

EUT : NOTEBOOK PC

FCC ID : L4PK5XXCX12

KAPOK COMPUTER CO.

USER'S MANUAL

FEDERAL COMMUNICATIONS COMMISSION

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cables (except Microphone data cable, Earphone data cable and output power card) must be used in order to comply with emission limits.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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Conventions

This manual uses the following conventions to describe, identify, and highlight terms and operating procedures.

Text Conventions

Text in boldface contains messages that are important for safe operation. Please read.

Characters in boldface represent specific items or keys, e.g. **CardBus**, **Fn** key.

File names are presented in bold capitals, e.g. **A:>0VMAKFIL /Pn**.

Abbreviations

For the purpose of clarity, abbreviations are enclosed in parentheses following their definition; for example, Enhanced Parallel Port (EPP) mode.

Icons

Icons identify ports and jacks of the notebook computer. The system status indicators are also identified with their relative icons.

Keys

Keys appear in boldface. A plus sign (+) between two keys indicates that they should be pressed simultaneously.

Messages

Note: A note is an advice that helps you to make the best use of the computer. Please read it.

Caution: A caution is a reminding that reminds you something important for your computer. Please keep it in your mind.

Safety Notice

The computer is a delicate device that requires careful handling. Negligence or mistaken use may cause serious damage. Before you learn to operate or use this computer, you need to understand the instruction regarding safety handling.

The following mentions the incorrect handling that is seriously inhibited. To keep the computer from being damaged, please keep these precautions in your mind.

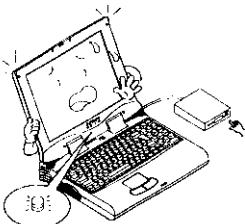
Do not turn off power in operation.



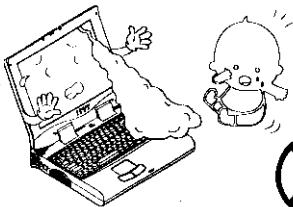
Do not place the computer on unstable surface.



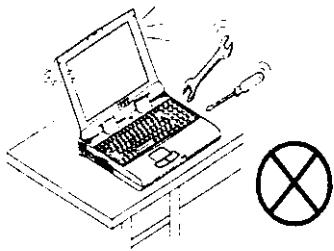
Do not turn off the peripheral device when the light is on.



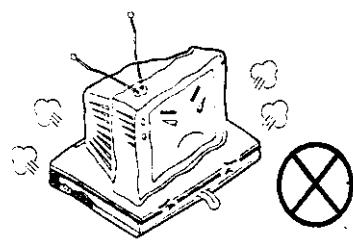
Do not touch the poisonous liquid when the LCD panel is broken.



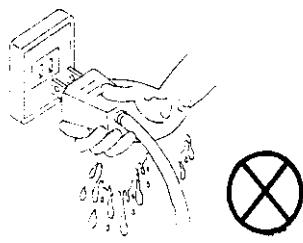
Do not disassemble the computer yourself.



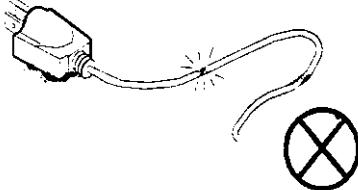
Do not place anything heavy on the computer.



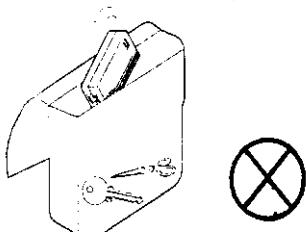
Do not touch power cord by wet hand.



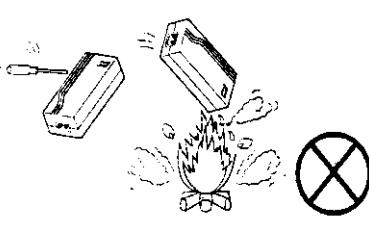
Do not use broken power cord.



Keep the computer away from any metal appliance.

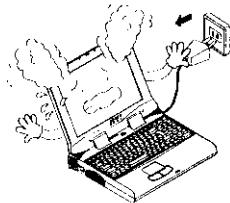


Do not throw the computer or accessories into fire.

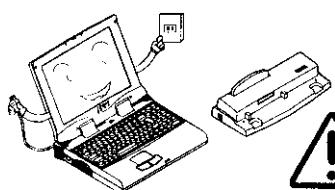


The following mentions the actions that are important for your computer. To keep your computer in the most excellent condition, please follow the instruction as much as possible.

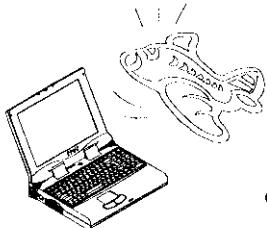
If there is unusual odor, heat or smoke, unplug the power cord.



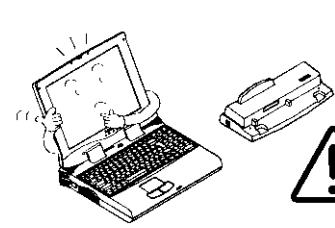
Unplug the power cord in attaching peripheral devices.



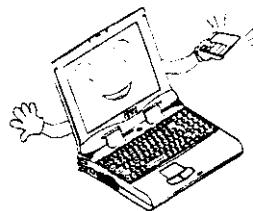
Follow the use instruction in taking airplane.



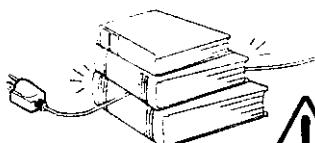
Use the same brand of peripheral devices.



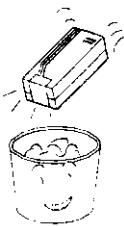
Maintain your computer regularly.



Do not place heavy thing on the power cord.



Affix tape to the contact plate while putting the battery into keeping box.



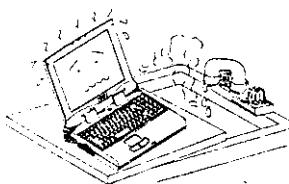
Take a rest after a long term of work.



The data is easy to lose in low power status.



Please keep the computer away from humid environment.



Ergonomics

Developing good work habits are important if you need to work in front of the computer for long periods of time. Improper work habits can result in discomfort or serious injury from repetitive strain to your hands, wrists or other joints. The following are some tips to reduce the strain:



- μ Adjust the height of the chair and/or desk so that the keyboard is at or slightly below the level of your elbow. Keep your forearms, wrists, and hands in a relaxed position.
- μ Your knees should be slightly higher than your hips. Place your feet flat on the floor or on a footrest if necessary.
- μ Use a chair with a back and adjust it to support your lower back comfortably.
- μ Sit straight so that your knees, hips and elbows form approximately 90° angles when you are working.

Lighting

Proper lighting and comfortable display viewing angle can reduce eye strain and muscle fatigue in your neck and shoulders.

- μ Position the display to avoid glare or reflections from overhead lighting or outside sources of light.
- μ Keep the display screen clean and set the brightness and contrast to levels that allow you to see the screen clearly.
- μ Position the display directly in front of you at a comfortable viewing distance.
- μ Adjust the display viewing angle to find the best position.

In addition, continuous concentration on computing work can result in discomfort and injury. Remember to:

- μ Alter your posture frequently.
- μ Stretch and exercise your body several times a day.
- μ Take periodic breaks when you work at the computer for long periods of time. Frequent and short breaks are of greater benefit than fewer and longer breaks.

Table of Contents

Chapter 1 : Getting Started 1-1

❑ Unpacking	1-2
❑ Operating Environment	1-3
❑ Powering the System	1-4
By AC Power Adapter	1-4
By Battery Pack	1-5
❑ Opening the LCD Cover	1-6
LED Indicators on the LCD Cover	1-7
❑ Top-Front View	1-8
LCD Panel.....	1-8
Stereo Speakers	1-8
Trackpad and Buttons	1-8
Keyboard.....	1-8
Microphone	1-8
System Status LED Indicators	1-10
Power Button.....	1-10
❑ Rear View	1-12
❑ Left-Side View	1-14
Infrared.....	1-15
❑ Right-Side View	1-16
5.25" CD-ROM Drive.....	1-16
Ventilation.....	1-16

Chapter 2 : Operation 2-1

Replacing the Processor.....	2-2
Reinstalling Heat Sink.....	2-3
❑ Setting DIP Switch.....	2-4
Accessing DIP Switch	2-5
Accessing the Memory Sockets.....	2-7
Installing Memory Module.....	2-8
Removing Memory Module.....	2-9
❑ Using Hard Disk Drive	2-10
Removing	2-10
Replacing Hard Disk Drive	2-11
❑ Using Floppy Disk Drive	2-12
Inserting/Removing Diskettes	2-12
Replacing Floppy Disk Drive	2-13

❑ LCD Panel	4-5
❑ Memory Module.....	4-6
❑ PC Card.....	4-6
❑ Boot Password	4-7
❑ Audio	4-7
❑ CD	4-8
❑ Printer	4-9

Chapter 5 : Installing Drivers 5-1

❑ Installing Windows 95.....	5-2
❑ Installing Windows 98.....	5-4
❑ Installing Drivers in Windows 95	5-5
Step 1: Running USB Supplement Path.....	5-5
Step 2: Installing TXPATCH Driver	5-5
Step 3: Installing VGA Driver	5-5
Step 4: Installing Audio Driver.....	5-6
Step 5: Installing PCMCIA driver	5-6
Step 6: Using Infrared Wireless Communication.....	5-6
❑ Installing Drivers in Windows NT 4.0	5-7
Step 1: Installing VGA Driver	5-7
Step 2: Installing Audio Driver.....	5-7
❑ Installing Drivers in Windows 98	5-8
Step 1: Installing VGA Driver	5-8
Step 2: Installing Audio Driver.....	5-8
Step 3: Installing PCMCIA Driver.....	5-10

Appendix A: Specifications I

Appendix B: I/O Port Pin Assignments I

■ Using CD-ROM	2-14
Removing CD-ROM Module	2-15
Loading Compact Discs.....	2-16
Handling Compact Discs.....	2-17
■ Using PC Card Sockets	2-18
Inserting PC Cards.....	2-18
Removing PC Cards	2-18
■ Using Hot Keys.....	2-20
Windows 95 Special Keys.....	2-21
■ Using Numeric Keypad	2-22
■ Using Power Management.....	2-23
Advanced Power Management (APM 1.2)	2-23
Advanced Configuration and Power Interface (ACPI)	2-23
Global Standby	2-23
Hard Disk Standby	2-23
Suspend and Resume	2-24
■ Attaching Peripheral Devices	2-26
Attaching a Security Lock	2-26
Attaching a Parallel Printer	2-27
Attaching a USB-compatible Device	2-29
Attaching a Serial Mouse	2-30
Attaching an External Monitor (CRT).....	2-31
Attaching a PS/2 Keyboard or Mouse.....	2-32

Chapter 3 : BIOS Utilities 3-1

■ Power on Self Test (POST)	3-2
POST Message: Normal Operation	3-2
POST Message: Error Detected	3-3
■ System Configuration Utility	3-4
Information in the System Configuration Utility	3-4
Initiating the System Configuration Utility	3-5
Working with the Menu Bar	3-6
Working with the Pull-down Menu.....	3-7
Features of the System Configuration Utility	3-8

Chapter 4 : Troubleshooting 4-1

■ Battery	4-2
■ Power	4-3
■ Hard Disk Drive	4-3
■ Floppy Disk Drive	4-4
■ Hardware Installation.....	4-4

Chapter 1 : Getting Started

This chapter provides you with the short instruction of notebook computer system that will help you to get the basic understanding about the computer.

- ❑ Unpacking
- ❑ Operating Environment
- ❑ Powering the System
 - ❑ By AC Power Adapter
 - ❑ By Battery Pack
- ❑ Opening the LCD Cover
- ❑ Top-Front View
- ❑ Rear View
- ❑ Left-side View
- ❑ Right-side View

■ Unpacking

Carefully unpack the notebook computer and the included accessories (Figure 1-1). Check the items one by one. If there is something wrong, contact your dealer immediately.

- Notebook Computer.
- Carrying Bag.
- Power Adapter.
- Power Cord.
- User Manual.
- PS/2 Transfer Cable.
- Battery Pack.
- Utilities Diskette(s).

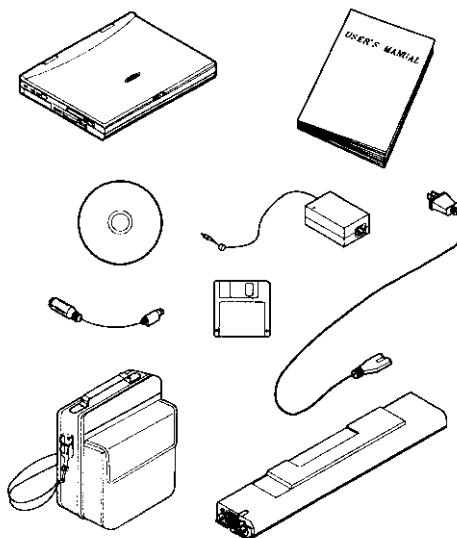


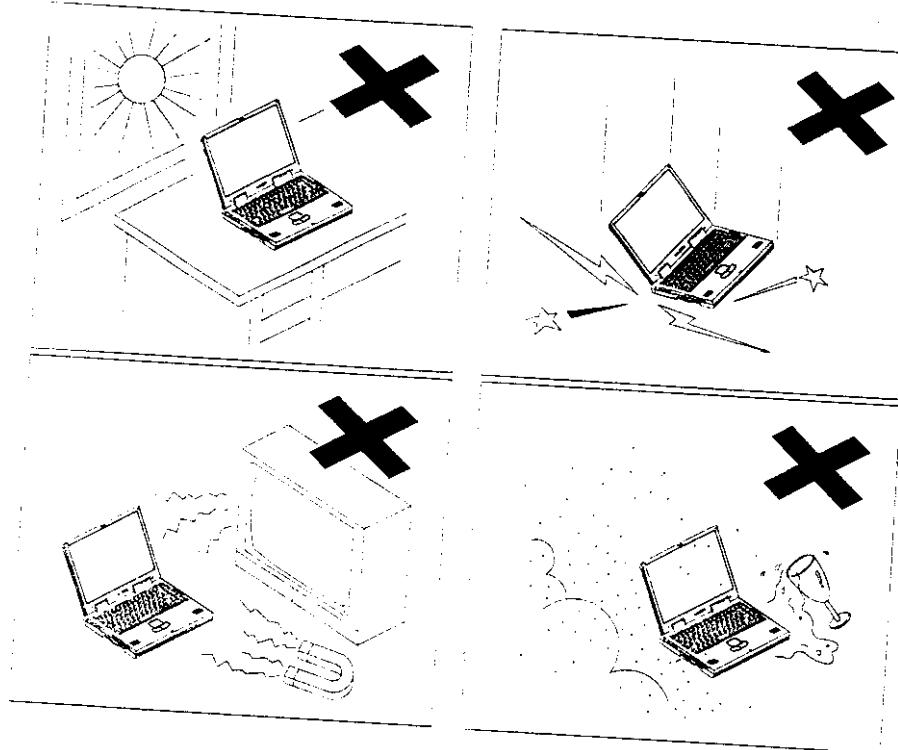
Figure 1-1

Operating Environment

As with any other precision electronic equipment, proper care and operation of your computer will prolong the use period. Make sure that the computer is not:

- Exposed to excessively heat or direct sunlight.
- Shocked or vibrated.
- Exposed to strong magnetic fields.
- Left in a place where foreign matter or moisture may affect the system.

Figure 1-2



■ Powering the System

You can use the AC power adapter or battery pack to power the computer system.

By AC Power Adapter

Use only the power adapter that comes with your computer. An incorrect type of power adapter will cause damage to the computer and its components.

1. Plug the power adapter cord into the AC-in socket on the rear panel of the computer.
2. Connect the power adapter with the power cord.
3. Plug the power cord into a properly grounded outlet (Figure 1-3).
4. Refer to Chapter 1, LED Indicators for more information on system power status.

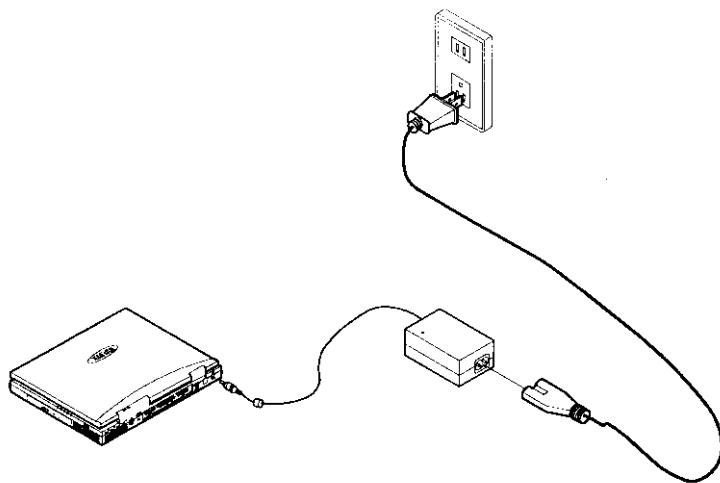


Figure 1-3

By Battery Pack

The battery pack provides power for continuous portable operation of the computer. When using the battery no external power source is required. The actual operation time is related to the application and the configuration you're using.

Inserting

1. Turn the computer over.
2. Fit the battery pack firmly into the computer.
3. The latch will click into the place when it is seated.

Removing

1. Turn the computer over.
2. Press the latch in the indicated direction to release the battery pack (Figure 1-4).
3. Carefully lift the battery pack from the computer (Figure 1-5).

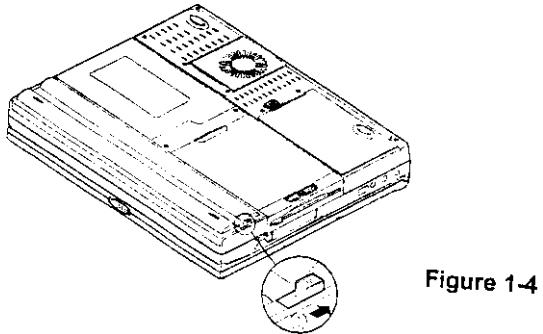


Figure 1-4

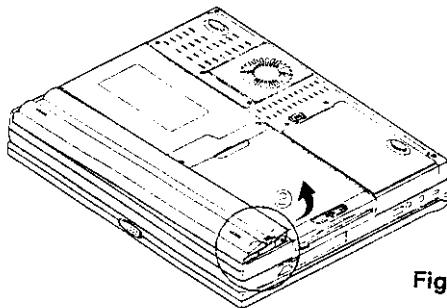


Figure 1-5

💻 Opening the LCD Cover

1. Move the latch to the right to release the top cover. (Figure 1-6).
2. Lift the top cover to reveal the LCD panel and keyboard (Figure 1-7).
3. Adjust the LCD panel to a comfortable viewing angle.
4. Press the power button to turn the system on or off (refer to Chapter1, Top-Front View for more information on the power button).

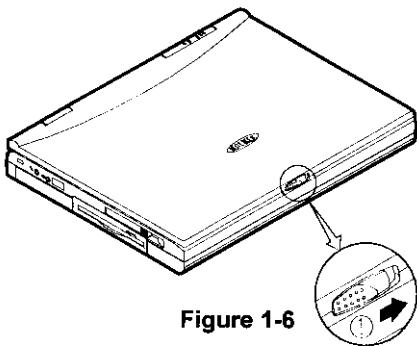


Figure 1-6

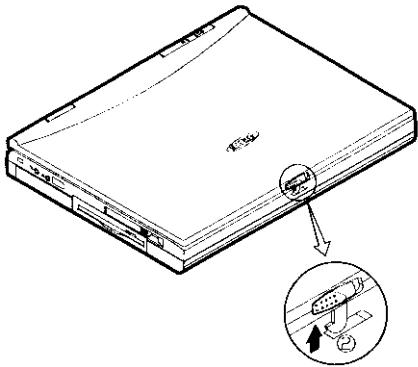


Figure 1-7

LED Indicators on the LCD Cover

Icon	Color	Description
	Green	Battery power is used while the system is turned on.
	Red	AC power is used while the system is turned on.
	Green	Battery is fully charged.
	Red	Battery is being charged.
	Blinking Red	Battery power is critically low.

Note:

The light of the indicator will blink when the battery is overheated.

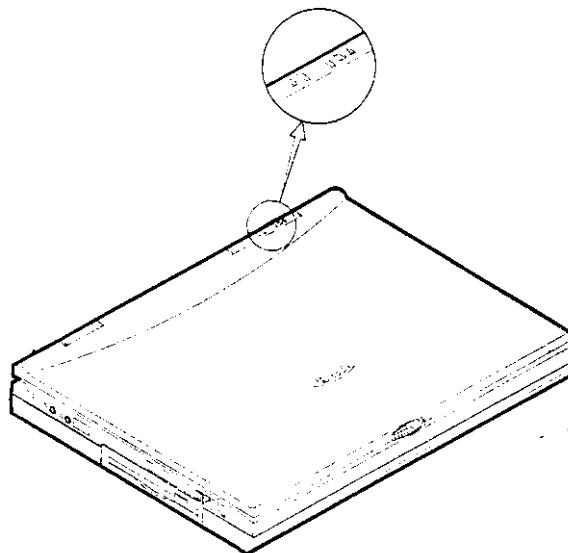


Figure 1-8

Top-Front View

LCD Panel

The computer provides you with a SVGA, LCD panel. Depending on the model you purchased, it can either be a 12.1" or 12.0" TFT flat panel. The LCD panel is driven by a AGP bus video controller with 4MB video memory.

Stereo Speakers

Two built-in speakers provide 3D stereo sound system.

Trackpad and Buttons

The pointing device features a sensitive glide pad for precise movements. It functions like a two-button mouse does. The right trackpad button is equivalent to the right mouse button; the left trackpad button is equivalent to the left mouse button.

Keyboard

The 84-key Windows 95 keyboard is integrated with the numeric keypad.



Microphone

The built-in microphone provides clear sound effect.

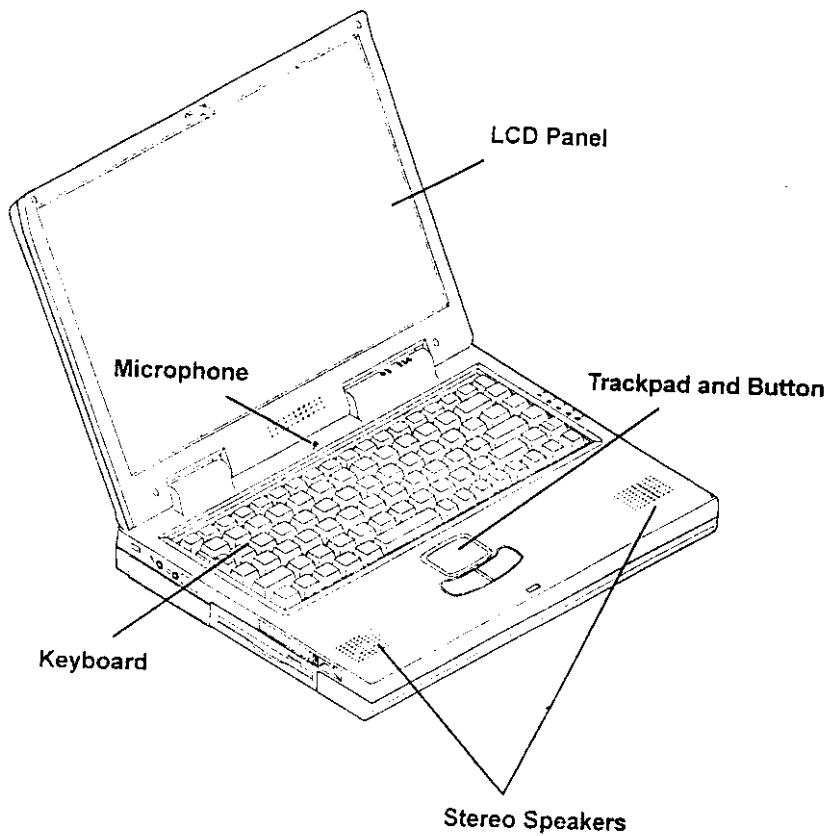


Figure 1-9

System Status LED Indicators

The LED indicators display the system's operation status.

Icon	Color	Description
	Green	Battery power is used while the system is turned on.
	Red	AC power is used while the system is turned on.
	Green	Battery is fully charged.
	Red	Battery is being charged.
	Blinking Red	Battery power is critically low.
	Green	The system has entered the configured suspend mode.
	Green	The embedded numeric keypad feature is activated
	Green	The Caps Lock feature is activated.
	Green	The Scroll Lock feature is activated.
	Green	The hard disk is being accessed.

Power Button

	Use this button to turn the system on or off.
	After proper configuration under SCU, this button can be used as suspend/resume hot button (refer to Chapter 3: BIOS Utilities, Power Menu for more information).

Note: After turning off the system, wait for a few seconds to power it on again.

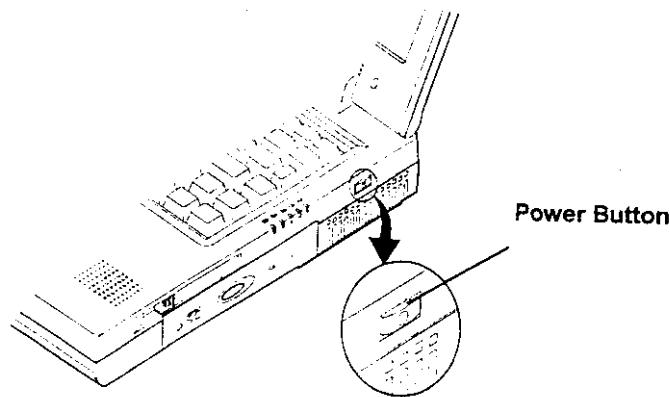


Figure 1-10

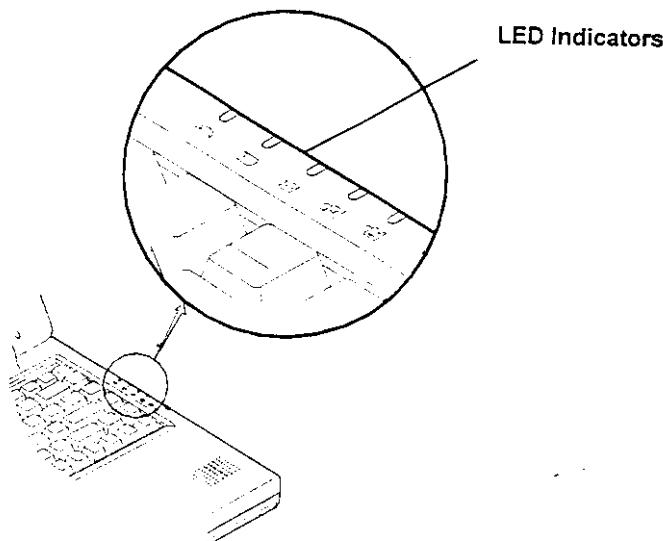


Figure 1-11

Rear View

AC-in Socket

Plug the AC adapter into this socket for power supply. To disconnect, pull the plug (not the cord) directly back.

Parallel Port

This parallel port supports EPP (Enhanced Parallel Port) and ECP (Extended Capabilities Port) modes.

USB Port

The Universal Serial Bus (USB) port simplifies the expansion capability for peripheral devices.

Serial Port

The serial port features a 9-pin connector for the external addition, such as mouse or fax/modem.

External Monitor (CRT) Port

This port is used for transmission of the display to an external monitor. Simultaneous display in LCD screen and external CRT monitor is available.

PS/2 Type Port

This port is used to connect with a PS/2 type keyboard or mouse.

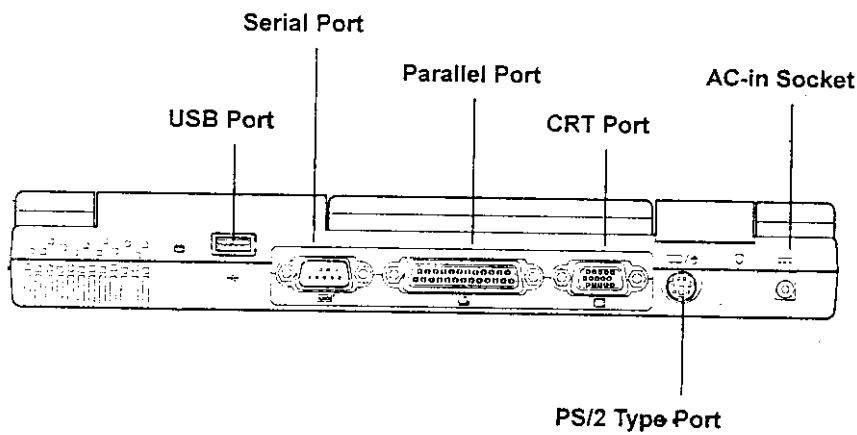


Figure 1-12

Left-Side View

PC Card Sockets

There are two PC card sockets on the right side and left side. Two type II PCMCIA 3.3V/5V cards can be used to expand the system's capability. The sockets support Zoom Video Mode and CardBus. To eject the PC card, press the appropriate eject button.

2.5" Hard Disk Drive

The 2.5" hard disk drive is removable. It accepts any 2.5" hard disk drive with a height of 12.7mm or less. The system supports Master mode IDE and PIO mode 4/ATA-33 (Ultra DMA).

3.5" Floppy Disk Drive

The computer provides a built-in 3.5", 3-mode, 1.44MB floppy disk drive. To eject the disk, press the button on the top-right side. The floppy disk module can be replaced with a 12.7mm(h) LS-120 drive. (Refer to Chapter 2: Operation for more information).

Headphone Jack



Headphone and speakers can be attached to the system through this jack.

Microphone-in Jack



Use this jack to connect a microphone to the system.

Infrared

The system adopts infrared technology as the interface for simple, fast and convenient data exchange from the computer to an infrared-compatible device. The infrared port supports IrDA (HPSIR) 1.0 mode and Amplitude Shifted Keyed IR (ASKIR) mode. For further information, please refer to the manual of the wireless device you wish to connect on how to use the point-and-shoot operation.

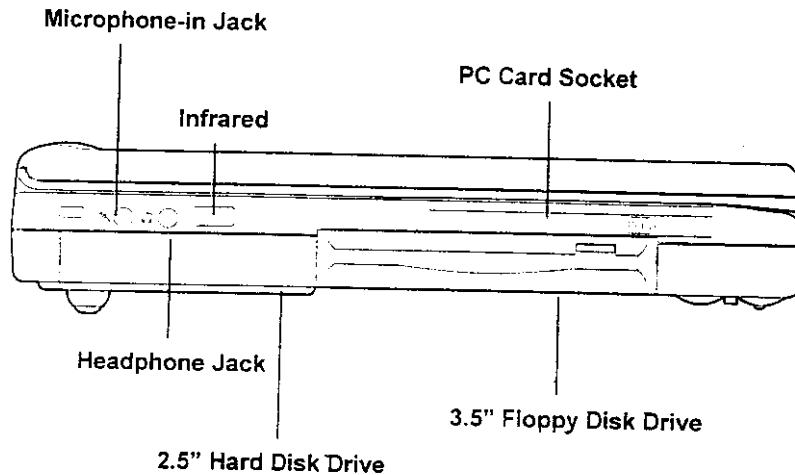


Figure 1-13

□ Right-Side View

5.25" CD-ROM Drive

The 5.25" IDE CD-ROM module is designed to be removable. The eject button is located in the middle of the front cover of the CD-ROM drive. Pressing it will release the CD tray.

Ventilation

The computer provides ventilation to dissipate the system's operation heat. Do not block or obstruct it during operation.

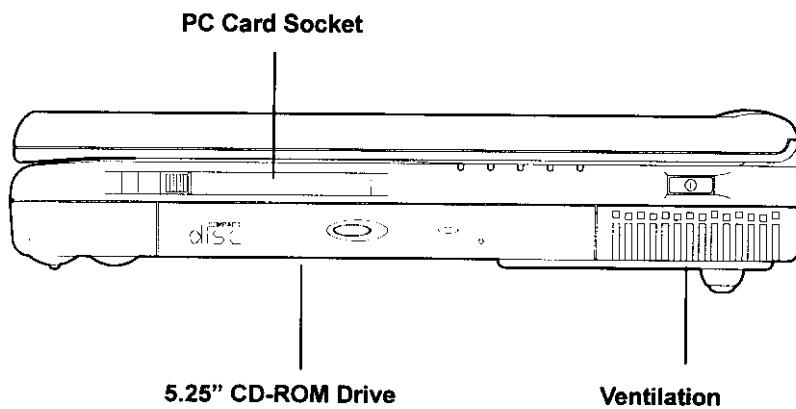


Figure 1-14

Chapter 2 : Operation

The notebook computer has many advanced features to help you with your computer work. This chapter describes each of the computer's hardware features and shows you how to use them.

Before you begin working with the internal components of the computer, remove the battery and disconnect the AC power adapter.

Make sure you wear an anti-static wrist strap to ground yourself before working with or repair the internal components. Static electricity may damage the components.

- Upgrading Processor Module
- Setting DIP Switch
- Expanding Memory
- Using Hard Disk Drive
- Using Floppy Disk Drive
- Using CD-ROM
- Using PC Card Sockets
- Using Hot Keys
- Using Numeric Keypad
- Using Power Management
- Attaching Peripheral Devices

Upgrading Processor Module

The notebook supports Intel Celeron processor at 300MHz, 333MHz, 366MHz, 400MHz and 433MHz Core frequencies.

The Intel Celeron processor provides good performance for applications running on advanced operating systems, such as Window 95/98, Window NT, and UNIX.

Replacing the Processor

1. Remove all the power sources (AC power and battery).
2. Turn the computer over.
3. Remove the CPU cover.
4. Remove the screws that fasten the heat sink mounted on the processor.
5. Carefully detach the processor from the mainboard (Figure 2-1).

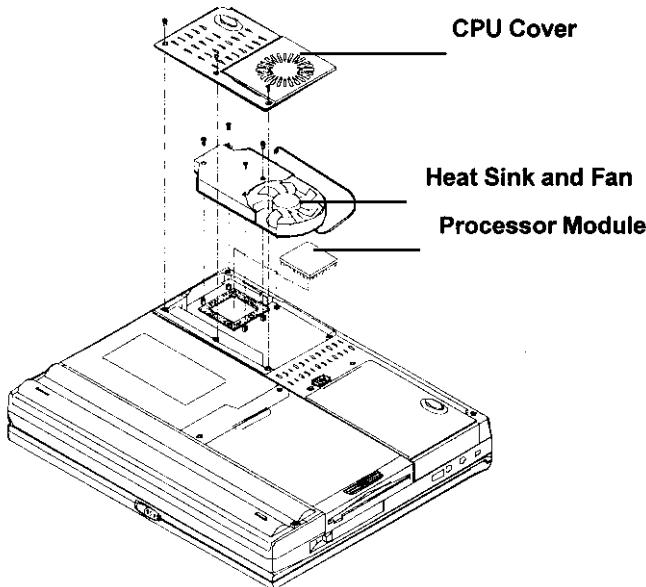


Figure 2-1

Reinstalling Heat Sink

Reinstall the CPU in the reverse order of removal. Make sure that the heat sink cable is properly installed (Figure 2-2 & 2-3).

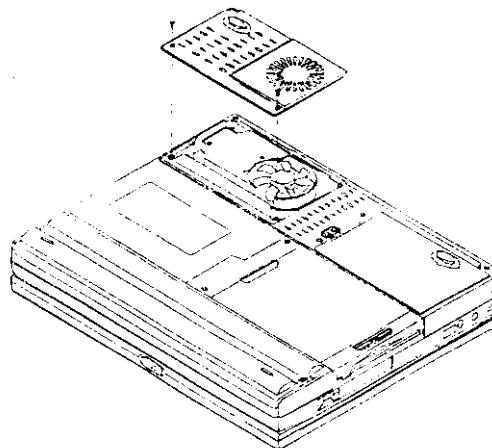


Figure 2-2

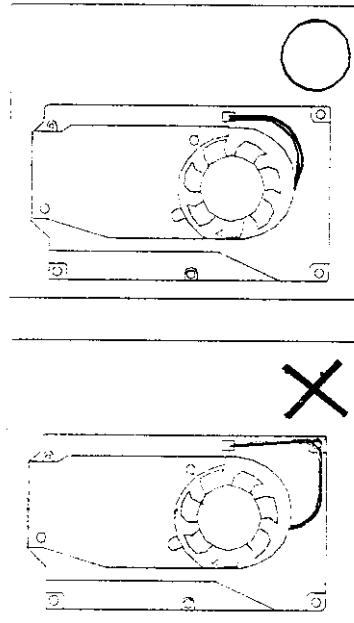


Figure 2-3

■ Setting DIP Switch

You need to set the following DIP switches for correct system configuration:

μ 4-pole & 2-pole DIP switches for CPU core frequency

The correct configuration is listed as below:

BGA1 Processor				
CPU Frequency	SW1-1	SW1-2	SW1-3	SW1-4
233MHZ	OFF	OFF	OFF	ON
266MHZ	ON	ON	ON	OFF
300MHZ	OFF	ON	ON	OFF
333MHZ	ON	OFF	OFF	OFF

*Only for BGA1 CPU

Celeron & Dixon Processor VTT Select		
CPU Frequency	S3-1	S3-2
1.5V (Socket 370)	ON	ON
1.6V (BGA1)	OFF	OFF

Accessing DIP Switch

1. Turn the system power off.
2. Press the two keyboard latches to elevate the keyboard from its normal position (Figure 2-4).
3. Carefully lift the keyboard assembly out to expose the mainboard. Locate the DIP switches to set the configuration (Figure 2-5).

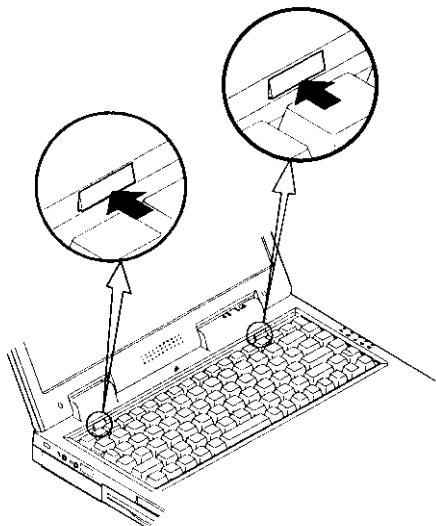


Figure 2-4

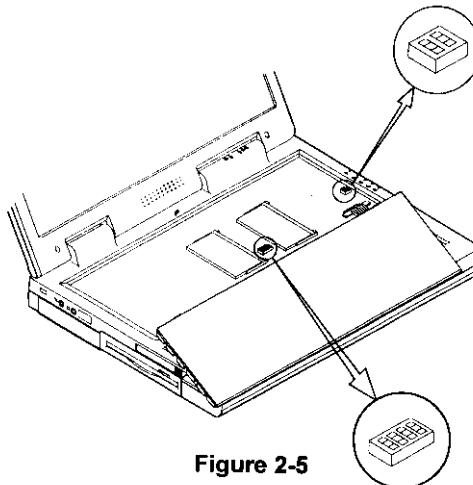


Figure 2-5

■ Expanding Memory

The system has two memory sockets for different RAM modules to expand the memory up to 256MB. The RAM modules should be 144-pin SODIMM (Small Outline Dual In-line Memory Module) type. The computer supports EDO, and SDRAM operation. The total memory size is automatically detected by the POST routines. To expand the memory, you have the following choice with different DRAM combination

Bank 0 (64 Bits)	Bank 1 (64 Bits)	Power	Total Size
8	0	3.3V	8
8	8		16
16	8		24
32	0		32
16	16		32
32	16		48
64	8		72
64	16		80
32	32		64
64	32		96
128	0		128
64	64		128
128	8		136
128	16		144
128	32		160
128	64		192
128	128		256

Accessing the Memory Sockets

1. Turn the system power off.
2. Press the two keyboard latches to elevate the keyboard from its normal position (Figure 2-4).
3. Carefully lift the keyboard assembly out to expose the mainboard. Locate the memory sockets (Figure 2-6 & Figure 2-7).

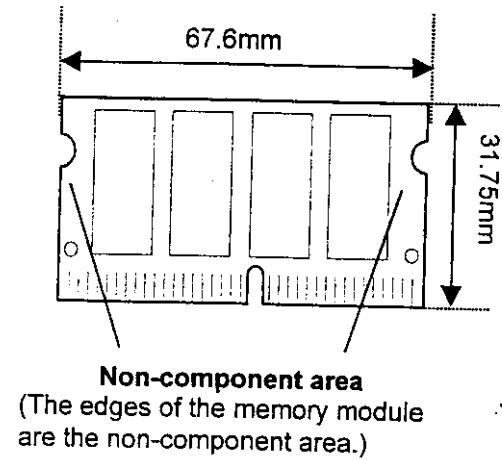


Figure 2-6

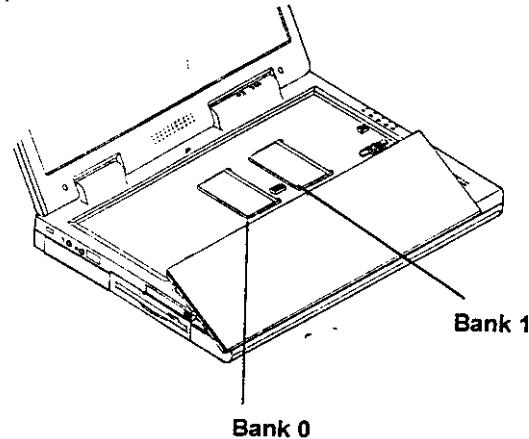


Figure 2-7

Installing Memory Module

Follow the steps below to install the memory module:

1. Turn the system power off.
2. Press the two keyboard latches to elevate the keyboard from its normal position (Figure 2-4).
3. Carefully lift the keyboard assembly out to expose the mainboard. Locate the memory sockets (Figure 2-7).
4. Insert the memory module at a slight angle (45°) and fit its connectors into the socket firmly (Figure 2-8).

Note:
Insert Bank 0 first, then Bank 1.

5. Press the two edges of the memory module to make it locked into the place.
6. Reinstall the keyboard assembly.

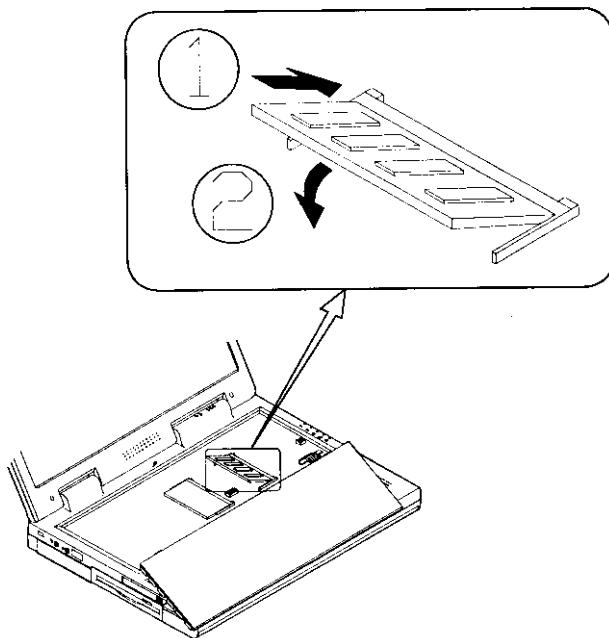


Figure 2-8

Removing Memory Module

1. Turn the system power off.
2. Press the two keyboard latches to elevate the keyboard from its normal position (Figure 2-4).
3. Carefully lift the keyboard assembly out to expose the mainboard. Locate the memory sockets (Figure 2-7).
4. Gently pull the two latches outward on both ends of the module. The module will pop up (Figure 2-9).
5. Remove the memory module.
6. Reinstall the keyboard assembly.

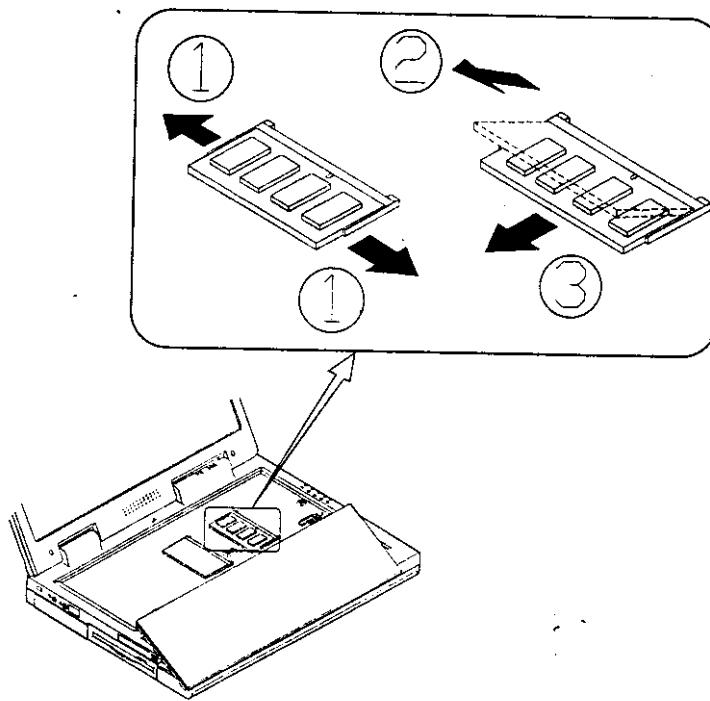


Figure 2-9

Using Hard Disk Drive

The hard disk drive is mounted in a removable case and can be taken out to accommodate other 2.5" IDE hard disk drives with a height of 12.7mm. The system supports PIO mode 4, Master mode IDE, LBA mode and provides a high performance data transfer rate at speeds up to 33 MBytes/second (ATA-33).

Removing

1. Turn the system power off.
2. Turn the computer over.
3. Locate the Hard Disk Drive latch.
4. Press the latch in the indicated direction and take the hard disk drive out of the computer (Figure 2-10).

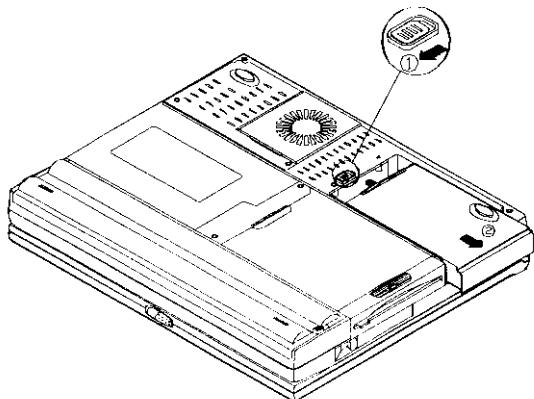


Figure 2-10

Note:

When inserting the hard disk drive, Insert it firmly into the computer. Make sure you feel the drive click into the position when it is seated properly.

Replacing Hard Disk Drive

The hard disk drive is contained in a case. To take the hard disk drive out of the case and replace with another one, you need to remove the two screws on each side of the case (Figure 2-11). The location of the two screws may be varied depending on different types of hard disk model. Gently disconnect the cable from the hard disk drive when taking it out of the case. Be careful not to bend any pins or crimp the cable.

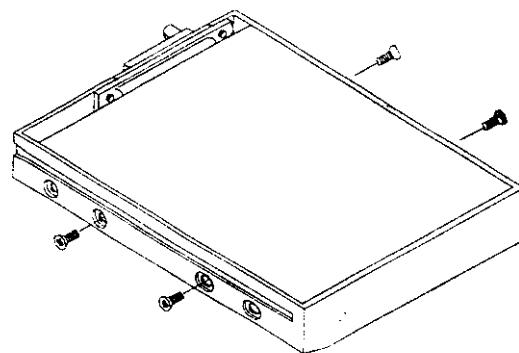


Figure 2-11

□ Using Floppy Disk Drive

The computer is equipped with a removable 1.44MB, 3.5" floppy disk drive module. It is usually designated as drive A: by default and can be used as a boot device if properly set in SCU (please refer to Chapter 3: BIOS Utilities). You may replace the floppy disk drive module with a 120MB LS-120 drive (of 12.7mm high). Contact your dealer for the detail.

Inserting/Removing Diskettes

When using the floppy drive, always insert your floppy diskette label-side up (Figure 2-12). To remove your diskette, press the eject button on the top-right corner of the floppy drive.

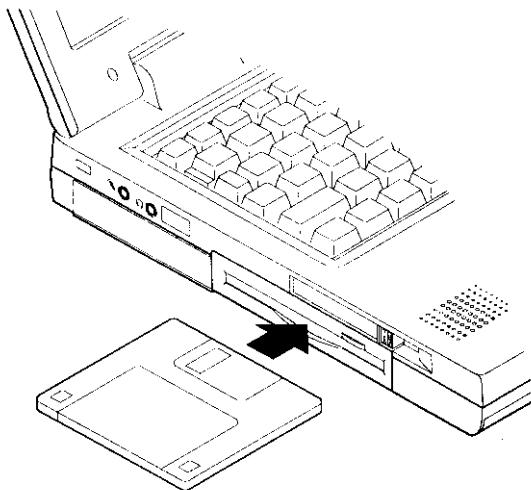


Figure 2-12

Replacing Floppy Disk Drive

Note:

Before replacing floppy disk drive and CD-ROM module, you need to remove the cover between the two modules.

1. Turn the system power off.
2. Turn the computer over.
3. Locate the cover between the floppy disk drive and the CD-ROM module.
4. Remove the two screws to release the cover (Figure 2-13).
5. Locate the floppy disk drive latch.
6. Push the latch in the indicated direction and pull the floppy disk drive module out of the tray (Figure 2-14).
7. Insert the replacement module into the bay.

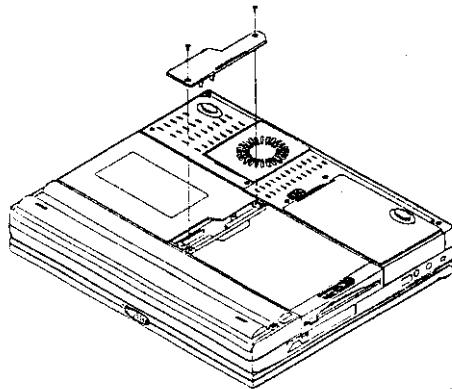


Figure 2-13

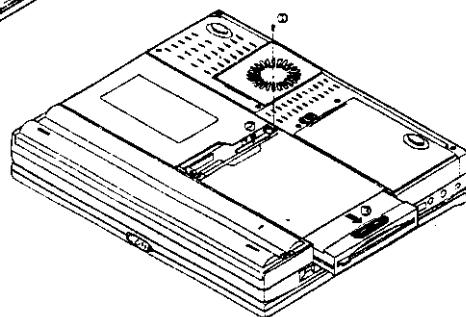


Figure 2-14

Using CD-ROM

The notebook computer comes standard with a removable 5.25" CD-ROM module. It is labeled drive D: and may be used as a boot device if properly set.

To insert a CD, press the **Eject Button** and place the CD into the **Disc Tray** with label-side facing up. Push the CD tray in and you are ready to start. The **Busy Indicator** will light up while data is being accessed or while an audio CD is playing. When the power is unexpectedly interrupted, insert an instrument such as a straightened paper clip into the **Emergency Eject Hole** to eject the tray (Figure 2-15).

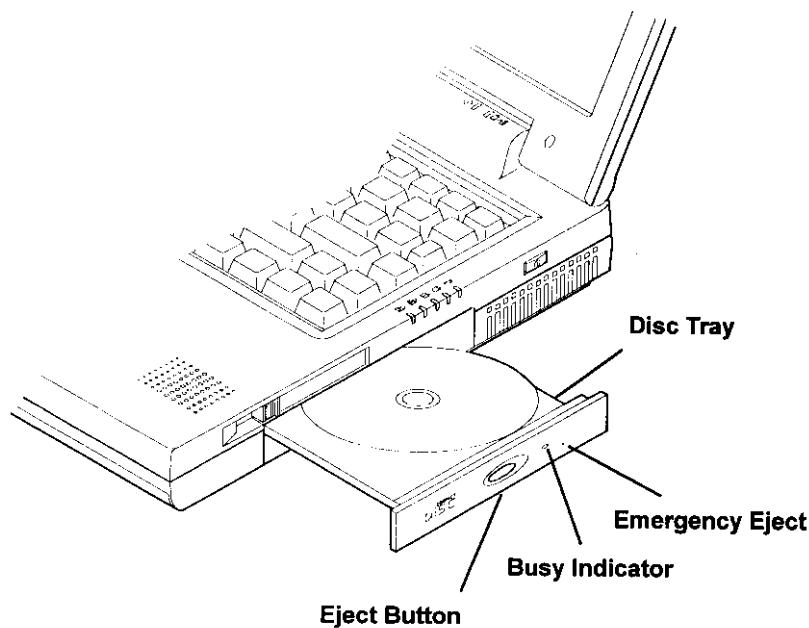


Figure 2-15

Removing CD-ROM Module

Note:

Before replacing floppy disk drive and CD-ROM module, you need to remove the cover between the two modules.

1. Turn the system power off.
2. Turn the computer over.
3. Locate the cover between the floppy disk drive and the CD-ROM module.
4. Remove the two screws to release the cover (Figure 2-13).
5. Locate the CD-ROM latch.
6. Push the latch in the indicated direction and pull the CD-ROM module out of the tray (Figure 2-16).
7. Insert the replacement module into the bay.

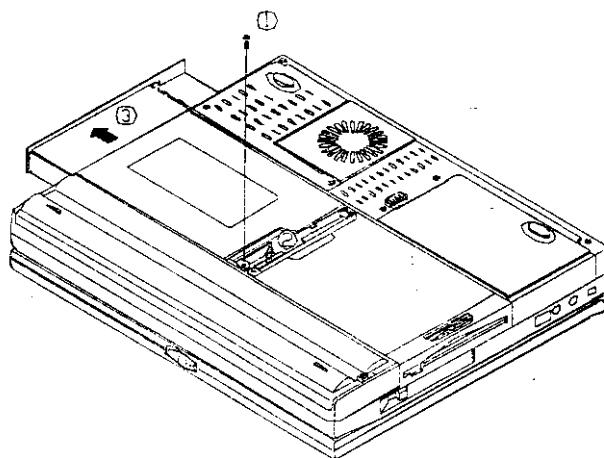


Figure 2-16

Loading Compact Discs

1. Turn on the power.
2. Press the CD-ROM eject button; the disc tray will pop out partially.
3. Pull the disc tray out.
4. Carefully load the CD into the disc tray with label-side facing up. Press it gently to ensure it fits into the place (Figure 2-17).
5. Push the tray into the computer.

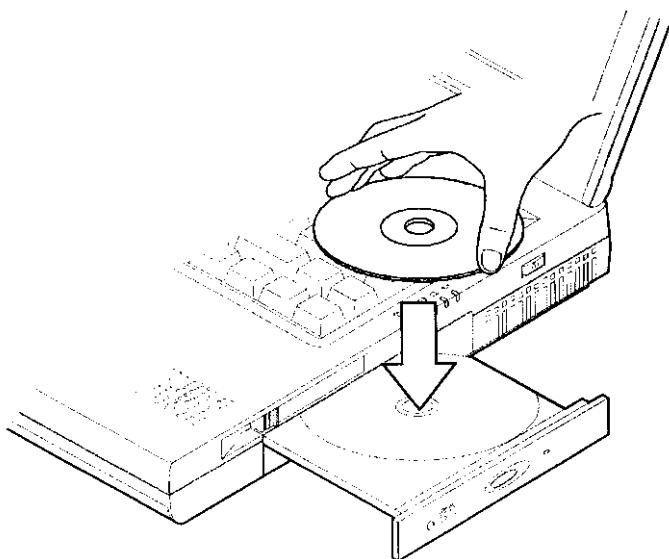


Figure 2-17

Handling Compact Discs

Proper handling of your CDs will prevent them from being damaged and ensure the accessibility of data stored in them.

- μ Hold the CD by the edges; do not touch the surface of the disc.
- μ Use clean, soft, and dry cloth to remove dust or fingerprints.
- μ Do not use pen to write on the surface.
- μ Do not attach any paper or other materials to the surface of the disk.
- μ Do not store or place the CD in the high-temperature areas.
- μ Do not use benzine, thinners, or other cleaners to clean the CD.
- μ Do not bend the compact disc.
- μ Do not drop or subject the CDs to shock.

Using PC Card Sockets

The computer is equipped with two PC card sockets (previously referred to as PCMCIA). Both sockets support two 3.3V/5V typeII PC cards or two 3.3V CardBus cards

The PC card sockets are located on the computer's right side and left side. The socket on left side is named socket A which supports Zoom Video Port.

Inserting PC Cards

1. Open the access door
2. Align the PC card with the slot and push it in firmly until it locks into the place (Figure 2-18 & 2-19).

Removing PC Cards

To remove a PC card, press the appropriate eject button to eject the card from its slot.

Figure 2-18

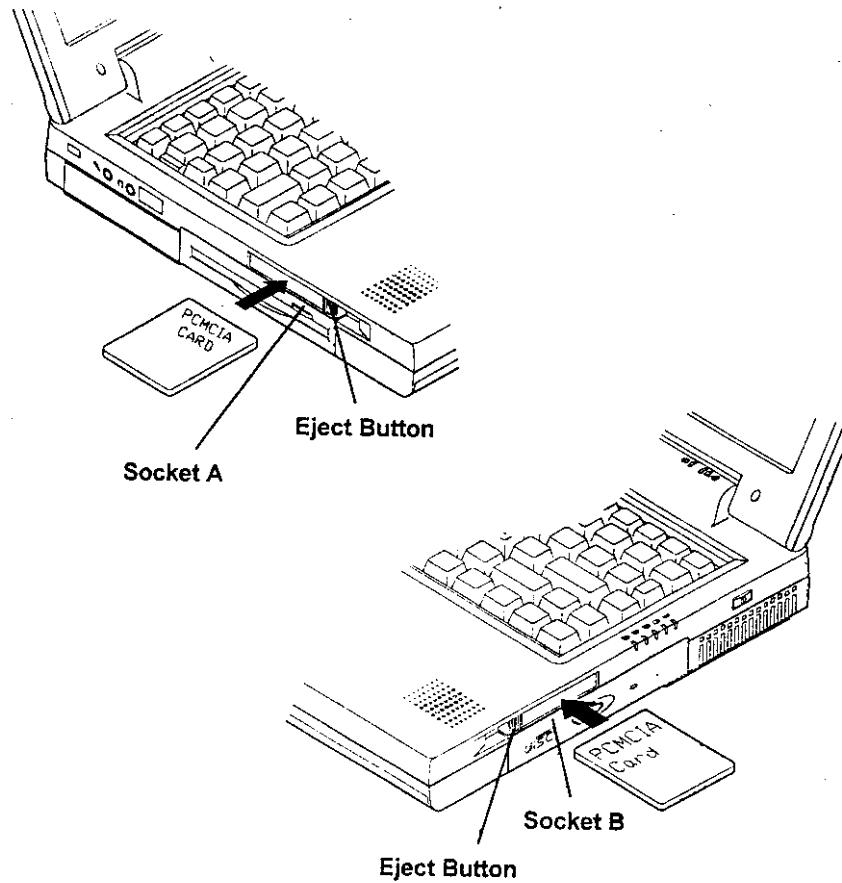


Figure 2-19

□ Using Hot Keys

Located on the bottom-left edge of the keyboard layout is a colored Fn key. The Fn key function allows you to change operational features instantly. When you use the following functions, press and hold the Fn key; then press the appropriate function key (Figure 2-20).

Hot Keys	System Features
Fn + F3	Expand LCD display.
Fn + F4	Control display top/center position.
Fn + F6	Toggle CRT/LCD/LCD+CRT/
Fn + F9	Decrease LCD brightness.
Fn + F10	Increase LCD brightness.
Fn + F11	Decrease audio volume.
Fn + F12	Increase audio volume.
Fn + Z	Turn audio mute on/off.
Fn + Esc	Put the system in a suspend state for power management.

User's Manual

Windows 95 Special Keys

The keyboard provides two keys that have special functions in Windows 95:



This key has the same functions as the secondary mouse does.



This key activates the Windows 95 Start menu.

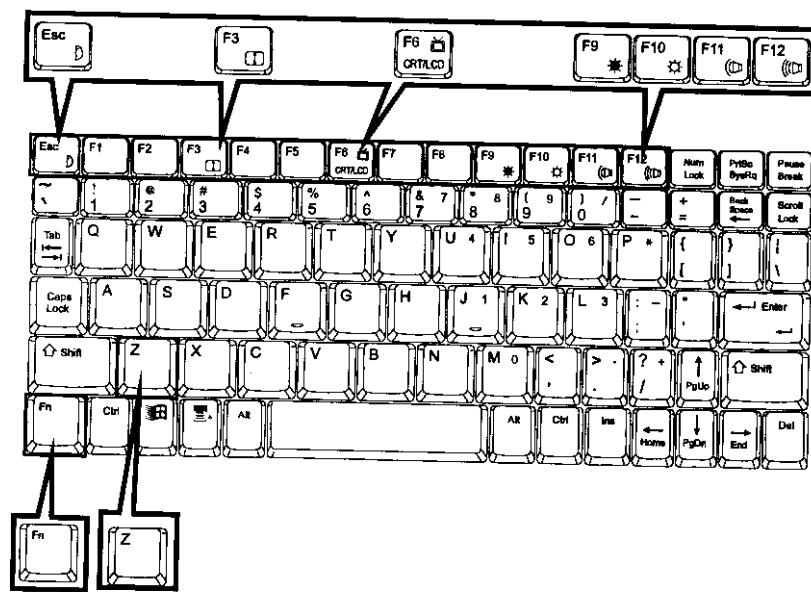


Figure 2-20

□ Using Numeric Keypad

The computer features a 102-key keyboard with an integrated numeric keypad for easy numeric data input (Figure 2-21).

Figure 2-21

Using Power Management

The system provides you with various modes to manage its power consumption while maintaining system performance. Please refer to Chapter 3: BIOS Utilities, System Configuration Utility, Power Menu for more information.

Advanced Power Management (APM 1.2)

The system provides built-in Advanced Power Management (APM 1.2) support to reduce power consumption. APM function varies depending on the operation system you are using. Some operation systems do not support APM, such as Windows NT, and therefore, cannot take advantage of the system's capabilities in this area.

Advanced Configuration and Power Interface (ACPI)

The ACPI interface gives the operation system (OS) direct control over the power management and Plug and Play functions of a computer. The operation system can perform the functions covered by the ACPI specification, such as system power management, device power management, and thermal management.

Global Standby

In Global Standby mode, the CPU clock will be stopped and most controllable peripheral devices will be power off. If the idle timer expires before any system activity is detected, the system will change from Standby mode into Suspend mode.

Hard Disk Standby

The system will turn off the computer's hard disk drive motor if it has not been accessed after a specified period of time. The motor will be turned back on if the system attempts to read or write data to it.

Suspend and Resume

When at extremely low power, you can enter suspend mode to save power. In suspend mode, all tasks are stopped and stored in memory to save power. The system features two levels of suspend mode: Powered-On-Suspend (POS) mode and Suspend-To-Disk (STD) mode.

Another useful feature is resume mode. This feature allows you to turn the computer's power off without exiting your software application. When you turn the power on again, you can resume work where you left off, because the screen display is restored as you left it. This saves time and battery power.

Caution: Do not enter suspend mode when you are

- 1. Accessing any of the disk drives, such as HDD, FDD or CD-ROM drives.*
- 2. Using the audio features or playing back video.*
- 3. Playing a DOS game.*

Powered On Suspend (POS)

Of the suspend modes, Powered-On-Suspend saves the least amount of power. However, it takes the shortest time to return to full operation.

Resume from POS Mode

The system can resume from Powered-On-Suspend mode by:

- Alarm resume (month/day/hour/minute)
- Modem ring
- Pressing any keyboard key.
- Pressing the power button (if configured as Suspend/Resume function under SCU)
- Opening the display lid (only if the suspend mode is initiated by closing the display lid)

Suspend To Disk (STD)

Suspend to Disk is a 0-volt suspend mode for system power management. STD mode saves the maximum power but takes the longest time to return to full operation.

1. Use your operation system's FDISK program to delete all partitions of the hard disk if any already exist on the target drive.
2. Boot the system and run the 0VMAKFIL.EXE Utility to create the Suspend to Disk partition on the hard disk. The size of Suspend to Disk partition will be the installed DRAM (n) plus 4MB integrated video RAM.

:>0VMAKFIL -Pn

For example, if the system DRAM is 32MB, 0VMAKFIL will create a partition size of approximately 36MB.

:>0VMAKFIL -P32

Resume from STD Mode

The system will resume from Suspend-To-Disk mode by:

- Power back on
- Alarm resume (month/day/hour/minute)

Suspend To RAM (STR)

Suspend-To-RAM mode is the medium level of system power management.

Resume from STR Mode

The system will resume from Suspend-To RAM mode by:

- Alarm resume (month/day/hour/minute)
- Modem ring
- Pressing the power button (if configured as Suspend/Resume function under SCU)
- Opening the display lid (only if the suspend mode is initiated by closing the display lid)

■ Attaching Peripheral Devices

To extend the computer's functions, you can attach the following peripheral devices to the computer through the ports or jacks on the rear panel of computer.

Attaching a Security Lock

The security lock is equipped to protect your computer from being stolen. To install the security lock, wrap the cable around a desk or other immovable object, then insert the locking device into the connector (Figure 2-22).

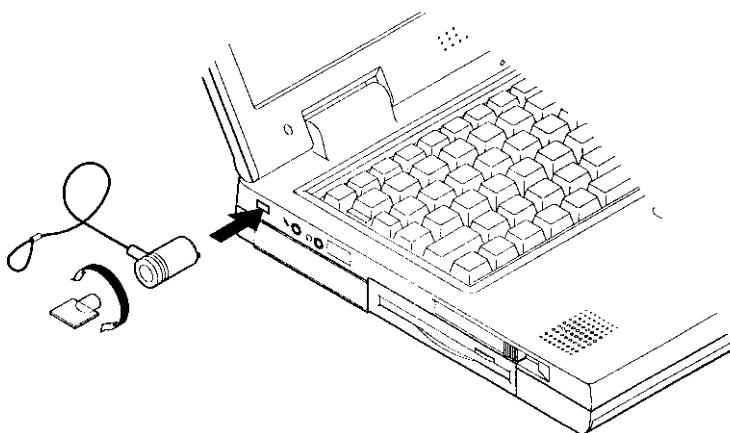


Figure 2-22

Attaching a Parallel Printer

You may connect any standard Centronics parallel printer to your computer through the parallel port.

1. Turn the system power off.
2. Connect the cable to the parallel port on the rear of the computer.
3. Tighten the screws that fasten the cable to the parallel port (Figure 2-23).
4. Insert the other end of the cable to the printer's connector. Fasten the cable's connector.
5. Turn on the printer and computer.

In addition, you also need to install the manufacturer-supplied driver for the printer. Refer to the device's user's guide for more information. If the connected printer supports EPP (Enhanced Parallel Port) or ECP (Extended Capabilities Port) mode, please enter System Configuration Utility (SCU) to configure the required setting.

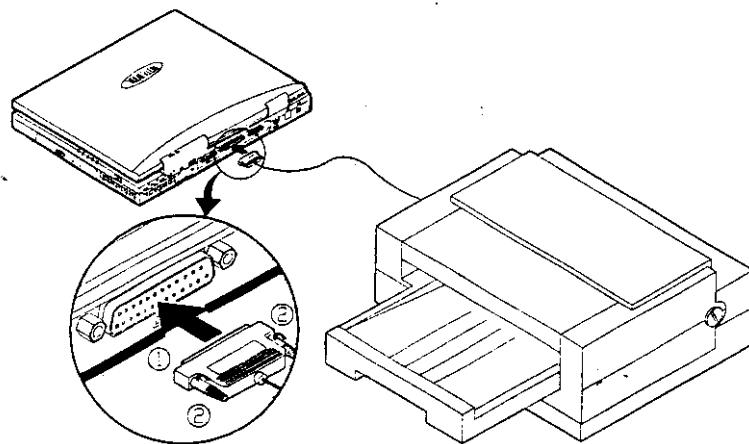


Figure 2-23

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Attaching a USB-compatible Device

The computer provides a USB port for the connection of a USB-compatible keyboard, mouse, or other devices. Attach the device as shown below (Figure 2-25).

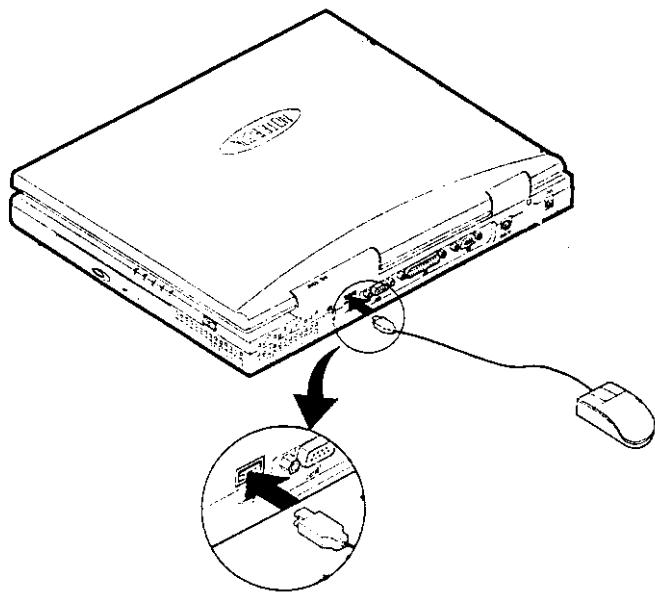


Figure 2-25

Attaching a Serial Mouse

The serial port features a 9-pin connector. You can connect any serial device such as a mouse to this port.

1. Turn the system power off.
2. Connect the cable to the serial port on the rear of the computer.
3. Tighten the screws that fasten the cable to the serial port (Figure 2-26).
4. Turn on the computer.

In addition, you may need to install the manufacturer-supplied driver for the serial mouse. Refer to the device's user's guide for more information.

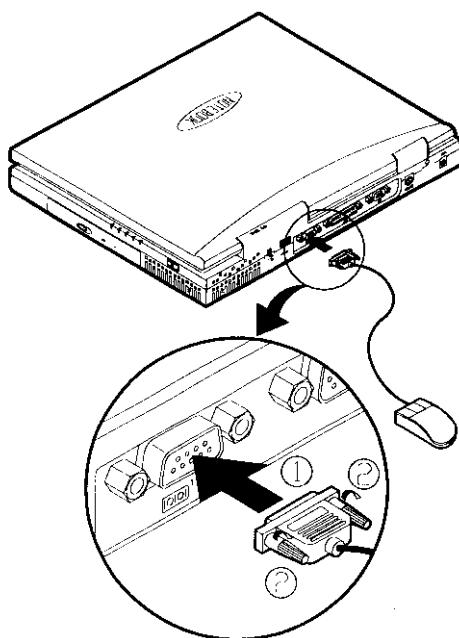


Figure 2-26

Attaching an External Monitor (CRT)

The computer is capable of displaying not only on the LCD, but also on the XGA compatible displays attached to the computer. Information can be displayed on both the LCD and the external monitor simultaneously. Enter the System Configuration Utility (SCU) to select the appropriate parameters or use the Fn + F6 keys (refer to Chapter 2, Using Hot Keys).

1. Turn the system power off.
2. Connect the cable to the CRT port on the rear of the computer.
3. Tighten the screws that fasten the cable to the CRT port (Figure 2-27).
4. Insert the other end of the cable to the external monitor.
5. Turn on the computer.

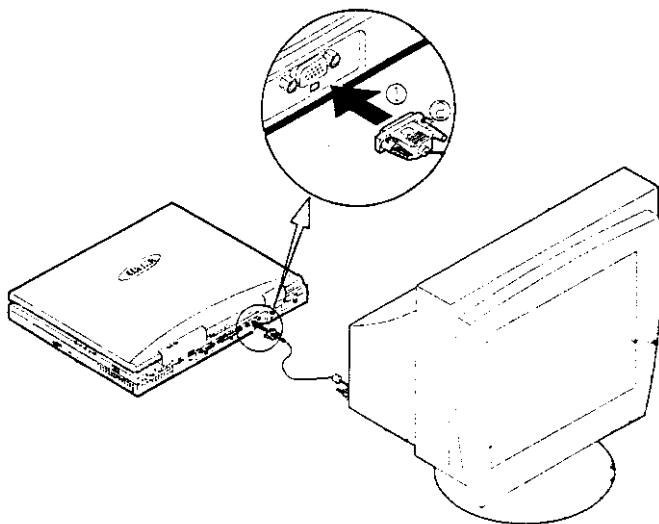


Figure 2-27

Attaching a PS/2 Keyboard or Mouse

The computer can be operated with a PS/2 keyboard or mouse attached by means of the PS/2 transfer cable. Attach the external keyboard or mouse as shown below (Figure 2-28).

Both PS/2 type ports on the rear panel of the computer can be used for the connection of a PS/2 keyboard and mouse.

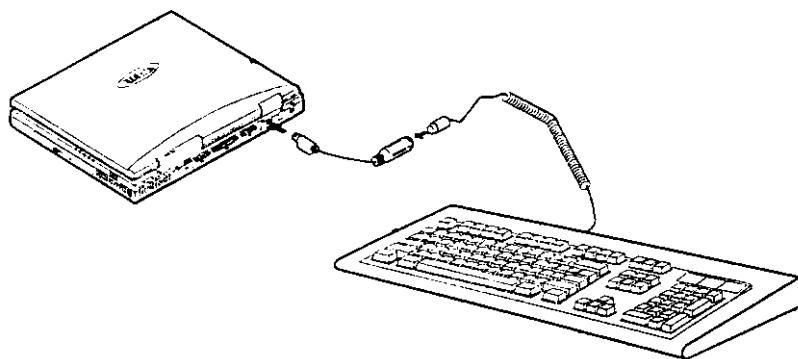


Figure 2-28

Chapter 3 : BIOS Utilities

This chapter provides you with the information of Power On Self Test (POST) and shows you how to configure the system parameters using the System Configuration Utility (SCU).

- ❑ Power on Self Test (POST)
 - POST Message: Normal Operation
 - POST Message: Error Detected
- ❑ System Configuration Utility (SCU)
 - Information in the SCU
 - Initiating the SCU
 - Working with the Menu Bar of the SCU
 - Working with the Pull-Down Menu of the SCU
 - Features of the SCU
 - Startup Menu
 - Memory Menu
 - Disks Menu
 - Components Menu
 - Power Menu
 - Exit Menu

■ Power on Self Test (POST)

The system BIOS (Basic Input/Output System) performs a series of Power On Self Test (POST) on system memory and key computer components every time the computer is turned on. If an error exists, the POST routine may halt execution (depending on the problem). If no error exists, the POST will initializes BIOS configuration, then boots the operating system.

POST Message: Normal Operation

You will see the following message if no error exists after the POST is performed.

SystemSoft BIOS MobilePRO BIOS Version 1.01 (2482-00)-(R1.00.tr02)
Copyright 1983-1996 SystemSoft Corp. All Rights Reserved

300 MHz Celeron with MMX CPU
L2 Cache: 128KB Installed
4 MB Video RAM
SystemSoft Plug-n-Play BIOS ver1.17.01

Base Memory 000640 Kb
Extended Memory 130048 Kb
Total Memory 131072 Kb

Auto Detecting IDE Devices[Done]
<CTRL-ALT-S> to enter System Configuration Utility

Note:

You may press the **Spacebar** key to skip the memory test.

POST Message: Error Detected

If an error is detected, you will see the following WARNING message. You may press F1 key to continue, or press the Ctrl-Alt-S keys simultaneously to enter the System Configuration Utility.

SystemSoft BIOS MobilePRO BIOS Version 1.01 (2482-00)-(R1.00.tr02)
Copyright 1983-1996 SystemSoft Corp. All Rights Reserved

300 MHz Celeron with MMX CPU
L2 Cache: 128KB Installed
4 MB Video RAM
SystemSoft Plug-n-Play BIOS ver1.17.01

Base Memory 000640 Kb
Extended Memory 130048 Kb
Total Memory 131072 Kb

WARNING – HARD DISK CONTROLLER 1 FAILURE
Auto Detecting IDE Devices[Done]

<CTRL-ALT-S> to enter System Configuration Utility
Press F1 to Continue

System Configuration Utility

The System Configuration Utility (SCU) is a ROM-based configuration utility that displays the system's configuration status and provides users with a tool to set their system parameters. The settings are stored in non-volatile battery-backed CMOS RAM which saves the information even when the power is turned off, and retains it when the system is turned on again.

Information in the System Configuration Utility

The following shows the system settings that may be changed within the System Configuration Utility.

Menu Bar Items	Pull-down Menu Items
Startup	Date and Time, Fast Boot, Boot Device, Display, Enable Battery Low Beep, Enable LCD expand Mode, Enable Power On Beep, Boot Password, SCU Password.
Memory	Cache Systems.
Disks	Enable LS120/ZIP 100 Drive, Diskette Drives, IDE Settings.
Components	COM Ports, LPT Port, PS/2 Mouse Port, Microsoft IntelliMouse Support, Keyboard Numlock, Keyboard Repeat,
Power	Enable Power Saving, Low Power Saving, Medium Power Saving, High Power Saving, Customize, Suspend Controls, Resume Timer, Enable MODEM Ring Resume, Enable Battery Low Suspend, Advance CPU Controls.
Exit	Save and Exit, Exit (No Save), Default Settings, Restore Settings, Version Info.

Initiating the System Configuration Utility

The System Configuration Utility (SCU) can be accessed when pressing the **Ctrl**, **Alt**, and **S** keys simultaneously.

<CTRL-ALT-S> to enter System Configuration Utility

The above message only lasts seconds. If you miss it, the computer will initiate the boot process. You must reboot the system and try again within the time limit if you want to enter the System Configuration Utility.

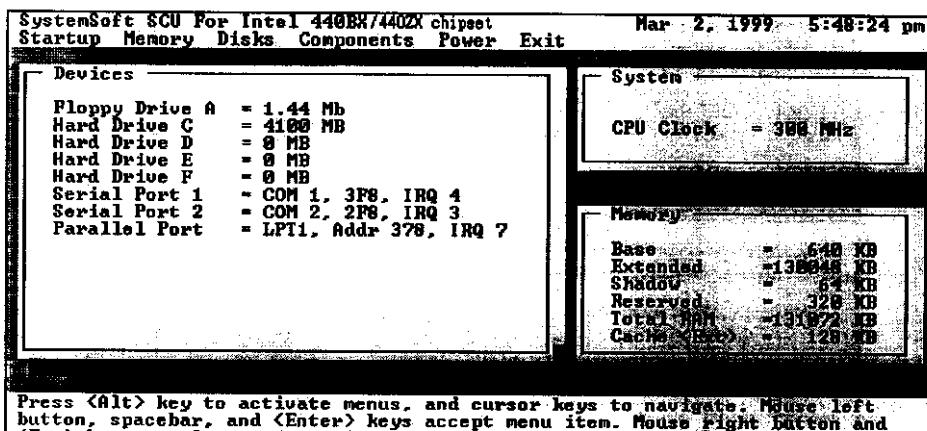


Figure 3-1
System Configuration Utility (SCU)

Working with the Menu Bar

After entering the SCU, you may use the following keys to work with the menu bar.

Keys	Action	Description
Alt	Activate menus	Activate the System Configuration Utility.
Left arrow (←)	Select menu bar item.	Move to a menu bar item on the left.
Right arrow (→)		Move to a menu bar item on the right.
The highlighted letter key		Move to the corresponding menu bar item.
Mouse left button Spacebar Enter	Accept menu bar item	Enter the selected menu bar item to configure settings.
Mouse right button Esc	Cancel current action	Undo the current command.

Working with the Pull-down Menu

- When the desired menu bar item is highlighted, press the **Enter** key to enter the pull-down menu for values setting. You may use the following keys to work with the pull-down menu.

Keys	Action	Description
Down arrow (↓)	Select pull-down menu item.	Move to the next pull-down menu item.
Up arrow (↑)		Move to the previous pull-down menu item.
The highlighted letter key		Move to the corresponding pull-down menu item.
Tab	Select a control	Move between the options.
Down/Up arrows (↓)(↑)	Change values	Modify the settings.
Spacebar	Accept entries	Enable/disable the specified function. When a check mark (✓) appears, the function is on.
Enter		Choose <OK> from a list of options.
Esc	Reject entries	Undo the current setting.
Enter		Choose <Cancel> from a list of options.
Alt	Activate accelerators	Initiate all the highlighted letters corresponding to their respective options.
Esc	Quit	Press the Esc key to close the pull-down menu.

Features of the System Configuration Utility

Startup Menu

Item	Setting/Option	Function
Date and Time	Day/Month/Year Hour/Minute/Second	Set the current date and time.
Fast Boot	Enable	Initialize and quickly boot the system in a few seconds by skipping certain diagnostic tests.
	Disable	Disable the above.
Boot Device	Diskette A	Specify where the system boots from.
	Hard Disk C	
	CD-ROM Drive	
Display	LCD	Activate the system's LCD panel.
	CRT	Activate an external monitor.
	LCD + CRT	Activate both the LCD and the CRT.
Enable Battery Low Beep	Enable	The system emits a series of warning beeps sound when the battery power becomes low.
	Disable	Disable the above.
Enable LCD Expand Mode	Enable	Stretch the display to fill the entire viewing area of the LCD panel.
	Disable	Disable the above.

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Memory Menu

Item	Setting/Option	Function
Cache Systems	L1 Cache	Disabled Disable the processor's internal cache.
		Write Back Enable the Processor's internal write-back cache.
	L2 Cache	Disabled Disable the L2 cache controller.
		Write Back Enable the LS write-back cache.
	BIOS Shadow	Cached The process of <i>shadowing</i> copies instructions from system BIOS into RAM to improve system performance.
		Not Cached Disable the above.
Video Shadow	Cached	The process of <i>shadowing</i> copies instructions from video BIOS into RAM to improve system performance.
	Not Cached	Disable the above.

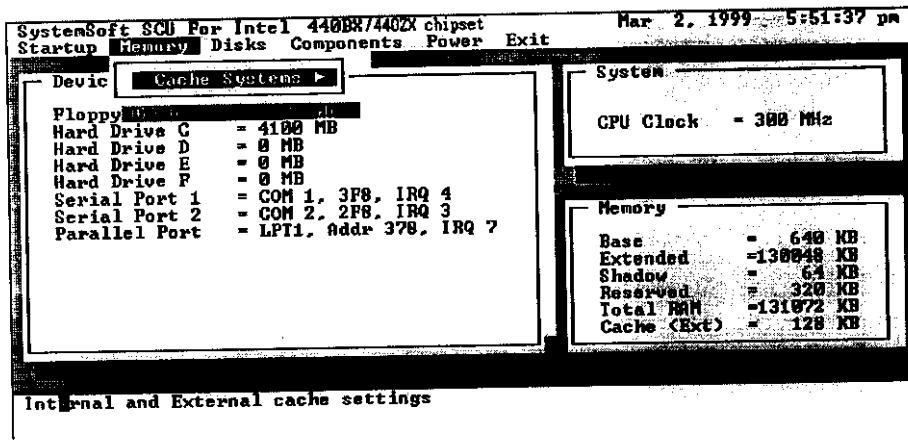


Figure 3-3
Memory Menu

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Components Menu

Item	Setting/Option		Function
COM Ports	COM A I/O Settings	None	Specify the COM A configuration. (COM3 & COM4 Only for DOS mode and Non-PnP OS.)
		COM1, 3F8, IRQ4	
		COM2, 2F8, IRQ3	
		COM3, 3E8, IRQ10	
		COM4, 2E8, IRQ11	
	COM B I/O Settings	None	Specify the COM B configuration. (COM3 & COM4 Only for DOS mode and Non-PnP OS.)
		COM1, 3F8, IRQ4	
		COM2, 2F8, IRQ3	
		COM3, 3E8, IRQ10	
		COM4, 2E8, IRQ11	
	Mode Setting for COM B	Normal (16550)	Define the COM B hardware.
		IrDA (HPSIR)	
		ASK IR	
		FAST IR	
	DMA Setting for Fast IR	DMA 0	Specify the Fast IR DMA configuration.
		DMA 1	
		DMA 3	
LPT Port	Port Address	None	Specify the LPT port and IRQ configuration.
		LPT1, Addr 378, IRQ7	
		LPT2, Addr 278, IRQ5	
		LPT3, Addr 3BC, IRQ7	
	Port Definition	Standard AT (Centronics)	
		Bidirectional (PS-2)	
		Enhanced Parallel (EPP)	
		Extended Capabilities (ECP)	
	DMA Setting For ECP Mode	DMA 1	Specify the ECP DMA configuration.
		DMA 3	
	EPP Type	EPP 1.9	Specify the EPP type.

Item	Setting/Option		Function	
PS/2 Mouse Port	Enable		Enable the system's trackpad or an external PS/2 mouse.	
	Disable		Disable the trackpad or PS/2 mouse if an external mouse is connected to COM A port.	
Microsoft Intellimouse Support	Enable		Support PS/2 mouse with the wheel button.	
	Disable		Do not support PS/2 mouse with the wheel button.	
Keyboard Numlock	Enable		Specify whether Num Lock is on or off at system boot time.	
	Disable			
Keyboard Repeat	Key Repeat Rate	2 cps	Define the rate (characters per second) at which the keyboard repeats while a key is depressed.	
		6 cps		
		10 cps		
		15 cps		
		20 cps		
		30 cps		
	Key Delay	1/4 sec	Specify the amount of time (second) that will pass after a key is depressed before the key starts to repeat.	
		1/2 sec		
		3/4 sec		
		1 sec		

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Power Menu

Item	Setting/Option	Function
Enable Power Saving	Enable Disable	Enable/Disable all power saving features.
Low Power Saving	Enable	Enable/Disable the power saving to its lowest which results in max. performance but shortest battery life.
	Disable	
Medium Power Saving	Enable	Enable/Disable the power saving to its medium which results in both moderate performance and battery life.
	Disable	
High Power Saving	Enable	Enable/Disable the power saving to its highest which results in min. performance but longest battery life.
	Disable	
Customize	Disk Standby	5 sec
		10 sec
		15 sec
		20 sec
		30 sec
		Always on
	Global Timeout	1 min
		2 min
		4 min
		6 min
		8 min
		12 min
		16 min
		Always on

Item	Setting/Option	Function	
Suspend Controls	Power Button Function	Power On/Off	The power button is switched to turn the system on or off.
		Suspend/Resume	The power button acts as a suspend/resume button for switching the system between a working state and the suspend mode.
			Pressing the power button for more than four seconds will generate a power button over-ride event to switch the system from a working state to the Soft-Off state.
	Suspend Type	Suspend to Disk	Specify the suspend mode for power management.
		Suspend to RAM	
		Powered on Suspend	
Resume Timer	Alarm Resume	1 min	If the system has been idle for the specified period, the system will enter user-defined suspend.
		5 min	
		10 min	
		20 min	
		30 min	
		Never	
		Enable	Resume the system from the configured suspend mode when resume alarm timer expires.
		Disable	
	Resume Month/Day/Hour/Minute		The system will resume at the specified time (month, day, hour and minute).

Item	Setting/Option		Function
Enable MODEM Ring Resume	Enable		Resume the system from STR or POS mode when a modem ring is detected (which modem should be connected to the serial port).
	Disable		Disable the above.
Enable Battery Low Suspend	Enable		Automatically suspend the system to disk upon a low battery condition.
	Disable		Disable the above.
Advance CPU Controls	Clock Control Mechanism	Full Mode	Specify the type of Processor Clock Control.
		Doze Mode	

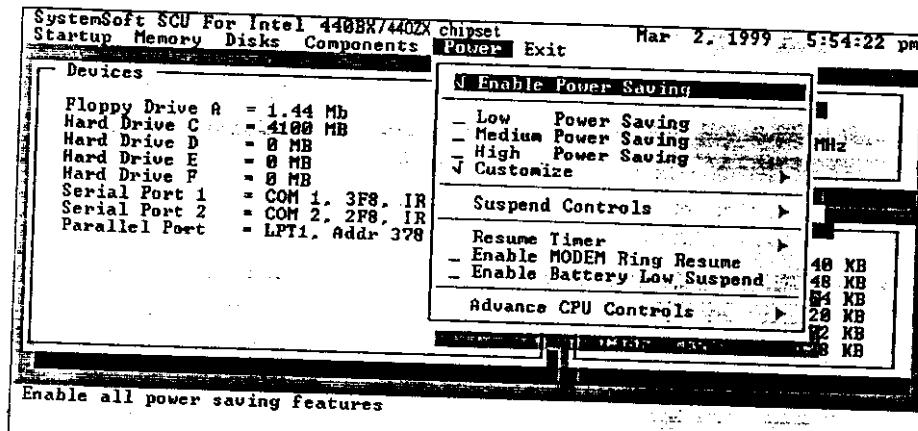


Figure 3-6
 Power Menu

Exit Menu

Item	Function
Save and Exit	Save the current settings and reboot the system.
Exit (No Save)	Exit without saving any current changes.
Default Settings	Restore the default settings (the original ones found in ROM).
Restore Settings	Restore the current setup settings to the original custom ones.
Version Info	Show current BIOS version information.

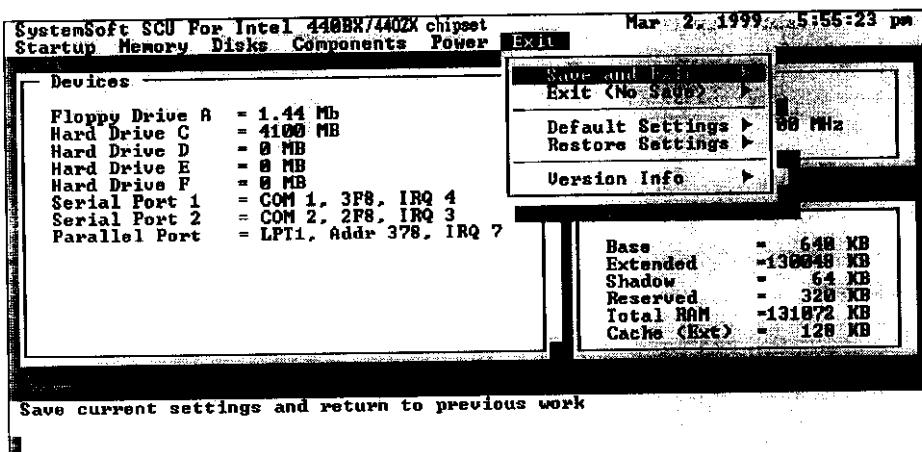


Figure 3-7
Exit Menu

Chapter 4 : Troubleshooting

Sometimes your computer has some problems. Before you consult the computer vendor, you can try to solve problems yourself. This chapter provides you with a list of some commonly experienced problems and their possible solutions.

- Battery
- Power
- Hard Disk Drive
- Floppy Disk Drive
- Hardware Installation
- LCD Panel
- Memory Module
- PC Card
- Boot Password
- Audio
- CD
- Printer

Battery

Problem: *The battery pack can not be charged.*

Solution 1: The battery pack is exposed to excessively hot and cold environment. Let it restore to normal condition before you use it.

Solution 2: The power might be used up.

Problem: *The battery pack can not be charged and the charge indicator turns off.*

Solution 1: The battery has been fully charged.

Solution 2: The battery pack is exposed to excessively hot or cold environment. Let it restore to normal condition before you use it.

Solution 3: The power is used up.

Problem: *The beep sound is heard and the low-battery indicator turns on.*

Solution: The computer is in low-battery status. Please connect your computer with AC adapter, or press Fn + Esc key combination to enter suspend mode.

Problem: *The beep sound isn't heard whereas the low-battery indicator turns on, or the gauge indicates power is less than 10%.*

Solution: The computer is in low battery status. Please adjust the volume control and connect the computer with AC adapter.

Problem: *The actual battery operation time is shorter than expected.*

Solution 1: The battery is exposed to excessively high or low temperature. The ideal temperature for battery operation is between 50°F and 95°F (10°C and 35°C) whereas keeping is between 32°F and 113°F (0°C and 45°C).

Solution 2: The battery has released some power. Please recharge it.

Solution 3: The power management has been turned off.

Solution 4: Some peripheral device or PC card is consuming power.

Turn off the unused device to save power.

Solution 5: The battery has been given a partial charge. When charging, always fully charge after fully discharge.

Power

Problem: *The computer can not boot when the battery pack is not inserted.*

Solution 1: The power cord is not correctly connected with AC adapter. Make sure the power cord is firmly plugged into grounded outlet and computer.

Solution 2: The grounded outlet is not in normal operation. Check the outlet's function or use other outlet.

Problem: *The system has automatically entered suspend mode.*

Solution 1: The system's temperature is too high. Let it cool before you use it.

Solution 2: The system has entered suspend mode after a specified period of time. Please press any key or touch the trackpad to wake up the computer.

Hard Disk Drive

Problem: *The message "Nonsystem disk" appears.*

Solution: The computer is trying to boot from the floppy including no software. Please take the floppy out and restart the computer.

Problem: *It needs a longer time to read the hard disk drive after restarting the computer.*

Solution 1: The data saved on hard disk drive may be lost. Please operate the "disk defragmenter" to check the lost unit.

Solution 2: As in low battery status, the computer is waking up from the suspend mode.

Floppy Disk Drive

Problem: *The floppy disk drive can not write data to disk.*

Solution 1: The floppy is not formatted.

Solution 2: The floppy is write-protected. Please cancel the protection.

Solution 3: The data is written to incorrect disk drive.

Solution 4: The space left on disk is not enough. Please use a new disk or delete the unneeded data.

Problem: *The disk drive can not read the disk.*

Solution 1: The disk is not formatted.

Solution 2: The disk is damaged.

Solution 3: An incorrect disk type is used.

Hardware Installation

Problem: *The computer can not recognize the device as part of the system.*

Solution 1: The power switch of new device is not turned on. Please turn on the power switch, then restart the computer.

Solution 2: You do not rearrange the computer after the device is installed.

Solution 3: The power cord or the connector between device and computer is plugged out. Please make sure the device is firmly connected with the computer.

Solution 4: You do not follow the system configuration as the computer suggested. Please follow the suggestion.

LCD Panel

Problem: *The font is too dark.*

Solution: The brightness or contrast is not correctly set. Please press Fn+F7 or Fn+F8 key combination (only limited to DSTN panel) to adjust the contrast control, and use Fn+F9 or Fn+F10 to adjust the brightness control.

Problem: *The screen is blank.*

Solution 1: The panel blank application might be set.

Solution 2: The system operates the screen saver after a specified period of time. Please press any key or touch the trackpad.

Solution 3: The brightness or contrast needs to be adjusted. Please press Fn+F7 or Fn+F8 key combination (only limited to DSTN panel) to adjust the contrast control, and use Fn+F9 or Fn+F10 to adjust the brightness control.

Solution 4: The system has entered suspend mode. Please press any key or touch the trackpad to wake up the computer.

Problem: *The LCD panel displays incorrect font or blinks when the computer is connected with an external monitor.*

Solution: The resolution you use for the monitor exceeds that the LCD panel can support whereas you have switched to the LCD panel. Please restart the computer.

Memory Module

Problem: *The computer can not boot.*

Solution: The incorrect type of memory module is installed.

Problem: *The memory capacity is not enough.*

Solution: The memory is not correctly configurated for the application.

Problem: *The detected memory capacity is not correct.*

Solution: Some memory module is not correctly installed or not compatible with your computer.

Problem: *The message "out of memory" is displayed.*

Solution: The memory configuration is not correctly set or the memory is not enough to run the application.

Problem: *The message "insufficient memory" is displayed.*

Solution: The application can not be operated as the memory is used up.

PC Card

Problem: *The PC card can not be configured.*

Solution: The PC card is not supported.

Problem: *The system can not recognize the PC card.*

Solution 1: The PC card is not inserted into the socket or reversely inserted.

Solution 2: The PC card driver is not installed.

Solution 3: The PC card or card driver is not compatible with the computer.

Problem: *The beep sound is not heard while the PC card is inserted.*

Solution: The beep sound control is closed.

Boot Password

Problem: *You forget the ~~boot~~ password.*

Solution: While forgetting the password, you must unpack the computer and delete the memory. Please ask the vendor for help

Audio

Problem: *The audio speaker can not be heard.*

Solution: The volume might be set too low. Please check your volume control.

Problem: *The volume is too high (or too low).*

Solution: The volume is not correctly set. Please check your volume control.

Problem: *The headphone can not be heard.*

Solution 1: The volume is not correctly set. Please check the volume control.

Solution 2: The volume source is not chosen.

Solution 3: The headphone is plugged into the wrong jack.

CD

Problem: *The compact disk can not be exited.*

Solution: The compact disk is not correctly placed in the tray.

Problem: *The compact disk can not be read.*

Solution 1: The compact disk is not correctly placed in the tray.

Solution 2: The compact disk is dirty. Please clean it with a CD-ROM cleaner kit.

Problem: *The musical compact disk can be read while the data disk can not.*

Solution: The compact disk hardware for reading data needs to be checked.

Problem: *All compact disks can not be read.*

Solution 1: The Windows system can not recognize the CD-ROM drive or the CD-ROM drive is not compatible with other devices.

Solution 2: The compact disk is dirty. Please clean it with a CD-ROM cleaner kit.

Solution 3: The compact disk hardware for reading data needs to be checked.

Chapter 5 : Installing Drivers

This chapter provides users the step-by-step instructions of installing device drivers and utilities. Information has been designed to suit for the users who has the basic computer knowledge. However, the unexperienced users also can get good help from the instruction.

-  **Installing Windows 95**
-  **Installing Windows 98**
-  **Installing Drivers in Windows 95**
-  **Installing Drivers in Windows NT4.0**
-  **Installing Drivers in Windows 98**

Preparation for a New Notebook:

1. Use a bootable floppy disk to start the system.
2. Run FDISK utility from DOS to create a bootable partition.
(See DOS manual for the operation detail.)
3. Format hard disk. Follow the command "Format C:/S" to create a bootable hard disk and make the boot system file.
(C;/S copies system files to the formatted disk)
4. Run CDINST.COM program from the "CD-ROM Drive Installation Diskette" that will help you to install CD-ROM driver device automatically. See the driver manual for detail.
5. Restart the system.

 **Installing Windows 95**
(For Reference)

1. Start DOS.
2. Insert the Windows 95 CD-ROM.
3. Go to the "setup" directory, type "setup", then press [Enter].
4. After the Windows 95 setup program performs a routine check on your system, press [enter] to continue.
5. When the "Welcome to Windows 95 Setup" screen appears, click "Continue".
6. Click "Yes" on the "License Agreement" screen.
7. Click "Next" to select "Collecting Information About your PC".
8. Click "Next" to select the default of "C:\Windows", or enter a different directory.
9. On the screen of "Setup Options", select "Typical", then click "Next".
10. On the screen of "Certificate of Authenticity", enter the Product Identification Number, then click "Next".
11. On the screen of "User Information", enter your name and company.

then click "Next".

12. Select "Install The Most Common Components (recommended)", then click "Next".
13. On the screen of "Startup Disk", insert a blank diskette into the A drive to create a startup diskette.
14. The Setup Wizard is now copying files. After the copying is finished, remove the disk, then click "OK".
15. Click "Next" to start copying Windows 95 files to your computer.
16. Click "Finish" to restart Windows 95.
17. On the screen of "Set Up a Printer", click "Cancel".

Note:
Do not install a printer at this time. You will not be able to access the Windows 95 Installation CD until you reboot.

18. Click "OK" to restart the computer.

Installing Windows 98 (For Reference)

1. Start DOS.
2. Insert the Windows 98 CD-ROM.
3. Type "setup", then press [Enter].
4. Follow the instructions on the screen and choose the recommended option.
5. The Windows 98 setup program will check the hard disk drive automatically.
6. When the setup initializes, click "Continue".
7. Choose "License Agreement" to agree the contrast.
8. Click "Next" to type the product ID number.
9. Click "Next". The program will automatically check the system.
10. Choose the directory for your computer. Select the path of "C:\Windows", or type another path.
11. For reinstallation, choose "Yes" (recommended) to keep the files.
12. Select your location.
13. To create a Win98 Startup disk, insert a floppy disk into drive A. To create the startup disk later, choose "cancel".
14. Press "Next". The program will copy files to your computer's hard disk.
15. At the same time, the screen will show the Win98 concerned information and the setup items one by one.
16. After the automotive setup stops, restart the computer.

■ **Installing Drivers in Windows 95**

Step 1: Running USB Supplement Path

- μ After finishing Win95 ORS2.1 installation, go to Win95
- μ Download the file <USB supplement path update file> from Microsoft Web Site to run the USB supplement path.

Step 2: Installing TXPATCH Driver

- μ Open the driver “[TXPATCH] Intel 82371xb.inf TX” from the path of CD-ROM Drive.
- μ Run “setup.exe”.
- μ Follow the instruction to finish the installation.
- μ Restart the system.

Step 3: Installing VGA Driver

- μ Click “Start”\“Settings”\“Control Panel”\“Display”\“Settings”.
- μ Click “Advanced Properties”\“Adapter”\“Change”.
- μ Click “Have Disk”.
- μ Click “Browse” to locate the driver from the CD-ROM. (The path is :\VGA\Win95.)
- μ Click “Ok”.
- μ Select “S3Inc. ViRGE/MX+”, then click “Ok”.
- μ Click “Apply”, then restart the system.

Step 4: Installing Audio Driver

- μ Click “Start”.
- μ Select “Settings”.
- μ Click “Control Panel”\“System”\“Device Manager”.
- μ Select “Other devices”.
- μ Remove “PCI Multimedia Audio Device”

- μ Click "OK", then restart the system.
- μ After entering into WIN95 system, the program will automatically go to the "Add New Hardware Wizard" (PCI Multimedia Audio Device).
- μ Click "Next"/"Other Locations".
- μ Click "Browse" to locate the audio driver from the CD-ROM. (The path is :\Audio\WIN95.)
- μ Click "Finish".
- μ Click "OK"/"Browse" to locate the audio device from the CD-ROM.
- μ Click "OK"/"Browse" to locate the driver from the CD-ROM. (The path is :\Win950
- μ Click "OK".

Step 5: Installing PCMCIA driver

- μ Click "Start".
- μ Select "Settings".
- μ Click "Control Panel"/"System"/"Device Manager".
- μ Select "Other Devices".
- μ Remove "PCI CardBus Bridge", and then click "OK".
- μ Open "Control Panel".
- μ Select "Add New Hardware".
- μ Click "Add PCMCIA socket".
- μ Locate the file "pcmcia.inf" from the disk or CD-ROM.
- μ Select "PCI-1225 CardBus" from "Texas Instruments".
- μ Click 'Next"/"Next"/"Finish".
- μ Before restarting the system, copy the file "PCMCIA.inf" to "C:\windows\inf", and the file [pci.vxd] [pccard.vxd] [cbss.vxd] to [C:\windows\system].

Note: make sure whether the files are copied to drive C successfully.

*[C:\windows\system\cbss.vxd] [C:\windows\system\pccard.vxd]
[C:\windows\inf\pcmcia.inf]*

Step 6: Using Infrared Wireless Communication

- μ Please refer to the readme file under the FIR directory.

□ **Installing Drivers in Windows NT 4.0**

Note:

After installing Windows NT4.0, please install Service Pack3 to enhance the function. Download the latest Service Pack3 version from the Microsoft web site.

Step 1: Installing VGA Driver

- μ Click "Start".
- μ Select "Settings".
- μ Click "Control Panel".
- μ Select "Display".
- μ Click "Settings".
- μ Select "Display Type", and then select "Change".
- μ Click "Have Disk".
- μ Select "Browse" to specify the location.
- μ Open the path "D:\VGA\NT4.0".
- μ Click "OK". (All appropriate files are then copied to the hard disk.)
- μ Restart WinNT4.0 system.

Step 2: Installing Audio Driver

- μ Click "Start".
- μ Select "Settings".
- μ Click "Control Panel"/"Multimedia".
- μ Select "Devices".
- μ Click "Add".
- μ Select "Unlisted or Updated Driver".
- μ Click "OK".
- μ Click "Browse" to locate the audio driver from the CD-ROM.
(The path is :\Audio\NT4.0)
- μ Click "OK".
- μ Restart the system.

□ Installing Drivers in Windows 98

Step 1: Installing VGA Driver

- μ Click "Start"\ "Settings"\ "Control Panel"\ "Display"\ "Settings"
- μ Click "Advanced"\ "Adapter"\ "Change"\ "Next"
- μ Select "Search for a better driver than the one your devices is using now".
- μ Click "Next".
- μ Select "Specify a location".
- μ Click "Browse" to locate the VGA driver from the CD-ROM. (The path is :\VGA\Win98.)
- μ Select "S3Inc. ViRGE/MX+", then click "Next".
- μ Click "Finish", then restart the system.

Step 2: Installing Audio Driver

- μ Click "Start".
- μ Select "Settings".
- μ Click "Control Panel"\ "System"\ "Device Manager".
- μ Select "Other Devices".
- μ Remove "PCI Multimedia Audio Device".
- μ Click "OK", then restart the system.
- μ After entering into Win98 system. The program will automatically go to the "Add New Hardware Wizard" (PCI Multimedia Audio Device).
- μ Click "Next", and then select "search for the best driver for your device".
- μ Click "Next".
- μ Select "specify a location".
- μ Click "Browse" to locate the audio driver from the CD-ROM. (The path is :\Audio\Win98)
- μ Click "Next"\ "Finish" to set up the audio driver.

- μ Click "Next", and then click "Finish" to set up the first audio driver.

Step 3: Installing ~~PCMCIA~~ Driver

- μ Click "Start"/"Settings"/"Control Panel"/"System".
- μ Remove PCMCIA.
- μ Delete the two sub-directories [Generic CardBus Controller].
- μ Switch to DOS. Copy the file [PCMCIA.inf] to the directory [C:\windows\inf].
- μ Restart Win98 system.

Appendix A: Specifications

This following are the features and specifications of the notebook computer.

Processor

- Intel® Celeron™ processors 300A/333 MHz
- Intel® Mobile Pentium® II / Celeron™ processors 266/300/333 MHz

Memory

- Two 144pins SODIMM sockets
- Supports EDO/Sync DRAM SODIMM (3.3V)
- 8/16/32/64/128 MB module (optional)
- Expendable memory up to 256MB.

System BIOS

- 256KB Flash ROM
- Systemsoft, Plug and Play 1.0a, ACPI (1.0)

Display

- SVGA flat panel 12.1" TFT
- AGP 1X
- 64-bit hardware 2D/3D Accelerator Graphics Engine
- 4MB display memory SGRAM type
- CRT resolution up to 1280x1024x16M
- DuoView™ display capability under Windows 98
- Support Zoomed Video Port
- Support Software MPEG II playback (option).

Storage

- 3.5" 3-mode FDD/12.7mm(h) LS-120
- DVD-ROM (12.7mm)/CD-ROM (24X speed, 12.7mmH or 9.5mmH)/CD-RW (12.7mm)
- 2.5" 12.7mm(h) HDD, support LBA mode
- Support Master mode IDE, PIO mode 4/ATA-33 (Ultra DMA)

■ **Audio**

- 3D stereo sound system
- Compatible Sound-Blaster PRO™ version 3.01
- IIS interface for external ZV port or MPEG audio
- Built-in microphone
- Built-in 2 speakers
- Software Wavetable
- FM music synthesizer 16 bits stereo sound system

■ **PC Card Sockets**

- Two type II (PCI) PCMCIA 3.3V/5V sockets
- Support Zoom Video Port (Socket A)/CardBus (PC Card 95)

■ **Interface**

- Built-in trackpad (PS/2)
- One USB port
- One serial port
- One parallel port (LPT1), support ECP/EPP 1.7a ~~1.9~~ 1.9
- Infrared file transfer, IrDA 1.0/ASKIR
- External CRT monitor
- One External keyboard/mouse (PS/2 type) port
- One headphone jack
- One microphone jack
- DC-in jack

■ **Communication**

- Wireless Infrared transfer, IrDA 1.0 compliant
- 56K Plug & Play Modem v.90 compliant (option)

■ **Power Management**

- Support APM v1.2
- Support ACPLv1.0
- Soft Off by system Power button
- Support suspend to disk
- Battery low suspend
- Resume from alarm time
- Resume from modem ring (COM port only)

■ Power

- Full range AC adapter – AC in 100-240V, 47-63Hz
- Support one removable Ni-MH/Li-Ion Battery

■ Size & Weight

- 280mm(w)x240mm(d)x39.5mm(h)
- 2.8kg (with Lithium-Ion battery)

■ Keyboard

- 84 keys Win95 keyboard include numeric keypad.

■ Environment

- Temperature:
Operating: 5° C~35° C, Non-Operating: 20° C~60° C
- Humidity
Operating: 20%~80%, Non-Operating: 10%~90%

■ Optional

- 5001 Ni-MH Battery
- 5002 Li-Ion Battery
- 5002S Smart Li-Ion Battery
- 5003 DVD-ROM Drive Kit
- 5005 LS-120 MB Floppy Drive Kit
- 1008 MPEG playback kit
- 2005 Car Adapter
- 5008 56K v.90 Modem

Appendix B: I/O Port Pin Assignments

Parallel Port

Pin	Signal	Pin	Signal
1	Strobe#	2	Data 0
3	Data 1	4	Data 2
5	Data 3	6	Data 4
7	Data 5	8	Data 6
9	Data 7	10	ACK #
11	Busy	12	Paper Empty
13	Select	14	Auto Linefeed#
15	Error#	16	Initialize#
17	Select In	18	Ground
19	Ground	20	Ground
21	Ground	22	Ground
23	Ground	24	Ground
25	Ground		

Serial Port

Pin	Signal
1	IDCD (Data Carrier Detect)
2	IRXD (Received Data)
3	ITXD (Transmitted Data)
4	IDTR ((Data Terminal Ready))
5	GND (Signal Ground)
6	DSR (Data Set Ready)
7	RTS (Request To Send)
8	CTS (Clear To Send)
9	IRI (Ring Indicator)

Monitor Port

Pin	Signal	Pin	Signal	Pin	Signal
1	BRED	6	GND	11	N.C.
2	BGREEN	7	GND	12	DDCDA
3	BBLUE	8	GND	13	DHSYNC
4	N.C.	9	N.C.	14	DVSYNC
5	GND	10	GND	15	DDCLK

Dual PS/2 Type Ports

Pin	Signal
1	EKDA
2	NC
3	GND
4	VCC
5	EKCLK
6	--NC

Dual USB Ports

Pin	Signal
1	USB VCCA
2	USBPO-
3	USBPO+
4	GND

PC Card Sockets / Socket A:

Pin	Signal	Pin	Signal	Pin	Signal
1	GND	35	GND	69	GND
2	A-CD3	36	A-CA5	70	A-CA19
3	A-CD4	37	A-CA4	71	A-CA20
4	GND	38	GND	72	GND
5	A-CD5	39	A-CA3	73	A-CA21
6	A-CD6	40	A-CA2	74	A-VCC-C
7	GND	41	GND	75	GND
8	A-CD7	42	A-CA1	76	GND
9	A-CE1#	43	A-CA0	77	A-VPP
10	GND	44	GND	78	A-CA22
11	A-CA10	45	A-CD0	79	GND
12	A-OE#	46	A-CD1	80	A-CA23
13	GND	47	GND	81	A-CA24
14	A-CA11	48	A-CD2	82	GND
15	A-CA9	49	A-WP#	83	A-CA25
16	GND	50	GND	84	A-S2
17	A-CA8	51	GND	85	GND
18	A-CA13	52	A-CD1#	86	A-RESET
19	GND	53	A-CD11	87	A-WAIT#
20	A-CA14	54	GND	88	GND
21	A-WE#	55	A-CD12	89	A-INPACK
22	GND	56	A-CD13	90	A-REG#
23	A-RDYBY#	57	GND	91	GND
24	A-VCC-C	58	A-CD14	92	A-BVD2#
25	GND	59	A-CD15	93	A-BVD1#
26	GND	60	GND	94	GND
27	A-VPP	61	A-CE2#	95	A-CD8
28	A-CA16	62	A-VS1	96	A-CD9
29	GND	63	GND	97	GND
30	A-CA15	64	A-IORD#	98	A-CD10
31	A-CA12	65	A-IOWR#	99	A-CD2#
32	GND	66	GND	100	GND
33	A-CA7	67	A-CA17		
34	A-CA6	68	A-CA18		

PC Card Sockets / Socket B:

Pin	Signal	Pin	Signal	Pin	Signal
1	GND	35	GND	69	GND
2	B-CD3	36	B-CA5	70	B-CA19
3	B-CD4	37	B-CA4	71	B-CA20
4	GND	38	GND	72	GND
5	B-CD5	39	B-CA3	73	B-CA21
6	B-CD6	40	B-CA2	74	B-VCC-C
7	GND	41	GND	75	GND
8	B-CD7	42	B-CA1	76	GND
9	B-CE1#	43	B-CA0	77	B-VPP
10	GND	44	GND	78	B-CA22
11	B-CA10	45	B-CD0	79	GND
12	B-OE#	46	B-CD1	80	B-CA23
13	GND	47	GND	81	B-CA24
14	B-CA11	48	B-CD2	82	GND
15	B-CA9	49	B-WP#	83	B-CA25
16	GND	50	GND	84	B-VS2
17	B-CA8	51	GND	85	GND
18	B-CA13	52	B-CD1#	86	B-RESET
19	GND	53	B-CD11	87	B-WAIT#
20	B-CA14	54	GND	88	GND
21	B-WE#	55	B-CD12	89	B-INPACK
22	GND	56	B-CD13	90	B-REG#
23	B-RDYBY#	57	GND	91	GND
24	B-VCC-C	58	B-CD14	92	B-BVD2#
25	GND	59	B-CD15	93	B-BVD1#
26	GND	60	GND	94	GND
27	B-VPP	61	B-CE2#	95	B-CD8
28	B-CA16	62	B-VS1	96	B-CD9
29	GND	63	GND	97	GND
30	B-CA15	64	B-IORD#	98	B-CD10
31	B-CA12	65	B-IOWR#	99	B-CD2#
32	GND	66	GND	100	GND
33	B-CA7	67	B-CA17		
34	B-CA6	68	B-CA18		