

Chapter 6

Using the BIOS Setup Utility

Using the BIOS Setup Utility

Your notebook has a BIOS setup utility which allows you to configure important system settings, including settings for various optional functions of the computer. This chapter explains how to use the BIOS setup utility.

BIOS Setup Menu

The BIOS setup Utility allows you to configure your computer's basic settings. When you turn your computer on, the system reads this information to initialize the hardware so that it can operate correctly. Use the BIOS setup utility to change your computer's start-up configuration. For example, you can change the security and power management routines of your system.

Starting the BIOS Setup Utility

You can only enter the BIOS setup utility as the computer is booting, that is between the time you turn on the computer and before the Windows interface appears. If your computer is already on, shut down your computer completely (power off) and restart it and then press the **Del** key to enter the setup utility.



Warning: When you use the BIOS setup utility to configure your computer's basic settings, we **STRONGLY** recommend connecting the AC adapter (do NOT use battery alone) to avoid warning message.

Navigating and Entering Information in BIOS

Use the following keys to move between fields and to enter information:

Key	Function
Del	Press Del to start the BIOS utility after turning on the computer.
ESC	Press Esc to exit any section. If you wish to exit the BIOS utility <i>without</i> saving changes, go to the main menu, then press Esc .
Up, down keys (↑↓)	Push the up and down arrow keys to move among selections, then press Enter to make a selection.
PgUp or PgDn	Use the PgUp , PgDn keys to modify a field. Use PgUp to increase a value, such as a date or number, and PgDn to decrease it. For other types of choices, such as "enabled," or "disabled," use either key to move between choices.
Enter	Press Enter to make a selection.
F2 or F3	Pressing either key changes the color of the graphic display.
F10	Press F10 to save changes, then exit.



Warning: After KBC firmware update is complete, the system will automatically shut down. Please unplug all power sources (including AC or battery) and replug, or use a paper clip to depress the forced shutdown hole on the bottom of the computer. This will enable new settings to be entered.

The Main Menu

The Setup Utility menu bar has nine main screens: **Standard CMOS Setup**, **Advanced CMOS Setup**, **Power Management Setup**, **Auto-Detect Hard Disks**, **Change User Password**, **Change Supervisor Password**, **Auto Configuration with Optimal Settings**, **Save Settings and Exit**, and **Exit Without Saving** are used to exit the Setup Utility.

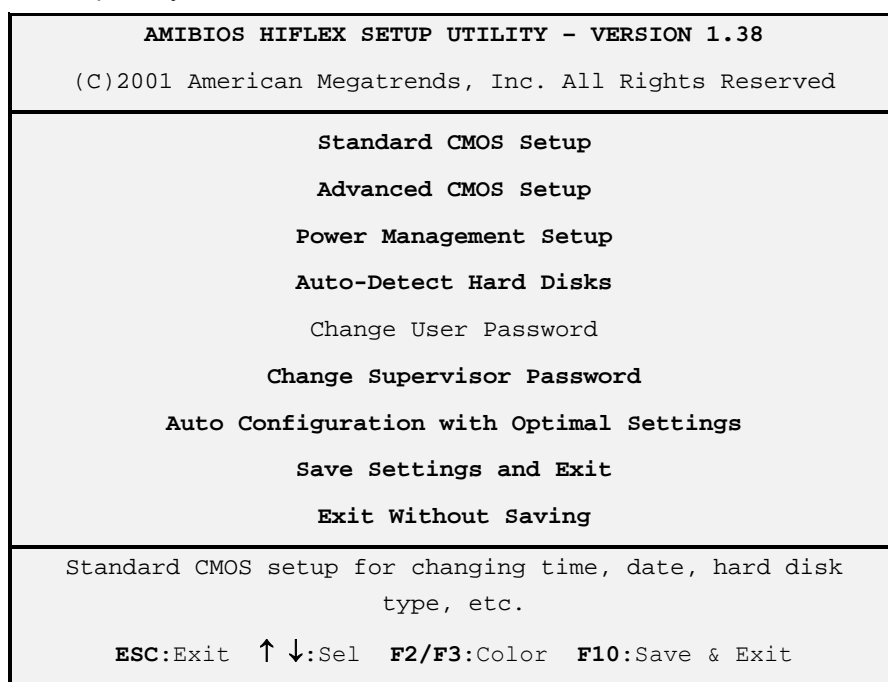


Figure 6-1

Standard CMOS Setup

The Standard CMOS Setup page of the Setup Utility has a list of fields that describe the basic configuration of your computer. **CMOS** is simply a type of random access memory, or RAM, used to store the basic configuration of the computer.

AMIBIOS SETUP - STANDARD CMOS SETUP																																							
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Date (mm/dd/yyyy): Wed Mar 6,2002					Base Memory: 640 KB																																		
Time (hh/mm/ss) : 16:55:24					Extd Memory: 223 MB																																		
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Type	Size	Cyl	Head	WPcom	Sec	Mode	Mode	Mode	Mode																														
Pri Master:	Auto								On																														
Sec Master:	Auto								On																														
Boot Sector Virus Protection					Disabled																																		
Month: Jan - Dec					ESC:Exit ↑↓:Sel																																		
Day: 01 - 31					PgUp/PgDn:Modify																																		
Year: 1980 - 2099					F1:Help F2/F3:Color																																		

Figure 6-2

Standard Feature Description

Field	Setting	Function
System Time & Date	Use these fields to set the time and date. The time is displayed in 24-hour format. The date can be set from January 1, 1980 to December 31, 2099. The values set in these two fields take effect immediately.	
Type	Shows type of system installed, including the following options: (Pri. Master) Auto, CD-Rom /DVD, Not Installed, User; (Sec. Master) Auto, CD-Rom /DVD, Not Installed, User.	
Pri. Master	Auto	The Default setting is Auto . Auto lets the system automatically read setup information from the device. When set to Auto , the BIOS will automatically detect hard disk capacity.
	CD-ROM/DVD	
	Not Installed	
	User	
Sec. Master	Auto	The Default setting is Auto . Auto lets the system automatically read setup information from the device.
	CD-ROM/DVD	
	Not Installed	
	User	
Size	Hard disk capacity.	
Cylinders	Displays the number of cylinders on the hard disk drive.	
Heads	Displays the number of heads per cylinder on the hard disk drive.	
LBA Mode	Only some hard disk drives support Logical Block Addressing. Default depends on the Hard Disk Drive type.	
Blk Mode	Only some hard drives support block (multi-sector) transfer of data	
PIO Mode	The default value Auto lets the system automatically read setup information it needs for setup from hard disk drive. Five explicit values, 0 to 4 , are also possible.	
32Bit Mode	Only some hard disk controllers support 32 bit data transfer.	
Base Memory; Extended Memory	These two items are detected automatically at start-up time and cannot be changed.	

Advanced CMOS Setup

AMIBIOS SETUP - ADVANCED CMOS SETUP		
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1st Boot Device	HDD	Available Options: Disabled HDD CDROM USB FDD ESC:Exit ↑ ↓:Sel PgUp/PgDn:Modify F1:Help F2/F3:Color
2nd Boot Device	CDROM	
3rd Boot Device	USB FDD	
Floppy Access Control	Read-Write	
Hard Disk Access Control	Read-Write	
S.M.A.R.T. for Hard Disks	Disabled	
BootUp Num-Lock	Off	
PS/2 Mouse Support	Enabled	
Password Check	Setup	
USB Device Legacy Support	All Device	
Clear NVRAM	Yes	
OnBoard FIR Port	Enabled	
Select Keyboard Type	US, CH	

Figure 6-3

Field	Setting	Function
1st Boot Device	Disabled	1st Boot Device default is HDD. 2nd Boot Device default is CDROM. 3rd Boot Device default is USB FDD. Warning: If 1st Boot Device is set as external device and the rest are Disabled, do not remove the device when turning on the computer or start up will be disrupted. If this occurs, please reset the value in this field.
2nd Boot Device	HDD	
3rd Boot Device	CDROM	
	USB FDD	

Chapter 6 — Using the BIOS Setup Utility

Field	Setting	Function
Floppy Access Control	Read-Write	Can read and write
	Read Only	Can read only
Hard Disk Access Control	Read-Write	Can read and write
	Read Only	Can read only
S.M.A.R.T. for Hard Disks	Disabled	Only S.M.A.R.T. Hard Disks are supported. The default is Enabled .
	Enabled	
Bootup Num-Lock	Off	Use this field to initially disable the NumLock feature of the internal keyboard when the notebook starts. The default is Off .
	On	
PS/2 Mouse Support	Enabled	The default value is Enabled . Please choose Disabled if you do not wish to operate the TouchPad.
	Disabled	
Password Check	Setup	The default value is Setup , which specifies that a password is only required to enter the setup utility.
	Always	If Always is selected, the password is required when the system is booted up or resuming from a suspend-to-disk.
USB Device Legacy Support	All Device	Dos supported USB keyboard, CD-ROM and floppy disk drive. The default is All Device .
	Disabled	
Clear NVRAM	No	Determines whether CMOS will be cleared after Flash BIOS. The default value is Yes .
	Yes	
OnBoard FIR Port	Enabled	Infrared support. The default value is Enabled .
	Disabled	
Select Keyboard Type	US, CH	You can select your keyboard type, and the default value is US,CH .
	UK	

Power Management

This section of the BIOS manages power settings in operating systems other than Windows 98 or above, or operating systems using ACPI power management. In Windows 98 or above, power management is controlled through the **Power Management** window in **My Computer**, and BIOS power management settings have **NO** effect. In other operating systems that use ACPI power management, BIOS settings likewise have no effect.

AMIBIOS SETUP - POWER MANAGEMENT SETUP		
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Geyserville Optimized Speed	Auto	Available Options: Performance Battery Auto ESC:Exit ↑ ↓:Sel PgUp/PgDn:Modify F1:Help F2/F3:Color
Cover Close	Panel Off	
Auto DIM	Enabled	
Battery Auto Calibration	Disabled	
FAN Auto Learning	Disabled	

Figure 6-4

Chapter 6 — Using the BIOS Setup Utility

Field	Setting	Function
Geyserville Optimized Speed	Performance	The computer always uses optimal CPU clock speed, and does not utilize Intel® SpeedStep™ Technology
	Battery	The computer always utilize Intel® SpeedStep™ Technology. This technology lowers the CPU clock speed to save power.
	Auto	Only when the battery is in use, the computer will utilize Intel® SpeedStep™ Technology. When the computer is running on AC power, it will run in Performance mode.
Cover Close	Panel off	The LCD will turn off when the cover is closed.
	Suspend	The LCD will turn off and the computer will enter suspend mode when the cover is closed.
Auto DIM	Enabled	When AC adapter is not in use, the monitor is run in power-saving mode.
	Disabled	The monitor does not go into power-saving mode.
Battery Auto Calibration	Disabled	Batttery calibration is disabled.
	Enabled	Battery calibration is endabled. Battery calibration will optimize the battery performance.
FAN Auto Learning	Disabled	FAN learning is disabled.
	Enabled	FAN learning is ensabled. FAN learning will optimize the fan speed.

Auto-Detect Hard Disk

When Auto-Detect Hard Disk is selected, the the BIOS will automatically detect Pri. Master and Sec. Master settings.

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Figure 6-5

Change User Password

With a User password, you can enter the Setup Utility and change or remove the User password, but you cannot enter the Setup Utility and change or remove the Supervisor password, nor enable diskette access if it has been disabled.

Change Supervisor Password

A supervisor password must be set before a lower-level user password can be set. After selecting **Change Supervisor Password**, press **Enter**. You will be prompted for the new password, and then again to verify it. Type in 6 or fewer keystrokes. If you make an error, press **Esc** to start over.

```
Enter new supervisor password:
```

Auto Configuration with Optimal Settings

The Auto Configuration pages reset the computer to default values. The Auto Detect Hard Disks likewise helps users to configure their systems quickly. When you see the following prompt, choose **Y** to reset the computer to default values.

```
Load high performance settings (y/n)? N
```

Exiting and Saving

Save Settings and Exit	Select this option to save changes to the field values, and restart the computer using the new values. (Pressing F10 from any of the menu screens also allows you to save settings and exit.)
Exit Without Saving	Select this option to discard any changes you have made to the field values, and restart the computer using the old values.