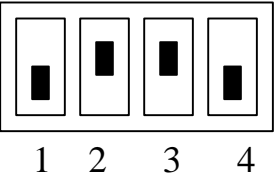
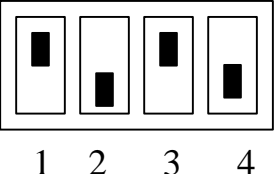
Before installing the computer, please prepare all components such as CPU, DRAM; peripherals such as hard drive, keyboard, CD-ROM; and accessories such as cables. Then, install the system as following:

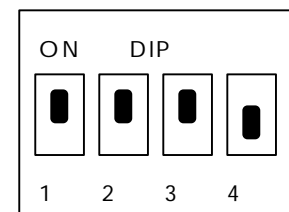
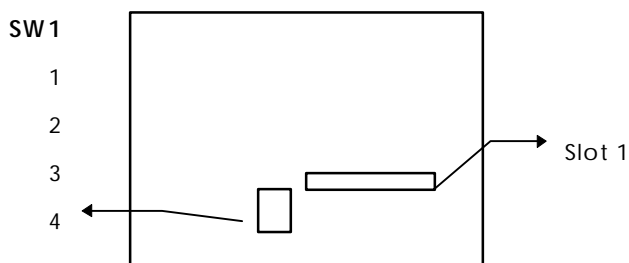
1. Plug CPU/ heat sink (refer to Pentium II installation guide),  
and DRAM modules in the mainboard.
2. Set DIP switch based on your configuration.
3. Plug add-on cards in PCI/ISA slots.
4. Connect cables to peripherals, power supply.
5. Make sure all components and devices are well connected,  
turn on the power and setup System BIOS based on your  
configuration.
6. Install peripherals, add-on card drivers and test them.
7. If all of above procedures are success, turn-off the power then  
plug all of them into your computer case.

## 2-2 CPU INSTALLATION

ATC-6100 supports INTEL Pentium II CPU cartridge.

### 2-2-1 CPU TYPE SELECTION

INTERNAL CPU CLOCK	SW1	Ext.x Frq.
233MHz	ON OFF  1 2 3 4	66x3.5
266MHz	ON OFF  1 2 3 4	66x4.0
300MHz	ON OFF  1 2 3 4	66x4.5
333MHz	ON OFF  1 2 3 4	66x5.0



DIP switch, ( ex. : ON,ON,ON,OFF)

ON : switch to the 'ON' position.

OFF : switch to the 'OFF' position.

## **2-2-2 CPU VOLTAGE SETTING**

The ATC-6100 mainboard has built-in VID (Voltage IDentify) function to auto-detect various CPU voltages, you do not need to adjust the CPU voltage setting when you install the Pentium II CPU card on this mainboard.



## 2-3 SYSTEM MEMORY INSTALLATION

The ATC-6100 provides six 72-pin SIMM sockets for system memory expansion from 8MB to 768MB. These six SIMMs are arranged to three banks, Bank0 (SIM 1, 2), Bank1 (SIM 3, 4), and Bank2 (SIM 5, 6), please refer to page A. Each bank provides 64-bit wide data path.

The mainboard accepts Fast Page Mode DRAM, EDO Mode (Extended Data Out) DRAM, ECC (with parity-chip) DRAM, and BEDO (Burst EDO) DRAM, with a speed of at least 70 nanosecond. You should plug DRAM modules into two sockets (same bank) or six sockets at one time. Each pair of modules must be the same size, type, and speed; no matter single-side or double-side module. Please plug in Bank 0 first if you only have 2 modules. The mainboard supports mixing of EDO SIMMs with fast page mode DRAM SIMMs among different banks; please plug EDO in Bank 0, if you only have 2 EDO modules.

### ° Samples of System Memory Combinations Options °

BANK0 SIM 1, 2	BANK1 SIM 3, 4	BANK2 SIM 5, 6	Total Memory SIM 1- 6
4MBx2	-	-	8MB
-	4MBx2	4MBx2	16MB
8MBx2	-	-	16MB
-	8MBx2	8MBx2	32MB
4MBx2	4MBx2	4MBx2	24MB
8MBx2	4MBx2	4MBx2	32MB
16MBx2	-	-	32MB
4MBx2	8MBx2	8MBx2	40MB
8MBx2	8MBx2	8MBx2	48MB
16MBx2	4MBx2	4MBx2	48MB
-	16MBx2	16MBx2	64MB
16MBx2	8MBx2	8MBx2	64MB

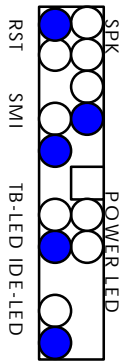
- continue -

32MBx2	-	-	64MB
4MBx2	16MBx2	16MBx2	72MB
8MBx2	16MBx2	16MBx2	80MB
32MBx2	4MBx2	4MBx2	80MB
16MBx2	16MBx2	16MBx2	96MB
32MBx2	8MBx2	8MBx2	96MB
-	32MBx2	32MBx2	128MB
64MBx2	-	-	128MB
4MBx2	32MBx2	32MBx2	136MB
-	64MBx2	64MBx2	256MB
:	:	:	:
:	:	:	:
128MBx2	128MBx2	128MBx2	768MB

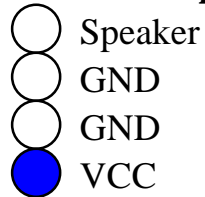
## 2-4 CONNECTORS DESCRIPTION

The locations of following connectors are indicated in page A. When you plug a cable into the following I/O connectors, you should have the pin 1 edge of the cable align with the pin 1 end of the connector.

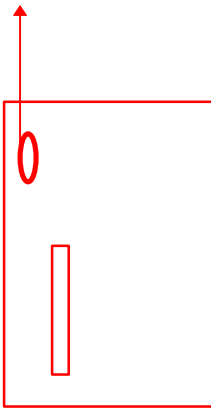
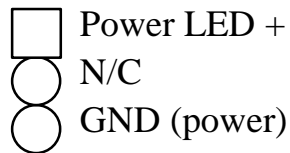
**CONN1** : speaker, keyboard lock, reset, SMI, turbo LED, and IDE LED connectors.



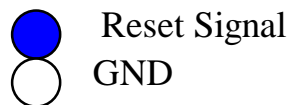
### SPK : speaker



### Power LED connector



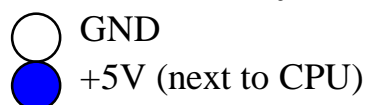
### RST : Reset connector



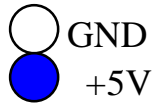
### SMI : SMI lead



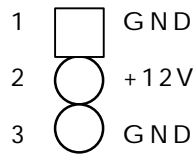
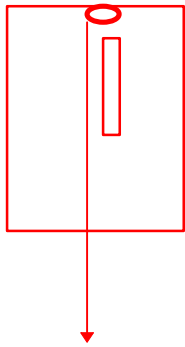
### TB-LED : Turbo LED indicator, LED on when system runs higher speed



**IDE-LED : IDE devices indicator LED**

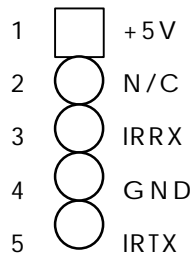


**connector.** IDE-LED stays ON indicates on-board IDE devices in operation. If plug wire into wrong connector, color of LED will be lighter and the IDE devices can still function properly.

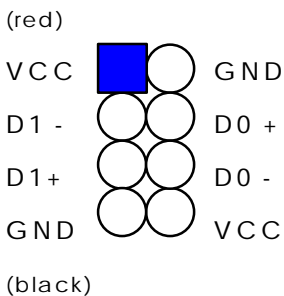
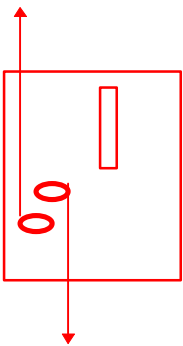


**FAN1 :** CPU cooling fan connector. Wire with +12V voltage (most likely red wire) must be plugged into pin2, and GROUND wires (most likely black wires) must be plugged into pin1 and/or pin3. Please confirm the wire color re-presentation with your supplier.

**CAUTION:** Plug wire into wrong connector will DAMAGE fan and mainboard.

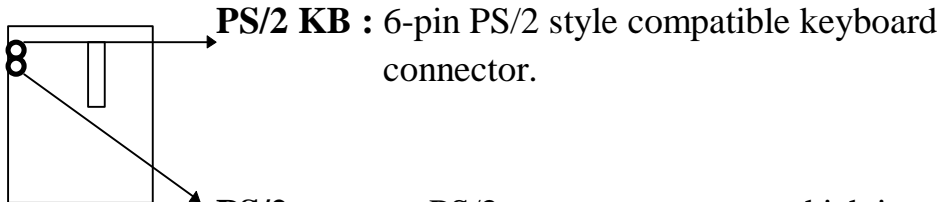


**IR1 :** Infrared module connector.



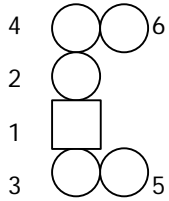
**USB1 :** USB connector; Universal Serial Bus; this is used to connect USB devices through an optional dual head cable with a iron plane.

**CAUTION:** Plug wire into wrong connector will DAMAGE USB devices and mainboard.



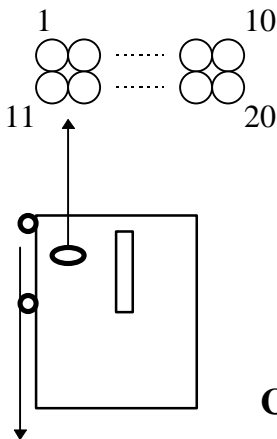
**PS/2 KB** : 6-pin PS/2 style compatible keyboard connector.

**PS/2 mouse** : PS/2 mouse connector, which is used to connect an optional cable.



- pin1 : data
- pin2 : N/C
- pin3 : GND
- pin4 : VCC
- pin5 : clock
- pin6 : N/C

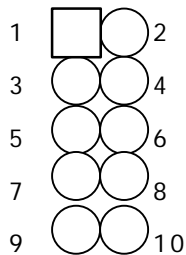
**PW1** : ATX mode +3.3/5/12V power supply connector.



1	3.3V	6	+5V	11	3.3V	16	GND
2	3.3V	7	GND	12	-12V	17	GND
3	GND	8	PWRGD	13	GND	18	-5V
4	+5V	9	5VSB	14*	PS_ON	19	+5V
5	GND	10	+12V	15	GND	20	+5V

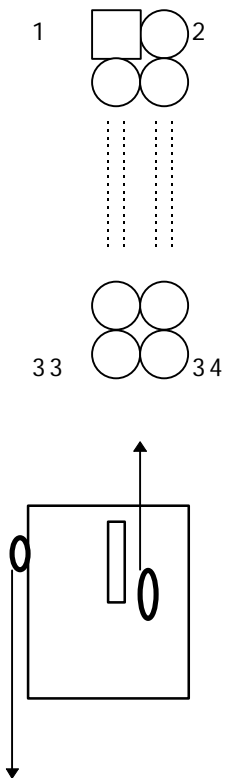
\* PS\_ON : Soft-Off power control

**COM1/COM2** : these two connectors are used to connect serial port cables.



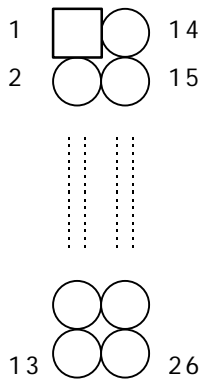
pin	signal name
1	DCD
2	Serial In
3	Serial Out
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI
10	N/C

**FDC1** : this connector is used to connect the floppy drive through a cable.



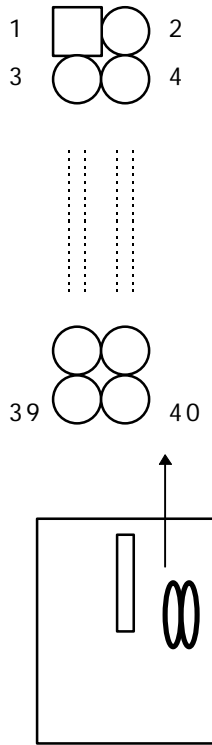
pin	signal	pin	signal
2	RWC-	20	STEP-
4	reserved	22	Write Data
6	FDEDIN	24	Write Gate
8	Index-	26	Track 00-
10	Motor EnableA-	28	Write Protect-
12	Drive Sele.B-	30	Read Data-
14	Drive Sele.A-	32	Side 1 Sele.-
16	Motor EnableB-	34	DisketteChange
18	DIR-		
All of odd pins are ground			

**LPT1** : this connector is used to connect the parallel port cable.



pin	signal	pin	signal
1	STROBE-	10	ACK-
2	Data Bit 0	11	BUSY
3	Data Bit 1	12	PE
4	Data Bit 2	13	SLCT
5	Data Bit 3	14	Auto Feed-
6	Data Bit 4	15	ERROR-
7	Data Bit 5	16	INIT-
8	Data Bit 6	17	SLCT IN-
9	Data Bit 7	26	N/C
pin18 -- pin25 are ground			

**IDE1/IDE2** : these two connectors are used to connect IDE devices through IDE cables, a total of 4 devices can be connected.



pin	signal	pin	signal
1	Reset IDE	21	DDRQ0(1)
2	GND	22	GND
3	Host Data 7	23	I/O Write-
4	Host Data 8	24	GND
5	Host Data 6	25	I/O Read-
6	Host Data 9	26	GND
7	Host Data 5	27	IORDY
8	Host Data 10	28	N/C
9	Host Data 4	29	DDAK0- (1-)
10	Host Data 11	30	GND
11	Host Data 3	31	IRQ14*
12	Host Data 12	32	IOCS16-
13	Host Data 2	33	Addr 1
14	Host Data 13	34	N/C
15	Host Data 1	35	Addr 0
16	Host Data 14	36	Addr 2
17	Host Data 0	37	ChipSele.1P-
18	Host Data 15	38	ChipSele.3P-
19	GND	39	Activity
20	Key	40	GND

\* IDE1 : pin31 is IRQ14;

IDE2 : pin31 is IRQ15 or MIRQ0

## 2-5 IDE DRIVER INSTALLATION

The IDE driver installation procedure is as following :

### Setup for DOS/Windows :

1. Starting MS-Windows 3.1 (or 3.11)
2. Select Program Manager, File/RUN, then type  
"A:\setup.exe"
3. Exit MS-Windows, turn power off; then turn power on.

### Setup for Windows 95 : (Windows 95 version 950/950a/950b)

1. Starting Windows 95
2. Select "START", "RUN".
3. Type "A:\WIN95\SETUP.EXE".
4. Restart computer, then follow the instructions on your  
screen to install new IDE driver we offer in the 3.5" diskette
5. Exit Windows 95, turn power off; then turn power on.

Make sure your HDD should follow ATA standard, and your CD-ROM should follow ATAPI standard. When you plug-in the IDE devices, please plug your first and second devices into IDE 1 port (Master then Slave), then plug third and fourth devices into IDE 2 port. If you have CD-ROM driver, please set it behind hard disk devices as the last device. For example, if you have 2 HDDs and 1 CD-ROM, you should set HDD1 and HDD2 in IDE1 Master and Slave, set CD-ROM in IDE 2 Master. Some of the brands devices combination may not work under this sequence, you can try to re-arrange the devices sequence, or contact your vendor.

Primary Master	Primary Slave	Secondary Master	Secondary Slave	
ATA				no ATAPI
ATA		ATAPI		disk & CD-ROM
ATA	ATAPI			use only one cable
ATA		ATAPI	ATAPI	CD-ROM and a tape or two CD-ROMs



# CHAPTER 3 Award BIOS SETUP

This chapter explains the system BIOS setup, and how to update to a new BIOS. All BIOS screens shown in the following pages are default values, your system dealer will set up these values according to your demand of the computer.

ATC-6100 uses Flash ROM to make the BIOS easily to be updated by the floppy disk-based program. and to meet Microsoft Windows 95 plug & play feature.

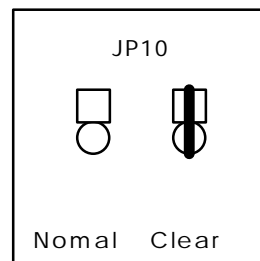
° JP10 Setting is for Update System BIOS

open	NORMAL °
close	CLEAR CMOS

° is default setting

**NOTE :**

To clear CMOS while power is on, otherwise the 'clear' will not work.



## 3-1 UPDATE BIOS PROCEDURES

If the BIOS needs to be updated, it can be obtained on a diskette from your system supplier. The BIOS diskette includes :

“awdfash.exe” -- BIOS update utility program  
“awdfash.doc”  
“(update BIOS filename with version number).rom”

The update procedure is as following:

1. Boot the system to DOS mode in a normal manner.
2. Insert the updated diskette to drive A (or B).
3. Change working directory to floppy drive, A or B, which contains the update BIOS diskette. -- Type “a:\” or “b:\”, “ENTER”.
4. Run the BIOS update utility -- Type “awdfash”, “ENTER”.
5. Type “(update BIOS file name with version number).rom”, ENTER.
6. Type “N” when the screen displays the message : " Do you want to save BIOS (Y/N) ?".
7. Type “Y“ when the screen shows the message : " Are you sure to program (Y/N) ?".
8. Follow instructions displayed on the screen. DO NOT remove the update BIOS diskette from the floppy drive nor turn the system power off until the BIOS update is completed.
9. Exit the utility and turn the system power off, set JP10 to 'close' to clear the CMOS. After about 10 seconds, set JP10 to 'open' (remove the jumper cap ) to return to normal status.
10. Turn the system power on and test that your system is working properly.

## 3-1-2 UPDATE PENTIUM II BIOS API

Intel also provides BIOS API (Applications Programming Interface) for Pentium II processor-based mainboard user to update data block in BIOS quickly and easily. (You can find this utility in the 3.5" diskette in the package).

The BIOS code on the Pentium II processor-based mainboards contains data that is specific to each silicon stepping of the processor. Integrators must ensure that this BIOS stepping data matches the processor stepping used. When the BIOS does not contain stepping data that matches the processor stepping, integrators must update the data in the BIOS before shipping the system. Historically, Pentium II systems have been updated by replacing the entire BIOS with a new revision of BIOS that contains the correct stepping data.

Intel's BIOS update API allows just the stepping data within the BIOS to be updated as needed. Mainboards that contain a BIOS with the Intel-defined BIOS update API can be quickly and easily updated, if required, without obtaining a complete BIOS upgrade. Using this utility, integrators can easily verify that the correct stepping data is present in all Pentium II processor-based mainboards. However, if the stepping data requires updating, the mainboard BIOS must contain the Intel-defined BIOS update API, otherwise a complete BIOS upgrade is required from the mainboard vendor.

You should set your diskette to "write protect, then type

```
A:\>cd api; A:\api>checkup1
```

The main menu should now be displayed, showing the following four options :

- 1) Check and load update
- 2) Specify stepping data file [current : pep.pdb]
- 3) Help
- 4) Quit without loading update

Select 1) to know the stepping filename, select 2) to load right patch code, then select 1) to update proper patch code. Now, the screen will show the message "please remove floppy diskette from floppy disk drive". Then cold boot (mechanical power off) system to continue. For more information, please refer to "CHECKUP.HLP" file.

## 3-2 AWARD SYSTEM BIOS CONFIGURATION SETUP

The following pages explain how to set up the system configuration (CMOS) under the AWARD BIOS. The SETUP program is stored in the Read-Only-Memory (ROM) on the mainboard. To do the SETUP procedure, press the <Del> key when the system is booting up. The following main menu will appear. Please select " STANDARD CMOS SETUP" to enter the next screen.

ROM PCI/ISA BIOS (2A69HA2B)  
CMOS SETUP UTILITY  
AWARD SOFTWARE, INC.

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

The section on the bottom of the main menu explains how to control this screen. The other section displays the items highlighted in the list.

**This screen records some basic hardware information, and sets the system clock and error handling. These records can be lost or corrupted if the on-board battery has failed or is weak.**

ROM PCI/ISA BIOS (2A69HA2B)  
 CMOS SETUP UTILITY  
 AWARD SOFTWARE, INC.

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

ROM PCI/ISA BIOS (2A69HA2B)  
 STANDARD CMOS SETUP  
 AWARD SOFTWARE, INC.

Date (mm:dd:yy) : Fri, Jun 14 1996								
Time(hh:mm:ss) : 13 : 37 : 14								
HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
Primary Master	: Auto	0	0	0	0	0	0	Auto
Primary Slave	: None	0	0	0	0	0	0	----
Secondary Master	: None	0	0	0	0	0	0	----
Secondary Slave	: None	0	0	0	0	0	0	----
Drive A : 1.44M, 3.5 in.				Base Memory : 640K				
Drive B : None				Extended memory : 7168K				
Video : EGA/VGA				Other Memory : 384K				
Halt On: All Errors				-----				
				Total Memory : 8192K				
ESC	: Quit	↑↓→←:Select Item			PU/PD/+/- : Modify			
F1	: Help	(Shift) F2 : Change Color						

Date

mm is month, dd is date, yy is year.

date	from 1 to 31
month	from Jan. to Dec.
year	from 1900 to 2099

Time

hh is hour, mm is minute, ss is second.

hh	from 0 to 23 (24-hour military -time)
mm	from 0 to 59
ss	from 0 to 59

Primary Master

Primary Slave

Secondary Master

Secondary Slave

These categories identify the types of the 2 channels that have been installed in the computer. There are 45 predefined types and 4 user definable types are for Enhanced IDE BIOS. Type 1 to 45 are predefined. Type **'user'** is user-definable. Press PgUp/PgDn to select a numbered hard disk type or type the number and press<Enter>. If you select **'Auto'** the BIOS will auto-detect the HDD & CD-ROM Drive at the POST stage and show the IDE for HDD & CD-ROM Drive. If you select **'user'**, you will need to know the information listed below. Enter the information directly from the keyboard and press <Enter>. This information should be from your hard disk vender or dealer. If the controller of the HDD interface is ESDI, the selection shall be **'Type1'**; if SCSI, the selection shall be **'None'**. If no device is installed select **'NONE'** and press <Enter>.

Type	drive type
SIZE	automatically adjusts
CYLS	number of cylinders
HEAD	number of heads
PRECOMP	write precom
LANDZ	landing zone
SECTOR	number of sectors
MODE	mode type

**Drive A**

**Drive B**

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

None	No floppy drive installed
360K, 5.25 in	5.25“ PC-type 360KB capacity
1.2M, 5.25 in	5.25“ AT-type 1.2MB capacity
720K, 3.5 in	3.5“ double-side 720KB capacity
1.44M, 3.5 in	3.5“ double-side 1.44MB capacity
2.88M, 3.5 in	3.5“ double-side 2.88MB capacity

**Video**

This category selects the type of video adapter used for the primary system monitor. Although secondary monitors are supported, you do not have to select the type in Setup.

**Halt On**

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

No errors	When the BIOS detects a non-fatal error the system will be stopped and you will be prompted
All errors	The system boot will not be stopped for any error that may be detected
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 disk or keyboard error, it will stop for all other errors

**Memory**

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

**Base Memory** The value of the base memory is typically 512K or 640K based on the memory installed on the mainboard.

**Extended Memory** How much extended

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

**Other Memory** This refers to the memory located in the 640K to 1024K address space. The BIOS is the most frequent user of this RAM area since this is where it shadows RAM.



**This screen is a list of system configuration options. Some of them are defaults required by the mainboard's design, others depend on the features of your system.**

ROM PCI/ISA BIOS (2A69HA2B)

CMOS SETUP UTILITY

AWARD SOFTWARE, INC.

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

ROM PCI/ISA BIOS (2A69HA2B)

BIOS FEATURES SETUP

AWARD SOFTWARE, INC.

Virus Warning	: Disabled	Video BIOS Shadow	: Enabled
CPU Internal Cache	: Enabled	C8000-CBFFF Shadow	: Disabled
External Cache	: Enabled	CC000-CFFFF Shadow	: Disabled
Quick Power On Self Test	: Disabled	D0000-D3FFF Shadow	: Disabled
Boot Sequence	: A,C,SCSI	D4000-D7FFF Shadow	: Disabled
Swap Floppy Drive	: Disabled	D8000-DBFFF Shadow	: Disabled
Boot Up Floppy Seek	: Enabled	DC000-DFFFF Shadow	: Disabled
Boot Up NumLock Status	: On		
Boot Up System Speed	: High		
Gate A20 Option	: Fast		
Typematic Rate Setting	: Disabled		
Typematic Rate(Chars/Sec)	: 6	Esc : Quit	↑↓→←:Select Item
Typematic Delay(Msec)	: 250	F1 : Help	PU/PD/+/- : Modify
Security Option	: Setup	F5 : Old Values (SHIFT)	F2 : Color
PCI/VGA Palette Snoop	: Disabled	F6 : Load BIOS Defaults	
OS/2 select for DRAM>64MB	: Non-OS2	F7 : Load Setup Defaults	
Report No FDD for WIN 95	: No		

**Virus Warning**

When this item is enabled, the BIOS will monitor the boot sector and partition table of the hard disk drive for any attempt at modification. If an attempt is made, the BIOS will halt the system and the following error message will appear. Many disk diagnostic programs which attempt to access the boot sector table can cause the above warning message. If you will be running such a program, we recommend that you first disable Virus Protection beforehand.

<p><b>! WARNING !</b></p> <p>Disk boot sector is to be modified Type 'Y' to accept write or 'N' to abort write Award Software, Inc.</p>
---

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

**Quick Power On Self Test**

This category speeds up Power On Self Test after you power up the computer. If you set Enabled, BIOS will shorten or skip some checked items during POST.

**Boot Sequence**

This category determines which drive to search first for the disk operating system (i.e.,DOS). Choices are A,C, SCSI; C, A, SCSI; C, CDROM, A; CDROM, C, A; D, A, SCSI; E, A, SCSI; F, A, SCSI; SCSI, A, C; SCSI, C, A; and C only.

For example :

CDROM,C, A	System will first search for CDROM then HDD, and next is FDD
C,CDROM, A	System will first search for HDD then CDROM, and next is FDD

C is primary master; D is primary slave; E is secondary master,F is secondary slave

**Swap Floppy Drive**

This item allows you to determine whether to enable the swap floppy drive or not.

**Boot Up Floppy Seek**

During POST, the BIOS will determine if the floppy disk drive installed is 40 tracks (360K) or 80 tracks (720K, 1.2M, 1.44M)

Enabled	BIOS searches for floppy disk drive to determine if it is 40 or 80 tracks
Disabled	BIOS will not search for the type of floppy disk drive by track number

**Boot Up NumLock Status**

This allows you to determine the default state of the numeric keypad. By default, the system boots up with NumLock on.

**Boot Up System Speed**

Selects the default system speed - the normal operating speed at power up.

**Gate A20 Option**

This entry allows you to select how the gate A20 is handled. The gate A20 is a device used to address memory above 1 MB. Normal is keyboard; Fast is chipset.

**Typematic Rate Setting**

This determines if the typematic rate is to be used. When disabled, continually holding down a key on your keyboard will generate only one key instance.

**Typematic Rate (Chars/Sec)**

When the typematic rate is enabled, this section allows you select the rate at which the keys are repeated.

6	6 characters per second
8	8 characters per second
10	10 characters per second
12	12 characters per second
15	15 characters per second
20	20 characters per second
24	24 characters per second
30	30 characters per second

**Typematic Delay (Msec)**

When the typematic rate is enabled, this section allows you select the delay between when the key was first depressed and when the acceleration begins.

250	250 msec
500	500 msec
750	750 msec
1000	1000 msec

**Security Option**

This category allows you to limit access to the system and Setup, or just to Setup

System	The system will not boot and access to Setup 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 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 freely.

**PCI/VGA**  
**Palette Snoop**

It determines whether the MPEG ISA/VESA VGA cards can work with PCI/VGA or not.

Enabled	When PCI/VGA working with MPEG ISA/VESA VGA Card
Disabled	When PCI/VGA not working with MPEG ISA/VESA VGA Card

**OS Select for**  
**DRAM > 64MB**

This item allows you to access the memory that is over 64MB in OS/2

**Video BIOS**  
**Shadow**

Determines whether video BIOS will be copied to RAM. However it is optional depending on chipset design. Video Shadow will increase the video speed.

**C8000 - CBFFF**  
**Shadow**  
**DC000 - DFFFF**  
**Shadow**

These categories determine whether option ROMs will be copied to RAM. An example of such option ROM would be the support of onboard SCSI.

**Report No FDD**  
**For WIN 95**

For Windows 3.1x users set 'NO' (default); for Windows 95 users set 'NO' or 'YES'.

**This screen controls the setting for the chipset on the mainboard.**

ROM PCI/ISA BIOS (2A69HA2B)

CMOS SETUP UTILITY

AWARD SOFTWARE, INC.

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

ROM PCI/ISA BIOS (2A69HA2B)

CHIPSET FEATURES SETUP

AWARD SOFTWARE, INC.

Auto Configuration	: Enabled	8-bit I/O Recovery Time	: 3
DRAM Speed Selection	: 70 ns	16-bit I/O Recovery Time	: 2
DRAM RAS# Precharge Time	: 4	Memory Hole At 15M-16M	: Disabled
MA Additional Wait State	: Disabled	DRAM Fast Leadoff	: Disabled
RAS# To CAS# Delay	: Enabled	Passive Release	: Enabled
DRAM Read Burst (B/E/F)	: x2/3/4/	Delayed Transaction	: Disabled
DRAM Write Burst (B/E/F)	: x3/3/3		
ISA BusClock	: PCICLK/4		
DRAM Refresh Queue	: Disabled		
DRAM RAS Only Refresh	: Enabled		
DRAM ECC/PARITY Select	: Disabled		
Fast DRAM Refresh	: Disabled		
Read-Around-Write	: Disabled		
PCI Burst Write Combine	: Disabled		
PCI-to-DRAM Pipeline	: Disabled	Esc: Quit	:Select Item
CPU-to-PCI Write Post	: Disabled	F1 : Help	PU/PD/+/-:Modify
CPU-to-PCI IDE Posting	: Disabled	F5 : Old Values	(Shift)F2 :Color
System BIOS Cacheable	: Disabled	F6 :Load BIOS Defaults	
Video RAM Cacheable	: Disabled		

**Auto  
Configuration**

Pre-defined values for DRAM, cache... timing according to CPU type & system clock. When this item is enabled, the pre-defined items will become SHOW-ONLY.

**DRAM Speed  
Selection**

The DRAM speed is controlled by the DRAM timing Registers. The timings programmed into this register are dependent on the system design.

**DRAM RAS#  
Precharge Time**

DRAM must continually be refreshed or it will lose its data. Normally, DRAM is refreshed entirely as the result of a single request. This option allows you to determine the number of CPU clocks allocated for the Row Address Strobe to accumulate its charge before the DRAM is refreshed. If insufficient time is allowed, refresh may be incomplete and data lost.

**RAS# to  
CAS# Delay**

When DRAM is refreshed, both rows and columns are addressed separately. This setup item allows you to determine the timing of the transition from RAS to Column Address Strobe (CAS).

**DRAM Read  
Burst (B/E/F)  
DRAM Write  
Burst (B/E/F)**

This sets the timing for burst mode read (or writes) from DRAM. Burst read and write requests are generated by the CPU in four separate parts. The first part provides the location within the DRAM where the read or write is to take place while the remaining three parts provide the actual data. The lower the timing numbers, the faster the system will address memory.

**ISA Bus Clock**

This item allows you to select the PCI clock type. Choices are PCI CLK/3; PCI CLK/4

**System BIOS  
Cacheable**

When enabled, accesses to the system BIOS ROM addressed at F0000H-FFFFFFH are cached, provided that the cache controller is enabled.

**Video BIOS**  
**Cacheable**

As with changing the system BIOS above, enabling the Video BIOS cache will cause access to video BIOS addressed at C0000H to C7FFFH to be cached, if the cache controller is also enabled.

**8 Bit I/O**  
**Recovery Time**

The recovery time is the length of time, measured in CPU clocks, which the system will be delay after the completion of an I/O request. This item allows you to determine the recovery time allowed for 8-bit I/O. Choices are from NA, 1 to 8 CPU clocks.

**16 Bit I/O**  
**Recovery Time**

This item allows you to determine the recovery time allowed for 16-bit I/O. Choices are from NA, 1 to 4 CPU clocks.

**Memory Hole At**  
**15M-16M**

In order to improve performance, certain space in memory can be reserved for ISA cards. This memory must be mapped into the memory below 16MB.

**DRAM ECC/**  
**Parity Select**

During CPU reads of the DRAM, the 430HX provides error checking and correction or parity of the data.



**This screen controls the 'green' features of this mainboard.**

ROM PCI/ISA BIOS (2A69HA2B)

CMOS SETUP UTILITY

AWARD SOFTWARE, INC.

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

ROM PCI/ISA BIOS (2A69HA2B)

POWER MANAGEMENT SETUP

AWARD SOFTWARE, INC.

Power Management	: UserDefined	*Power Down & Resume Events*
PM Control by APM	: Yes	IRQ3 (COM 2) : OFF
Video Off Method	: V/H SYNC	IRQ4 (COM 1) : OFF
	+Blank	IRQ5 (LPT 2) : OFF
Modem Use IRQ	: 3	IRQ6 (Floppy Disk) : OFF
		IRQ7 (LPT 1) : OFF
Doze Mode	: Disabled	IRQ8 (RTC Alarm) : OFF
Standby Mode	: Disabled	IRQ9 (IRQ2 Redir) : OFF
Suspend Mode	: Disabled	IRQ10 (Reserved) : OFF
HDD Power Down	: Disabled	IRQ11 (Reserved) : OFF
		IRQ12 (PS/2 Mouse) : OFF
		IRQ13 (Coprocessor) : OFF
*Wake Up Events In Doze & Standby*		IRQ14 (Hard Disk) : OFF
IRQ3 (Wake-Up Event)	: OFF	IRQ15 (Reserved) : OFF
IRQ4 (Wake-Up Event)	: OFF	Esc: Quit ↑↓→← :Select Item
IRQ8 (Wake-Up Event)	: OFF	F1 : Help PU/PD/+/- : Modify
IRQ12 (Wake-Up Event)	: OFF	F5 : Old Values (Shift) F2: Color
		F6 : Load BIOS Defaults

**Power Management**

This category allows you to select the type (or degree) of power saving and is directly related to the following modes : **Doze; Standby; Suspend; HDD Power Down.**

Disabled	No power management. Disables all 4 modes
Min. Power Saving	Minimum power management. Doze=1hr.; Standby=1hr.; Suspend=1hr.; HDD Power Down=15min
Max. Power Saving	Maximum power management only available for <b>SL CPU's</b> .Doze=1min.; Standby=1min.;Suspend=1min.;HDD Power Down=1min
User Defined	Allows you to set each mode individually. When not disabled, each of the ranges are from 1min. to 1hr. exect for HDD Power Down which ranges from 1 to 15min. and disable

**If you would like to use Software Power-off Control function, you cannot choose “Disabled ”here, and should select “Yes” in PM Control by APM.**

**PM Control by APM**

When enabled, an Advanced Power Management device will be activated to enhance the Max. Power Saving Mode and stop the CPU internal clock. If the Max. Power Saving is not enabled, this will be shown as NO.

**Video Off Method**

This determines the manner in which the monitor is blanked.

V/H SYNC + Blank	This selection will cause the system to turn off the vertical and horizontal sync. ports and write blanks to the video buffer
Blank Screen	This option only writes blanks to the video buffer
DPMS	Initial display power management signaling

*The Following 4 modes are Green PC power saving function which are only user configurable when 'User Defined' power management has been selected.*

**Doze Mode** When enabled and after the set time of system inactivity, the CPU clock will run at slower speed while all other devices still operate at full speed

**Standby Mode** When enabled and after the set time of system inactivity, the fixed disk drive and the video would be shut off while all other devices still operate at full speed

**Suspend Mode** When enabled and after the set time of system inactivity, all devices except the CPU will be shut off

**HDD Power Down** When enabled and after the set time of system inactivity, the hard disk drive will be powered down while all other devices remain active

**Wake Up Events**  
**In Doze & Standby**

**Power Down & Resume Events**  
**IRQ3 ~ IRQ15**

These are I/O events whose occurrence can prevent the system from entering a power saving mode or can awaken the system from such a mode. In effect, the system remains alert for anything which occurs on a device which is configured as **On**, even when the system is in a powered down mode. When an I/O device wants to gain the attention of the operating system, it signals this by causing an IRQ (Interrupt ReQuests) to occur. When the operating system is ready to respond to the request, it interrupts itself and performs the service. When set to off, activity will neither prevent the system from going into a power management mode nor awaken it.

**This screen configures the PCI Bus slots.**

ROM PCI/ISA BIOS (2A69HA2B)  
 CMOS SETUP UTILITY  
 AWARD SOFTWARE, INC.

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

ROM PCI/ISA BIOS (2A69HA2B)  
 PNP/PCI CONFIGURATION  
 AWARD SOFTWARE, INC.

Resources Controlled by : Auto	PCI IRQ Activated by : Level
Reset Configuration Data : Disabled	PCI IDE IRQ Map to : PCI-AUTO
	Primary IDE INT# : A
	Secondary IDE INT# : B
Esc: Quit    ↑↓→← :Select Item	
F1 : Help        PU/PD/+/- : Modify	
F5 : Old Values    (Shift) F2: Color	
F6 : Load BIOS Defaults	

**Resource**  
**Controlled by**

The Award Plug and Play BIOS has the capability to automatically configure all of the boot and Plug and Play compatible devices. However, this capability means absolutely nothing unless you are using a Plug and Play OS such as Windows 95  
Choices are Auto and Manual

**Reset Config-  
uration Data**

This item allows you to determine whether to reset the configuration data or not.

**PCI IRQ**  
**Activated By**

This sets the method by which the PCI bus recognizes that an IRQ service is being requested by a device. Under all circumstances, you should retain the default configuration unless advised otherwise by your system's manufacturer.  
Choices are Level and Edge.

**PCI IDE IRQ**  
**Map To**

This allows you to configure your system to the type of IDE disk controller in use. If you have equipped your system with a PCI controller, changing this allows you to specify which slot holds the controller and which PCI interrupt (A,B,C,D) is associated with the connected hard disk. Select 'PCI Auto' allows the system to automatically determine how your IDE disk system is configured.

**This section page includes all the items of IDE hard drive and Programmed Input/Output features. See also Section “Chipset Features Setup”.**

ROM PCI/ISA BIOS (2A69HA2B)  
 CMOS SETUP UTILITY  
 AWARD SOFTWARE, INC.

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

ROM PCI/ISA BIOS (2A69HA2B)  
 INTEGRATED PERIPHERALS  
 AWARD SOFTWARE, INC.

IDE HDD Block Mode : Enabled	USB Controller : Disabled
IDE Primary Master PIO : Auto	
IDE Primary Slave PIO : Auto	
IDE Secondary Master PIO : Auto	
IDE Secondary Slave PIO : Auto	
On-Chip Primary PCI IDE : Enabled	
On-Chip Secondary PCI IDE : Enabled	
PCI Slot IDE 2nd Channel : Enabled	
Onboard FDD Controller : Enabled	
Onboard Serial Port 1 : Auto	
Onboard Serial Port 2 : Auto	Esc: Quit ↑↓→← :Select Item
UART 2 Mode : Standard	F1 : Help PU/PD/+/- : Modify
Onboard Parallel Port : 378H/IRQ7	F5 : Old Values (Shift) F2: Color
Onboard Parallel Mode : ECP	F6 : Load BIOS Defaults
ECP Mode Use DMA : 3	

**IDE HDD Block Mode**

This allows your HD controller to use the fast block mode to transfer data to and from your HD drive

Enabled	IDE controller uses block mode
Disabled	IDE controller uses standard mode

**PCI Slot IDE 2nd Channel**

This item allows you designate an IDE controller board inserted into one of the physical PCI slots as your secondary IDE

Enabled	External IDE controller designated as the secondary controller
Disabled	No IDE controller occupying a PCI slot

**On-Chip Primary PCI IDE**  
**On-Chip Secondary PCI IDE**

This setup item allows you to either enable or disable the primary/secondary controller. You might choose to disable the controller if you were to add a higher performance or specialized controller.

**IDE Primary Master/Slave PIO**  
**IDE Secondary Master/Slave PIO**

PIO - Programmed Input/Output, it allows the BIOS to tell the controller what it wants and then let the controller and the CPU to complete the task by themselves. This is simpler and more faster. Your system supports five mods, 0 - 4, which primarily differ in timing. When **Auto** is selected, the BIOS will select the best available mode.

**UART 2 Mode**

This lets you select the Infrared mode. Choices are Standard, HPIR, and ASKIR. If you choose HPIR or ASKIR mode, the screen will show another two lines to let you choose 'IR Function Duplex' (Full or Half) and 'RxD TxD Active' (Hi Lo; Lo Hi; Hi Hi; Lo Lo).

ROM PCI/ISA BIOS (2A69HA2B)  
 CMOS SETUP UTILITY  
 AWARD SOFTWARE, INC.

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

ROM PCI/ISA BIOS (2A69HA2B)  
 CMOS SETUP UTILITY  
 AWARD SOFTWARE, INC.

Hard Disks	Type	Size	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
Primary Mster :								
Select Primary Master Option (N=Skip) : N								
Options	Size	CYLS	Head	PRECOMP	LANDZ	Sector	Mode	
2(Y)	1337	648	64	0	2594	63	LBA	
1	1339	2595	16	65535	2594	63	NORMAL	
3	1338	1297	32	65535	2594	63	LARGE	
Note : Some OS (like SCO-UNIX) must use "Normal" for installation ESC : Skip								



The last step is 'save and exit'. If you select this item and press 'Y', then these records will be saved in the CMOS memory on the mainboard. It will be checked every time you turn your computer on.

ROM PCI/ISA BIOS (2A69HA2B)

CMOS SETUP UTILITY

AWARD SOFTWARE, INC.

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

ROM PCI/ISA BIOS (2A69HA2B)

STANDARD CMOS SETUP

AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	INTEGRATED PERIPHERALS
BIOS FEATURES SETUP	PASSWORD SETTING
CHIPSET FEATURES SETUP	IDE HDD AUTO DETECTION
POWER MANAGEMENT SETUP	SAVE & EXIT SETUP
PNP/PCI CONFIGURATION	EXIT WITHOUT SAVING
LOAD BIOS DEFAULTS	SAVE to CMOS and EXIT (Y/N):Y
<div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto;"></div>	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Save Data to CMOS & Exit SETUP	

## **LOAD BIOS DEFAULTS**

When your mainboard has problems and need to troubleshoot the system, you can use this function. The default values loaded only affect the BIOS Features Setup, Chipset Features Setup, Power Management Setup and PNP/PCI Configuration Setup. There is no effect on the Standard CMOS Setup. To use this function, select it from main menu and press <Enter>. A line will appear on the screen asking if you want to load the BIOS default values. Press <Yes> and <Enter> then the BIOS default values will be loaded.

## **LOAD SETUP DEFAULTS**

This allows you to load optimal settings which are stored in the BIOS ROM. The default values loaded only affect the BIOS Features Setup, Chipset Features Setup, Power Management Setup and PNP/PCI Configuration Setup. There is no effect on the Standard CMOS Setup. To use this function, select it from main menu and press <Enter>. A line will appear on the screen asking if you want to load the Setup default values. Press <Yes> and <Enter> then the Setup default values will be loaded.

## **SUPERVISOR PASSWORD / USER PASSWORD**

This allows you to set the password. The mainboard defaults with password disabled.

**Enter/Change password :** Enter the current password, at the prompt, key-in your new password (up to eight alphanumeric characters), press <Enter>. At the next prompt, confirm the new password by typing it again and press <Enter>.

**Disable password :** Press the <Enter> key instead of entering a new password when the 'Enter Password' dialog box appears. A message will appear confirming that the password is disabled.

If you set both supervisor and user passwords, only the supervisor password allows you to enter the BIOS SETUP program.

**CAUTION** :If you forgot your password, you must disable the CMOS by turning power off and set JP10 to ‘close’. And then open reload the system.

### **IDE HDD AUTO DETECTION**

This allows you to detect the IDE hard disk drivers‘ parameters and enter them into ‘Standard CMOS Setup’ automatically.

If the auto-detected parameters displayed do not match the ones that should be used for your hard drive, do not accept them. Press <N> to reject the values and enter the correct ones manually on the Standard CMOS Setup screen.

### **SAVE & EXIT SETUP**

This allows you to save the new setting values in the CMOS memory and continue with the booting process. Select what you want to do, press <Enter>.

### **EXIT WITHOUT SAVING**

This allows you to exit the BIOS setup utility without recording any new values or changing old ones.

## ° Control Key Description °

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	Esc	Main Menu : Quit and not save changes 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	Help	General help
F2 KEY	↵ Shift + F2	Change color from total 16 colors
F5 KEY	Old Value	Restore the pervious CMOS value from CMOS
F6 KEY	Load BIOS default	Load the default CMOS value from BIOS default table
F7 KEY	Load setup default	Load Setup default
F10 KEY	Save & Exit Setup	Save all the CMOS changes and Exit setup, only for Main Menu

**APPENDIX A**

**TECHNICAL SUPPORT REQUEST FORM**

If the mainboard doesn't function properly, please complete the following information and return it to your system dealer. If the further information is needed, please attach it.

Model No : ATC-6100      Date of Purchase : \_\_\_\_\_

Serial No : \_\_\_\_\_

**HARDWARE :**

	BRAND	MODEL	SPEED	Q'TY
SIM Module				

CPU SPEED : \_\_\_\_\_ MHz

DRAM : \_\_\_\_\_ MB ( \_\_ EDO, \_\_ FastPage, \_\_ ECC)

Hard Disk Interface Controller : \_\_\_\_\_ IDE, \_\_\_\_\_ SCSI

Hard Disk Brand : \_\_\_\_\_, Model : \_\_\_\_\_, Capacity : \_\_\_\_\_

Display Controller Brand : \_\_\_\_\_, Model : \_\_\_\_\_

Controller Chip Brand : \_\_\_\_\_, Model : \_\_\_\_\_

**SOFTWARE:**

AWARD SYSTEM BIOS: Version \_\_\_\_\_ Date Code \_\_\_\_\_

Keyboard BIOS: Brand \_\_\_\_\_

**Other Add-on Cards Information:**

Add-on Card	Bus Interface	Model	Remark

Error Description :	
---------------------	--