

Table of Contents

JUMPER & CONNECTOR LOCATION DIAGRAM.....	A
CHAPTER 1 INTRODUCTION.....	2
1-1 SYSTEM FEATURES.....	3
1-2 CHECK LIST OF THE PACKING.....	4
CHAPTER 2 INSTALLATION.....	5
2-1 INSTALLATION PROCEDURES	5
2-2 CPU INSTALLATION.....	6
2-3 SYSTEM MEMORY INSTALLATION.....	11
2-4 SRAM INSTALLATION.....	13
2-5 OTHER JUMPERS AND CONNECTORS DESCRIPTION	14
2-6 IDE DRIVER INSTALLATION.....	19
CHAPTER 3 AWARD BIOS SETUP.....	20
3-1 UPDATE BIOS PROCEDURES.....	21
3-2 AWARD SYSTEM BIOS CONFIGURATION SETUP.....	22
APPENDIX A	46

CHAPTER 1 INTRODUCTION

This manual introduces how to configure the ATC-2000 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 which contain layout diagram of the mainboard. Please refer it when you configure the system.

PART TWO includes three chapters as following:

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

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

Chapter 3 is the user's guide of AWARD BIOS setup utility, and Flash ROM BIOS update procedure. The menu showed in this chapter are default settings.

Your system dealer will set up the mainboard according to your demand of computer. It means that the current settings of your mainboard's current setting 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 firstly, be sure this will not against your system warranty. Or ask for your dealer to do it for you.


REMARK















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1-1 SYSTEM FEATURES

 P54C, P55C Pentium level CPU operating at 75 MHz to 200MHz with 321-pin ZIF socket 7 and scalability to accept processor in the future.

-  INTEL 82430HX PCIset.
-  Using four 72-pin SIM sockets, provides two banks of 64-bit wide path up to 256MB addressing page mode DRAMs.
-  Supporting all types of DRAM included ECC (Error Checking and Correcting) or parity, EDO (Extended Data Out), BEDO (Burst EDO), or FPM (Fast Page Mode).
-  Supporting four PCI bus master revision 2.1, 5V interface compliance and four 16-bit ISA slots.
-  Dual Master IDE connectors support up to four devices in two channels for connection of high capacity hard disk drive, CD-ROM drive, tape backup etc..
-  Supporting the USB (Universal Serial Bus) connector.
-  "True" Green power management for CPU stop clock state.
-  AT style keyboard connector and PS/2 mouse connector.
-  Winbond 83877 high-speed Multi-I/O chipset:
-  Supporting 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 220mm x 280mm (8.66" x 11.02") with four layers designed.

1-2 CHECK LIST OF THE PACKING

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

Each mainboard containing:

<u>Q'TY</u>	<u>Description</u>
1	Mainboard : ATC-2000.
1	Diskette : Enhanced IDE driver (3.5").
1	Cable : Enhanced IDE connector.
1	Cable : F.D.D. connector.
1	Cable : Serial port.
1	Cable : Serial/Parallel.
1	Manual : User`s manual.

NOTE : Leave the mainboard in its original packing 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 disk drive, keyboard, CD-ROM drive; and accessories such as cables. Then, install the system as following .

1. Plug CPU (w/ heat sink and cooling fan), DRAM modules in the mainboard.
2. Set jumpers based on your configuration.
3. Plug add-on cards in PCI or 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 peripheral, 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-2000 supports P54C and P55C types of CPUs up to 200MHz. For installation, please notice CPU pin 1 must align with the ZIF socket 7 Pin 1 location.

In the 2-2-1 describes the jumper setting for each brand of CPU. If your CPU is not in the list of 2-2-1, please refer to 2-2-2 and 2-2-3 for installation.

2-2-1 CPU TYPE SELECTION

A. INTEL PENTIUM CPU (P54C)

JP10JP11

1-21-2

CPU Core Voltage VRE 1/2

JP91-23-4

Intel Pentium CPU,
the first letter after
1/2 denotes voltage
type.

XXXXXXXXXX
XXXXXXXXXX
XXXXXXXXXX
Sxxxx/SMU

STD is 1 standard 1
(The fourth line of the mark on the under-side
of the processor contains a code that identifies
the voltage level type. V is VRE, S is standard.)

INTERNAL CPU CLOCK	JP1	JP2	JP3	JP4	Ext.x Frq.
75MHz	close	close	1-2	1-2	50x1.5
90MHz	open	close	1-2	1-2	60x1.5
100MHz	close	open	1-2	1-2	66x1.5
120MHz	open	close	2-3	1-2	60x2.0
133MHz	close	open	2-3	1-2	66x2.0
150MHz	open	close	2-3	2-3	60x2.5
166MHz	close	open	2-3	2-3	66x2.5
180MHz	open	close	1-2	2-3	60x3.0
200MHz	close	open	1-2	2-3	66x3.0

B. INTEL PENTIUM CPU (P55C)

Besides CPU clock setting, for P55C (MMX) CPU you have to set JP10/JP11 based on its CPU I/O voltage type, and JP9 based on its core voltage.

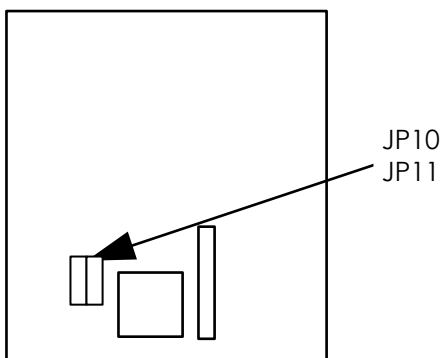
CPU Core Voltage **2.8V***

JP97-8

*Currently, Intel P55C is released 2.8V core voltage only.
Please confirm this with your system supplier before you install P55C CPU.

I/O VOLTAGE	JP10	JP11
VI/O = 3.3V	2-3	2-3

INTERNAL CPU CLOCK	JP7	JP8	JP3	JP4	Ext.x Frq.
166MHz	close	open	2-3	2-3	66x2.5
180MHz	open	close	1-2	2-3	60x3.0
200MHz	close	open	1-2	2-3	66x3.0



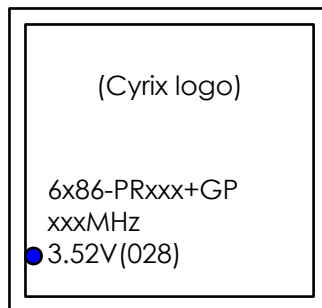
C. Cyrix 6x86 CPU

i Cyrix 6x86

JP9JP10JP11

1-21-21-2

INTERNAL CPU CLOCK	JP7	JP8	JP3	JP4	Ext.x Frq.
PR120+ @ 100MHz	close	close	2-3	1-2	50x2.0
PR150+ @ 120MHz	open	close	2-3	1-2	60x2.0
PR166+ @ 133MHz	close	open	2-3	1-2	66x2.0

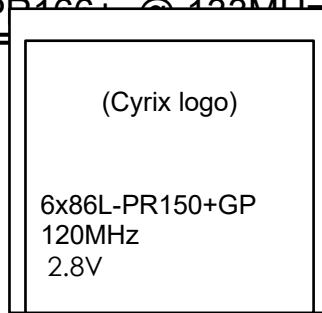


The bottom line of the mark on the processor contains a code 028 that identifies the voltage level type. If the code is 016 or others, or no marking then please contact your dealer.

i Cyrix 6x86L CPU

CPU	JP9	JP10	JP11
Cyrix 6x86L	7-8	2-3	2-3

INTERNAL CPU CLOCK	JP7	JP8	JP3	JP4	Ext.x Frq.
PR120+ @ 100MHz	close	close	2-3	1-2	50x2.0
PR133+ @ 110MHz	open	open	2-3	1-2	55x2.0
PR150+ @ 120MHz	open	close	2-3	1-2	60x2.0
PR166+ @ 133MHz	close	open	2-3	1-2	66x2.0



The mark on the processor contains as the sample in the left. The code-name 6x86L is dual voltage mode processor.

D. AMD-K5 CPU



JP9JP10JP11

1-21-21-2

INTERNAL CPU CLOCK	JP7	JP8	JP3	JP4	Ext.x Frq.
--------------------	-----	-----	-----	-----	------------

PR75ABR 75MHz

close	close	1-2	1-2	50x1.5	
-------	-------	-----	-----	--------	--

PR90ABQ 90MHz

open	close	1-2	1-2	60x1.5	
------	-------	-----	-----	--------	--

PR100ABQ 100MHz

close	open	1-2	1-2	66x1.5	
-------	------	-----	-----	--------	--

PR120ABQ 90MHz

open	close	1-2	1-2	60x1.5	
------	-------	-----	-----	--------	--

PR133ABQ 100MHz

close	open	1-2	1-2	66x1.5	
-------	------	-----	-----	--------	--

PR166ABQ

close	open	2-3	2-3	66x2.5	
-------	------	-----	-----	--------	--

E. AMD-K6 CPU

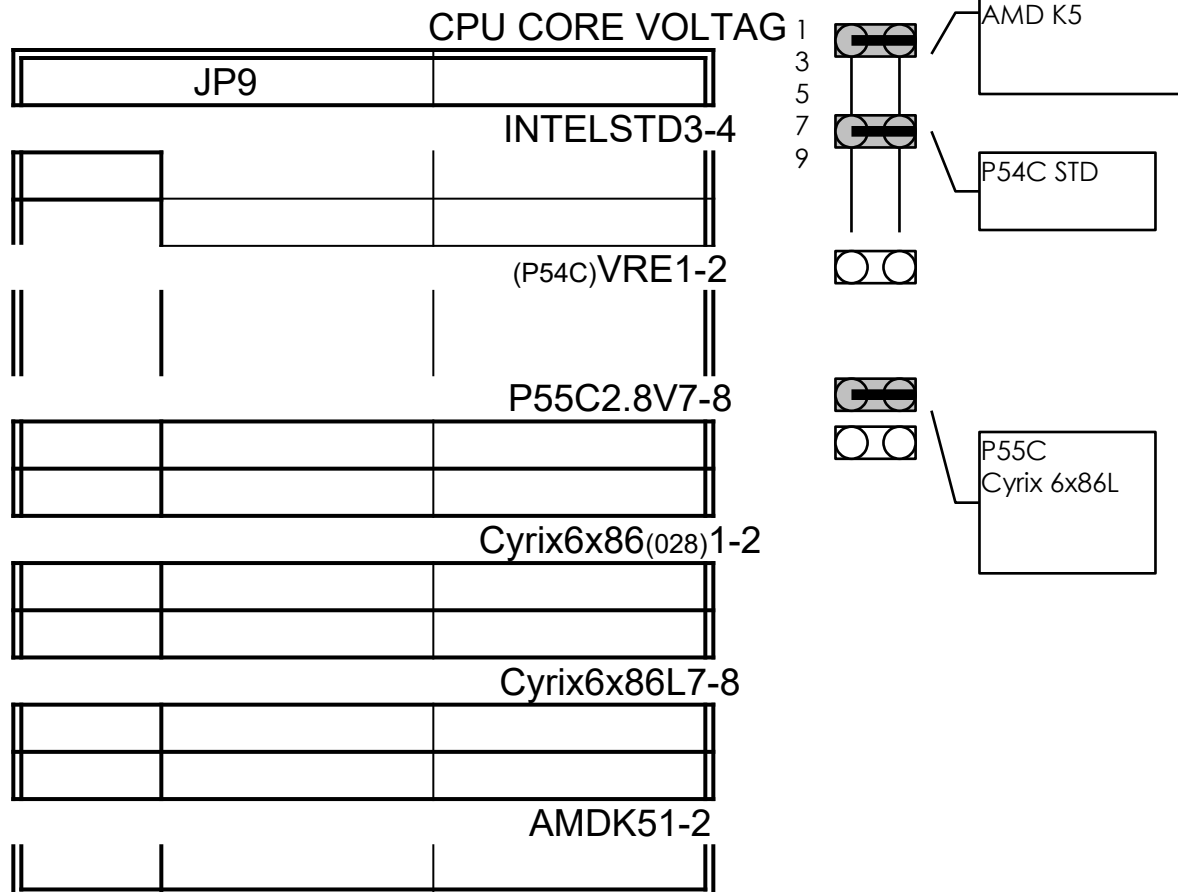
JP9JP10JP11

5-62-32-3

INTERNAL CPU CLOCK	JP7	JP8	JP3	JP4	Ext.x Frq.
PR166					
close	open	2-3	2-3	66x2.5	
PR200					
close	open	1-2	2-3	66x3.0	

2-2-2 CPU VOLTAGE SETTING

JP9 is used to various CPU core voltage types.



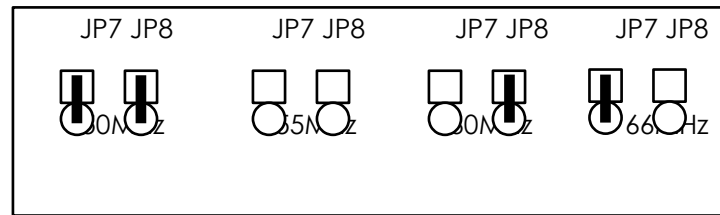


2-2-3 CPU CLOCK SETTING

The following setting is for CPU speed released later than 2-1-1.

EXTERNAL CPU CLOCK	JP7	JP8
50(MHz)	close	close
55(MHz)	open	open
60(MHz)	open	close
66(MHz)	close	open

External
CPU Clock :



INTERNAL CPU CLOCK	JP3	JP4
INTEL EXTERNAL CLOCK X 1.5	1-2	1-2
INTEL EXTERNAL CLOCK X 2.0	2-3	1-2
INTEL EXTERNAL CLOCK X 2.5	2-3	2-3
INTEL EXTERNAL CLOCK X 3.0	1-2	2-3

2-3 SYSTEM MEMORY INSTALLATION

ATC-2000 provides four 72-pin SIM sockets for system memory expansion from 4MB to 256MB. These four SIMs are arranged to two banks, Bank0 (SIM 1, 2) and Bank1(SIM 3, 4), please refer to page A. Each bank provides 64-bit wide data path.

The mainboard accepts Fast Page Mode DRAM, and EDO Mode (Extended Data Out) DRAM, with a speed at least 70 nanosecond. You should plug DRAM modules into two sockets (same bank) or four 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 firstly if you only have 2 modules. The mainboard supports mixing of EDO DRAM SIMMs with fast page mode DRAM SIMMs among different banks; please plug EDO in Bank 0, if you only have 2 EDO modules.

If you install more than 64MB DRAM on ATC-2000, and would like to get more than 64MB cacheable size function, you should plug one 16K8 (or 32K8) TAG RAM into U16A socket, and change BIOS value of 'L2 Cache Cacheable Size' to '**512MB**'. (refer to the screen of "CMOS SETUP UTILITY".; page 32)

¡ System Memory Combinations Options ¡

BANK0 SIM 1, 2	BANK1 SIM 3, 4	Total Memory SIM 1- 4
2MBx2	-	4MB
-	2MBx2	4MB
4MBx2	-	8MB
-	4MBx2	8MB
8MBx2	-	16MB
-	8MBx2	16MB
4MBx2	4MBx2	16MB
4MBx2	8MBx2	24MB

- continue -

8MBx2	4MBx2	24MB
16MBx2	-	32MB
-	16MBx2	32MB
8MBx2	8MBx2	32MB
4MBx2	16MBx2	40MB
16MBx2	4MBx2	40MB
8MBx2	16MBx2	48MB
16MBx2	8MBx2	48MB
32MBx2	-	64MB
-	32MBx2	64MB
16MBx2	16MBx2	64MB
4MBx2	32MBx2	72MB
32MBx2	4MBx2	72MB

8MBx2	32MBx2	80MB
32MBx2	8MBx2	80MB
16MBx2	32MBx2	96MB
32MBx2	16MBx2	96MB
64MBx2	-	128MB
-	64MBx2	128MB
32MBx2	32MBx2	128MB
4MBx2	64MBx2	136MB
64MBx2	4MBx2	136MB
8MBx2	64MBx2	144MB
64MBx2	8MBx2	144MB
16MBx2	64MBx2	160MB
64MBx2	16MBx2	160MB
32MBx2	64MBx2	192MB
64MBx2	32MBx2	192MB
64MBx2	64MBx2	256MB

2-4 SRAM INSTALLATION

ATC-2000 is built-in 256KB or 512KB Sync. Pipeline Burst SRAM on board and provides a Sync. SRAM module in COAST slot for further expansion. The maximum capacity is 512KB.

¡ System Memory Combinations Options ¡

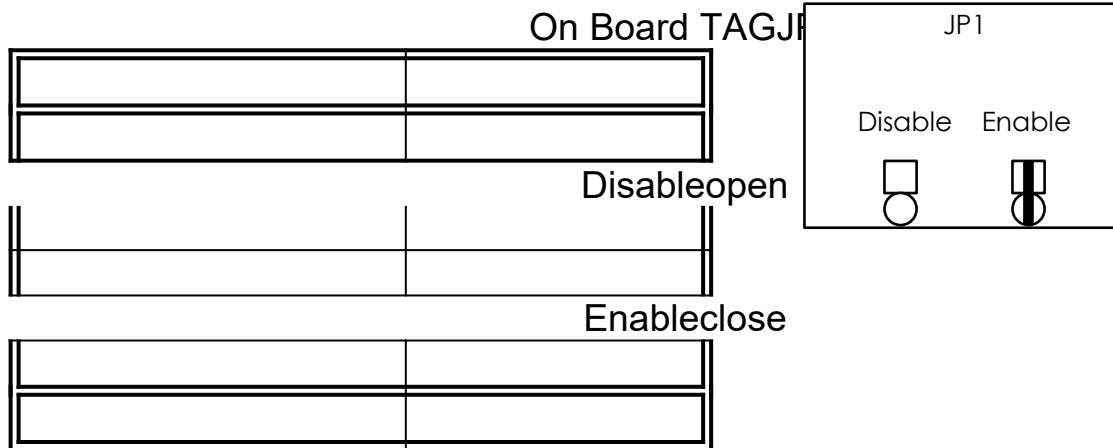
SRAM TYPE	SRAM SIZE	DATA SRAM	TAG SRAM
	Synchronous	256KB 32K	32 x 2pcs 16K8 or
	on board*	512KB 64K	32 x 2pcs 32K8 x 1pcs

Synchronous module 256KB 32K32 x 2pcs 16K8 or 32K8 x 1pcs

* on board DATA SRAM chips location are U24 and U25, TAG SRAM chip location is U16. U16A socket is used for DRAM installed more than 64MB. (refer to 2-3)

Upgrade Procedure :

For upgrading your Sync. SRAM from 256KB to 512KB by using COAST Module, you should plug-in the **KIT-256** module, then set JP1 to “open” (disable the original TAG on board). You must use **KIT-256** for upgrading your system to 512KB Sync. SRAM , please contact your system dealer about this information. It does not need any BIOS value adjustments for upgrading the SRAM size.



(If your module is without Tag RAM, please set JP1 “close”)

2-5 OTHER JUMPERS AND CONNECTORS DESCRIPTION

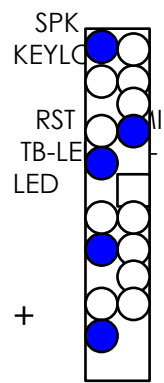
The location of following jumpers please refer to page A.

Jumper	Function	Remark
JP5	CMOS	open: Normal; close: Clear CMOS
ATBUS CLK	open: PCI CLK/3 for external CPU clock 50MHz close: PCI CLK/4 for external CPU clock 60, 66MHz	JP6

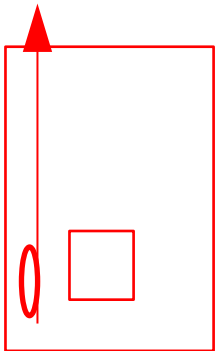
is default setting

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 aligned with the pin 1 end of the connector.

CN8 : Speaker, Keyboard Lock, Reset, SMI,
Turbo LED, and IDE LED connectors.



- SPK : speaker**
- Speaker
 - GND
 - GND
 - VCC



**KEYLOCK : keyboard lock switch and
power LED connector**

- Power LED +
- N/C
- GND (power)
- Keylock
- GND (keylock)

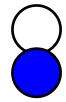
RST : Reset connector



Reset Signal

GND

SMI : SMI lead



GND

SMI Signal

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

GND

+5V



IDE-LED : IDE devices indicator LED

connector. IDE-LED stays ON indicates



GND on-board IDE devices on operation.



+5V If plug wire into wrong connector, color

of LED will be lighter and the IDE

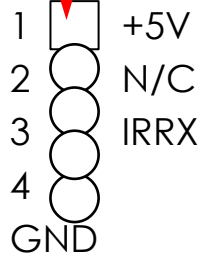
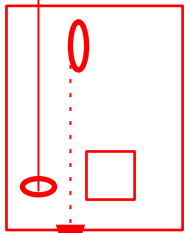
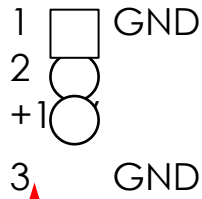
devices

J

can still function properly.

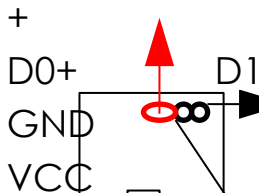
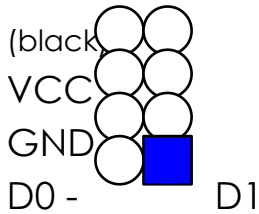
voltage (most likely red wire) must be plugged into pin2, and GROUND wires (most likely black wires) must be plugged into pin1 and/or pin3. please confirm the wire color representation with your supplier.

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



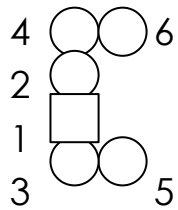
IR1 : Infrared module connector.

CN9 : Universal Serial Bus connector, this is used to connect USB devices through an optional dual head cable with a iron plane.



B1 : 5-pin AT style compatible keyboard connector.

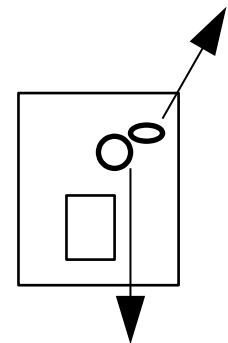
CN1 : PS/2 mouse connector, which is used to



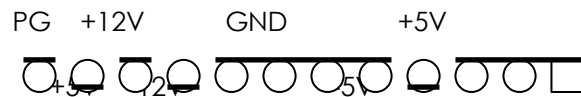
connect an optional cable.

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

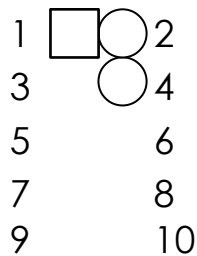
PW1 : +5 Voltage power supply connector.



CN2/3:COM1/2



CN2/CN3 : this 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

CN4 : this connector is used to connect floppy disk drive through cable.

1  2 

33 34



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

CN5: LPT

CN5 : this connector is used to connect parallel port cable.

1 14
2 15

13 26

1 2
3 4

pin	signal	pin	signal
1	PROBE-	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			

CN6/CN7 : this two connectors are used to connect IDE devices through IDE cables, total 4 devices.



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*		36	Addr 2
17	IDE1: pin31 is IRQ14;	37	Chip Sele.1P-
18	IDE2: pin31 is IRQ15	38	Chip Sele 3P-
19	or MIRQ0	39	Activity
20	Key	40	GND

2-6 IDE DRIVER INSTALLATION

The IDE driver installation procedure is printed on the label of diskette as following :

Setup for DOS/Windows :

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

Setup for Windows 95 :

1. Starting Windows 95
2. Select "My Computer"; select "Control Panel"; select "System"; then select "Device Manager", "Hard Disk Controllers".
3. Double-click to remove default driver program, restart computer.
4. 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.

For more information, please refer to Windows 95 manual.

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

CHAPTER 3 AWARD BIOS SETUP

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

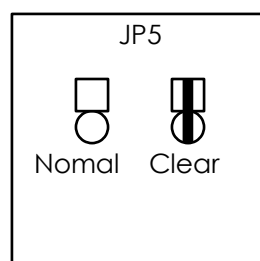
ATC-2000 uses Flash ROM to make BIOS easier to be updated by the floppy disk-based program. and to committe Microsoft Windows 95 plug & play feature.

JP5 Setting is for Update System BIOS

open	NORMAL
close	CLEAR CMOS

is default setting

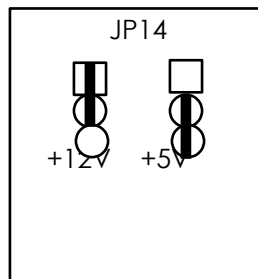
NOTE : If your mainboard is used 'Benchmark' battery, you



should clear CMOS under powering on, otherwise the 'clear' will not work.

i JP14 Setting is for Voltage of Flash ROM

1-2	+12V
2-3	+5V



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 3 files:

- "awdflash.exe" -- BIOS update utility program
- "awdflash.doc"
- "(update BIOS filename with version number).rom"

The update procedures are 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:\", "b:\", "ENTER".
4. Run the BIOS update utility -- Type "awdflash", "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 JP5 to 'close' to clear the CMOS. After about 10 seconds, set JP5 to 'open' (remove the jumper cap), become the normal status.
10. Turn the system power on and test your system working properly or not.

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 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 (2A59FA29) CMOS SETUP UTILITY AWARD SOFTWARE, INC.	
STANDARD CMOS SETUP BIOS FEATURES SETUP CHIPSET FEATURES SETUP POWER MANAGEMENT SETUP PNP/PCI CONFIGURATION LOAD BIOS DEFAULTS	INTEGRATED PERIPHERALS PASSWORD SETTING IDE HDD AUTO DETECTION SAVE & EXIT SETUP EXIT WITHOUT SAVING
ESC: Quit F10: Save & Exit Setup	↑↓→←:Select Item (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 one section displays the items highlighted in the list.

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

ROM PCI/ISA BIOS (2A59FA29)
CMOS SETUP UTILITY
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	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Time, Date, Hard Disk Type	

ROM PCI/ISA BIOS (2A59FA29)
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 These categories identify the types of 2 channels
Primary Slave that have been installed in the computer. There
Secondary Master are 45 predefined types and 4 user definable
Secondary Slave 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**' BIOS will auto-detect the
HDD & CD-ROM Drive at the POST stage and
showing 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 HDD
interface is ESDI, the selection shall be '**Type** 1';
is SCSI, the selection shall be '**None**'.

If the device has not been 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 This category identifies the types of floppy disk
Drive B 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 (2A59FA29)
CMOS SETUP UTILITY
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	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Virus, Protection, Boot Sequence	

ROM PCI/ISA BIOS (2A59FA29)
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	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
PS/2 mouse function control	: Enabled	F6 : Load BIOS Defaults	
PCI/VGA Palette Snoop	: Disabled	F7 : Load Setup Defaults	
OS/2 select for DRAM>64MB	: Non-OS2		
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.

! WARNING !

Disk boot sector is to be modified
Type 'Y' to accept write or 'N' to abort write
Award Software, Inc.

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

Enabled, BIOS will shorten or skip some check items during POST.

This category speeds up Power On Self Test after you power up the computer. If you set

Boot Sequence

This category determines which drive to search first for the disk operating system (i.e.,DOS).

C,A	System will first search for HDD then FDD
A,C	System will first search for FDD then HDD
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

Swap Floppy Drive

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

Boot Up Floppy Seek

During POST, 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 instance.

Typematic Rate
(Chars/Sec)

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

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 defined if the correct password is not entered at the prompt
Setup	The system will boot, but access to Setup will be defined 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 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 vido 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 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 (2A59FA29)
CMOS SETUP UTILITY
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	

ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
AT Clock, DRAM Timmings,	

ROM PCI/ISA BIOS (2A59FA29)
CHIPSET FEATURES SETUP
AWARD SOFTWARE, INC.

Auto Configuration	: Enabled	Memory Parity/ECC Check	: Disabled
DRAM Timing	: 70 ns	Single Bit Error Report	: Enabled
DRAM RAS# Precharge Time	: 4	L2 Cache Cacheable Size	: 64MB
DRAM R/W Leadoff Timing	: 7/6	Chipset NA# Asserted	: Enabled
Fast RAS# To CAS# Delay	: 3	Pipeline Cache Timing	: Faster
DRAM Read Burst (EDO/FPM)	: x333/x444	Passive Release	: Enabled
DRAM Write Burst Timing	: x333	Delayed Transaction	: Enabled
Turbo Read Leadoff	: Disabled		
DRAM Speculative Leadoff	: Disabled		
Turn-Around Insertion	: Disabled		
ISA Clock	: PCICLK/4		
System BIOS Cacheable	: Disabled		
Video BIOS Cacheable	: Disabled		
8-bit I/O Recovery Time	: 3		
16-bit I/O Recovery Time	: 2		
Memory Hole At 15M-16M	: Disabled	Esc: Quit	:Select Item
Peer Concurrency	: Enabled	F1 : Help	PU/PD/+/-:Modify
Chipset Special Features	: Disabled	F5 : Old Values	(Shift)F2 :Color
DRAM ECC/PARITY Select	: Parity	F6 :Load BIOS Defaults	

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 Timing

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.

Fast 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 (EDO/FPM)
DRAM Write
Burst Timing**

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 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-FFFFFH 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 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.

L2 Cache Default value is 64MB, you can get up to 64MB
Cacheable Size cacheable function based on your DRAM installed
size. If you install more than 64MB DRAM and
would like to get more than 64MB cacheable size, you should change the
value to 512MB, and plug addition one TAG SRAM into U16A socket.

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

ROM PCI/ISA BIOS (2A59FA29)
CMOS SETUP UTILITY
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	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Sleep Timer, Suspend Timer,	

ROM PCI/ISA BIOS (2A59FA29)
POWER MANAGEMENT SETUP
AWARD SOFTWARE, INC.

Power Management	: Disabled	*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
		IRQ8 (RTC Alarm) : OFF
Doze Mode	: Disabled	IRQ9 (IRQ2 Redir) : OFF
Standby Mode	: Disabled	IRQ10 (Reserved) : OFF
Suspend Mode	: Disabled	IRQ11 (Reserved) : OFF
HDD Power Down	: Disabled	IRQ12 (PS/2 Mouse) : OFF
		IRQ13 (Coprocessor) : OFF
		IRQ14 (Hard Disk) : OFF
		IRQ15 (Reserved) : OFF
Wake Up Events In Doze & Standby		Esc: Quit ↑↓→← :Select Item
IRQ3 (Wake-Up Event)	: OFF	F1 : Help PU/PD/+/- : Modify
IRQ4 (Wake-Up Event)	: OFF	F5 : Old Values (Shift) F2: Color
IRQ8 (Wake-Up Event)	: OFF	F6 : Load BIOS Defaults
IRQ12(Wake-Up Event)	: OFF	

Power This category allows you to select the type (or

Management

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 SL CPU's . 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. except for HDD Power Down which ranges from 1 to 15min. and disable

PM Control

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 present to NO.

by APM

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 configuration 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 to a device which is configured as **On**, even when the system is in a power 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 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 (2A59FA29)
CMOS SETUP UTILITY
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	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
IRQ Settings, Latency Timers,	

ROM PCI/ISA BIOS (2A59FA29)
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 capacity 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 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 has 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 FeaturesSetup".

ROM PCI/ISA BIOS (2A59FA29)
CMOS SETUP UTILITY
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	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Time, Date, Hard Disk Type	

ROM PCI/ISA BIOS (2A59FA29)
INTEGRATED PERIPHERALS
AWARD SOFTWARE, INC.

IDE HDD Block Mode	: Enabled	
PCI Slot IDE 2nd Channel	: Enabled	
On-Chip Primary PCI IDE	: Enabled	
On-Chip Secondary PCI IDE	: Enabled	
IDE Primary Master PIO	: Auto	
IDE Primary Slave PIO	: Auto	
IDE Secondary Master PIO	: Auto	
IDE Secondary Slave PIO	: Auto	
USB Controller	: Disabled	
Onboard FDD Controller	: Enabled	
Onboard Serial Port 1	: Auto	
Onboard Serial Port 2	: Auto	
UART 2 Mode	: Standard	
Onboard Parallel Port	: 378H/IRQ7	
		Esc: Quit ↑↓→← :Select Item
		F1 : Help PU/PD/+/- : Modify

Onboard Parallel Mode	: SPP	F5 : Old Values (Shift) F2: Color F6 : Load BIOS Defaults
-----------------------	-------	--

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 insert 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 either to 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 perform the complete task by themselves. This 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.

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 when you turn your computer on.

CMOS SETUP UTILITY
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	
ESC: Quit	↑↓→←:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Time, Date, Hard Disk Type	

ROM PCI/ISA BIOS (2A59FA29)
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
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 debug or 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 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 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 and press <Enter> again.

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

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

CAUTION : If you forget your password, you must disable the CMOS by turning power off and set JP5 'close'. Then reload the system. Please refer to page 13.

IDD HDD AUTO DETECTION

This allows you to detect 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

ii TECHNICAL SUPPORT REQUEST FORM ii

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

Model No : ATC-2000 Date of Purchase : _____

Serial No : _____

HARDWARE :

	BRAND	MODEL	SPEED	Q'TY
CPU				
SIM Module				
TAG SRAM				
Sync. Cache				

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 :

