

EUT:NOTEBOOK PC

FCC ID:L4PK3100CX13

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 radiated 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, Stereo Cassette Player, Earphone DATA cable) and output power cord 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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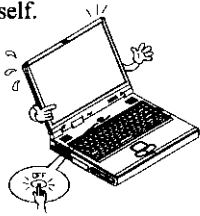
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Safety Notice

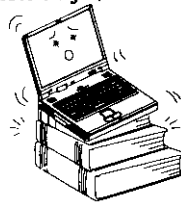
The computer is a delicate device that requires careful handling. Negligence or mistaken use may cause serious damage. Before you learn to operate or use this computer, you need to understand the instruction regarding safety handling.

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

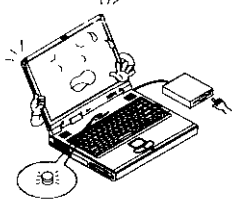
Do not turn off power in operation.
Do not disassemble the computer yourself.



Do not place the computer on unstable surface.



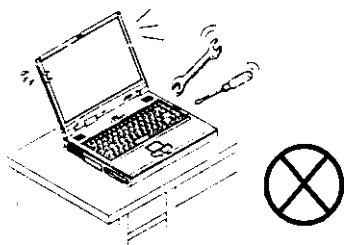
Do not turn off the peripheral device when the light is on.



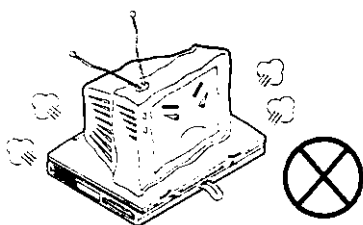
Do not touch the poisonous liquid when the LCD is broken.



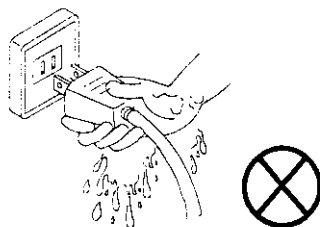
Do not disassemble the computer yourself.



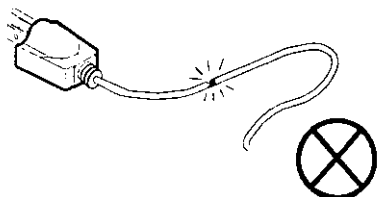
Do not place anything heavy on the computer.



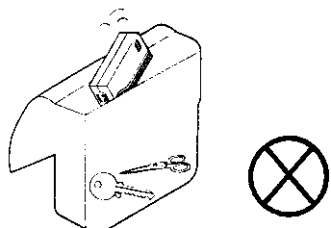
Do not touch power cord by wet hand.



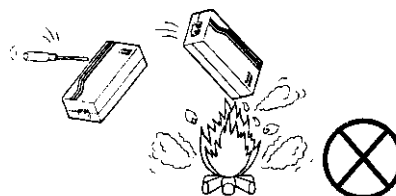
Do not use broken power cord.



Keep the computer away from any metal appliance.

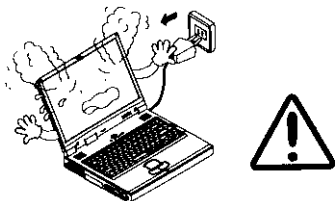


Do not throw the computer or accessories into fire.

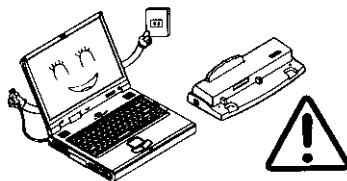


The following mentions the actions that are important for your computer. To keep your computer in the most excellent condition, please follow the instruction as much as possible.

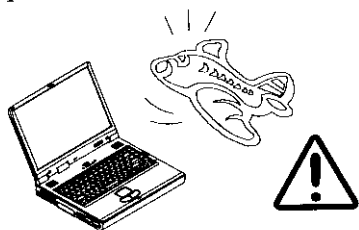
If there is unusual odor, heat or smoke, plug out the power cord immediately.



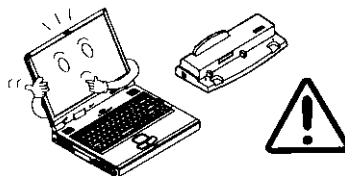
Plug out the power cord in attaching peripheral devices.



Follow the use instruction in taking airplane.



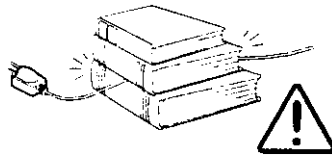
Use the same brand of peripheral devices.



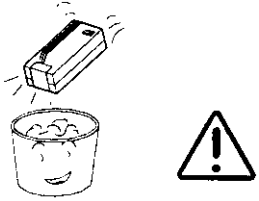
Maintain your computer regularly.



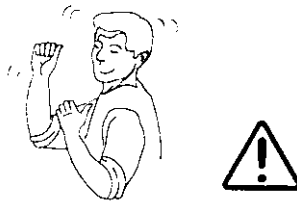
Do not place heavy thing on the power cord.



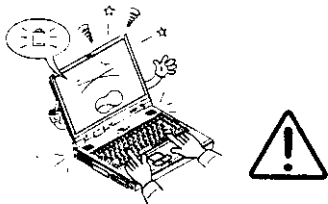
Affix tape to the contact plate while putting the battery into keeping box.



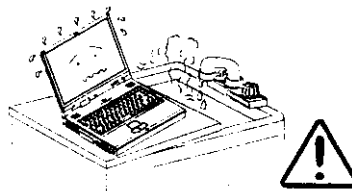
Take a rest after a long term of work.



The data is easy to lose in low power status.



Please keep the computer away from humid environment.



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 make best use of your notebook computer. Please read.

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:

- 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.
- Your knees should be slightly higher than your hips. Place your feet flat on the floor or on a footrest if necessary.
- Use a chair with a back and adjust it to support your lower back comfortably.
- 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.

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

- ☐ Alter your posture frequently.
- ☐ Stretch and exercise your body several times a day.
- ☐ 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.

Chapter 1 : Getting Started

This chapter provides you with the brief introduction to the notebook. It will familiarize you to the computer's features, components, operating environment and the power sources.

- * **Unpacking the Notebook**
- * **Features of the Notebook**
- * **Operating environment**
- * **Powering the system**

Unpacking the Notebook

Carefully unpack the Notebook Computer and the included accessories (Figure 1-1). If there is any discrepancy or problem, contact your dealer immediately. Be sure to save the packing materials in the event that the notebook needs to be shipped in the future. The shipping carton should contain the following items:

- μ Notebook computer
- μ CD For drivers
- μ PS/2 Transfer Cable
- μ Carrying Bag
- μ User's Manual
- μ Battery Pack
- μ Utilities Diskette
- μ Power Cord
- μ Power Adapter

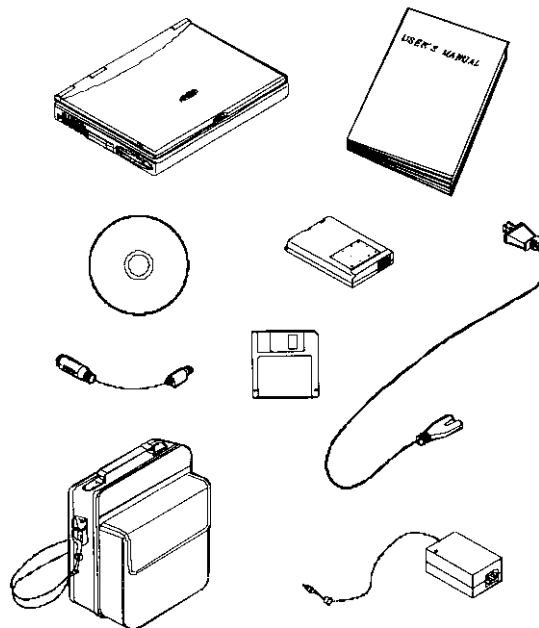


Figure 1-1

Features of the notebook

Opening the LCD Cover

1. Push the latch towards the right to open the top cover. (Figure 1-2)
2. Lift the top cover to reveal the LCD panel and the keyboard.
3. Adjust the LCD panel to a comfortable viewing angle.
4. Press the power button to turn the system on or off (Figure 1-4).

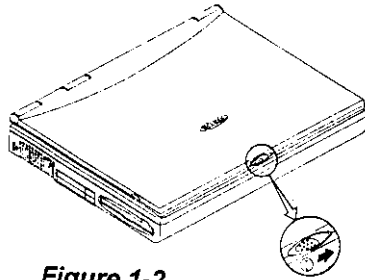


Figure 1-2

Figure 1-2

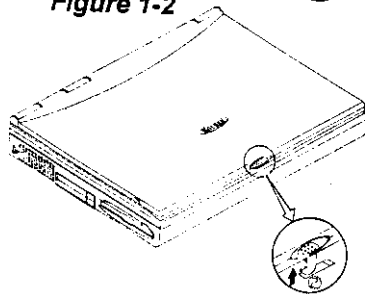


Figure 1-3

System Status Indicators

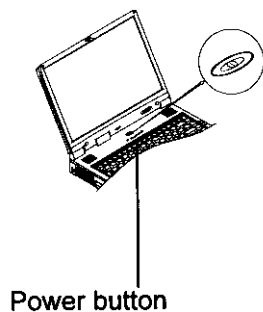


Figure 1-4

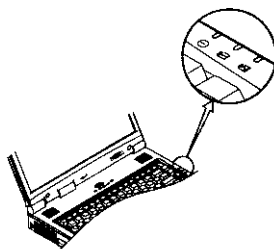


Figure 1-5

Power button

Use this button to turn the system on or off (Figure 1-4). 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.

System Status LED Indicators

The LED indicators show the system's operation status.

Icon	Color	Description
	Green	Battery power is used with the system turning on.
	Red	AC power is used with the system turning on.
	Blinking Red	Battery power is critically low.
	Green	1 st Battery is fully charged.
	Red	1 st Battery is being charged.
	Green	2 nd Battery is fully charged.
	Red	2 nd Battery is being charged.
	Green	The embedded number-lock feature is activated
	Green	The Caps Lock feature is activated.
	Green	The Screen Lock feature is activated.
	Green	The system has entered the configured suspend mode.
	Green	The hard disk is being accessed.

Top-Front View

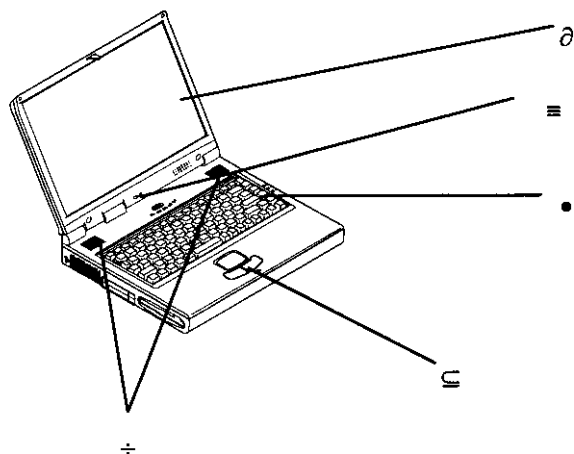


Figure 1-5

≡ LCD Panel

The Notebook is equipped with a LCD (Liquid Crystal Display) panel. Depending upon the model you have purchased, the display screen can be a 13.3" or 14.1" XGA TFT color panel. The notebook's LCD panel supports up to 1024× 768× 16M resolution. The LCD panel is driven by a AGP bus video controller with 8MB video memory.

☞ **Keyboard**

The Notebook uses an 88-key keyboard in which the numeric keypad is embedded. It supports Windows 95 by incorporating two Windows 95 special keys. The notebook keyboard design emulates a full-sized desktop one and supports various language versions. Please refer to chapter 2: Operation for more information on using keyboard.

⊂ **Stereo Speakers**

Two built-in speakers provide clear stereo sound.

⊆ **Trackpad and Buttons**

The pointing device features a sensitive glide pad for precise movements. It is compatible with the IBM PS/2 mouse. The buttons of the trackpad function as those of a standard mouse.

≡ **Microphone**

This is the built-in microphone for recording sound into your applications.

Rear View

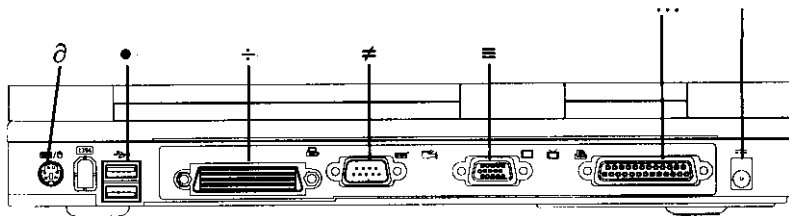


Figure 1-6

≡ **PS/2 Type Ports**

The PS/2 Type Port uses 6-pin connector for connecting an external PS/2 type mouse or keyboard.

⌘ **Dual USB Ports**

The dual Universal Serial Bus (USB) ports simplify the expansion capability for peripheral devices. You can optionally connect the USB

⌘ **Expansion Port**

The Expansion port uses a 120-pin Docking connector for connecting a Port Replicator.

⌘ **Serial Port** ¹

The RS-232C serial port uses a 9-pin male connector for connecting an external serial mouse, serial printer or fax/modem.

devices such as a mouse, keyboard or monitor to the notebook.

€ **External Monitor (CRT) Port**

The External Monitor uses a 15-pin connector for connecting an external CRT monitor. Simultaneous display in LCD screen and external CRT monitor is available.

∠ **Parallel Port**

The Parallel Port uses a 25-pin female connector for connecting a parallel printer or other parallel devices. This parallel port supports EPP (Enhanced Parallel Port) V1.7/V1.9 and ECP (Extended Capabilities Port) modes.

▽ **AC-in Socket**

Plug the AC adapter into this socket for power supply. Pull the plug (not the cord) directly back to disconnect.

Right-side View

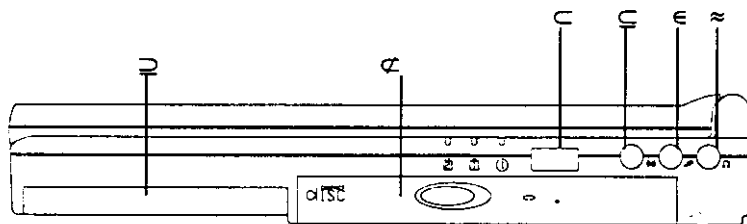


Figure 1-7

Battery Pack

The notebook comes with a rechargeable battery pack that lets you operate the computer without an external power source.

Removable 5.25" CD-ROM Drive

The notebook comes standard with a 24-speed 5.25" CD-ROM drive. The removable CD-ROM drive module can be replaced with the optional drive units, such as a 12.7mm high DVD-ROM drive. (Please refer to the Chapter 2: Operation for more information on using the CD-ROM.)

Infrared

The notebook is equipped with an infrared feature that allows the communication with an infrared-compatible device. The Infrared port supports IrDA (HPSIR) 1.1 mode, Amplitude Shifted Keyed IR (ASKIR) mode, and Fast IR (FIR) mode.

Line-in Jack

External audio source can be fed into the Notebook through this jack.

€ **Microphone-in Jack**

Use this jack to connect a microphone to the system.

€ **Speaker-out Jack**

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

Left-side View

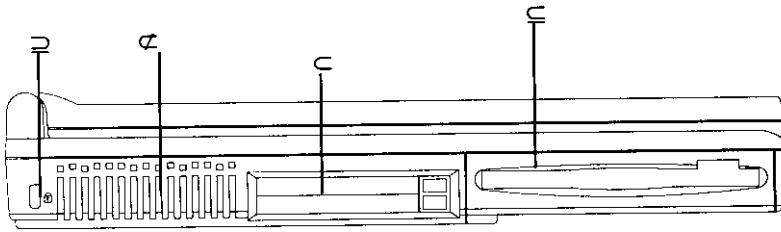


Figure 1-8

Security Connector

The Security Connector is used to protect your Notebook from being stolen. Wrap the steel cable around your desk. Next, insert the locking device into this security connector.

Ventilation

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

PC Card Sockets

The notebook provides two Type II or one Type III PC card sockets. Both sockets will expand the system capabilities when a PC card is inserted. (Please refer to Chapter 2: Operation for more information on Using PC Card socket.)

⊆ Removable 3.5" Floppy Disk Drive

The Notebook comes standard with a removable 3.5" 1.44MB floppy drive installed in a bay. The floppy disk drive module can be replaced with optional drive units, such as a 12.7mm high 2.5" hard disk drive, a 12.7mm high LS-120 120MB floppy drive or a secondary battery pack. (Please refer to Chapter 2: Operation for more information on using floppy disk drive.)

Bottom View

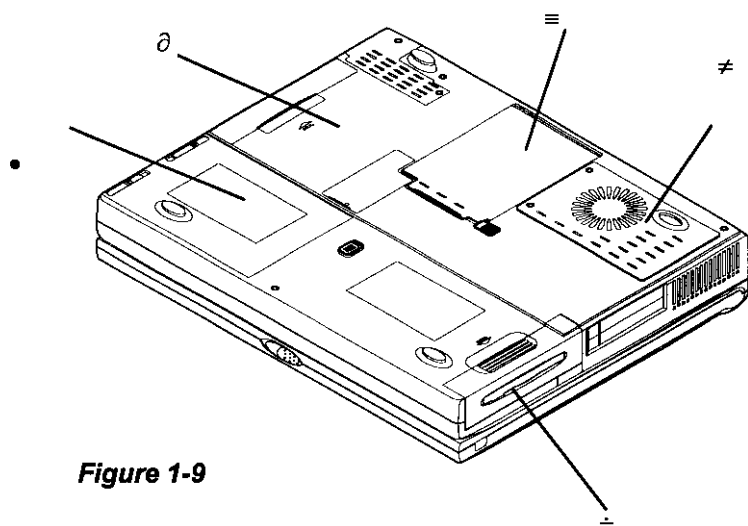


Figure 1-9

⊃ CD-ROM latch

Push this latch to release the CD-ROM module from its bay. (Please refer to Chapter 2: Operation for more information on inserting or removing the CD-ROM.)

• Battery Pack latch

Push this latch to release the Battery Pack from its bay. (Please refer to Chapter 1: Getting Started for more information on Inserting or removing the Battery Pack.)

÷ Floppy Disk Drive latch

Push this latch to release the Floppy Disk Drive module from its bay. (Please refer to the Chapter 2: Operation for more information on inserting or removing the Floppy Disk Drive.)

≠ **CPU Cover**

Detaching the screws to remove the cover. The CPU module is under the heat sink and the cover. You may upgrade the CPU for higher system performance.

≡ **Hard Disk Drive latch**

Push this latch to release the Hard Disk Drive module from its bay. (Please refer to Chapter 2: Operation for more information on Inserting or removing the Hard Disk Drive.)

Operating Environment

Proper care and operation of your notebook computer will prolong the use period. Make sure the computer is not:

- μ Exposed to excessively heat or direct sunlight.
- μ Subjected to shock or vibration.
- μ Exposed to strong magnetic fields.
- μ Left in a place where foreign matter or moisture may enter the system.

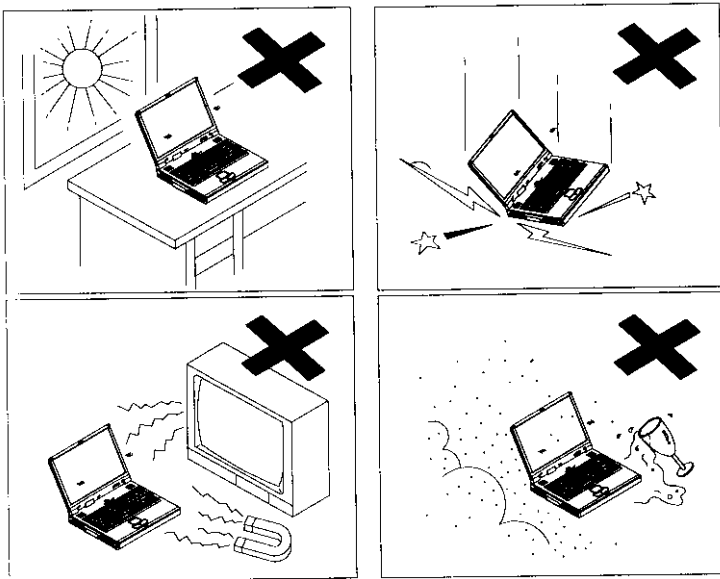


Figure 1-10

Powering the System

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

AC Power Adapter

Use only the power adapter that comes with your Notebook Computer. Use the incorrect power adapter will cause damage to the Notebook and its components.

1. Plug the power adapter to the AC-in socket on the rear panel of the Notebook.
2. Connect the power cord to the power adapter.
3. Plug the AC power cord into a properly grounded outlet.
4. Refer to Chapter 1, System Status Indication for more information on system power status.
- 5.

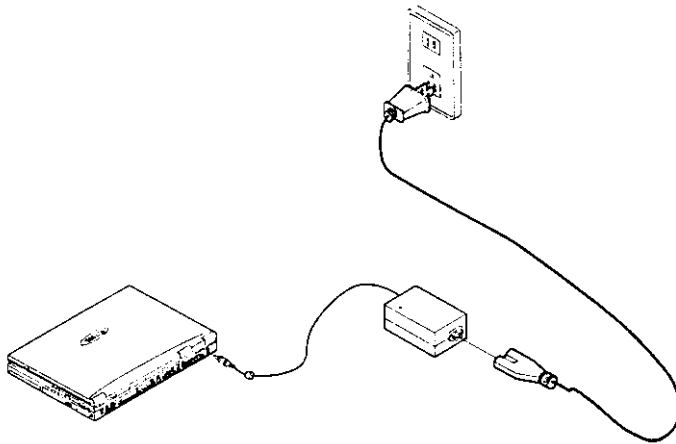


Figure 1-11

Battery Pack

Power for continuous portable operation of the Notebook is provided by a battery pack. When the battery pack is fully charged, you can operate the computer for approximately two hours. However, the actual operating time will be determined by the application used and the configuration set.

Removing

Turn the Notebook over.

1. Locate the Battery Pack latch. Push the latch in the direction as indicated.
2. Draw the battery pack out the bay.

Inserting

1. Turn the Notebook over.
2. Insert the battery pack into the bay.
3. Make sure the battery clicks into the bay properly and mates with its connector firmly. (You will hear the battery pack click shut).

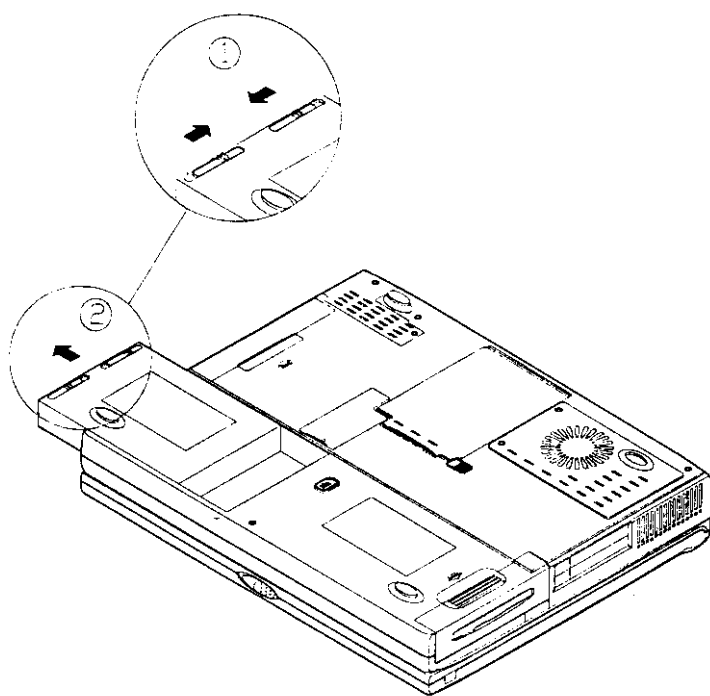


Figure 1-12

Recharging by AC Power

The system's battery pack will recharge whenever the system is plugged into the AC power supply, regardless of whether the system is being operated or not.

1. You may connect the AC power adapter to the Notebook Computer at any time to begin recharging the system's battery pack. You do not need to turn off the system's power.
2. It will take several hours to recharge the battery to its full charge status.
3. Please refer to Chapter 1, System Status Indicators for more information on battery charge status.

Proper Handling of the Battery Pack

- ⚠ Do not attempt to disassemble the battery pack under any circumstances.
- ⚠ The battery may explode if exposed to fire or high temperatures.
- ⚠ Avoid short circuiting the battery by preventing contact between the metal terminals (+, -)

Chapter 2 : Operation

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

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

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

- * **Upgrading Processor Module**

- * **Setting DIP Switch**

- * **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

Replacing Processor Module

1. Remove all power sources (AC power and battery).
2. Turn the Notebook over.
3. Remove the CPU cover.
4. Remove the screws that fasten the heat sink mounted on the Processor Module.
5. Carefully use the CPU removing tool to detach the Processor Module from the mainboard.

Note:

Wait for the CPU to cool down before replace it.

Contract your dealer for the CPU tool to replace the CPU.

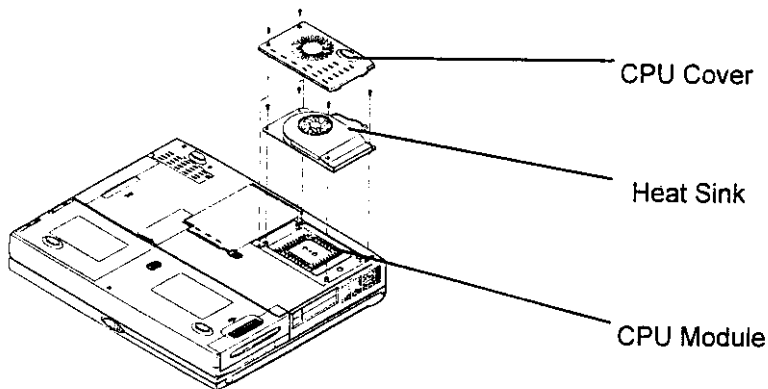


Figure 2-1

Reinstalling the Heat Sink

Make sure that the heat sink cable is properly placed.

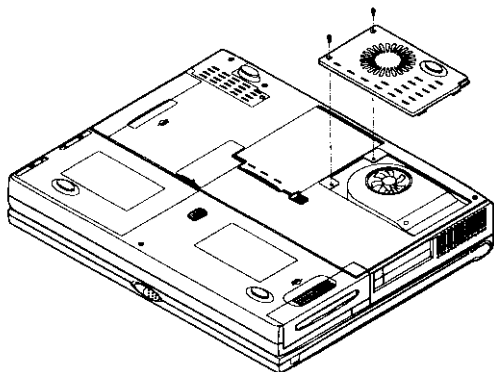


Figure 2-2

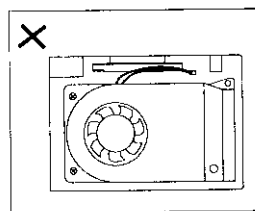
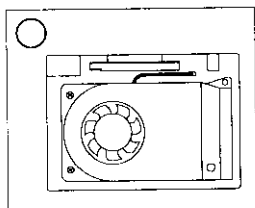


Figure 2-3

Setting DIP Switch

Flash ROM BIOS update

In order to keep up with the latest system BIOS, your notebook may be upgraded. Consult your dealer for further information. The DIP-Switch needs to be set in the **On** position when updating the existing system BIOS. The DIP-Switches should be reset to the **Off** position after BIOS updating is complete.

DIP Switch (SW1)		Purpose
SW1-1	SW1-2	Flash ROM BIOS
Off	Off	Existing BIOS
On	On	Updating BIOS

CPU Core Frequency Settings

The correct configuration for CPU core frequency is listed as follows:

BGA1 Processor				
CPU Frequency	SW1-4	SW1-5	SW1-6	SW1-7
~~233MHz~~	~~OFF~~	~~OFF~~	~~OFF~~	~~ON~~
~~266MHz~~	~~ON~~	~~ON~~	~~ON~~	~~OFF~~
~~300MHz~~	~~OFF~~	~~ON~~	~~ON~~	~~OFF~~
333MHz	ON	OFF	OFF	OFF
~~366MHz~~	~~OFF~~	~~OFF~~	~~OFF~~	~~OFF~~

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

Accessing 2-Pole DIP Switch (SW1)

Access the 2-Pole DIP Switch to set the BIOS.

1. Turn the system power off.
2. Press the two keyboard latches and Carefully lift the keyboard assembly out to expose the mainboard. Adjust the DIP Switch SW1 to set the configuration.

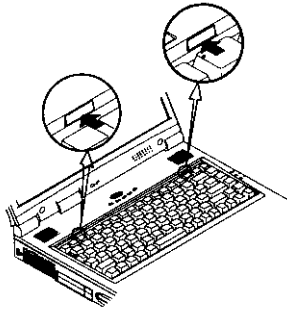


Figure 2-4

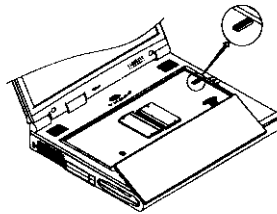
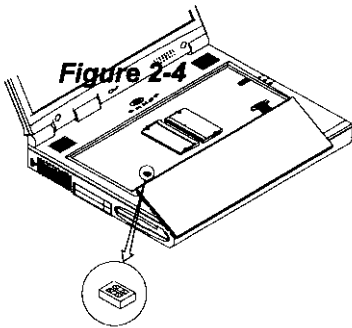


Figure 2-5

Expanding Memory

The system has three memory sockets for different RAM modules to expand the memory up to 256MB. These RAM modules are of a 144-pin SODIMM (Small Outline Dual In-line Memory Module) type. The Notebook supports EDO, and SDRAM operation. The total memory size is automatically detected by the POST routines. With the following different RAM combinations (for reference), the total memory size can be:

Bank 0 (64-bit)	Bank 1 (64-bit)	Power	Minimum Speed	Total Size
32MB	0MB	3.3V	EDO: 60ns SDRAM: 75 MHz	32MB
32MB	32MB			64MB
64MB	0MB			64MB
64MB	32MB			96MB
64MB	64MB			128MB
128MB	0MB			128MB
128MB	32MB			160MB
128MB	64MB			192MB
128MB	128MB			256MB

Note: You can not use the EDO RAM and SDRAM together.

Accessing the Memory Sockets

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

Note:

- The memory socket Bank is a reverse type, make sure you install the memory module with reverse side to fit its connector.
- Please ensure that each edge of the memory module (SDRAM) has no component mounted on (see Figure 2-6). It is recommended to use the RAM module that complies with Intel unbuffered SO-DIMM (67.6mmX31.75mm). Please consult your dealer for detailed information.

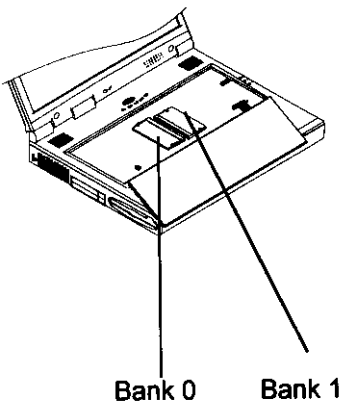
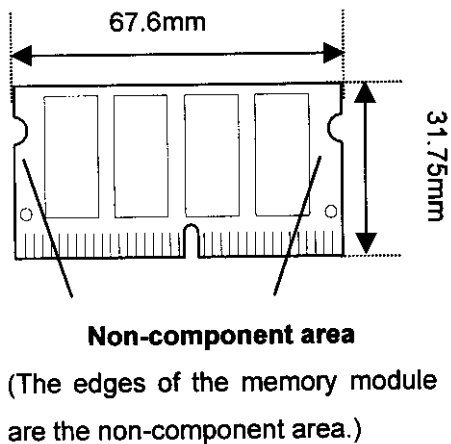


Figure 2-6

Figure 2-7

Installing Memory Module

Follow the steps below to install the memory module:

Turn the system power off. Press the two keyboard latches to elevate the keyboard from its normal position. Carefully lift the keyboard assembly out to expose the mainboard. Locate the memory sockets.

1. **Position the memory module at a slight angle (45°) and fit its connectors into the socket firmly.**
2. **Press two edges of the memory module (as the arrows indicated) to make it locked into place.**

Reinstall the keyboard assembly.

Note: Make sure you install the memory module in the order of Bank 0, Bank1.

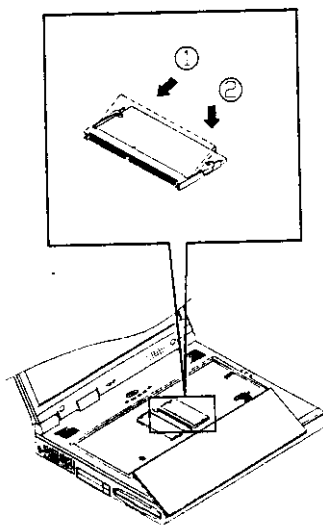


Figure 2-8

Removing Memory Module

Turn the system power off. Press the two keyboard latches to elevate the keyboard from its normal position. Carefully lift the keyboard assembly out to expose the mainboard. Locate the memory sockets.

1. Gently pull the two latches on both ends of the module outward.
2. The module will pop up.
3. Remove the memory module.

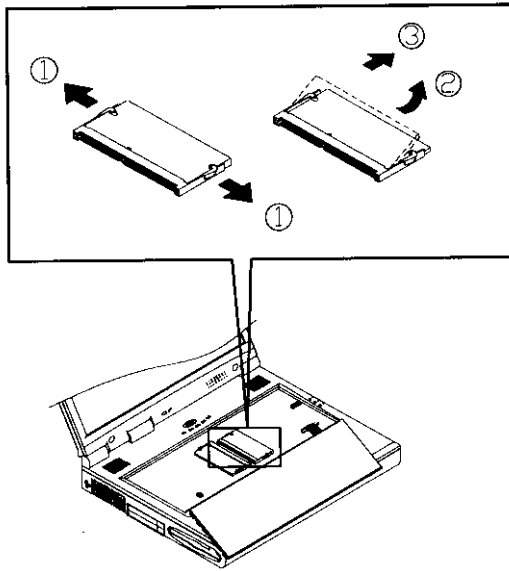


Figure 2-9

Using Hard Disk Drive

The notebook is equipped with a 2.5" IDE hard disk drive mounted in a removable case. Therefore, the hard disk drive can also be easily removed and replaced with another hard disk drive with a height of 17mm by using different case. The hard disk drive supports Programmed I/O (PIO) mode 4, Master mode and Ultra ATA (Ultra DMA-33) mode which can provide a high performance data transfer rate at speeds up to 33 MB/second.

Removing the Hard Disk Drive Module

Turn off the power. Turn the Notebook over.

1. Push the latch in the direction as indicated.
2. Pull the hard disk cover up.
3. Draw the hard disk drive module out of the bay.

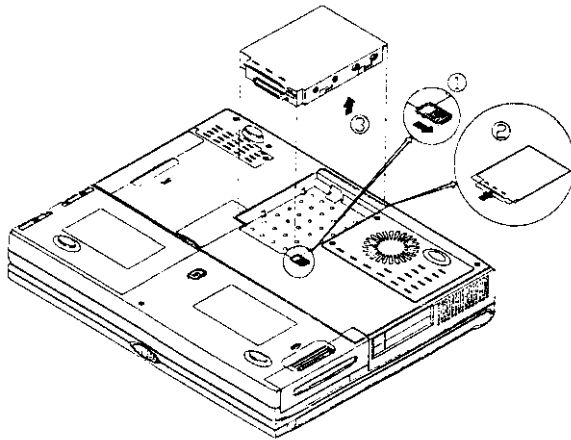


Figure 2-10

Replacing Hard Disk Drive

1. Remove the two screws on each side of the case. (Figure 2-11)
2. Gently disconnect the cable from the hard disk drive.
3. Connect the replacement hard disk drive with the cable.
4. Insert the replacement hard disk drive into the case.
5. Fasten the screws of each side.

Note: The hard disk drive with different height must use the different case to house itself. Contact your dealer for details about these replacements.

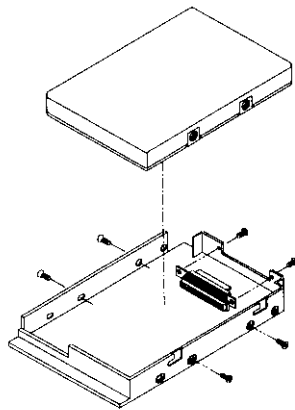


Figure 2-11

Figure 2-11

Inserting the Hard Disk Drive Module

1. Insert the hard disk drive module into the bay
2. Make sure it clicks into the bay properly and mates with the connector firmly. (You will hear the latch clicks shut.)

Using Floppy Disk Drive

The Notebook is equipped with a removable 1.44MB, 3.5" floppy disk drive module. It is usually designated as drive A by default and may be used as a boot device if properly set (please refer to Chapter 3, BIOS Utilities).

You may replace the floppy disk drive module with the following options: a 2.5" secondary IDE hard disk drive (of 12.7mm high), a 120MB LS-120 floppy disk drive (of 12.7mm high), or a secondary battery pack. Contact your dealer for detailed information about these options.

Inserting/Removing Diskettes

Always insert your floppy diskette label-side up when using the floppy drive. Press the eject button on the top-right corner of the floppy drive to remove your diskette.

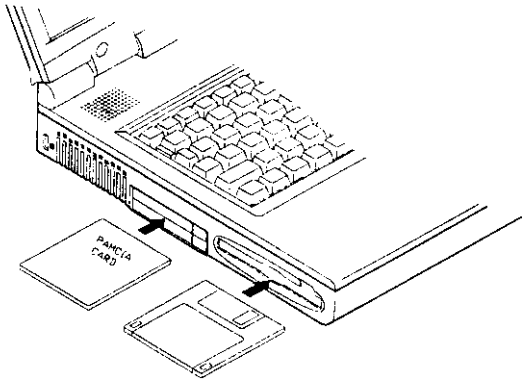


Figure 2-12

Replacing Floppy Disk Drive

Turn off the power. Turn the Notebook over.

1. Push the latch in the direction as indicated. (Figure 2-13-1)
2. Draw the floppy disk drive module out of its bay.

To assemble the floppy disk drive module into the bay.

3. Insert the replacement module into the bay.
4. Make sure it clicks into the bay properly and mates firmly with the connector. (You will hear the latch clicks shut).

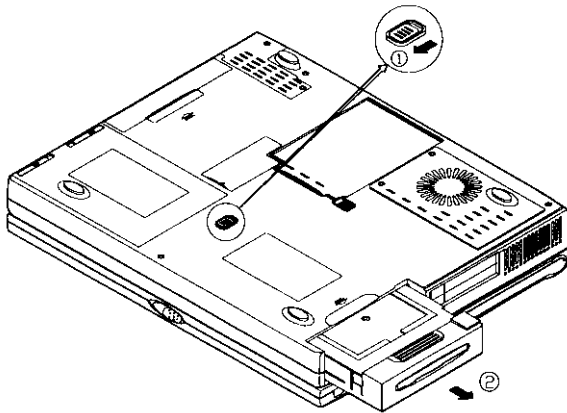


Figure 2-13

Write-Protecting Diskettes

Diskettes can be write-protected to prevent files from being accidentally erased or destroyed. To write-protect a 3.5" floppy diskette, move the built-in write-protect tab to the write-protect position, ("up" so that you can see through the "hole" in the upper, right-hand corner of the diskette). Putting the write protect tab back "down" will enable you to write data on the disk again.

Do's and Don'ts

- μ Always make backup copies of your software and data diskettes.
- μ Keep diskettes away from magnetic fields.
- μ Do not remove diskettes from the drive while the diskette "in-use" light is on.
- μ Do not open or remove the protective shutter that covers the diskette's media.
- μ Do not allow dust or moisture to collect on diskettes.
- μ Do not bend or throw diskettes.
- μ Do not clean diskettes with liquids or solvents.

Using CD-ROM

The Notebook is equipped with a removable CD-ROM drive module. It is usually designated as drive D by default and may be used as a boot device if properly set (please refer to Chapter 3, BIOS Utilities). You may replace CD-ROM drive module with following options, DVD-ROM drive (of 12.7mm), CD-RW drive or the third battery pack.

To insert a CD, press the **Eject Button** and place the CD on the **Disc Tray** 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 power to the system is unexpectedly interrupted, insert an instrument such as a straightened paper clip into the **Emergency Eject Hole** to manually eject the tray.

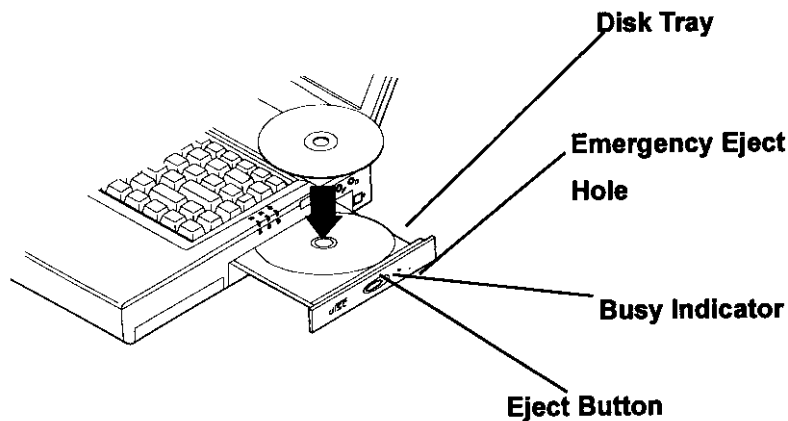


Figure 2-14

Removing CD-ROM Module

Turn off the power. Turn the Notebook over.

1. Take the cover away as the figure.
2. Push the latch in the direction as indicated.
3. Draw the CD-ROM module out of the bay.

Note: Do not disassemble the CD-ROM module by yourself. Only certified technicians should perform repairs to the CD-ROM module.

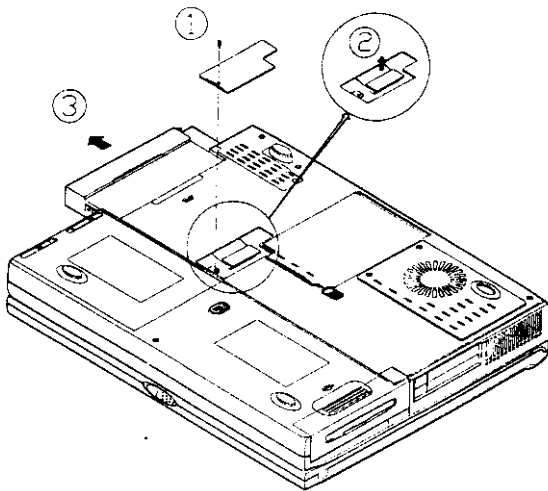


Figure 2-15

Loading Compact Discs

1. Turn on the power.
2. Press the CD-ROM eject button; the disc tray will pop out partially.
3. Gently pull the disc tray out.
4. Carefully load the CD on the disc tray with label-side facing up. Make sure the CD is seated properly.
5. Push the tray into the computer to close it.

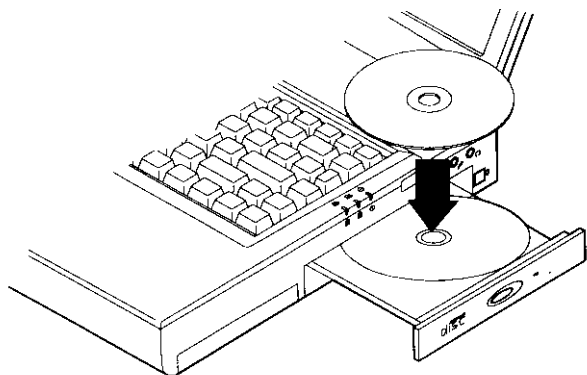


Figure 2-16

Handling of Compact Discs

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

- μ Hold the CD by the edges; avoid touching the surface of the disc.
- μ Use clean, soft, 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 areas where it will be exposed to high temperatures.
- μ Do not use benzene, 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

PC cards can expand the capabilities of the notebook computer. Your Notebook is equipped with two PC card sockets that accommodate one Type III card and two Type II cards. These sockets support both PCMCIA standard release 2.0 cards and 32-bits Cardbus (PC card 95) cards. PC cards can be LAN, fax/modem, communication devices, or expanded memory ones. These PC card sockets can accept either 3.3V or 5V PC cards.

The upper socket named socket A is capable of ZV (Zoomed Video), which allows a direct connection between a PC card and video devices that enables high quality video playback.

Inserting PC Cards

1. Open the access door of PC card sockets (Figure 2-17).
2. Align the PC card with the appropriate slot and push it in firmly until it locks into place.

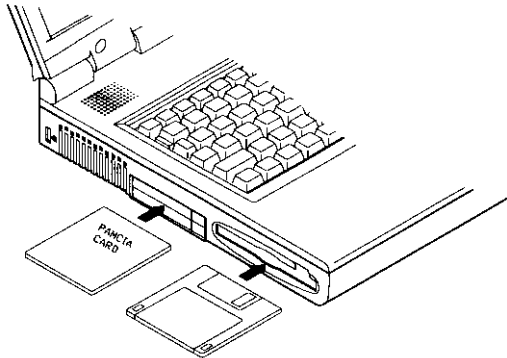


Figure 2-17

Removing PC Cards

Two eject buttons are located next to each slot. Press the appropriate eject button to remove the PC card from its slot. (Please refer to Figure 2-18)

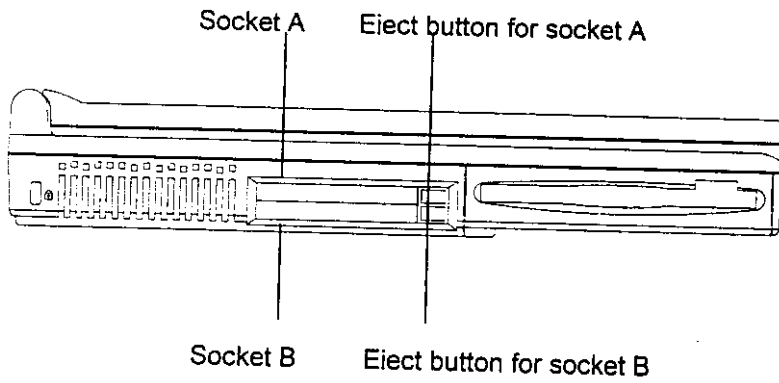


Figure 2-18

Using Hot Keys

Located on the bottom-left corner of the keyboard layout is a colored **Fn** key (Figure 2-19). It is a special feature designed only on the Notebook for an easy access to system features. Simultaneously press **Fn** key and one of the following keys to execute specific functions:

Fn Key	Function
Fn+F3	Expand LCD display
Fn+F6	Toggle CRT/LCD+CRT/CRT
Fn+F9	Decrease LCD brightness
Fn+F10	Increase LCD brightness
Fn+F11	Decrease audio volume
Fn+F12	Increase audio volume
Fn+Z	Toggle audio mute on/off
Fn+Esc	Suspend/resume

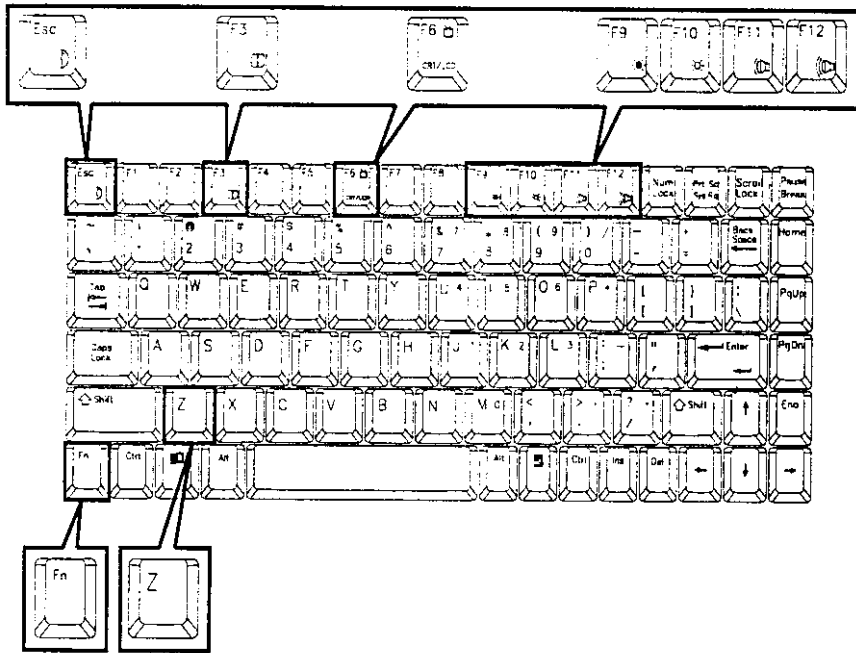


Figure 2-19

Using Numeric Keypad

The Notebook features an 88-key keyboard with an embedded numeric keypad for easy numeric data input (Figure 2-20). The colored keys in the middle section of the keyboard will function as a Numeric Keypad. When the numeric keypad is engaged, the NumLock LED indicator shines green light.

Follow these steps to access the Numeric Keypad:

- μ Press the **NumLock** Key to activate the Numeric Keypad.
- μ Press the **Fn** key and colored keys together to activate the Numeric Keypad.

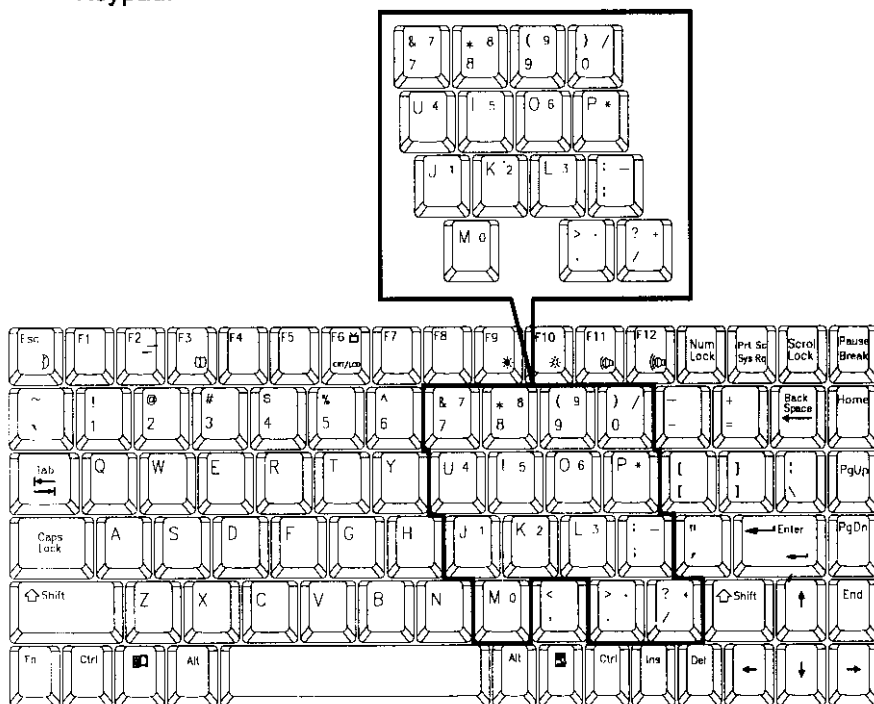


Figure 2-20

Using Power Management

The Notebook provides you with some built-in power management features to reduce the power consumption without affecting the performance of the system.

Advanced Power Management (APM 1.2)

The Notebook provides built-in Advanced Power Management (APM 1.2) supporting to reduce power consumption. APM function varies depending on the operating system you are using. **Some operating 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 1.0)

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

Hard Disk Standby

The system will turn off the Notebook's hard disk drive after a specified period of inactivity. The Hard disk drive will be turned back on once the system attempts to read or write data to it. You can adjust the Standby timeout period in the power menu of BIOS utilities

Global Standby

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

Suspend and Resume

Under the circumstance of extremely low power, all tasks are stopped and stored in memory to save the power. This is called Suspend mode. The Suspend Mode features three levels: Powered-On-Suspend (POS) mode, Suspend-To-RAM (STR) mode and Suspend-To-Disk (STD) mode.

Note: *Be sure not to initiate the Suspend Mode when any of the disk drives is accessed such as HDD, FDD and CD-ROM drive.*

The system operation can be returned to exactly where it was suspended when wake-up event occurs. This is called Resume.

Powered On Suspend (POS)

In these two suspend modes, Powered-On-Suspend (POS) saves the least amount of power than STD mode. However, it takes the least time to return to full operation.

Resume from POS Mode

The system may be resumed from Powered-On-Suspend mode by:

- ⌘ Alarm resume (month/day/hour/minute): The system will resume at the specific time.
- ⌘ Modem ring: The system will resume when a modem ring is detected from the COM port.
- ⌘ Any keyboard key pressed
- ⌘ Depressing the power button (if configured as Suspend/Resume function under SCU)

Suspend To Disk (STD)

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

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

A:\>0VMAKFIL /Pn

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

A:\>0VMAKFIL /P32

Note: Rewrite the sector signatures if you need to partition the hard disk again.

C:\>0VMAKFIL /PW

3. Re-partition the hard disk using your operating system's FDISK program.

Resume from STD Mode

The system may be resumed from Suspend-To-Disk mode by:

- ⌘ Power back on
- ⌘ Alarm resume (month/day/hour/minute): The system will resume at the specified time.

Attaching Peripheral Devices

You can add a variety of external devices to your computer to expand your computing capabilities.

Attaching a Phone Line (option)

The notebook is equipped with a phone jack for connecting a phone line. To enable the function of a built-in modem, the users have to insert a modem card (Optional) into the socket on the mainboard and attach a phone cord to the jack.

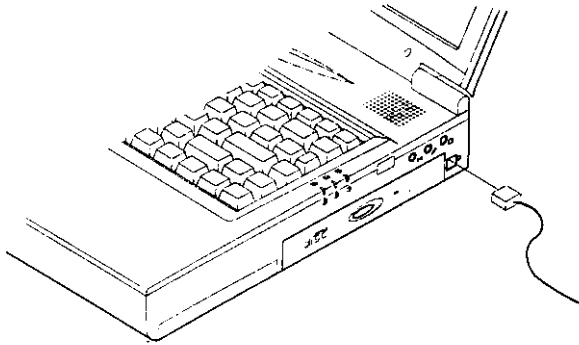


Figure 2-21

Attaching a PS/2 Keyboard or Mouse

The Notebook can be operated with an external PS/2 keyboard or mouse. Make sure the mouse or keyboard has a cable with 6-pin connector for the PS/2 port. If not, use the transfer cable that comes with your notebook.

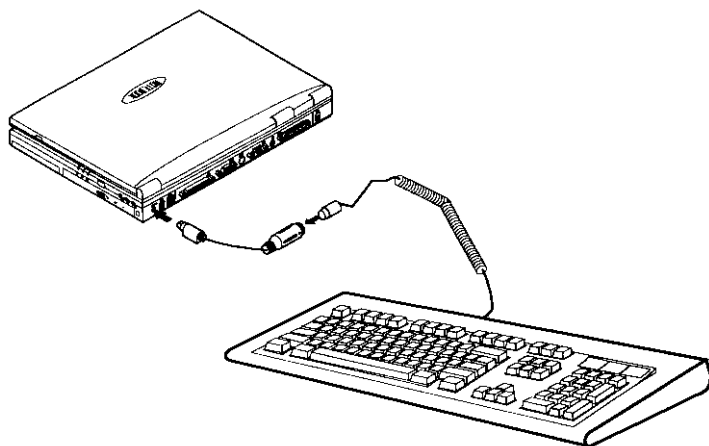


Figure 2-22

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.

To connect a serial mouse, follow these steps:

1. Turn the system power off.
2. Connect the cable to the serial port on the rear panel of the Notebook Computer.
3. Tighten the screws to fasten the cable to the serial port.
4. Turn on the Notebook 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.

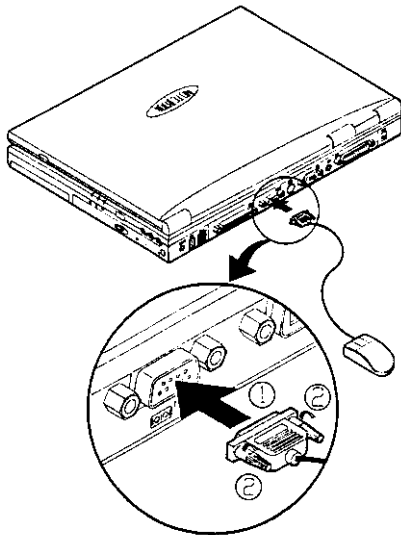


Figure 2-23

Attaching a Parallel Printer

You may connect any standard Centronics-compatible parallel printer to your Notebook through the parallel port.

To connect a printer, follow these steps:

1. Turn the system power off.
2. Connect the cable to the parallel port on the rear of the Notebook Computer.
3. Tighten the screws to fasten the cable to the parallel port (Figure 2-24).
4. Insert the other end of the cable to the printer's connector. Fasten the cable's connector.
5. Turn on the printer and Notebook Computer.

In addition, you will 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.

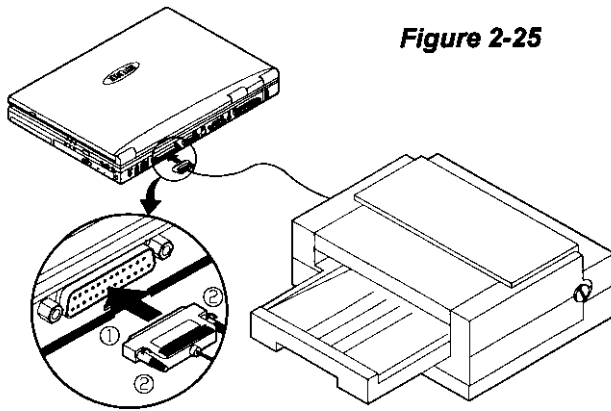


Figure 2-25

Figure 2-24

Attaching an External Monitor (CRT)

The computer is capable of displaying not only on the internal LCD, but also on an external XGA display monitor. Simultaneous display on LCD and External monitor is available. You may enter the System Configuration Utility (SCU) to select the appropriate parameters or use the **Fn + F6** keys (refer to *Chapter 2, Using Hot Keys*) to change the display setting.

To connect an External Monitor, follow these steps:

1. Turn the system power off.
2. Connect the cable to the CRT port on the rear panel of the Notebook Computer.
3. Tighten the screws to fasten the cable to the CRT port.
4. Insert the other end of the cable to the external monitor.
5. Turn on the Notebook Computer.

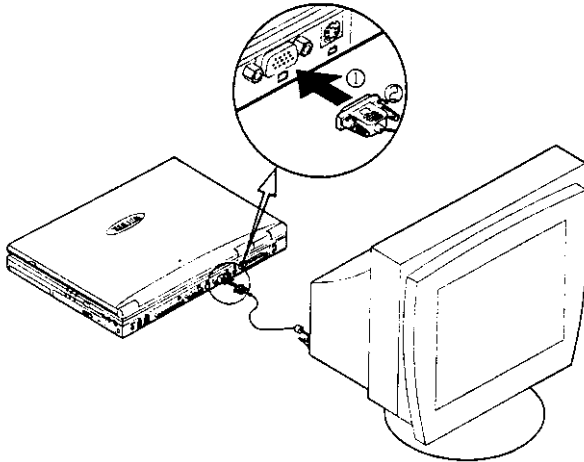


Figure 2-25

Attaching a Proprietary Port Replicator

The proprietary Port Replicator, providing interfaces for those found on the Notebook system. It can free you from fumbling with multiple cables every time you leave the office. Please contact your dealer for detailed information.

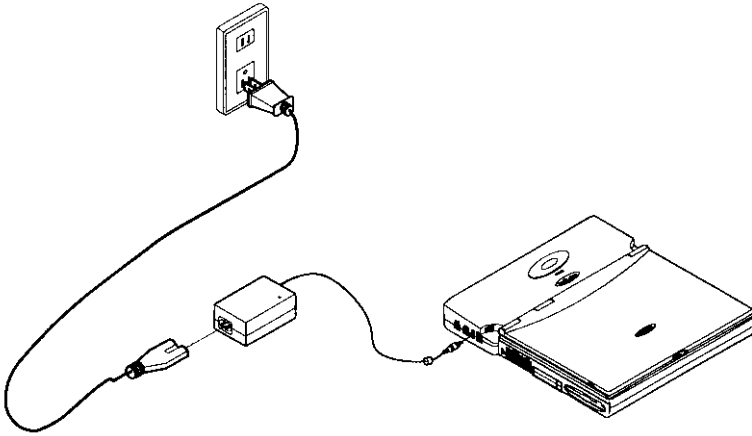


Figure 2-26

Attaching a USB-compatible Device

The Notebook provides a USB port for connecting an USB-compatible keyboard, mouse or other devices. See Figure 2-29 for information on connecting a serial mouse.

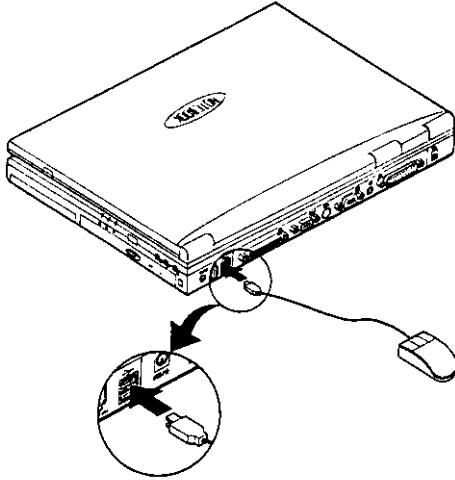


Figure 2-29

Chapter 3 : BIOS Utilities

This chapter provides information regarding the Power On Self Test (POST) and shows you how to use the System Configure Utility (SCU) to configure the system parameters. The settings made in BIOS SCU will affect the performance of the notebook.

*

Power On Self Test (POST)

*

System Configuration Utility (SCU)

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 severity of the problem). The POST also 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

Note: You may press the Spacebar key to skip the memory test.

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

POST Message: Error Detected

If an error is detected, a WARNING message will be displayed. You should either 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 back on.

Information in the System Configuration Utility

The following shows the main menu and its submenu 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	Diskette Drives, IDE Settings, Enable LS120/ZIP100 Drive.
Components	COM Ports, LPT Port, PS/2 Mouse Port, Microsoft IntelliMouse Support, Keyboard Numlock, Keyboard Repeat, TV Mode.
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) will 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.

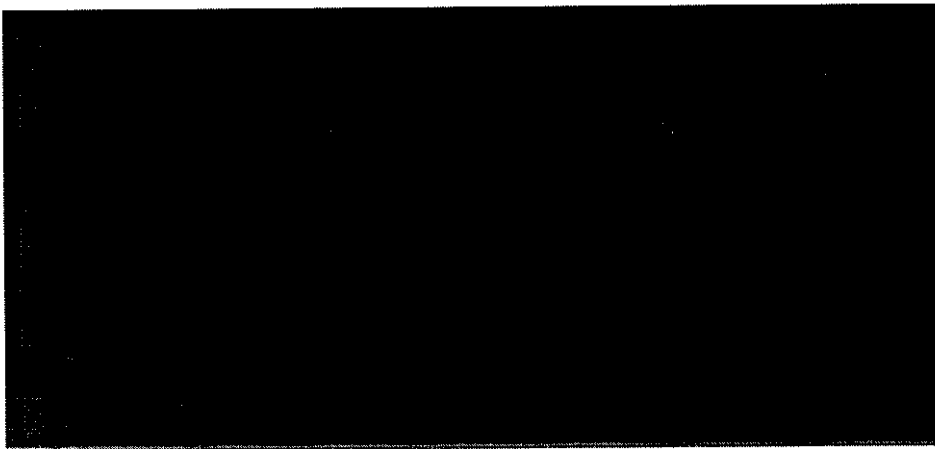


Figure 3-1
System Configuration Utility (SCU)

Working with the Menu Bar (Main Menu)

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

Action	Keys Used	Description
Activate menus	Alt	Activate the System Configuration Utility.
Select menu bar item	Left arrow (←)	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.
Accept menu item	Mouse left button Spacebar Enter	Enter the selected menu bar item to configure settings.
Cancel current action	Mouse right button Esc	Undo the current command.

Working with the Pull-down Menu (Submenu)

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

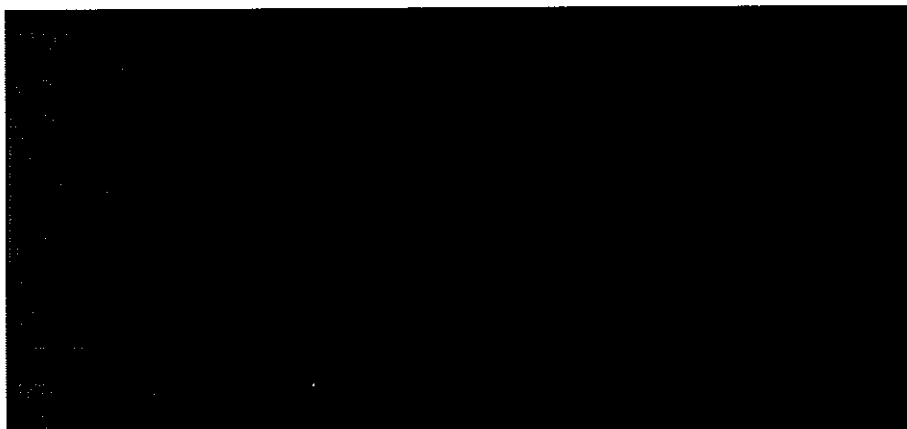
Action	Keys Used	Description
Select pull-down menu item	Down arrow (↓)	Move to the next pull-down menu item.
	Up arrow (↑)	Move to the previous pull-down menu item.
	The highlighted letter key	Move to the corresponding pull-down menu item.
Select a control	Tab	Move between the options.
Change values	Down/Up arrows (↓)(↑)	Modify the settings.
Accept entries	Spacebar	Enable/disable the specified function. When a check mark (√) appears, the function is on.
	Enter	Choose <OK> from a list of options.
Reject entries	Esc	Undo the current setting.
	Enter	Choose <Cancel> from a list of options.
Activate accelerators	Alt	Initiate all the highlighted letters corresponding to their respective options.
Quit	Esc	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	1 st Boot device	Hard Disk C	Select one of these drives as 1 st choice for the BIOS for booting the system.
		CD-ROM Drive	
		Diskette A	
	2 nd Boot Device	Hard Disk C	Select one of these drives as 2 nd choice for the BIOS for booting the system.
		CD-ROM Drive	
		Diskette A	
	3 rd Boot Device	Hard Disk C	Select one of these drives as 3 rd choice for the BIOS for booting the system.
		CD-ROM Drive	
		Diskette A	
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.

Item	Setting/Option	Function
Enable LCD Expand Mode	Enable	Stretch the display to fill the entire viewing area of the LCD panel.
	Disable	Disable the above.
Enable power on Beep	Enable	The system emits a beep sound when the system power is on.
	Disable	Disable the above.
Boot Password	Enter old Power-On Password	Set password for booting computer. Users are authorized to start the system after entering correct password.
	Enter new Power-On Password	
	Verify new Power-On Password	
	Enable Password to Power-On	
SCU Password	Enter old Setup Password	Set password for modifying SCU. Users are authorized to change the SCU setting after entering correct password.
	Enter new Setup Password	
	Verify new Setup Password	
	Enable Setup Password	



Memory Menu

Item	Setting/Option		Function
Cache Systems	L1 Cache	Disabled	Disable the processor's internal cache.
		Write Back	Enable the write-back policy for L1 memory to access only when necessary to update the cache contents with changes for faster performance.
	L2 Cache	Disabled	Disable the L2 cache controller.
		Write Back	Enable the write-back policy for L2 memory to access only when necessary to update the cache contents with changes for faster performance.
	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.

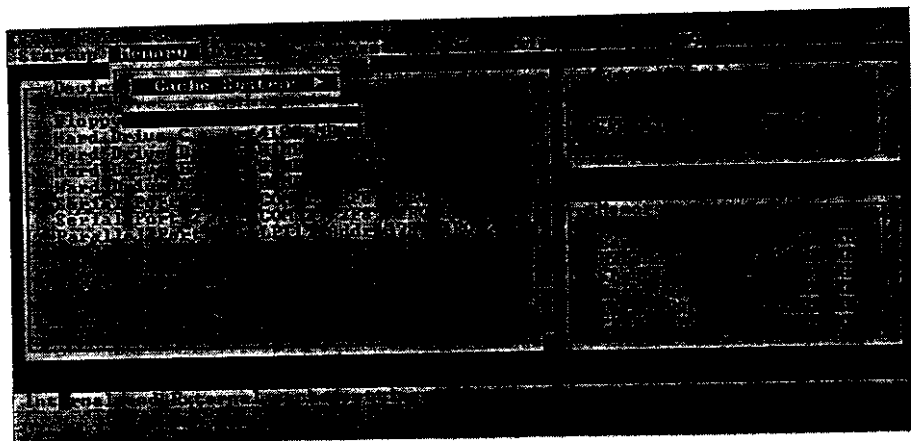


Figure 3-3 Memory Menu

Disks Menu

Disks Menu			Function
Item	Setting/Option		
Enable LS120/ ZIP100 Drive	Enable		Enable or disable LS120 /IOMEGA ZIP 100 support.
	Disable		
Diskette Drives	Drive A	None	Configure diskette drives A and B.
		1.44 MB	
		2.88 MB	
IDE Settings	Primary HDD	Drive Enabled	Enable enhanced IDE settings. ZIP device does not Support for this model.
		PIO Mode	
	CD-ROM/DVD- ROM	Drive Enabled	
		PIO Mode	
	LS120/ZIP/2nd HDD	Drive Enabled	
		PIO Mode	

Figure 3-4 Disks Menu

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 & 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 & 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	Set the DMA channel for the Infrared port if FIR mode is used.
		DMA 1	
		DMA 3	
LPT Port	Port Address	None	Select parallel (printer) port I/O address and IRQ assignment.
		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	Set the DMA channel for the parallel port if the ECP mode is used.
		DMA 3	
	EPP Type	EPP 1.7	Set the current type for EPP.
		EPP 1.9	

Item	Setting/Option		Function
PS/2 Mouse Port	Enable		Enable Onboard PS/2 Mouse Port.
	Disable		Disable the PS/2 mouse if IRQ resource is not enough.
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	¼ sec	The repeat key feature will be delayed by the selected time value.
		½ sec	
		¾ sec	
		1 sec	

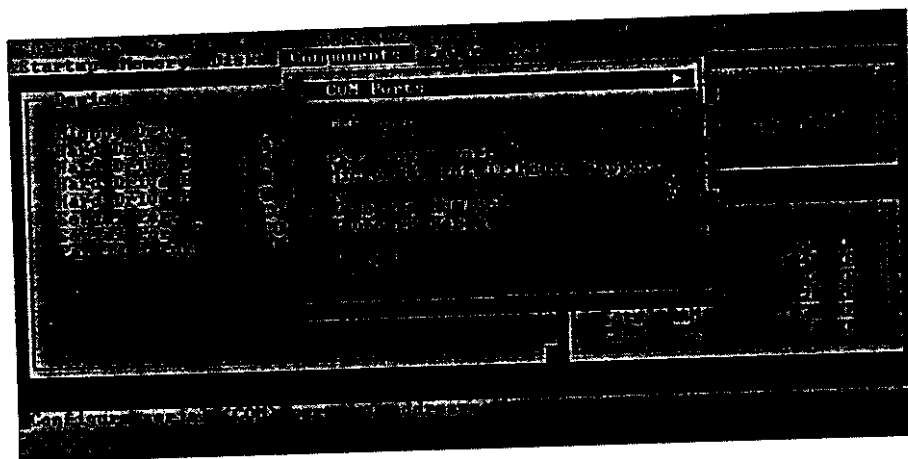


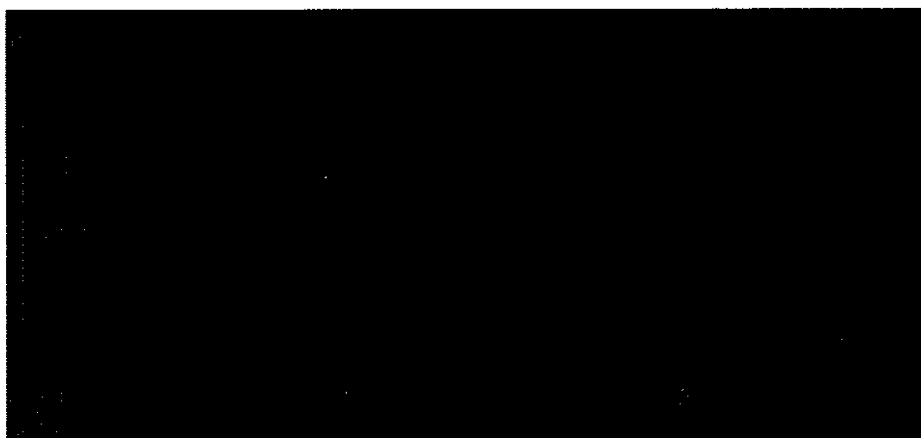
Figure 3-5 Components Menu

Power Menu

Item	Setting/Option		Description
Enable Power Saving	Enable		Enable/Disable all power saving features.
	Disable		
Low Power Saving	Enable		Enable/Disable the power saving to its lowest settings which results in max performance but shortest battery life.
	Disable		
Medium Power Saving	Enable		Enable/Disable the power saving to its medium settings which results in both moderate performance and battery life.
	Disable		
High Power Saving	Enable		Enable/Disable the power saving to its highest setting which results in min. performance but longest battery life.
	Disable		
Customize	Disk Standby	Always on	The hard disk will be powered down if it is not accessed within the specified period. Hard disk power will be restored when the disk drive is accessed again.
		5 sec	
		10 sec	
		15 sec	
		20 sec	
		30 sec	
	Global Standby	Always on	The system power will be reduced if the system has been idle for the specified period. System power will be restored when any system activity is detected.
		1 min	
		2 min	
		4 min	
		6 min	
		8 min	
		12 min	
		16 min	

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 type of hardware suspend mode for power management.
		Suspend To RAM	
		Powered On Suspend	
	Suspend Timeout	Never	If the system has been idle for the specified period, the system will enter user-defined suspend.
		1 min	
		5 min	
		10 min	
		20 min	
		30 min	
Resume Timer	Alarm Resume	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 suspend mode when a modem ring is detected.
	Disable		Disable the above.
Enable Battery Low Suspend	Enable		Enable suspend to disk on a low battery condition.
	Disable		Disable the above.
Advance CPU Controls	Clock Control Mechanism	Full Speed	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	Set the current setup to 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.

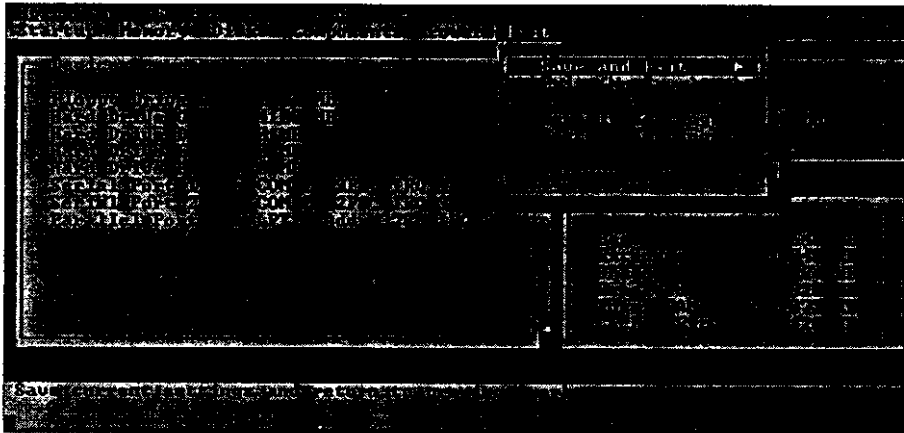


Figure 3-7 Exit Menu

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 battery pack 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 configured 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 completely inserted into the socket or inserted in reverse.

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 into.*

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.



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.

Printer

Problem: *The printer can not be set up.*

Solution : The printer power cord is not plugged into or the connector is not correctly connected.

Problem: *The printer can not work.*

Solution 1 : The printer is not powered on. Please turn on the printer.

Solution 2 : The printer is not in "connected" status. Please set the printer in "connected" status.

Solution 3 : The printer paper is used up. Please add the paper.

Solution 4 : The printer driver is not installed or correctly chosen. Please check the system.

Solution 5 : The printer for network is not connected with the network.

Problem: *The printer prints incorrect data.*

Solution 1 : The printer driver is not installed or correctly chosen.

Solution 2 : The printer power cord is not plugged into or the connector is not correctly connected.

ATI DVD Play Station (Option)

Problem: *When the DVD station is playing, pressing any (Fn) Hot keys quickly at the same time, the DVD station will stop running in the normal Windows system.*

Solution: Please avoid pressing the Hot key quickly and continuously. For example, when use the Fn key to control the voice volume, press the Fn key, stopping seconds each time before pressing again. Or go to Windows 95/98, click the icon of volume at the right-bottom corner to control the voice volume.

Chapter 5 : Installing Drivers

This chapter provides users the step-by-step instructions of installing device drivers and utilities. This chapter is designed for notebook beginners as well as advanced users. Please follow the steps and suggestions below to start a new notebook computer work.

Use the CD for drivers in the Package; prepare a DOS startup disk and DOS files before installing drivers for the first.

For more details and operating help, please contact your service dealer.

* **Installing Windows 95**

* **Installing Windows 98**

* **Drivers for Windows 95**

* **Drivers for Windows NT4.0**

* **Drivers for Windows 98**

Preparation

Preparation for a new notebook:

1. Use a DOS startup disk to start the Notebook Computer.
2. Run FDISK utility from DOS to create a bootable partition.
After A: prompt, type fdisk. (A: fdisk) Choose "1" to create hard disk as drive C:
(See DOS manual for the operation detail.)
3. Format hard disk. Follow the command "Format C:/S" to create a bootable hard disk and a bootable floppy disk. (A: format C)
(C:/S copies system files to the formatted disk)
4. Copy the file [MSCDEX.EXE] from DOS disk to drive C:
5. Insert the disk of the CD-ROM driver. Type "Install" after A prompt (A: install) See the driver manual for detail.
6. Restart the system

Installing Windows 95 (For Reference)

1. Start DOS.
2. Insert the Windows 95 CD-ROM.
3. Go to the "setup" directory
4. After the directory prompt, type "setup", then press [Enter].

5. After the Windows 95 setup program performs a routine check on your system, press [enter] to continue.
6. When the "Welcome to Windows 95 Setup" screen appears, click "Continue".
7. Click "Yes" on the "License Agreement" screen.
8. Click "Next" to select "Collecting Information about your computer".
9. Click "Next" to select the default of "C:\WINDOWS", or enter a different directory.
10. On the screen of "Setup Options", select "Portable", then click "Next".
11. On the screen of "Certificate of Authenticity", enter the Product Identification Number, then click "Next".
12. On the screen of "User Information", enter your name and company, then click "Next".
13. Analyzing your computer, click "Next".
14. Select "Install the most common components (recommended)", then click "Next".
15. On the screen of "Startup Disk", insert a blank diskette into drive A to create a startup diskette.
16. The Setup Wizard is now copying files. After the copying is finished, remove the disk, then click "OK".
17. Click "Next" to start copying Windows 95 files to your computer.
18. Click "Finish" to restart Windows 95.
19. 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.
20. Click "OK" to restart the computer.

Installing Windows 98 (For reference)

1. Start DOS.
2. Insert the Windows 98 CD-ROM.
3. Go to the "setup" directory, 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 Contract.
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: Run USB supplement path update file

- 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

Preparation:

Before ATI VGA installation, firstly insert the CD; click the directory [Directx]. Choose [Dxsetup]/[Reinstall Directx] and press [OK]. The program will automatically restart the system. The DirectX 6.0 will be already installed in your software.

- μ Click "Start".
- μ Select "Run".

- μ Open the path "D:\Video\WIN9X.
- μ Run "setup.exe" to finish installation.

Note:

When ATI VGA driver has existed in the system, click "Start", select "Run", open the path "atiuinst-clean", and then double-click "OK" to uninstall the original VGA drivers and then update the VGA drivers.

Step 4: Installing Audio Driver

- μ Click "Start".
- μ Select "Settings".
- μ Click "Control Panel"/"System"/"Device Manager".
- μ Select "Other devices".
- μ Remove "Unknown 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 "Ok".
- μ Click "Finish" to set up the first audio driver.

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\system\pci.vxd] [C:\windows\inf\pcmcia.inf]

Step 6: Installing ATI DVD Play (Option) Driver

Note:

Firstly make sure that it has already successfully installed the VGA drivers, Audio Driver and DirectX5/DirectX6.

- Boot the system; press Ctrl+Alt+S to enter SCU system. Select [Power]. Enable [Low Power Saving], or Select [Advance CPU control] to set [Full Speed]. (If the clock of Intel Pentium II is above 366MHz/400MHz or if your DVD runs smoothly, you can skip the step).
- In the windows system, click [Start]; select [Setting], [Control Panel], and [System]. Open [Device Manager]; select [CDROM]. Click the item including the type of [DVD-ROM], and [Setting]; then enable [DMA] in Options.
- Insert the CD of Ati-DVD-Play application and the program will automatically run the installation until finished. Otherwise, click [Start] in the windows system. Select [Run]. Open the path [D:\Atiplay\setup.exe]. Run [setup.exe] to finish the installation.

Step 8: Using Infrared Wireless Communication

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

Installing Drivers in Windows 98

Step 1: Installing VGA Driver

Preparation:

Before ATI VGA installation, firstly insert the CD; click the directory [Directx]. Choose [Dxsetup] [Reinstall Directx] and press [OK]. The program will automatically restart the system. The DirectX 6.0 will be already installed in your software.

- μ Click "Start".
- μ Select "Run".
- μ Open the path "D:\Video\WIN9X".
- μ Run "setup.exe" to finish installation.

Note:

When ATI VGA driver has existed in the system, click "Start", select "Run", open the path "atiuinst-clean", and then double-click "OK" to uninstall the original VGA drivers and then update the VGA drivers.

Step 2: Installing Audio Driver

- μ Click "Start".
- μ Select "Settings".

- μ Click "Control Panel".
- μ Select "system".
- μ Click "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". Choose [PCI Multimedia Audio Device].
- μ Click "Next".
- μ Click "Browse" to specify the location.
- μ Open the path "D:\audio\Win95".
- 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.

Step 4: Installing ATI DVD Play (Option) Driver

Note:

Firstly make sure that it has already successfully installed the VGA drivers, Audio Driver and DirectX6.

- Boot the system; press Ctrl-Alt-S to enter SCU system. Select [Power]. Enable [Low Power Saving], or Select [Advance CPU control] to set [Full Speed]. (If the clock of Intel Pentium II is above 366MHz/400MHz or if your DVD runs smoothly, you can skip the step).
- In the windows system, click [Start]; select [Setting], [Control Panel], and [System]. Open [Device Manager]; select [CDROM]. Click the item including the type of [DVD-ROM], and [Setting]; then enable [DMA] in Options.
- Insert the CD of Ati-DVD-Play application and the program will automatically run the installation until finished. Otherwise, click [Start] in the windows system. Select [Run]. Open the path [D:\Atiplay\setup.exe]. Run [setup.exe] to finish the installation.

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".
- μ Select "Multimedia", and then select "Devices".
- μ Click "Add" and "Unlisted or Updated Driver", "Ok".
- μ Select [Browse] to open the path [D:\audio\NT4.0]
- μ Select "OK".
- μ Restart NT 4.0 system.

Appendix A: Specifications

The following are the features and specifications of the notebook computer:

Processor

- Intel® Celeron™ processors with 128KB integrated full speed L2 cache. (Packaged in a 370 pins PPGA Socket)

Memory

- Provide 64-bit data bus system memory
- Two 144 pins SODIMM sockets, support 3.3V EDO, Sync DRAM
SODIMM EDO DIMM: must use 60ns or faster, Sync DRAM
SODIMM: must use 75 MHz or faster
- Expandable memory up to 64 MB SODIMM Module

System BIOS

- One 256KB Flash ROM
- SystemSoft BIOS with Smart Battery
- Plug and Play (1.0a)
- ACPI 1.0 256KB Flash ROM

Display

- XGA TFT flat panel 13.3"
- AGP 2X
- Complete 64-bit hardware 2D / 3D Accelerator Graphics Engine

- Motion Compensation
- 4MB display memory SGRAM type (100MHz)
- Support TFT panel resolution up to 1024x768x16M
- CRT resolution up to 1280x1024x16M (non-interlaced)
- Tri-view™ for triple display devices, CRT and LCD
- Support Zoomed Video Port
- Support Software MPEG II



Storage

- One removable intelligent bay for 3.5" 3-mode FDD / 12.7 mm(h)
LS-120/ 2.5" 12.7mm(h) 2nd HDD/ 2nd Battery
- One easy change bay for / CD-ROM(24X
speed or up)
- Removable 2.5" 12.7mm (h) HDD, support LBA mode
- Support DMA mode 2/ PIO mode 4/ ATA-33 (Ultra DMA) IDE



Audio

- 3D stereo enhancement sound system
- Full duplex support
- Compatible with Sound-Blaster PRO™ version 3.01
- Built in microphone
- Built in 2 speakers
- Wavetable Download

 PC Card Sockets

- Two (PCI) PCMCIA 3.3V/5V sockets , type II x2
- Support Zoom Video Port (Socket A)
- CardBus (PC Card95)

 Input/Output

- Built in Trackpad (PS/2)
- Dual USB ports
- One serial port
- One parallel port (LPT1)
- One Infrared (FIR) file transfer
- One external CRT monitor

- One External keyboard / Mouse (PS/2 type) port
- One line-in jack
- One headphone jack
- One microphone jack

- One (120 pins) connector for Port Replicator
- DC-in jack

 Infrared Wireless Communication

- Wireless Infrared: 4M bps data rate/ 1cm ~1M operating distance, and compliant with IrDA 1.1 or ASKIR (SHARP standard)

 Power Management

- Support ACPI v1.0
- Support APM v1.2
- CPU Over Temperature Protection
- Device Power Management for all devices
- Support suspend to disk (APCI mode exclude)
- Battery low suspend
- Resume from alarm time/modem ring (Com Port only)

 Power

- Full Range AC adapter – AC in 100~240V,47~63Hz.
- Support two packs, removable Lithium-Ion Battery or Ni-MH Battery

 Size & Weight

- 316(w) x 256(d) x 38.5(h) mm³
- 3.5 kg

 Keyboard

- A4 size Win 95 keyboard

Appendix B: I/O Port Pin Assignments

Parallel Port

Pin	Description	Pin	Description
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 Feed#
15	Error#	16	Initialize#
17	Select In	18	Ground
19	Ground	20	Ground
21	Ground	22	Ground
23	Ground	24	Ground
25	Ground		

RS-232C Serial Port

Pin	Description
1	DCD (DATA Carrier Detect)
2	RXD (Received Data)
3	TXD (Transmitted Data)
4	DTR (Data Terminal Ready)
5	GND (Signal Ground)
6	DSR (Data Set Ready)
7	RTS (Request To Send)
8	CTS (Clear To Send)
9	RI (Ring Indicator)

External Monitor Port

Pin	Description	Pin	Description	Pin	Description
1	RED	6	GND	11	NC
2	GREEN	7	GND	12	DDCDA
3	BLUE	8	GND	13	HSYNC
4	NC	9	NC	14	VSYNC
5	GND	10	GND	15	DDCLK

PS/2 Type Port

Pin	Description
1	EKDA
2	EMDK
3	GND
4	VCC
5	EKCLK
6	EMCLK
7	GND
8	GND
9	GND

USB Port

Port A:

Pin	Description
1	USB VCCA
2	USBP0-
3	USBP0+
4	GND

Port B:

Pin	Description
1	USB VCCB
2	USBP1-
3	USBP1+
4	GND

PC Card Sockets

Socket A:

Pin	Description		Pin	Description	
	CardBus	16Bit Card		CardBus	16Bit Card
A1	GND	GND	A40	A_VPP2	A_VPP2
A2	GND	GND	A41	A_CCLK	A_A16
A3	A_CAD0	A_D3	A42	GND	GND
A4	A_CCD1#	A_CD1#	A43	A_CTRDY#	A_A22
A5	A_CAD14	A_D4	A44	A_CIRDY#	A_A15
A6	A_CAD2	A_D11	A45	A_CFRAME#	A_A23
A7	A_CAD3	A_D5	A46	A_CC/BE2#	A_A12
A8	A_CAD4	A_D12	A47	A_CAD17	A_A24
A9	GND	GND	A48	A_CAD18	A_A7
A10	A_CAD5	A_D6	A49	GND	GND
A11	A_CAD6	A_D13	A50	A_CAD19	A_A25
A12	A_CAD7	A_D7	A51	A_CAD20	A_A6
A13	RFU	A_D14	A52	A_CVS2	A_VS2#
A14	A_CC/BE0#	A_CE1#	A53	A_CAD21	A_A5
A15	A_CAD9	A_D15	A54	A_CRST	A_RESET
A16	A_CAD10	GND	A55	A_CAD22	A_A4
A17	A_CAD9	A_A10	A56	A_CSERR#	A_WAIT#
A18	A_CAD10	A_CE2#	A57	GND	GND
A19	A_CAD11	A_OE#	A58	A_CAD23	A_A3
A20	A_CVS1	A_VS1#	A59	A_CREQ#	A_INPACK
A21	A_CAD12	A_A11	A60	A_CAD24	A_A2
A22	GND	GND	A61	A_CC/BE3#	A_REG#
A23	A_CAD13	A_IORD#	A62	A_CAD25	A_A1
A24	A_CAD14	A_A9	A63	A_CAUDIO#	A_BVD2
A25	A_CAD15	A_IOWR#	A64	A_CAD26	A_A0
A26	A_CC/BE1#	A_A8	A65	GND	GND

Pin	Pin 1-10	Pin 11-20	Pin 21-30	Pin 31-40	Pin 41-50
A27	A_CAD16	A_CAD16	A66	A_CSTSCHG	A_BVD1
A28	GND	GND	A67	A_CAD27	A_D0
A29	A_CPAR	A_A13	A68	A_CAD28	A_D8
A30	RFU	A_A18	A69	A_CAD29	A_D1
A31	A_CPERR#	A_A14	A70	A_CAD30	A_D9
A32	A_CBLOCK#	A_A19	A71	RFU	A_D2
A33	A_CGNT#	A_WE#	A72	A_CAD31	A_D10
A35	A_CINT#	A_CINT#	A73	GND	GND
A36	A_CDEVSEK#	A_CDEVSEL#	A74	A_CCLKRUN#	A_WP
A37	A_VCC	A_VCC	A75	A_CCD2#	A_CD2#
A38	A_VCC	A_VCC	A76	GND	GND
A39	A_VPP1	A_VPP1	A77	GND	GND

Socket B:

Pin	Pin 1-10	Pin 11-20	Pin 21-30	Pin 31-40	Pin 41-50
B1	GND	GND	B40	B_VPP2	B_VPP2
B2	GND	GND	B41	B_CCLK	B_A16
B3	B_CAD0	B_D3	B42	GND	GND
B4	B_CCD1#	B_CD1#	B43	B_CTRDY#	B_A22
B5	B_CAD14	B_D4	B44	B_CIRDY#	B_A15
B6	B_CAD2	B_D11	B45	B_CFRAME#	B_A23
B7	B_CAD3	B_D5	B46	B_CC/BE2#	B_A12
B8	B_CAD4	B_D12	B47	B_CAD17	B_A24
B9	GND	GND	B48	B_CAD18	B_A7
B10	B_CAD5	B_D6	B49	GND	GND
B11	B_CAD6	B_D13	B50	B_CAD19	B_A25
B12	B_CAD7	B_D7	B51	B_CAD20	B_A6
B13	RFU	B_D14	B52	B_CVS2	B_VS2#
B14	B_CC/BE0#	B_CE1#	B53	B_CAD21	B_A5
B15	B_CAD9	B_D15	B54	B_CRST	B_RESET
B16	B_CAD10	GND	B55	B_CAD22	B_A4
B17	B_CAD9	B_A10	B56	B_CSERR#	B_WAIT#
B18	B_CAD10	B_CE2#	B57	GND	GND
B19	B_CAD11	B_OE#	B58	B_CAD23	B_A3

Pin	Description		Pin	Description	
	CardBus	16Bit Card		CardBus	16Bit Card
B20	B_CVS1	B_VS1#	B59	B_CREQ#	B_INPACK
B21	B_CAD12	B_A11	B60	B_CAD24	B_A2
B22	GND	GND	B61	B_CC/BE3#	B_REG#
B23	B_CAD13	B_IORD#	B62	B_CAD25	B_A1
B24	B_CAD14	B_A9	B63	B_CAUDIO#	B_BVD2
B25	B_CAD15	B_IOWR#	B64	B_CAD26	B_A0
B26	B_CC/BE1#	B_A8	B65	GND	GND
B27	B_CAD16	B_CAD16	B66	B_CSTSCHG	B_BVD1
B28	GND	GND	B67	B_CAD27	B_D0
B29	B_CPAR	B_A13	B68	B_CAD28	B_D8
B30	RFU	B_A18	B69	B_CAD29	B_D1
B31	B_CPERR#	B_A14	B70	B_CAD30	B_D9
B32	B_CBLOCK#	B_A19	B71	RFU	B_D2
B33	B_CGNT#	B_WE#	B72	B_CAD31	B_D10
B35	B_CINT#	B_CINT#	B73	GND	GND
B36	B_CDEVSEK#	B_CDEVSEL#	B74	B_CCLKRUN#	B_WP
B37	B_VCC	B_VCC	B75	B_CCD2#	B_CD2#
B38	B_VCC	B_VCC	B76	GND	GND
B39	B_VPP1	B_VPP1	B77	GND	GND