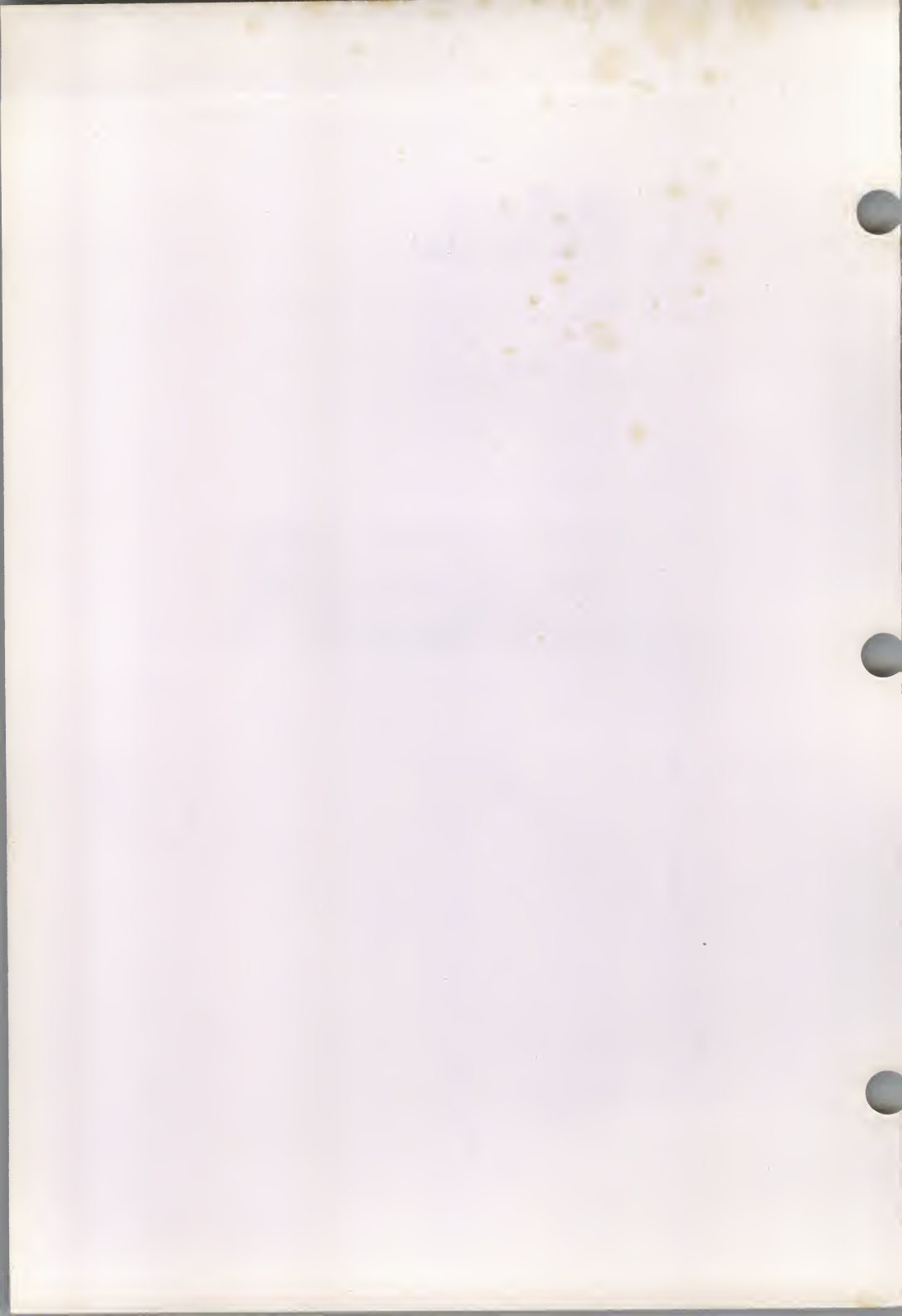


M User's
Manual



486-VLS



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Unit 3 . . . BIOS Setup

Unit 4 . . . Other

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Chapter 88	870
Chapter 89	880
Chapter 90	890
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Chapter 94	930
Chapter 95	940
Chapter 96	950
Chapter 97	960
Chapter 98	970
Chapter 99	980
Chapter 100	990

TRADEMARKS ANNOUNCEMENT

*** IBM PC/AT, AMI, INTEL/486, SIS, MS-DOS,
OS/2, UNIX, XENIX,ARE THE REGIS-
TERED TRADEMARKS OF THEIR RESPEC-
TIVE ORGANIZATIONS**

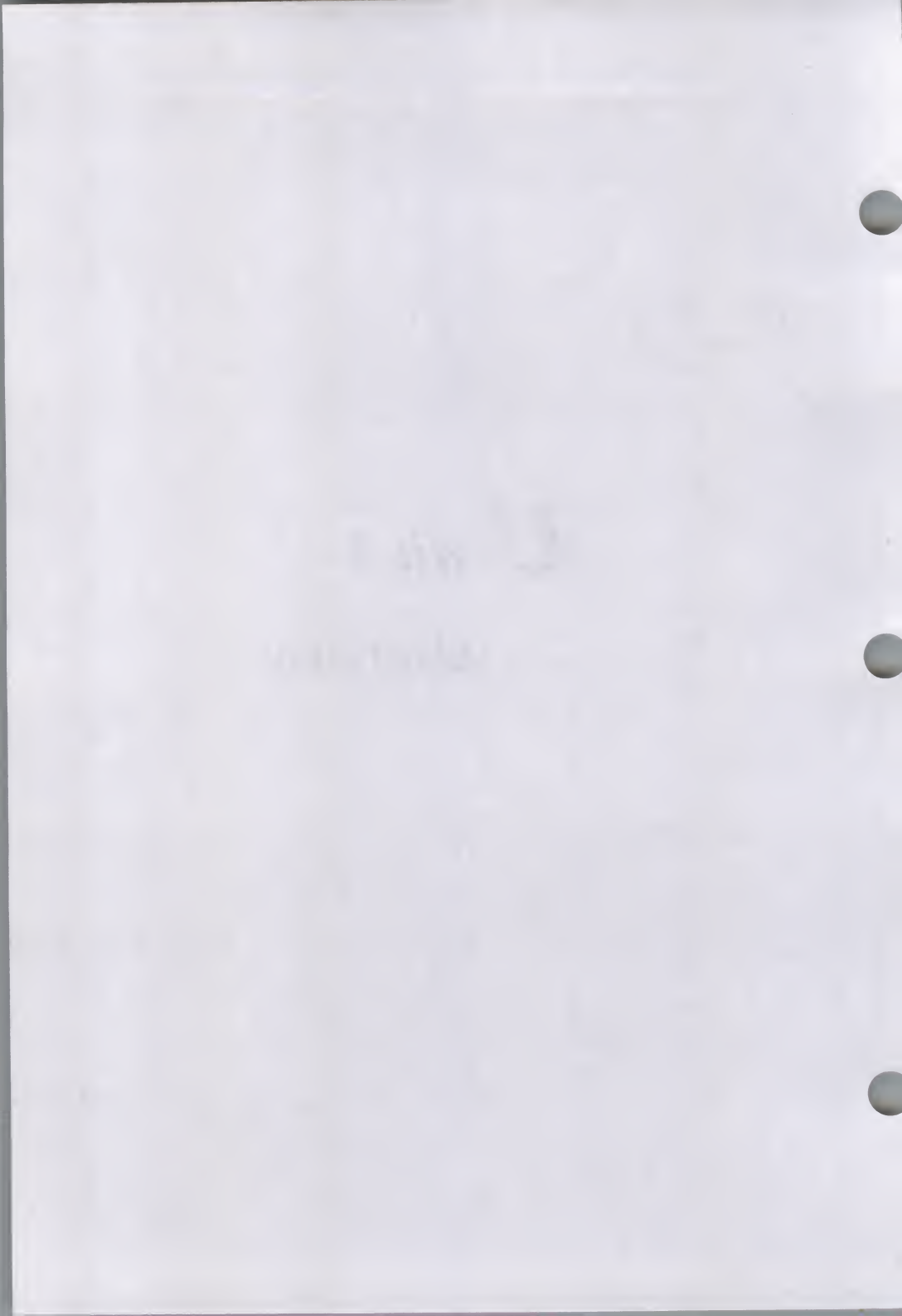
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U *nit 1*

Overview



*O*verview

Talking about 486 VESA M/B, everybody thinks of SPEED. Yes, the feature of this new enhanced main board, SIS 486 VESA, is in its fast speed when compare with the other 486 VESA M/B.

The concept of cache memory is some active portion of a low speed memory is stored in a duplicate high-speed cache memory. When memory request is generated, the request presents to the cache memory at first. If cache can't respond, the request will present to main memory.

The cache main board is designed to perform as a very efficient memory system. Meanwhile, the memory device is very low-cost at the current market. The detailed specifications of this SIS 486 VESA M/B are as follows :

Specification :

- * Using SIS-85C460 ATQ Single Chip.
- * Using INTEL 80486SX or 80486DX, 80486DX2 CPU to Support 25 or 33/50 or 50/66 MHz, Landmark Speed (Ver. 0.99) is 130.5 or 167.8/234.9 or 234.9/293.6 MHz.
- * 100% IBM PC/AT compatible.

O verview

- * Write-BACK/Through direct mapping Cache with Cache sizes 64KB/128KB/256KB.
- * Page mode DRAM controller supports 1MB/2MB/4MB/8MB/16MB/20MB/32MB DRAM with combination of 256KB/1MB/4MB SIMM Modules devices.
- * AMI BIOS (Single BIOS, 512K-Bit ROM on board).
- * Two 32-Bit VESA slot-2 slave or 2 master and seven 16-Bit expansion ISA slots.
- * Support VESA CARD :
VGA CARD : ET4000, S3, CIRRUS, OAK
IDE CACHE CARD: DC-680, DC-680T
SCSI CTRL CARD : ULTRASTOR, BUSLOGIC ...
- * Optimized for OS/2, WINDOWS/386, UNIX, XENIX, NOVELL 386.... software environment.
- * On board rechargeable battery back-up for CMOS configuration and real time clock.
- * 2/3 Baby AT size ; 4 Layers (22cm * 26cm).



Unit 2

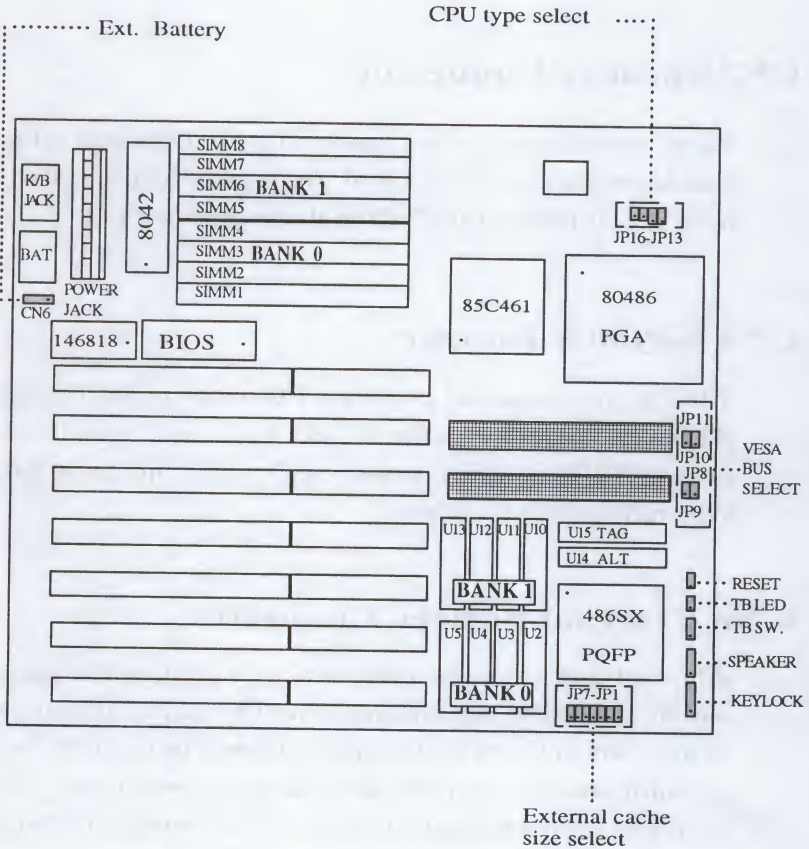
Main Board Layout and Description

1913

1913
1913

Main Board Layout & Description

SIS 486 VL-BUS Main Board Layout :



Main Board Layout & Description

Reset Jumper

This is for the system's re-boot and is also connected to front panel of case.

CN3 Speaker Connector

This connector is to be connected with a speaker which should be attached on back of front panel while installation. It will make sound while the system is boot.

CN1 Keylock Jumper

This jumper is to be connected to front panel of case. Keylock connector controls the keyboard to be locked or not. It also controls power LED which indicates if the system is power on or not.

CN6 External Battery Connector

The cache 486 main board uses a 3.6V rechargeable battery which maintains the information of system configuration in the CMOS RAM and supplies the real time clock. It can be automatically recharged while the power is on. However, this connector can be connected to an external battery source .

Main Board Layout & Description

CN2 Keyboard Jack

This jack is plugged by the keyboard connector while you use the keyboard.

CN7 Power Connector

The power supply is required to be connected in this two male six-pin power connector. Please take at least 200W power supply.

CN4 Turbo LED

This is to be connected to front panel of case. While it shines, the system is under turbo status, otherwise, it reverses.

CN5 Turbo Switch Jumper

This jumper decides whether the system runs at turbo or normal speed. If short, it is in turbo status. If open, it is in normal. This switch can be connected to front panel of case. After installation, you can just press the "Turbo button" on the case to choose turbo or normal speed.

Main Board Layout & Description

JP13-JP16 for CPU Type Select Jumper

These jumpers select your CPU type for 80486-DX, 80486-SX or 80487-SX.

Jumper \ CPU Type	486-DX	486-SX	487-SX
JP13	1-2	open	2-3
JP14	1-2	2-3	1-2
JP15	short	open	short

JP16 for PGA/PQFP 486 CPU Select

Jumper \ CPU Type	PGA	PQFP
JP16	Short	Open

Main Board Layout & Description

JP1-JP7 for Cache RAM size Jumper Setting

SIZE	JP1	JP2	JP3	JP4	JP5	JP6	JP7
64KB	1-2	1-2	1-2	1-2	2-3	-----	1-2
128KB	2-3	1-2	2-3	1-2	1-2	1-2	2-3
256KB	2-3	2-3	2-3	2-3	2-3	2-3	2-3

64KB DATA RAM using 8K8 * 8 pcs
TAG RAM using 8K8 * 1 pcs

128KB DATA RAM using 32K8 * 4 pcs
TAG RAM using 8K8 * 1 pcs

256KB DATA RAM using 32K8 * 8 pcs
TAG RAM using 32K8 * 1 pcs

JP20-JP22 for (MX) Clock Generator Jumper Setting

SIZE	25MHz	33MHz	40MHz	50MHz
JP20	short	short	short	open
JP21	open	short	short	open
JP22	open	short	open	short

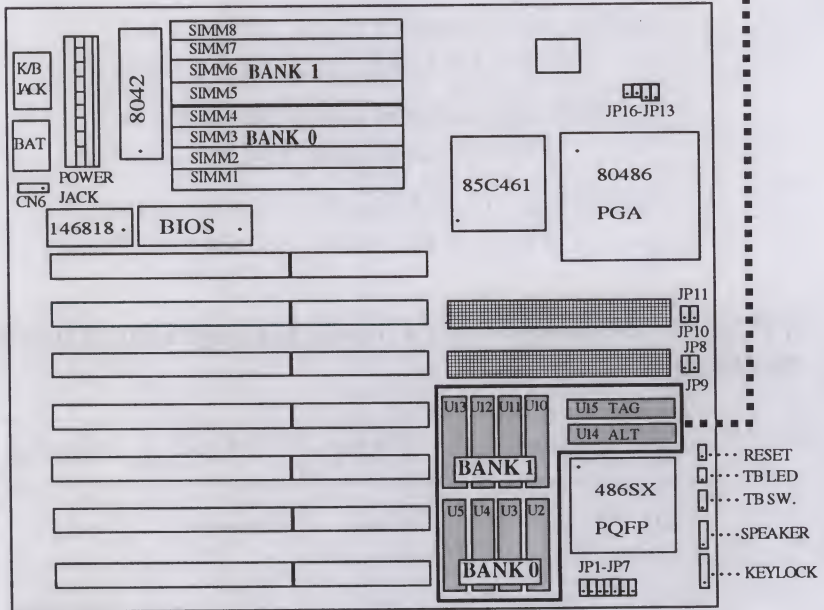
Main Board Layout & Description

CACHE RAM Installed Guide :

While using 64KB or 256KB please insert the SRAM in sockets U2-U5 & U10-U13 and TAG RAM in socket U15.

While using 128KB, please insert the SRAM in sockets U2-U5 and TAG RAM in socket U15.

SRAM



Main Board Layout & Description

JP8-JP11 for VESA BUS Setup

	SLOT 1		SLOT 2	
	JP10	JP11	JP 8	JP 9
<=33 MHz	1-2	----	1-2	----
> 33 MHz	2-3	----	2-3	----
0 WAIT WRITE	----	1-2	----	1-2
1 WAIT WRITE	----	2-3	----	2-3

CACHE RAM Speed type :

CPU Speed	TAG Speed	Cache Speed
33 MHz	20 ns	20 ns
50 MHz	20 ns	20 ns

Main Board Layout & Description

SLOTS

The expansion slots are :

32 bit VESA slot * 2 pcs

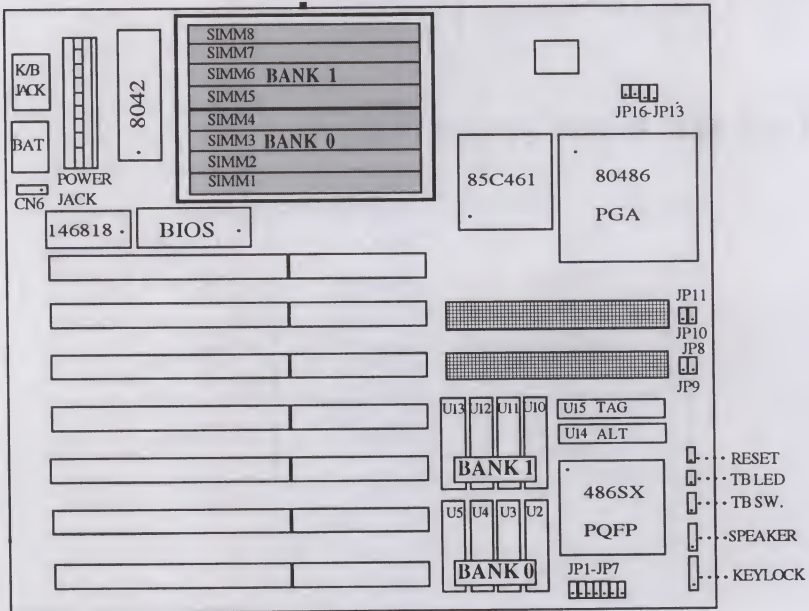
16 bit ISA slot * 7 pcs

Memory Organization

Memory area includes 2 BANKS (BANK0-BANK1).
Memory sizes are expandable from 1 MB to 32MB (MAX.)
on board. Let's discuss it one by one :

On Board DRAM :

..... SIMM SOCKET



Main Board Layout & Description

BANK 0 : SIMM 1, 2, 3, 4

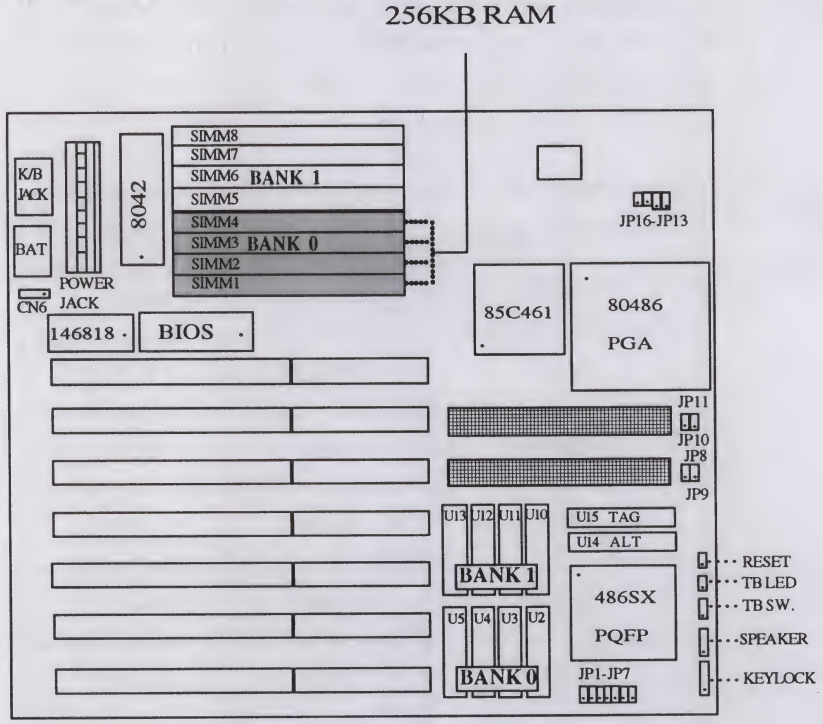
BANK 1 : SIMM 5, 6, 7, 8

Supporting 256KB, 1MB and 4MB SIM MODULE.
So, memory are available with multiple options of
1MB, 2MB, 4MB, 8MB, 16MB,20MB or 32MB.

Memory Size	BANK 0	BANK 1
1MB	256KB	0KB
2MB	256KB	256KB
4MB	1MB	0KB
8MB	1MB	1MB
16MB	4MB	0KB
20MB	1MB	4MB
32MB	4MB	4MB

Main Board Layout & Description

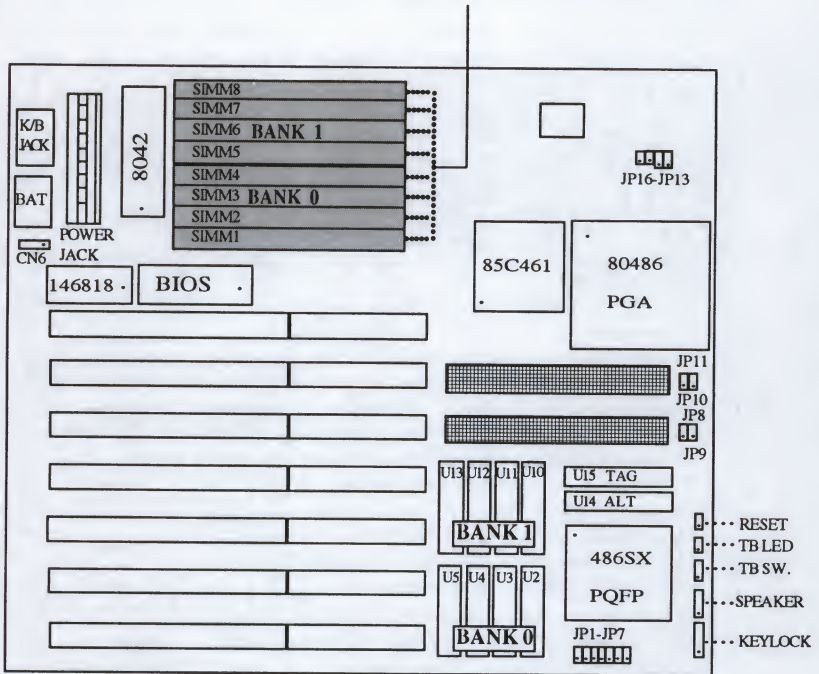
1MB - Bank 0 with 256KB SIMM RAM MODULE * 4



Main Board Layout & Description

2MB - Bank 0-1 with 256KB SIMM RAM MODULE * 8

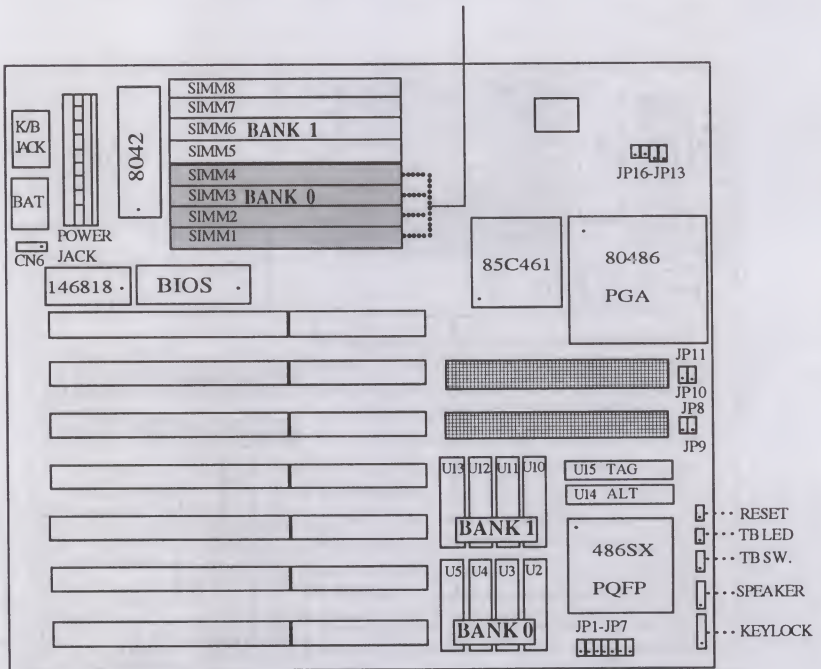
256KB RAM



Main Board Layout & Description

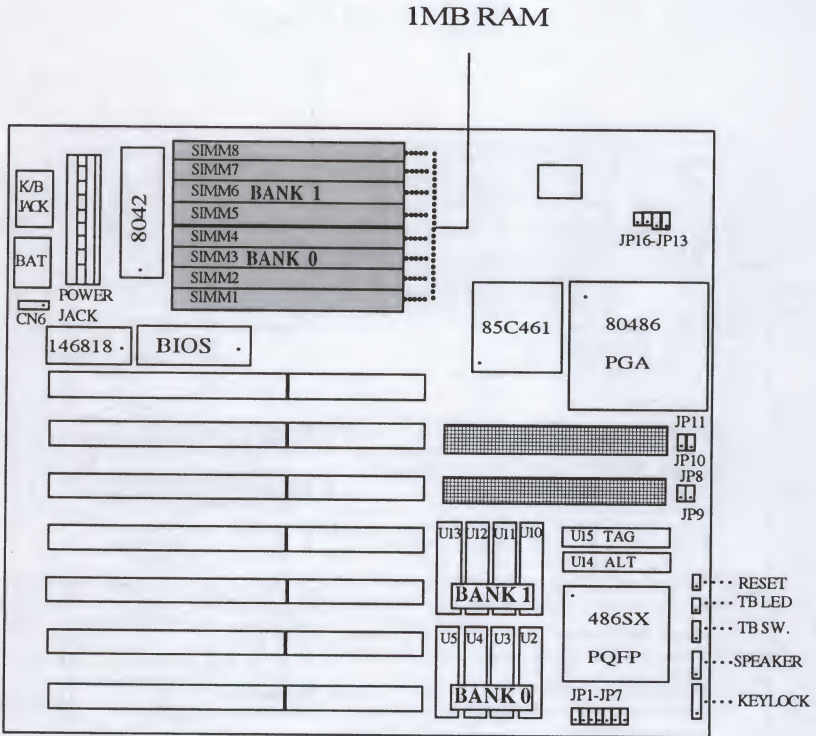
4MB - Bank 0 with 1MB SIMM RAM MODULE * 4

1MB RAM



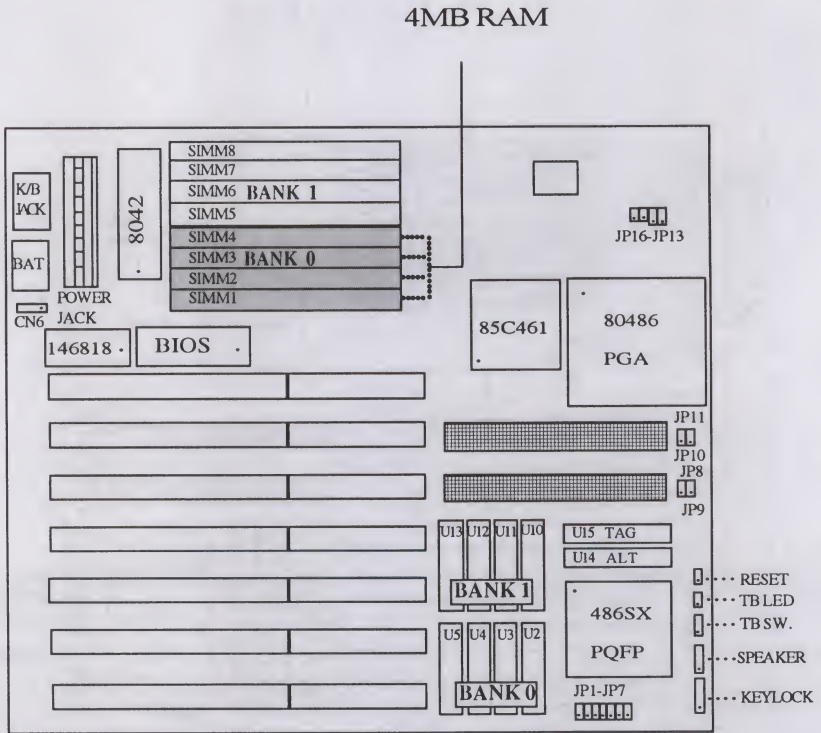
Main Board Layout & Description

8MB - Bank 0-1 with 1MB SIMM RAM MODULE * 8



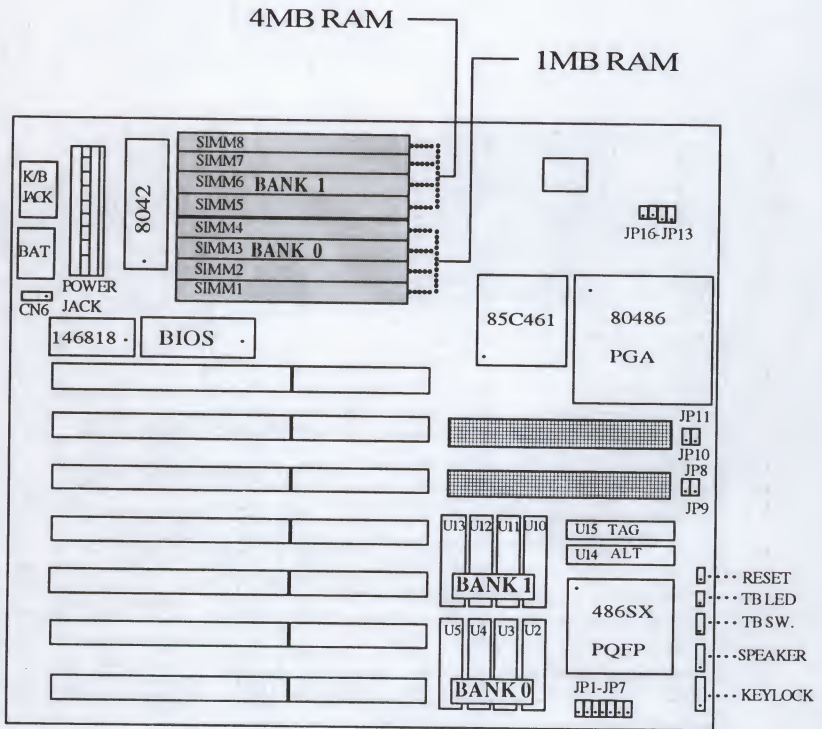
Main Board Layout & Description

16MB - Bank 0 with 4MB SIMM RAM MODULE * 4



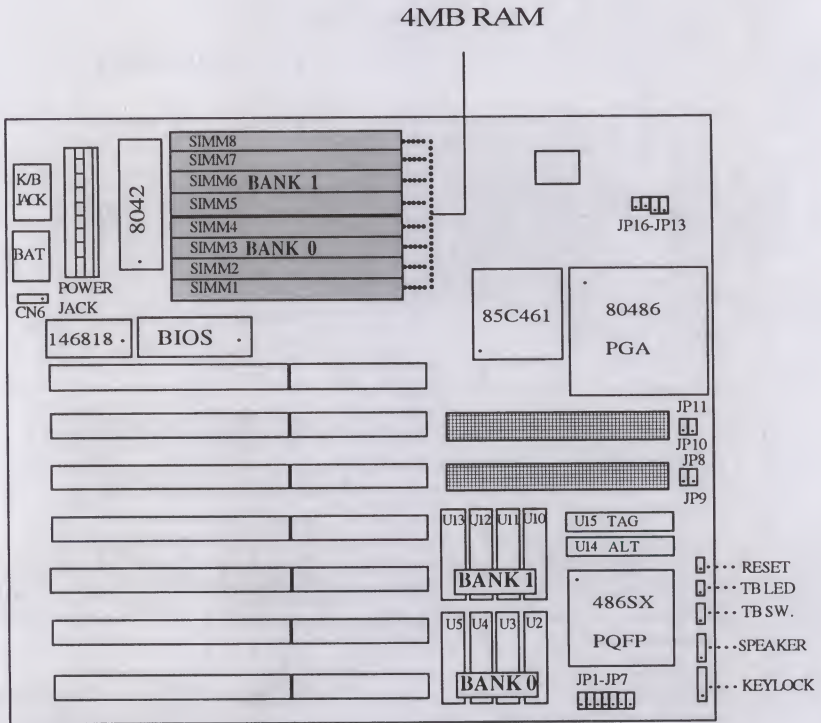
Main Board Layout & Description

20MB - Bank 0 with 1MB SIMM RAM MODULE * 4
Bank 1 with 4MB SIMM RAM MODULE * 4



Main Board Layout & Description

32MB - Bank 0-1 with 4MB SIMM RAM MODULE * 8





Unit 3

BIOS Setup

5.11.15
10.11.15

B IOS Setup

This chapter advises user how to use the CHIP SETUP under the AMI BIOS. Please read it clearly.

After power on and memory test, please press " DEL " key. The program will go to the next screen.

Hit , If you want to run SETUP/EXTD-SET.

B IOS Setup

AMIBIOS SETUP PROGRAM - BIOS SETUP UTILITIES (C) 1992 American Megatrends Inc., All Rights Reserved	
<table border="1"><tr><td>STANDARD CMOS SETUP</td></tr></table> ADVANCED CMOS SETUP AUTO CONFIGURATION WITH BIOS DEFAULTS AUTO CONFIGURATION WITH POWER-ON DEFAULTS CHANGE PASSWORD AUTO DETECT HARD DISK HARD DISK UTILITY WRITE TO CMOS AND EXIT DO NOT WRITE TO CMOS AND EXIT	STANDARD CMOS SETUP
STANDARD CMOS SETUP	
Standard CMOS Setup for Changing Time, Date, Hard Disk Type, etc.	
ESC:Exit ↓→↑←:Sel F2/F3:Color F10:Save & Exit	

NOTE :

Standard CMOS Setup for Changing Time, Date, Hard-disk Type, etc.

B IOS Setup

AMIBIOS SETUP PROGRAM - STANDARD CMOS SETUP
(C) 1992 American Megatrends Inc., All Rights Reserved

Date (mn/date/year) : **Wed, Mar 03 1993** Base memory : 640 KB
 Time (hour/min/sec) : 09 : 23 : 35 Ext. memory : 31744 KB

Cyln Head Wpcom LZone Sect Size

Hard disk C: type : 37 615 8 128 615 17 41 MB
 Hard disk D: type : Not Installed
 Floppy drive A : : 1.2 MB, 5 1/4 "
 Floppy drive B : : Not Installed
 Primary display : VGA/PGA/EGA
 Keyboard : Installed

Month : Jan, Feb, Dec
 Date : 01, 02, 03, 31
 Year : 1901, 1902, 2099

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

ESC:Exit ↓→↑←:Sel F2/F3:Color PU/PD:Modify

NOTE :

In the right bottom part of the screen, the calendar will alter the current year/month/date. You can use " ↑ " " ↓ " " → " " ← " to select the item you want, and use PgUp & PgDn to change the value.

B IOS Setup

AMI BIOS SETUP PROGRAM - STANDARD CMOS SETUP	
(C) 1992 American Megatrends Inc., All Rights Reserved	
Date (mn/date/year) : Wed, Mar 03 1993	Base memory : 640 KB
Time (hour/min/sec) : 09 : 23 : 35	Ext. memory : 31744 KB
	Cyln Head Wpcom LZone Sect Size
Hard disk C: type : 37	615 8 128 615 17 41 MB
Hard disk D: type : Not Installed	
Floppy drive A : : 1.2 MB, 5 1/4 "	
Floppy drive B : : Not Installed	
Primary display : VGA/PGA/EGA	
Keyboard : Installed	

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Time is 24 hour format:-
 Hour:(00-23),Minute:(00-59),Second:(00-59)
 (1:30 AM=01:30:00), (1:30 PM=13:30:00)

ESC:Exit ↓→↑←:Sel F2/F3:Color PU/PD: Modify

NOTE :

You can change the time according to the rule explanation in the left bottom part of the screen.

B IOS Setup

AMIBIOS SETUP PROGRAM - STANDARD CMOS SETUP																																																							
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Primary display	: VGA/PGA/EGA																																																						
Keyboard	: Installed																																																						
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="7"> FIXED type = 01...46, USER defined type = 47, For type 47 Enter : Cyln,Head,Wpcom,LZone, Sec, (Wpcom is 0 for ALL, 65535 for NONE) </td> </tr> </table>							FIXED type = 01...46, USER defined type = 47, For type 47 Enter : Cyln,Head,Wpcom,LZone, Sec, (Wpcom is 0 for ALL, 65535 for NONE)																																																
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ESC:Exit ↓→↑←:Sel F2/F3:Color PU/PD: Modify																																																							

NOTE :

According to your equipment, select hard disk C or D.
The options are 1-47 types.

B IOS Setup

AMIBIOS SETUP PROGRAM - STANDARD CMOS SETUP																																																							
(C) 1992 American Megatrends Inc., All Rights Reserved																																																							
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Hard disk D: type	: Not Installed																																																						
Floppy drive A :	: 1.2 MB, 5 1/4 "																																																						
Floppy drive B :	: Not Installed																																																						
Primary display	: VGA/PGA/EGA																																																						
Keyboard	: Installed																																																						
Options:- 360 KB 5 1/4"; 1.2 MB 5 1/4 ", 720 KB 3 1/2", 1.44 MB 3 1/2", 2.88 MB 3 1/2" not Installed																																																							
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4	5	6	7	8	9	10																																																	
ESC:Exit ↓→↑←:Sel F2/F3:Color PU/PD:Modify																																																							

NOTE :

According to your equipment, set floppy drive A or B. The options are 360KB 5 1/4", 1.2MB 5 1/4", 720KB 3 1/2", 1.44MB 3 1/2", 2.88MB 3 1/2" and Not Installed.

B IOS Setup

AMIBIOS SETUP PROGRAM - STANDARD CMOS SETUP																																																		
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Keyboard : Installed																																																		
Options:- Monochrome, Color 40x25, VGA/PGA/EGA, Color 80x25, not installed	<table border="1" style="border-collapse: collapse; width: 100%;"> <thead> <tr> <th>Sun</th> <th>Mon</th> <th>Tue</th> <th>Wed</th> <th>Thu</th> <th>Fri</th> <th>Sat</th> </tr> </thead> <tbody> <tr> <td>28</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> </tr> <tr> <td>14</td> <td>15</td> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> </tr> <tr> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> <td>26</td> <td>27</td> </tr> <tr> <td>28</td> <td>29</td> <td>30</td> <td>31</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> </tbody> </table>	Sun	Mon	Tue	Wed	Thu	Fri	Sat	28	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10
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ESC:Exit ↓→↑←:Sel F2/F3:Color PU/PD:Modify																																																		

NOTE :

According to your display card, set primary display types. The options are Monochrome, Color 40 x 25, Color 80 x 25, VGA or EGA and Not Installed.

B IOS Setup

AMIBIOS SETUP PROGRAM - STANDARD CMOS SETUP
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Date (mn/date/year) : Wed, Mar 03 1993 Base memory : 640 KB
 Time (hour/min/sec) : 09 : 23 : 35 Ext. memory : 31744 KB

Cyln Head Wpcom LZone Sect Size

Hard disk C: type : 37 615 8 128 615 17 41 MB
 Hard disk D: type : Not Installed
 Floppy drive A : : 1.2 MB, 5 1/4 "
 Floppy drive B : : Not Installed
 Primary display : VGA/PGA/EGA
 Keyboard : Installed

Options:-
 Installed : Test keyboard
 not Installed : Do not test keyboard

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

ESC:Exit ↓→↑←:Sel F2/F3:Color PU/PD:Modify

NOTE :

When keyboard is installed, ROM tests keyboard; otherwise, it dose not.

B IOS Setup

AMIBIOS SETUP PROGRAM - BIOS SETUP UTILITIES (C) 1992 American Megatrends Inc., All Rights Reserved
STANDARD CMOS SETUP ADVANCED CMOS SETUP AUTO CONFIGURATION WITH BIOS DEFAULTS AUTO CONFIGURATION WITH POWER-ON DEFAULTS CHANGE PASSWORD AUTO DETECT HARD DISK HARD DISK UTILITY WRITE TO CMOS AND EXIT DO NOT WRITE TO CMOS AND EXIT
Advanced CMOS Setup for Configuring System Options.
ESC:Exit ↓→↑←:Sel F2/F3:Color F10:Save & Exit

NOTE :

Advanced CMOS Setup for configuration System Options.

B IOS Setup

AMIBIOS SETUP PROGRAM - ADVANCED CMOS SETUP			
(C) 1992 American Megatrends Inc., All Rights Reserved			
Above 1 MB Memory Test	: Disabled	BootSector Virus Protection	: Disabled
Memory Parity Error Check	: Enabled	AUTO Config Function	: Enabled
Hard Disk Type 47 RAM Area	: 0 : 300	DRAM Speed Option	: Fastest
Numeric Processor Test	: Enabled	DRAM Write CAS Pulse	: 2T
System Boot Up Sequence	: A., C:	DRAM Write Cycle	: 1 W/S
External Cache Memory	: Enabled	DRAM Hidden Refresh	: Enabled
Internal Cache Memory	: Enabled	SCache Write Cycle Option	: 3T
Password Checking Option	: Setup	Cache Burst Read Cycle Option	: 1T
Video ROM Shadow C000,32K	: Enabled	Bus Clock Frequency Selecte	: 7.15 MHz
Adaptor ROM Shadow C800,32K	: Disabled	Vedio Cacheable Option	: Enable
Adaptor ROM Shadow D000,32K	: Disabled		
Adaptor ROM Shadow D800,32K	: Disabled		
Adaptor ROM Shadow E000,32K	: Disabled		
Adaptor ROM Shadow E800,32K	: Disabled		

ESC:Exit ↓→↑← :Sel (Ctrl)PU/PD:Modify F1:Help F2/F3:Color
F5:Old Values F6:BIOS Setup Defaults F7:Power-on Defaults

NOTE :

Above Values are Default.

B IOS Setup

AMIBIOS SETUP PROGRAM - BIOS SETUP UTILITIES (C) 1992 American Megatrends Inc., All Rights Reserved
STANDARD CMOS SETUP ADVANCED CMOS SETUP AUTO CONFIGURATION WITH BIOS DEFAULTS AUTO CONFIGURATION WITH POWER-ON DEFAULTS CHANGE PASSWORD AUTO DETECT HARD DISK HARD DISK UTILITY WRITE TO CMOS AND EXIT DO NOT WRITE TO CMOS AND EXIT
Load BIOS Setup Default Values for Advanced CMOS and Advanced CHIPSET Setup.
ESC:Exit ↓→↑← :Sel F2/F3:Color F10:Save & Exit

NOTE :

Load BIOS Setup Default Values for Advanced CMOS and Advanced CHIPSET Setup.

B IOS Setup

AMIBIOS SETUP PROGRAM - BIOS SETUP UTILITIES (C) 1992 American Megatrends Inc., All Rights Reserved
STANDARD CMOS SETUP ADVANCED CMOS SETUP AUTO CONFIGURATION WITH BIOS DEFAULTS AUTO CONFIGURATION WITH POWER-ON DEFAULTS CHANGE PASSWORD AUTO DETECT HARD DISK HARD DISK UTILITY WRITE TO CMOS AND EXIT DO NOT WRITE TO CMOS AND EXIT
Load Power-On Default Values for Advanced CMOS and Advanced CHIPSET Setup.
ESC:Exit ↓→↑← :Sel F2/F3:Color F10:Save & Exit

NOTE :

Load Power-On Default Values for Advanced CMOS and Advanced CHIPSET Setup.

B IOS Setup

AMIBIOS SETUP PROGRAM - BIOS SETUP UTILITIES (C) 1992 American Megatrends Inc., All Rights Reserved
STANDARD CMOS SETUP ADVANCED CMOS SETUP AUTO CONFIGURATION WITH BIOS DEFAULTS AUTO CONFIGURATION WITH POWER-ON DEFAULTS CHANGE PASSWORD AUTO DETECT HARD DISK HARD DISK UTILITY WRITE TO CMOS AND EXIT DO NOT WRITE TO CMOS AND EXIT
Change the User Password Stored in the CMOS .
ESC:Exit ↓→↑←:Sel F2/F3:Color F10:Save & Exit

NOTE :

Change the User Password Stored in the CMOS.

B IOS Setup

AMIBIOS SETUP PROGRAM - BIOS SETUP UTILITIES (C) 1992 American Megatrends Inc., All Rights Reserved
STANDARD CMOS SETUP ADVANCED CMOS SETUP AUTO CONFIGURATION WITH BIOS DEFAULTS AUTO CONFIGURATION WITH POWER-ON DEFAULTS CHANGE PASSWORD AUTO DETECT HARD DISK HARD DISK UTILITY WRITE TO CMOS AND EXIT DO NOT WRITE TO CMOS AND EXIT
Auto Detection of Hard Disk Type.
ESC:Exit ↓→↑←:Sel F2/F3:Color F10:Save & Exit

NOTE :

Auto Detection of Hard Disk Type.

B IOS Setup

AMIBIOS SETUP PROGRAM - BIOS SETUP UTILITIES (C) 1992 American Megatrends Inc., All Rights Reserved
STANDARD CMOS SETUP ADVANCED CMOS SETUP AUTO CONFIGURATION WITH BIOS DEFAULTS AUTO CONFIGURATION WITH POWER-ON DEFAULTS CHANGE PASSWORD AUTO DETECT HARD DISK HARD DISK UTILITY WRITE TO CMOS AND EXIT DO NOT WRITE TO CMOS AND EXIT
Format the Hard Disk, Auto Interleave Detection and Media Analysis.
ESC:Exit ↓→↑←:Sel F2/F3:Color F10:Save & Exit

NOTE :

Format the Hard Disk, Auto Interleave Detection and Media Analysis.

B IOS Setup

AMIBIOS SETUP PROGRAM -BIOS SETUP UTILITIES (C) 1992 American Megatrends Inc., All Rights Reserved
STANDARD CMOS SETUP ADVANCED CMOS SETUP AUTO CONFIGURATION WITH BIOS DEFAULTS AUTO CONFIGURATION WITH POWER-ON DEFAULTS CHANGE PASSWORD AUTO DETECT HARD DISK HARD DISK UTILITY WRITE TO CMOS AND EXIT DO NOT WRITE TO CMOS AND EXIT
Write the Settings to the CMOS and Exit.
ESC:Exit ↓→↑←: Sel F2/F3:Color F10:Save & Exit

NOTE :

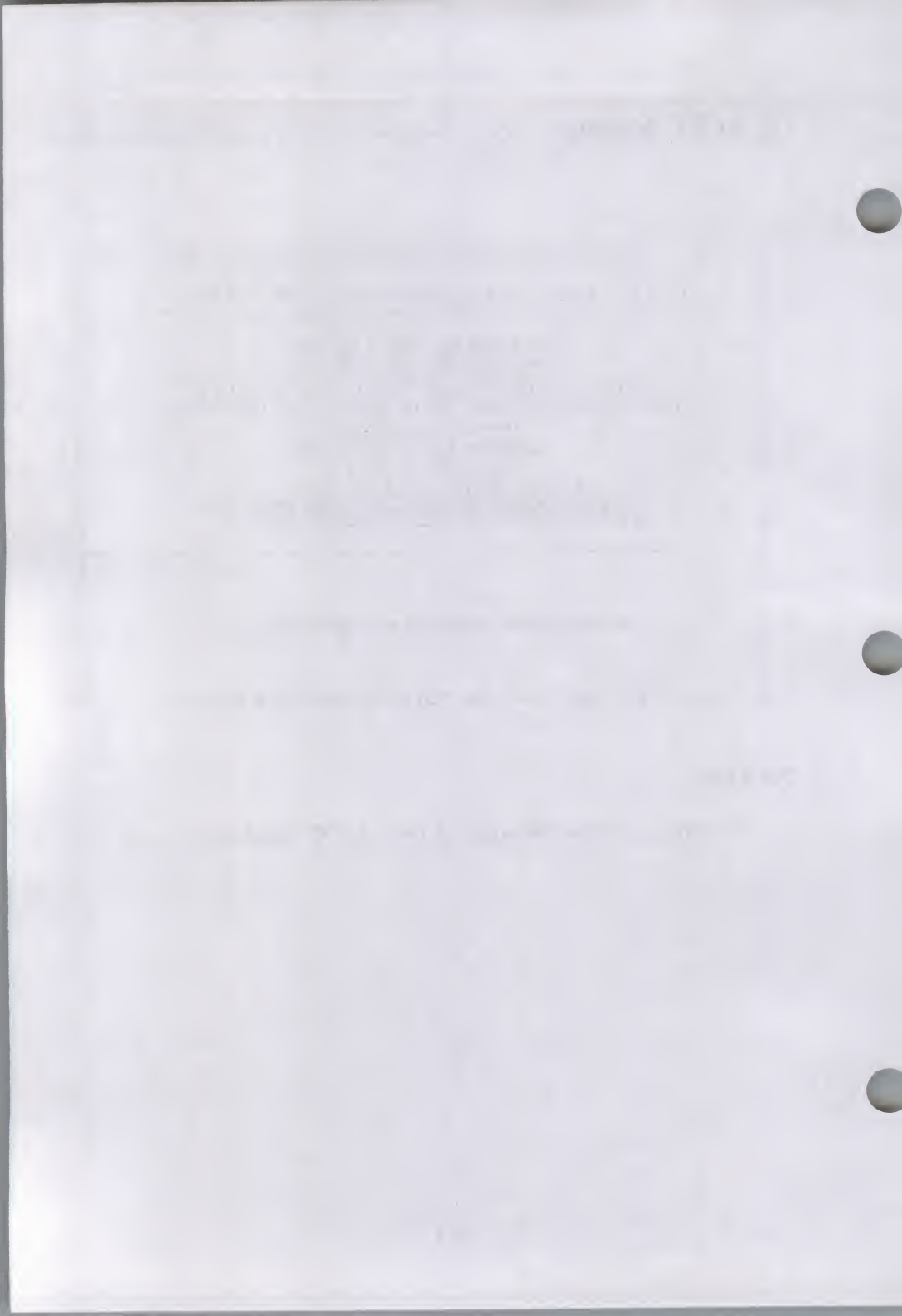
Write the Settings to the CMOS and Exit.

B IOS Setup

AMIBIOS SETUP PROGRAM - BIOS SETUP UTILITIES (C) 1992 American Megatrends Inc., All Rights Reserved
STANDARD CMOS SETUP ADVANCED CMOS SETUP AUTO CONFIGURATION WITH BIOS DEFAULTS AUTO CONFIGURATION WITH POWER-ON DEFAULTS CHANGE PASSWORD AUTO DETECT HARD DISK HARD DISK UTILITY WRITE TO CMOS AND EXIT DO NOT WRITE TO CMOS AND EXIT
Do Not write the Settings to the CMOS and Exit.
ESC:Exit ↓→↑←:Sel F2/F3:Color F10:Save & Exit

NOTE :

Do Not write the Settings to the CMOS and Exit.





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Other

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Suggestion :

If you use the QEMM Ver. 5.x or Ver. 6.x for your system configuration, you must add a parameter " NOSH " to your CONFIG.SYS as following:

DEVICE=C:\QEMM5.x(QEMM6.x)\QEMM386.SYS_NOSH

