

EUT:NOTEBOOK PC

FCC ID:L4PK1100LTS12

KAPOK COMPUTER CO.,

USER'S MAUNAL

Notice

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1998

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Warranty Provisions

Keep the product's bar code legible to protect your right for warranty services.

The manufacturer warrants this personal computer to be in working order for a period of one year from the date of shipment. If this product fails within the one year warranty period the manufacturer will, at its option, repair or replace the product at no charge except as set forth below.

Warranty service will be furnished on an exchange basis. The manufacturer may repair or replace your product with a new or reconditioned one. Any replaced components or parts become the property of the manufacturer.

No warranty is expressed or implied for products damaged by accident, abuse, misuse, acts of god, or un-authorized modification. No warranties apply after the one year warranty period.

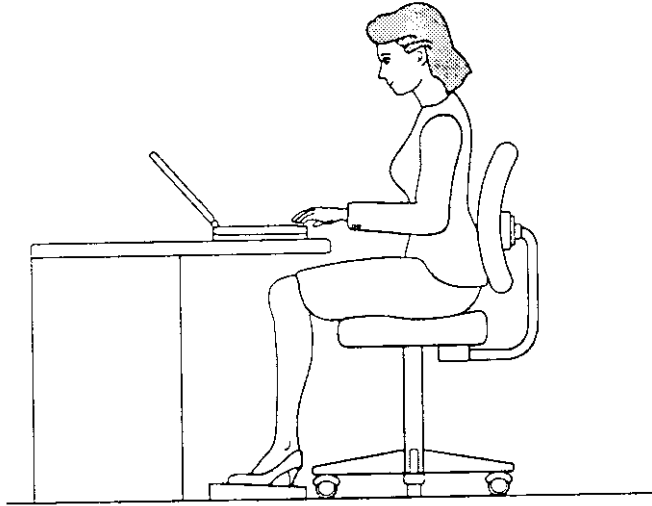
To obtain warranty service described herein, deliver the product along with proof of purchase date, to any of the manufacturer's authorized distributors during the warranty period. The owner agrees to insure the product and assume the risk of damage or loss in transit, to pay in advance all shipping charges, and to use the original shipping container (or the equivalent).

The manufacturer is not liable to any purchaser or end-user for any damages including, but not limited to, lost revenue, lost wages, lost savings, or any other incidental or consequential damages arising from the purchase, use, or inability to use this product.

10. Do not allow foreign matter to enter the system.
11. Do not attempt to service this product yourself. Opening or removing covers may expose dangerous voltage points. Refer all repair work to qualified service personnel.
12. Unplug this product from the wall outlet, do not operate it, and immediately seek proper servicing if:
 - The power cord or plug is damaged or frayed.
 - Liquid or foreign matter has entered this product.
 - This product has been exposed to rain or water.
 - This product has been dropped or damaged.
 - This product exhibits a distinct change in performance, indicating a need for service.
13. Do not use any battery pack other than the one specifically designed for this system. Batteries may explode or leak if exposed to fire or improperly handled or guarded. Refer battery replacement to your dealer or qualified service personnel.
14. Only use UL listed/CSA certified, type SVT/SJT power cords rated 6A 250V minimum (VDE approved or equivalent). It should be a detachable type with a minimum length of 6 feet.
15. Adjust only those controls that are covered by these operating instructions. Improper adjustment of other controls may result in serious damage to the system and are not covered by the warranty.

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.

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Chapter 1: Getting Started

This chapter provides a short introduction and tutorial that will familiarize you with the Notebook system and get you up and running quickly. This chapter will discuss:

- ▣ Unpacking
- ▣ Operating Environment
- ▣ Powering the System by AC Power Adapter
- ▣ Powering the System by Battery Pack
- ▣ Charging the Battery Pack
- ▣ Opening the LCD Cover
- ▣ Identifying all Devices and Ports
- ▣ Identifying all LED Indicators

Operating Environment

As with any other precision electronic equipment, proper care and operation of your Notebook will provide long and reliable service. Be sure the computer system is not:

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

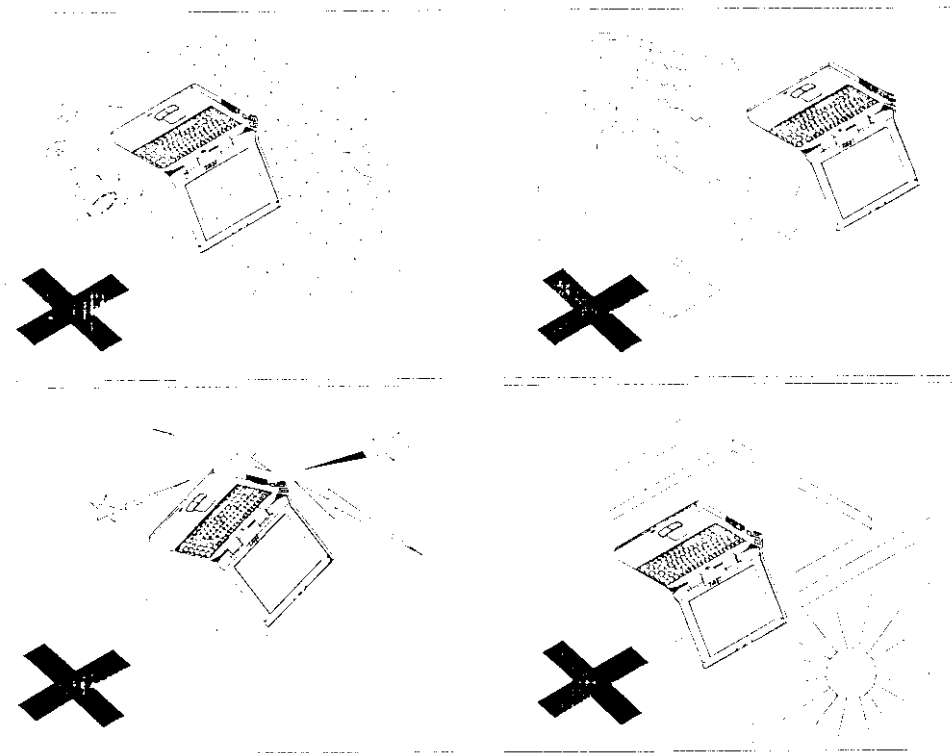


Figure 1-2

Battery Pack

Power for continuous portable operation of the Notebook is provided by a battery pack. When using the battery no external power source is required. However, the actual operating time will be determined by the application used and the configuration set.

Inserting

1. Turn the Notebook over.
2. Position the battery pack and firmly fit it into the Notebook (Figure 1-4).
3. The two latches will click into place when it is seated.

Removing

1. Turn the Notebook over.
2. Press the two latches in the direction indicated to release the battery pack. (Figure 1-5)
3. Carefully lift the battery pack from the Notebook.

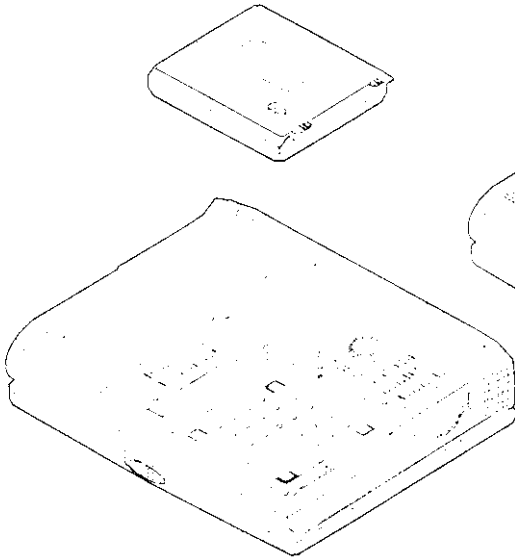


Figure 1-4

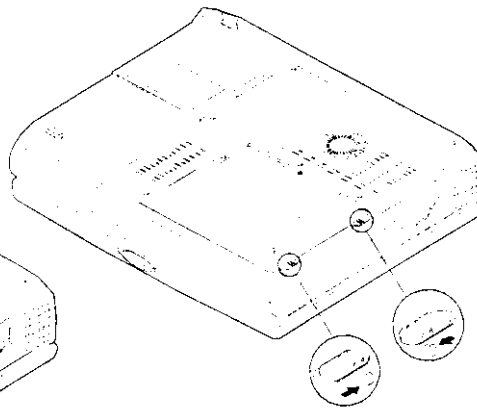


Figure 1-5

Opening the LCD Cover

1. To release the top cover slide the latch to the right (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 Chapter 1, *Top-Front View* for the information of the power button).

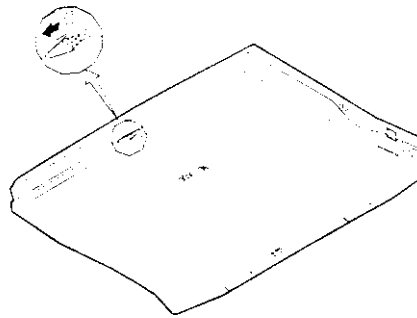


Figure 1-6

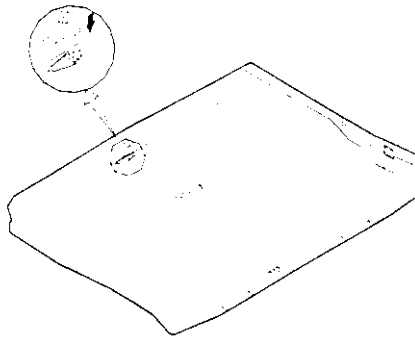


Figure 1-7

Top-Front View

LCD Panel

The Notebook provides you with a large LCD panel. Depending upon the model you have purchased, it can either be a 12.1" SVGA (800x600 pixels) compatible, TFT technology. The LCD panel is driven by a PCI local bus video controller.

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 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 Notebook utilizes a Windows 95 keyboard that is integrated with the numeric keypad. It is detachable for various language versions. You may refer to *Chapter 2: Operation* for more information.

Microphone

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

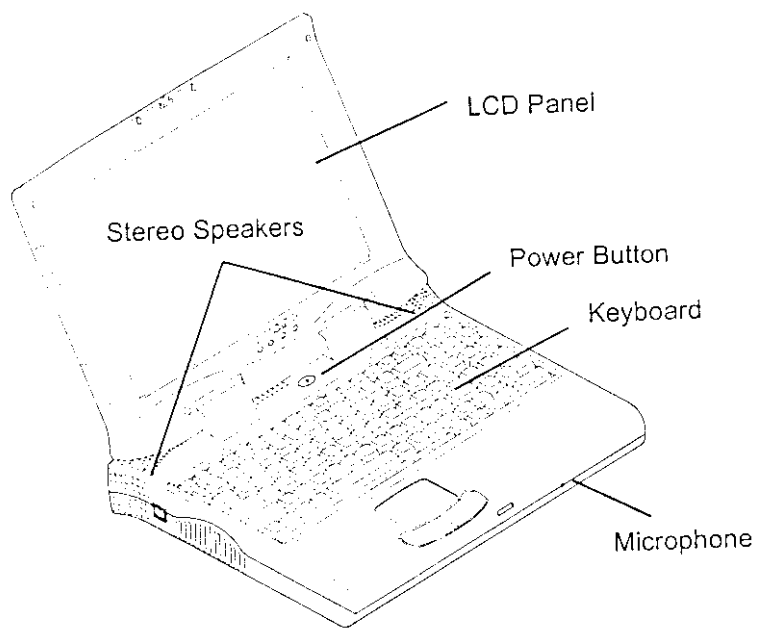


Figure 1-9

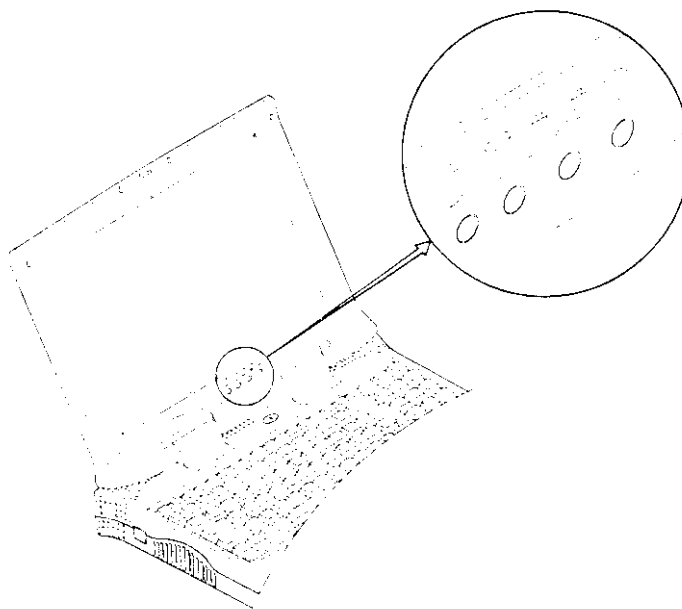


Figure 1-10

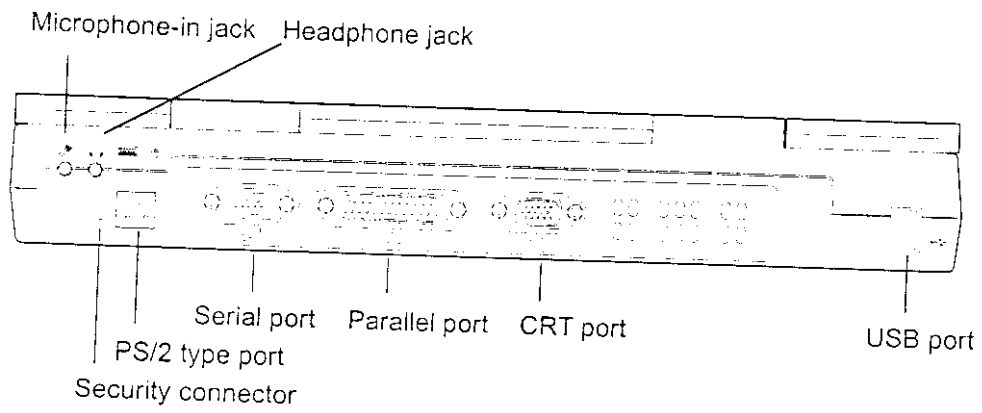


Figure 1-11

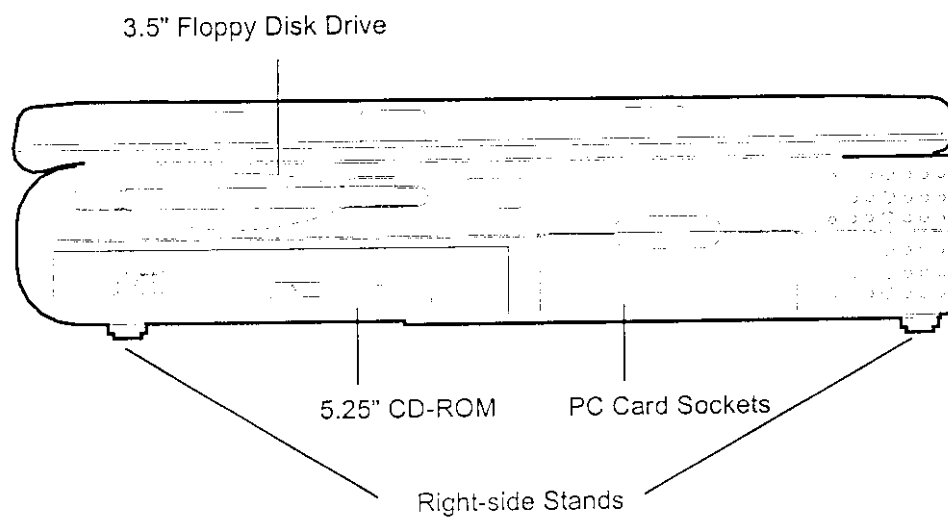


Figure 1-12

Bottom View

2.5" Hard Disk Drive

The 2.5" hard disk drive accepts any 2.5" IDE hard disk drive with a height of 12.7mm or less. Accessing the corresponding screws will allow you to install or to remove this hard disk drive. Refer to *Chapter 2: Operation*, for more information.

CPU Cover

Detaching the screws to remove the cover will reveal the microprocessor. You may upgrade the CPU for higher system performance.

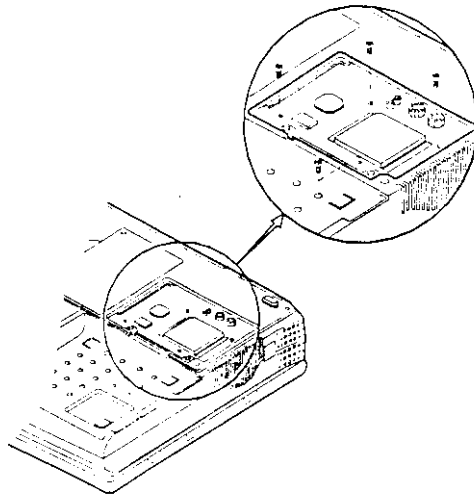
Battery Pack

This compartment houses a rechargeable battery pack of either Ni-MH or Li-Ion. To recall detailed information turn back to the section *Battery Pack*.

CD-ROM Cover

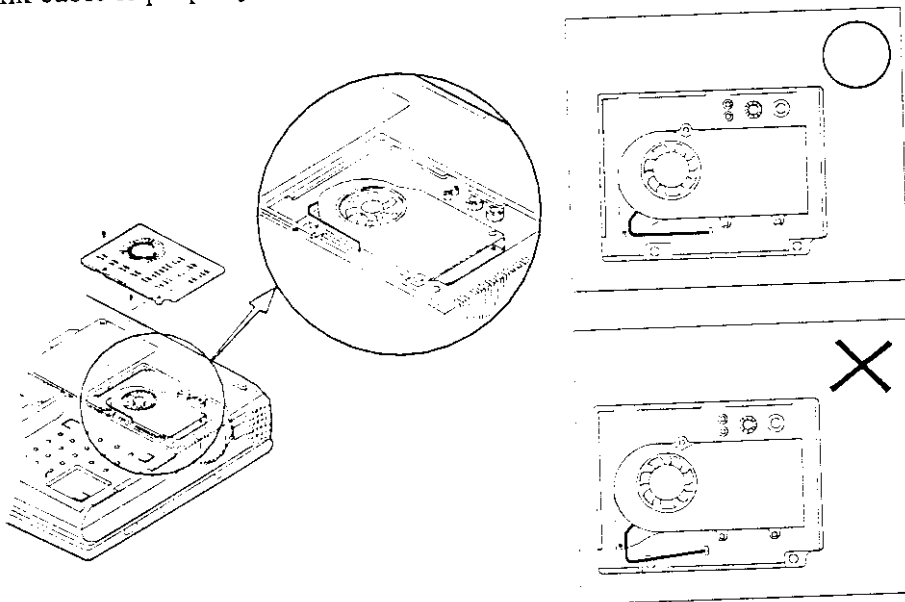
The CD-ROM cover functions for easy installation and easy removal of the CD-ROM, in case you need maintenance service during warranty period.

Replacing CPU



Reinstallation

Reinstall the CPU in the reverse order of removal. Make sure that the heat sink cable is properly installed.



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 beyond repair.

-  Upgrading CPU
-  Setting DIP Switches
-  Expanding Memory
-  Using Hard Disk Drive
-  Using Floppy Disk Drive
-  Using CD-ROM
-  Using PC Card Sockets
-  Using Hot Keys
-  Using Numeric Keypad
-  Getting Familiar with LCD Panel
-  Using Power Management
-  Attaching Peripheral Devices

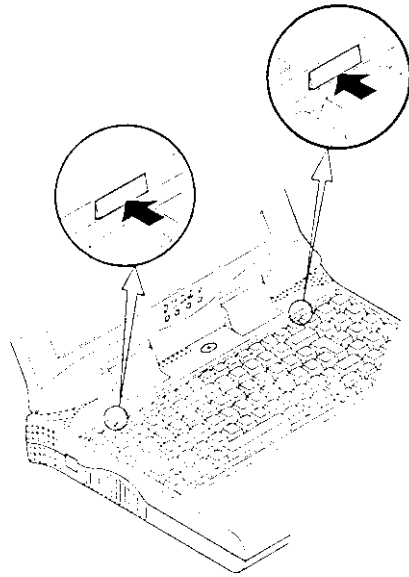


Figure 2-2

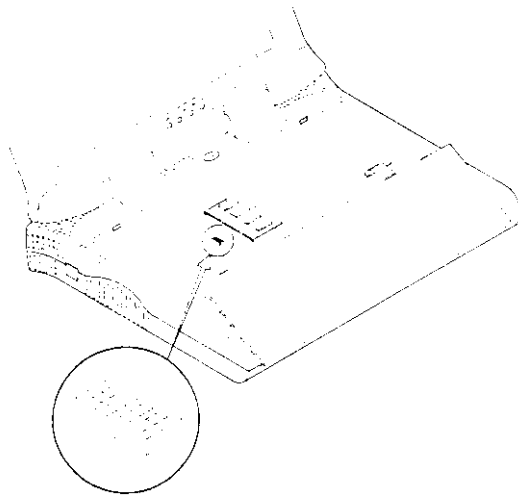


Figure 2-3

Accessing the Memory Sockets

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

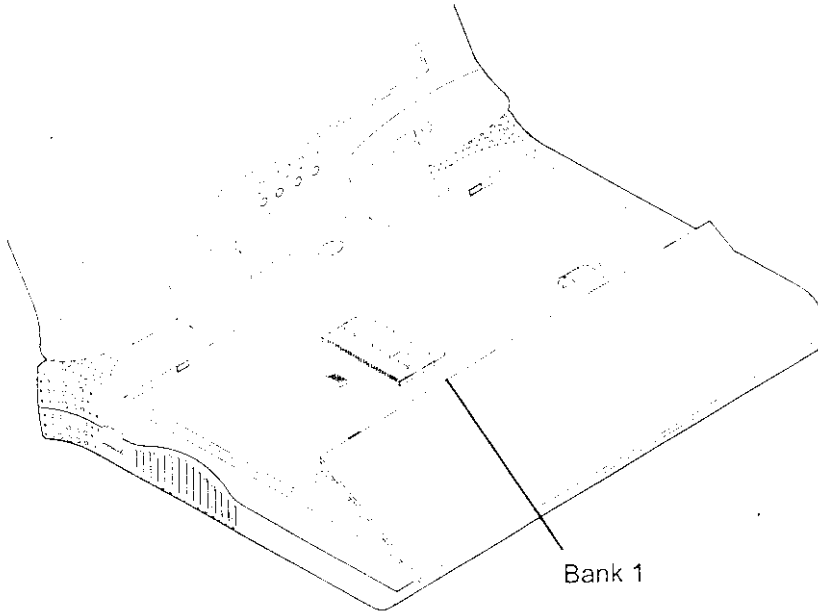


Figure 2-6

Removing Memory Module

1. Turn the system power off.
2. Press the two keyboard latches so that the keyboard can be elevated from its normal position (Figure 2-2).
3. Carefully lift the keyboard assembly out to expose the mainboard. Locate the memory sockets (Figure 2-6).
4. Gently pull the two latches on both ends of the module outward. The module will pop up (Figure 2-8).
5. Remove the memory module.
6. Reinstall the keyboard assembly.

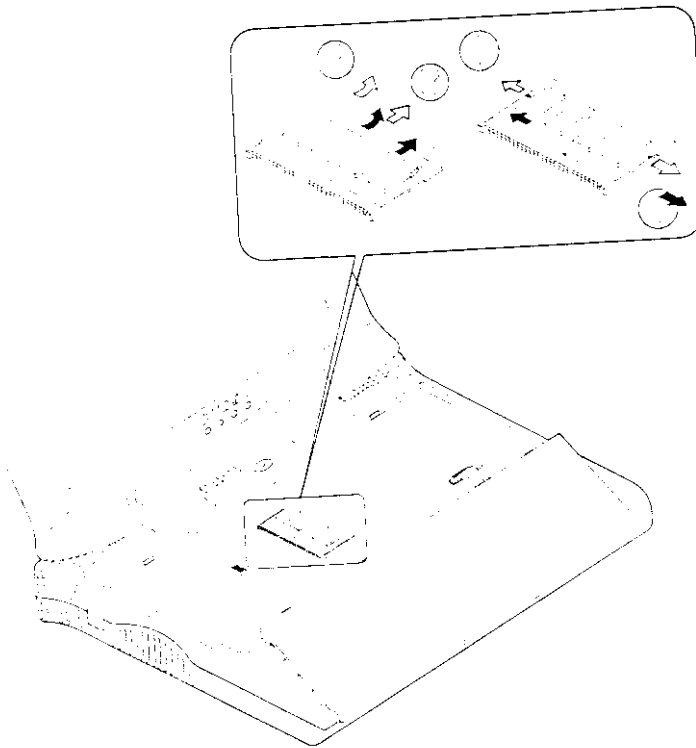


Figure 2-8

Replacing Hard Disk Drive

The hard disk drive is contained within a case. Two screws on each side of the case need to be removed so that the hard disk drive can be taken out of the case to replace with another one (Figure 2-10). **The location of the two screws may be varied depending on different hard disk models.** 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.

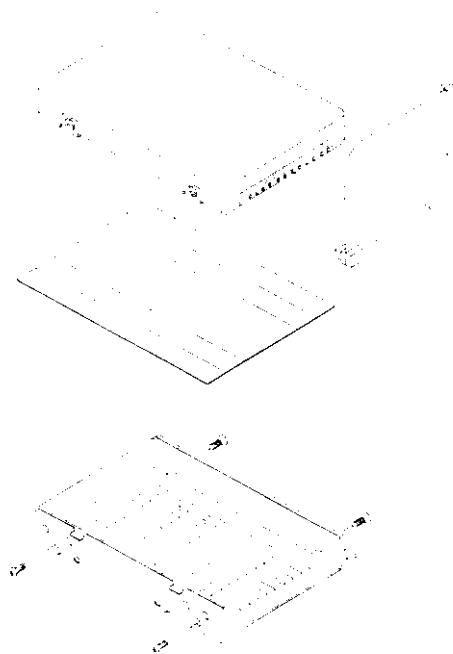


Figure 2-10

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

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

Removing CD-ROM Module

1. Turn the system power off.
2. Turn the Notebook over.
3. Remove the CD-ROM cover (Step 1 in Figure 2-13).
4. Remove the screw to release the CD-ROM module. (Step 2 in Figure 2-13).
5. Slide the CD-ROM module slightly out to disconnect the cable (Step 3 and Step 4 in Figure 2-13).
6. Pull gently and firmly the CD-ROM module away from the compartment (Step 5 in Figure 2-13).

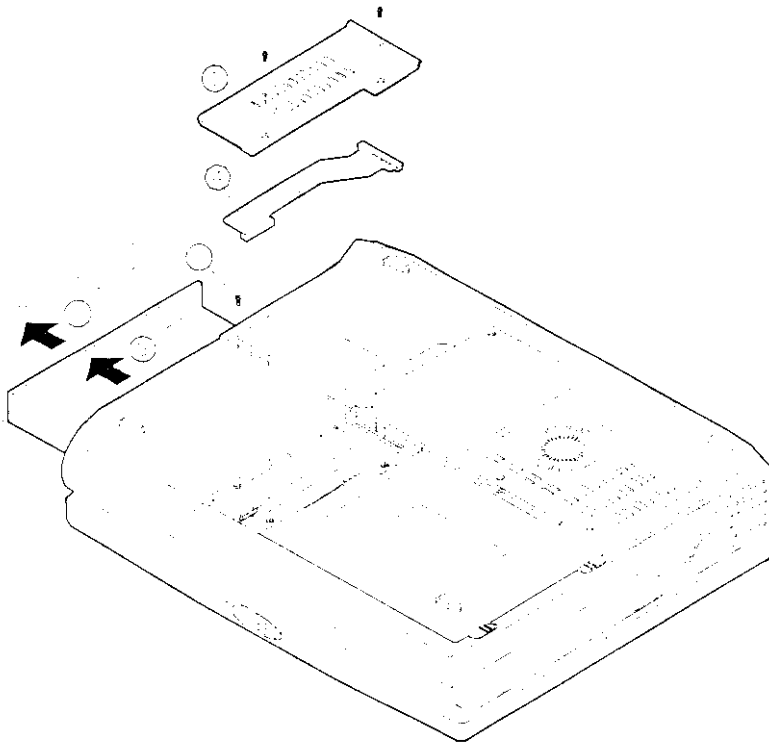


Figure 2-13

Handling of Compact Discs

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

- Hold the CD by the edges; do not touch the surface of the disc.
- Use clean, soft, dry cloth to remove dust or fingerprints.
- Do not write on the surface using pen.
- Do not attach any paper or other materials to the surface of the disk.
- Do not store or place the CD in areas where it will be exposed to high temperatures.
- Do not use benzine, thinners, or other cleaners to clean the CD.
- Do not bend the Compact Disc.
- Do not drop or subject the CDs to shock.

Removing PC Cards

To remove a PC card, press the appropriate eject button and the card will be ejected from its slot (please refer to Figure 2-17).

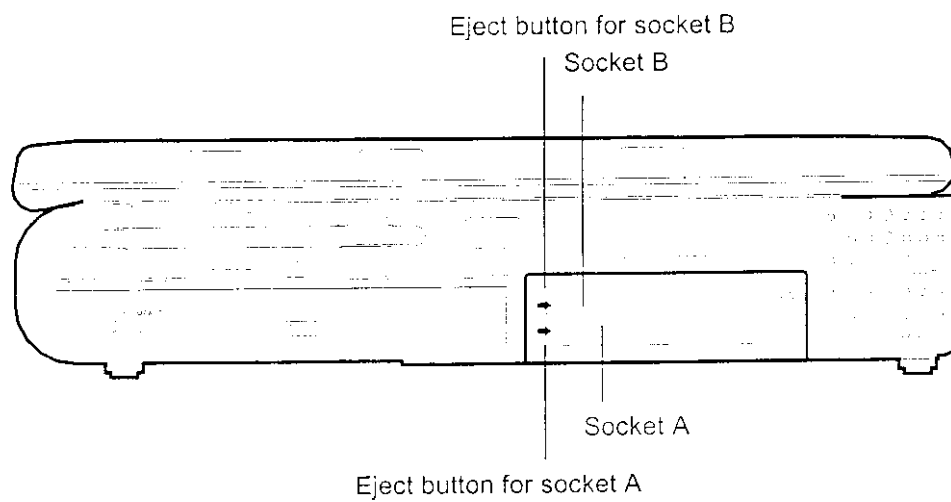


Figure 2-17

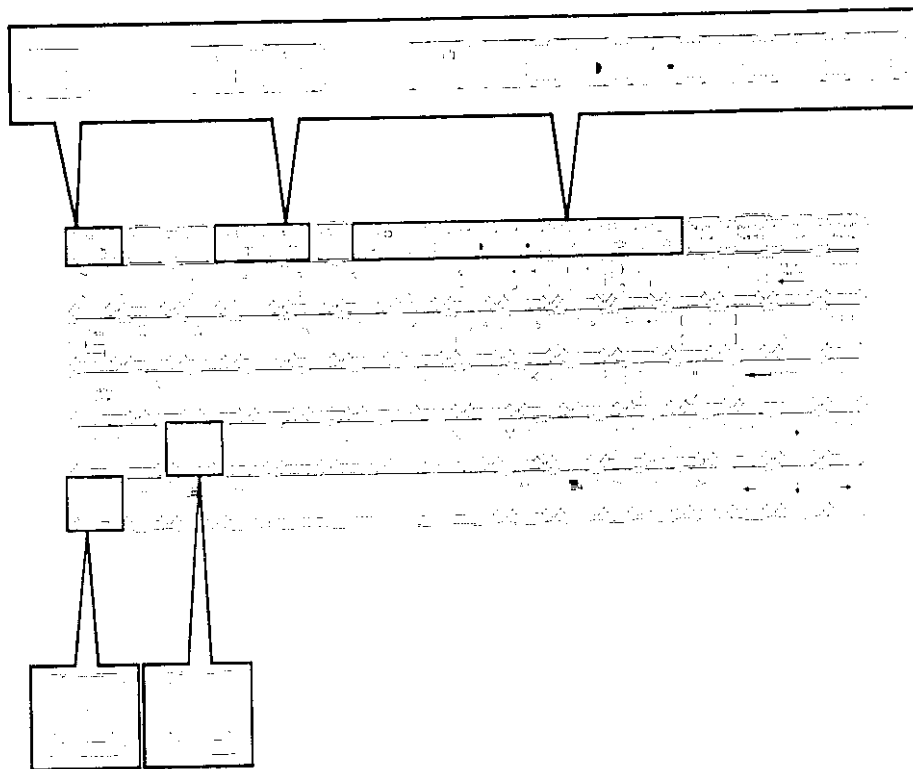


Figure 2-18

Using Power Management

The Notebook 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 Notebook provides built-in Advanced Power Management (APM 1.2) support 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.**

Hard Disk Standby

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

Global Standby

In Global Standby mode, the CPU clock will be stopped and most 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 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 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)**.

A:\>0VMAKFIL /Pn

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

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)

Attaching a Parallel Printer

You may connect any standard Centronics parallel printer to your Notebook using the parallel port.

1. Turn the system power off.
2. Connect the cable to the parallel port on the rear of the Notebook Computer (Step 1 in Figure 2-23).
3. Tighten the screws that fasten the cable to the parallel port (Step 2 in 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 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.

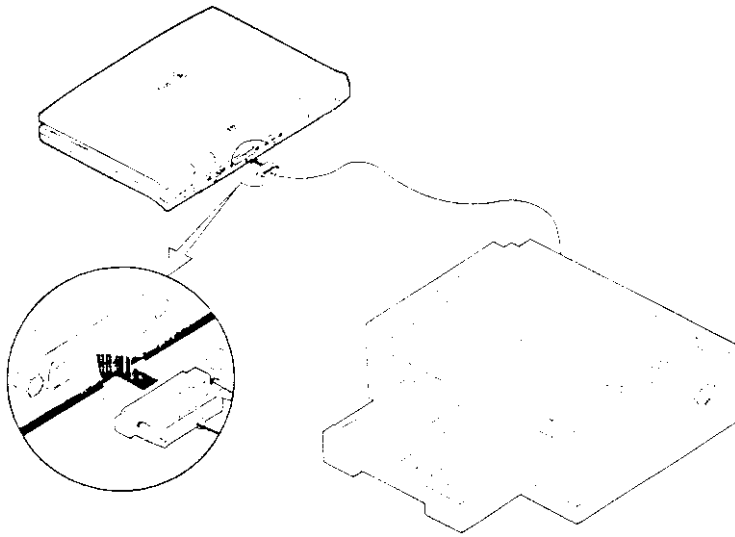


Figure 2-23

Attaching a PS/2 Keyboard or Mouse

The Notebook 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 2-21).

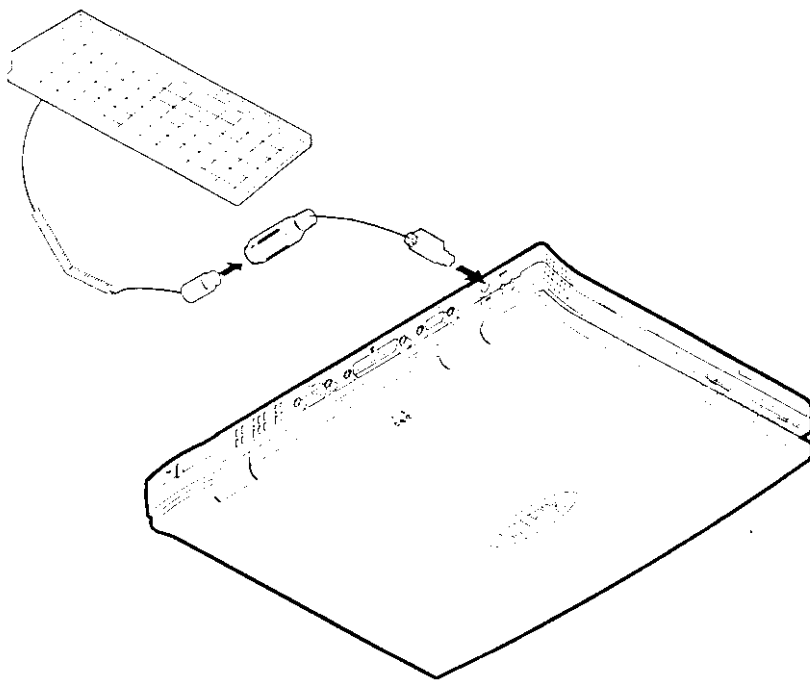


Figure 2-21

Attaching a USB-compatible Device

The Notebook provides a USB port for high-speed support only. Attach the device as shown below (Figure 2-25).

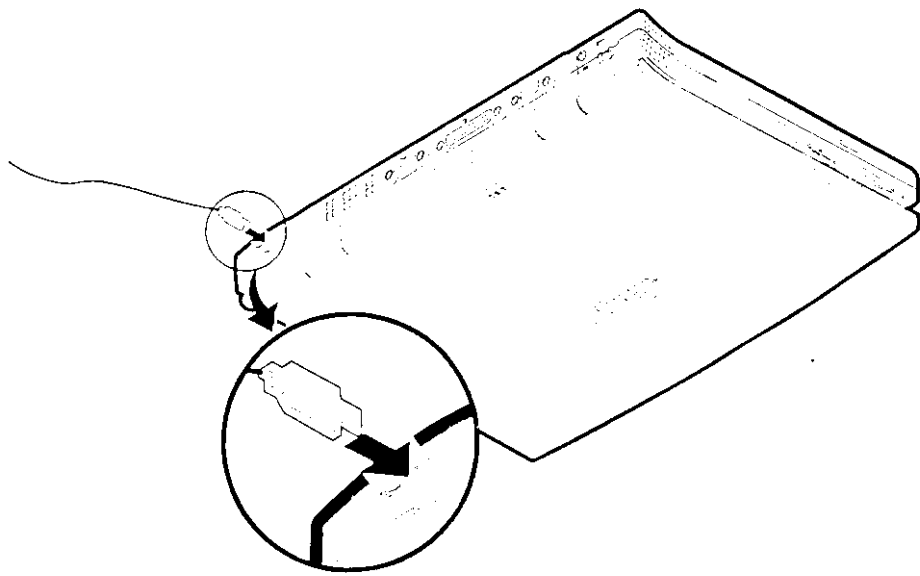


Figure 2-25

- **Audio**
 - Stereo full duplex support
 - Compatible Sound-Blaster PRO version 3.01
 - Built in microphone
 - Built in speaker x 2
 - 16-bit stereo FM synthesis, compliant to PC97 Rev. 1.0

■ **PC Card Sockets**

- Two PCMCIA 3.3V/5V socket, type II x2
- CardBus (PC Card95).

■ **Interface**

- One USB port
- One serial port, NS 16C550 compatible
- One parallel port, support ECP/EPP 1.7 and 1.9
- External CRT monitor port
- External keyboard/Mouse (PS/2 type) port
- One headphone jack
- One microphone jack
- DC-in jack
- IrDA (HPSIR)

■ **Keyboard**

- Windows 95.
- A4 size
- Detachable for various language versions.

■ **Power Management**

- Support APM 1.2.
- Smart CPL power management
- Suspend and resume.

Appendix B: I/O Port Pin Assignments

Parallel Port

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

Serial Port

Pin	Signal
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)

PC Card Sockets

Socket A:

Pin	Signal	Pin	Signal
1	GND	35	GND
2	A-CD3	36	A-CD1#
3	A-CD4	37	A-CD11
4	A-CD5	38	A-CD12
5	A-CD6	39	A-CD13
6	A-CD7	40	A-CD14
7	A-CE1#	41	A-CD15
8	A-CA10	42	A-CE2#
9	A-0E#	43	A-VS1
10	A-CA11	44	A-IORD#
11	A-CA9	45	A-IOWR#
12	A-CA8	46	A-CA17
13	A-CA13	47	A-CA18
14	A-CA14	48	A-CA19
15	A-WE#	49	A-CA20
16	A-RDYBY#	50	A-CA21
17	A-VCC-C	51	A-VCC-C
18	A-VP#	52	A-VP#
19	A-CA16	53	A-CA22
20	A-CA15	54	A-CA23
21	A-CA12	55	A-CA24
22	A-CA7	56	A-CA25
23	A-CA6	57	A-VS2
24	A-CA5	58	A-RESET
25	A-CA4	59	A-WAIT#
26	A-CA3	60	A-INPACK
27	A-CA2	61	A-REG#
28	A-CA1	62	A-BVD2#
29	A-CA0	63	A-BVD1#
30	A-CD0	64	A-CD8
31	A-CD1	65	A-CD9
32	A-CD2	66	A-CD10
33	A-WP#	67	A-CD2#
34	GND	68	GND

Socket B:

Pin	Signal	Pin	Signal
1	GND	35	GND
2	B-CD3	36	B-CD1#
3	B-CD4	37	B-CD11
4	B-CD5	38	B-CD12
5	B-CD6	39	B-CD13
6	B-CD7	40	B-CD14
7	B-CE1#	41	B-CD15
8	B-CA10	42	B-CE2#
9	B-0E#	43	B-VS1
10	B-CA11	44	B-IORD#
11	B-CA9	45	B-IOWR#
12	B-CA8	46	B-CA17
13	B-CA13	47	B-CA18
14	B-CA14	48	B-CA19
15	B-WE#	49	B-CA20
16	B-RDYBY#	50	B-CA21
17	B-VCC-C	51	B-VCC-C
18	B-VPP	52	B-VPP
19	B-CA16	53	B-CA22
20	B-CA15	54	B-CA23
21	B-CA12	55	B-CA24
22	B-CA7	56	B-CA25
23	B-CA6	57	B-VS2
24	B-CA5	58	B-RESET
25	B-CA4	59	B-WAIT#
26	B-CA3	60	B-INPACK
27	B-CA2	61	B-REG#
28	B-CA1	62	B-BVD2#
29	B-CA0	63	B-BVD1#
30	B-CD0	64	B-CD8
31	B-CD1	65	B-CD9
32	B-CD2	66	B-CD10
33	B-WP#	67	B-CD2#
34	GND	68	GND

Monitor Port

Pin	Signal	Pin	Signal	Pin	Signal
1	RED	6	GND	11	N.C
2	GREEN	7	GND	12	DDCDAVA
3	BLUE	8	GND	13	HSYNC
4	N.C	9	N.C	14	VSYN
5	GND	10	GND	15	DDCCLK

PS/2 Type Port

Pin	Signal
1	EKDA
2	EMDA
3	GND
4	VCC
5	EKCLK
6	EMCLK

USB Port

Pin	Signal
1	V1+OUT
2	VDI-N
3	VDI-P
4	GND

-  **Rechargeable Battery Pack**
 - Ni-MH battery available.
 - Li-Ion battery available.
 - Battery low warning.
 - Auto-switching with AC power adapter.
-  **Size & Weight**
 - 302mm(w)x249mm(d)x46mm(h).
 - 3kg.
-  **Temperature Environment**
 - Operating 5°C~35°C
 - Storage -20°C~60°C
-  **Humidity Environment**
 - Operating 20%~80%
 - Non-Operating 10%~90%

Appendix A: Specifications

This appendix describes the features and specifications for the Notebook Computer.

CPU

- Cyrix Media GXm Processor, 200 MHz (2.9V Core, I/O 3.3V)

Memory

- Provide 64 bits data bus system memory, only support SDRAM
- Expandable memory up to 64 MB, depend on 8/16/32/64 MB SODIMM Module
- One 144 pins SODIMM socket, support Sync DRAM SODIMM Module (3.3V)

System BIOS

- 256KB flash ROM.
- System Soft BIOS with Smart Battery
- Plug and Play 1.0a.

Display

- Compatible IBM VGA mode
- Complete 64 bits Hardware 2D Graphics Engine
- Support TFT panel resolution up to 800x600x64K
- CRT resolution up to 1024x768x256K non-interlaced
- Capable of simultaneous display on LCD and CRT (640x480 and 800x600).

Mass Storage

- Built-in One 3.5" 3-mode FDD
- Built-in One CD-ROM
- Easy change 2.5" 12.7 mm (h) HDD, support LBA mode
- Support Master mode IDE, support PIO mode 4.

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 Notebook Computer (Step 1 in Figure 2-22).
3. Tighten the screws that fasten the cable to the serial port (Step 2 in Figure 2-22).
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.

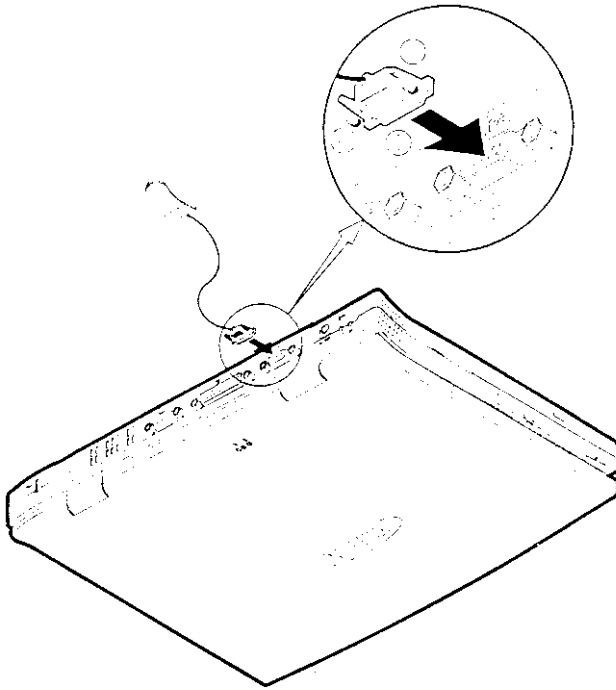


Figure 2-22

Attaching an External Monitor (CRT)

The computer is capable of displaying information not only on the LCD, but also on SVGA 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 Notebook Computer (Step 1 in Figure 2-24).
3. Tighten the screws that fasten the cable to the CRT port (Step 2 in Figure 2-24).
4. Insert the other end of the cable to the external monitor.
5. Turn on the Notebook Computer.

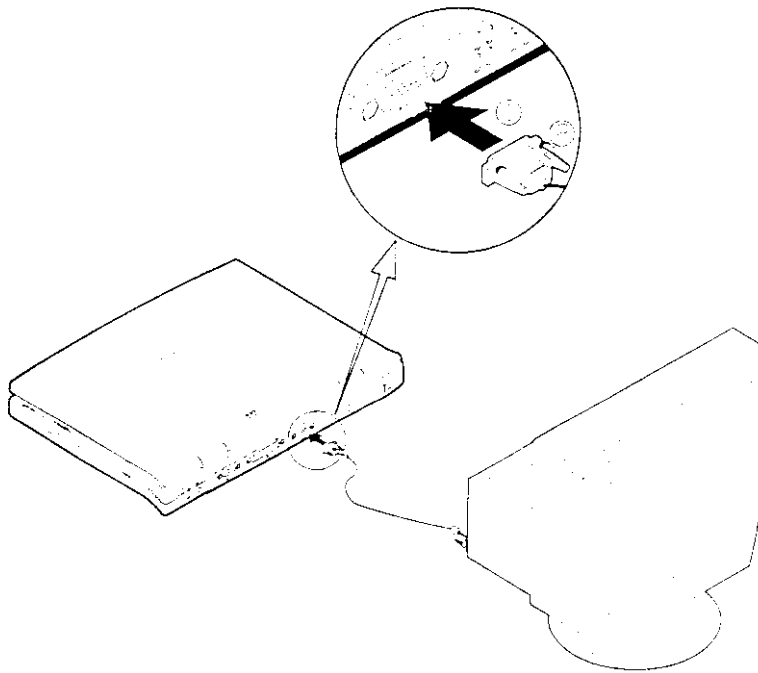


Figure 2-24

Attaching Peripheral Devices

The herein mentioned shows you how to attach peripheral devices to the ports or jacks on the rear panel of the Notebook Computer.

Attaching a Security Lock

To protect your Notebook from being stolen, the computer is equipped with a security connector. To install the security lock, wrap the cable around a desk or other immovable object, then insert the locking device into the connector (Figure 2-20).

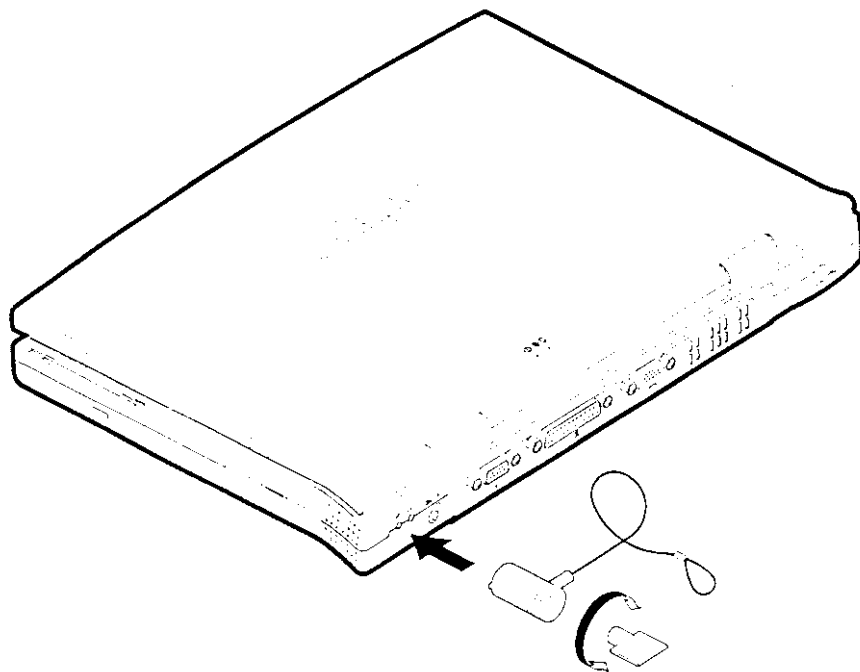


Figure 2-20

Suspend and Resume

When at extremely low power the system will halt operations yet retain all its programming. This is called **Suspend Mode**. The Suspend Mode features two levels: Powered-On-Suspend (POS) mode, and Suspend-To-Disk (STD) mode.

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 occur. This is called **Resume**.

Using Numeric Keypad

The colored keys in the middle section of the keyboard will function as a Numeric Keypad (Figure 2-19). The numeric keypad overlay can be used for numeric data input. Follow these steps to access the Numeric Keypad:

1. Press the **NumLock** key to lock the Numeric Keypad.
2. Press the **Fn** key along with the colored keys to operate the Numeric Keypad.

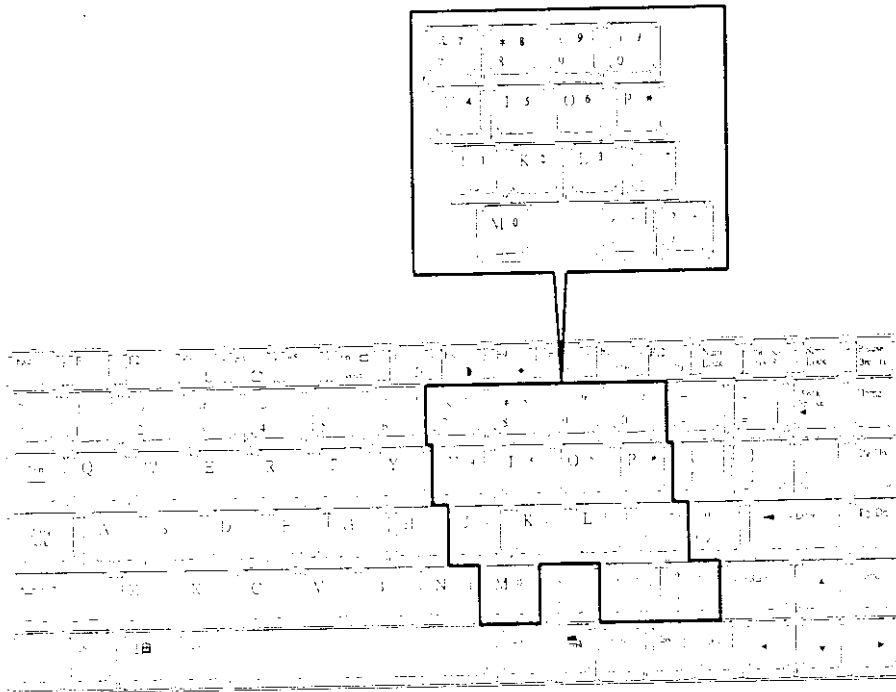


Figure 2-19

Using Hot Keys

Located on the bottom-left edge of the keyboard layout is a colored **Fn** key. It is a special feature found only on the Notebook that provides for key combinations with other keys for easy access to system features. Hold down the **Fn** key while pressing other key as below:

Hot Keys	System Features	Remark
 + 	Expand LCD display	Not Support
 + 	Control display top/center position	Not Support
 + 	Toggle CRT/LCD/LCD+CRT CRT	
 + 	Decrease LCD contrast	
 + 	Increase LCD contrast	
 + 	Decrease LCD brightness	
 + 	Increase LCD brightness	
 + 	Decrease audio volume	
 + 	Increase audio volume	
 + 	Toggle audio mute on/off	
 + 	Put the system in a suspend state for power management	

Using PC Card Sockets

The Notebook provides system expansion capabilities with two PC card sockets (previously referred to as PCMCIA). PC cards to be inserted can be LAN, fax/modem, communication devices, or expanded memory. Both sockets support 3.3V 32-bit PC cards, referred to as **CardBus**. The CardBus sockets are backward compatible with 5V 16-bit PC cards. There are three types of PC cards. Type I measures 3.3mm thick; Type II 5.0mm;

The PC card sockets accommodate

Type II cards.

Inserting PC Cards

1. Open the access door (Figure 2-15).
2. Align the PC card with the slot and push it in firmly until it locks into place (Figure 2-16).

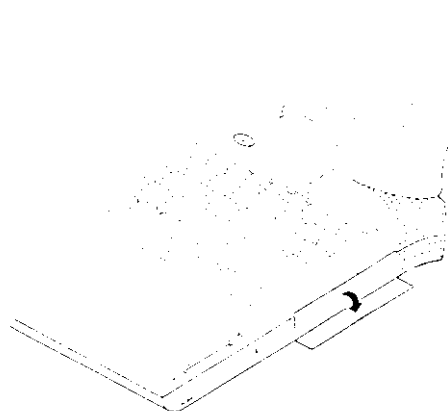


Figure 2-15

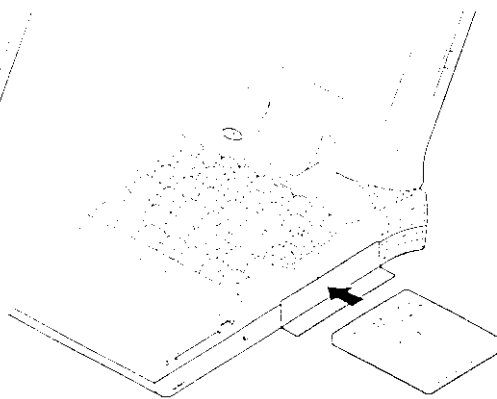


Figure 2-16

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 on the disc tray with label-side facing up.
Press it gently to ensure it fits into place (Figure 2-14).
5. Push the tray into the computer to close it.

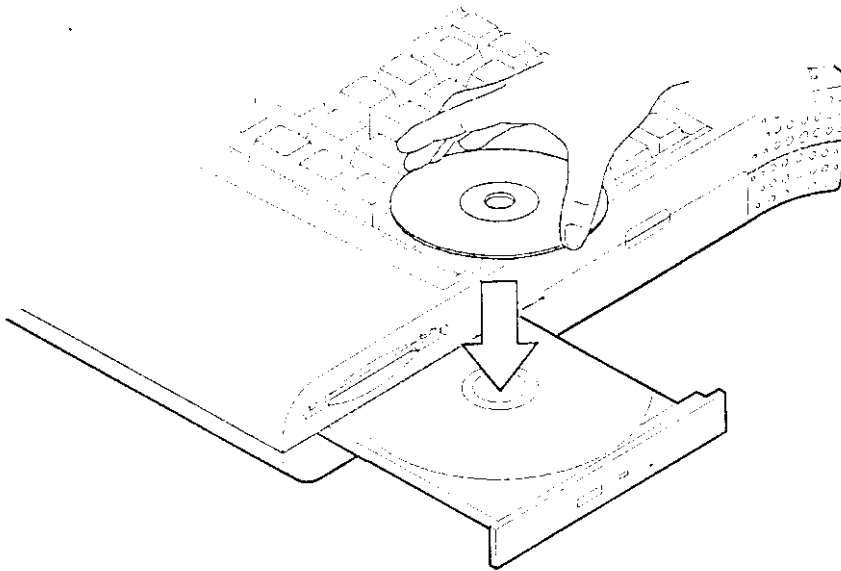


Figure 2-14

Using CD-ROM

The Notebook 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.

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

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 2-12).

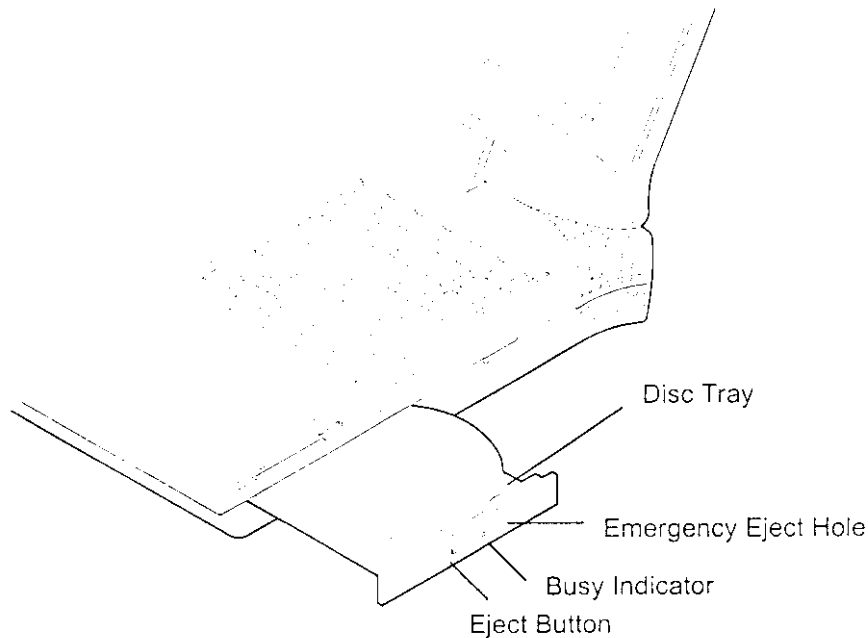


Figure 2-12

Using Floppy Disk Drive

The Notebook comes standard with a 1.44MB, 3.5" floppy disk drive. It is labeled drive A: and may be used as a boot device if properly set.

Inserting/Removing Diskettes

When using the floppy drive, always insert your floppy diskette label-side up (Figure 2-11). To remove your diskette, press the eject button on the top-right corner of the floppy drive.

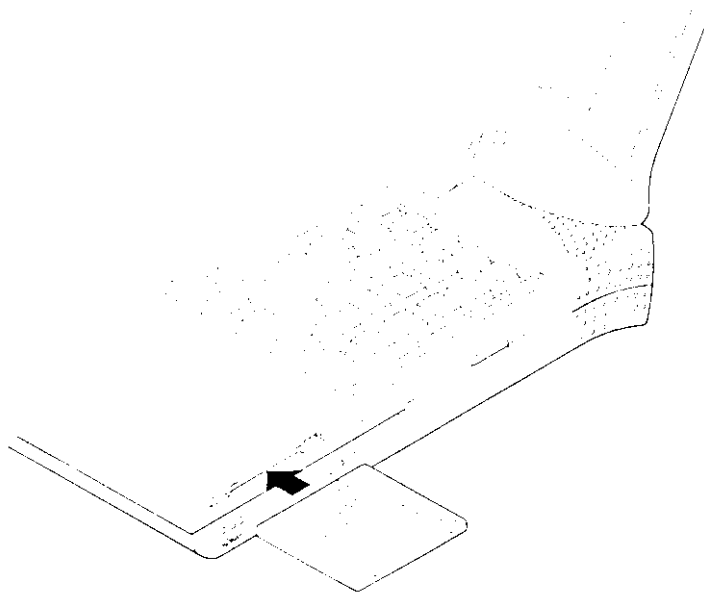


Figure 2-11

Using Hard Disk Drive

The hard disk drive is mounted in a removable case and may therefore be taken out to accommodate other 2.5" IDE hard disk drives with a height of 12.7mm. The system supports drives with capacities greater than 528MB through the Logical Block Addressing (LBA) mode. It also supports Programmed I/O (PIO) mode 4.

Removing

1. Turn the system power off.
2. Turn the Notebook over.
3. Remove the HDD cover (Figure 2-9).
4. Disconnect the cable (Figure 2-9).
5. Detach the HDD case from the Notebook (Figure 2-9).

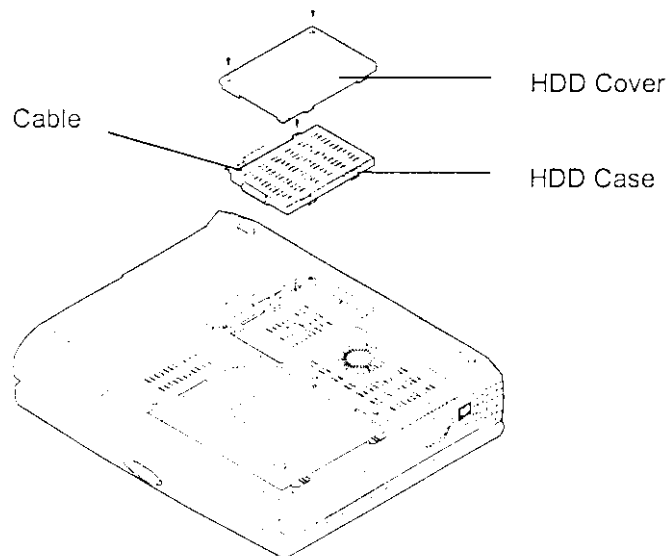


Figure 2-9

Inserting

Reinstall the Hard Disk Drive in the reverse order of removal.

Installing Memory Module

Follow the steps below to install the memory module:

1. Turn the system power off.
2. Press the two keyboard latches so that the keyboard can be elevated from its normal position (Figure 2-2).
3. Carefully lift the keyboard assembly out so that the mainboard is exposed. Locate the memory sockets (Figure 2-6).
4. Position the memory module at a slight angle and fit its connectors into the socket firmly. Push the module down and ensure it locks into place (Figure 2-7).
5. Reinstall the keyboard assembly.

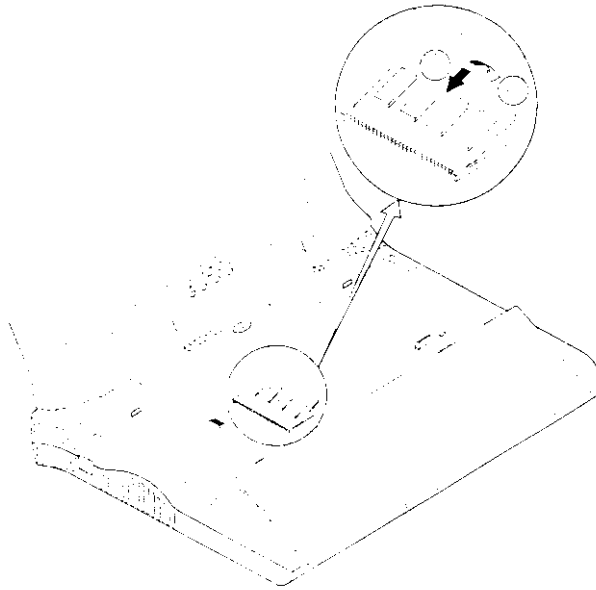


Figure 2-7

Expanding Memory

The system has one memory socket for different RAM modules to expand the memory up to 64MB. These RAM modules are of a 144-pin SODIMM (Small Outline Dual In-line Memory Module) type. The Notebook only supports SDRAM operation. With the following memory configurations the total memory size will be automatically detected by the POST routines:

Bank 1 (64-bit)	Power	Total Size
(1Mx16)x4	3.3V	8MB
(1Mx16)x8		16MB
(4Mx16)x4		32MB
(4Mx16)x8		64MB
(8Mx8)x8		64MB

Upgrading CPU

The system is capable of hosting a wide range of Cyrix CPU. Upgrading your CPU will increase your computing speed. The higher the CPU speed installed, the better the system performance. If you want to upgrade the CPU, remember to adjust the corresponding speed settings.

Replacing CPU

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 CPU (Figure 2-1).

Note:

- Contact your dealer for the **proprietary tool** to replace the CPU.
- Wait for the CPU to cool down before replacing it.

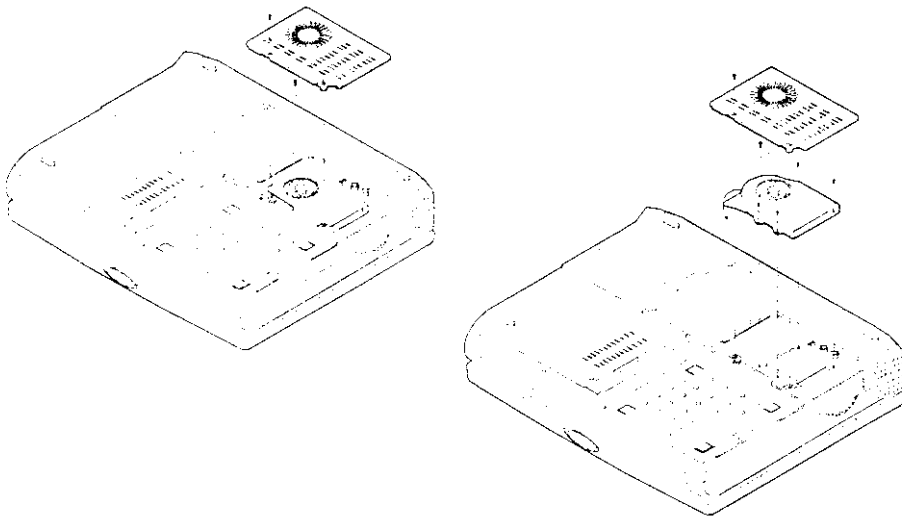


Figure 2-1

Setting DIP Switch

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

- 4-pole DIP Switch for CPU core frequency.

Accessing the 4-Pole DIP Switch

1. Turn the system power off.
2. Press the two keyboard latches so that the keyboard can be elevated from its normal position (Figure 2-2).
3. Carefully lift the keyboard assembly out so that the mainboard is exposed. Employ the 4-pole DIP Switch to set the configuration (Figure 2-3).

CPU Core Frequency Settings

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

Cyrix Processor at 2.9V I/O Voltage				
CPU Frequency	1	2	3	4
200MHz	OFF	ON	OFF	OFF
Not Support	OFF	OFF	OFF	OFF
Not Support	OFF	OFF	OFF	OFF

* X = Not Applied.

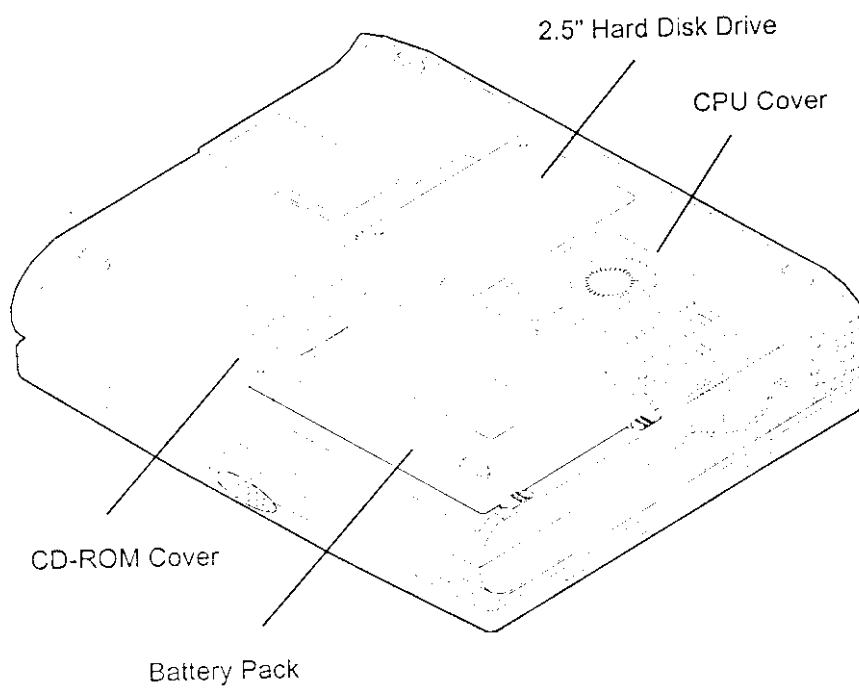


Figure 1-14

Left-side View

== DC-in Socket

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

Ventilation

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

Left-side Stands

When a high speed CPU is installed, the erecting stands on both sides will help heat dissipation during operation.

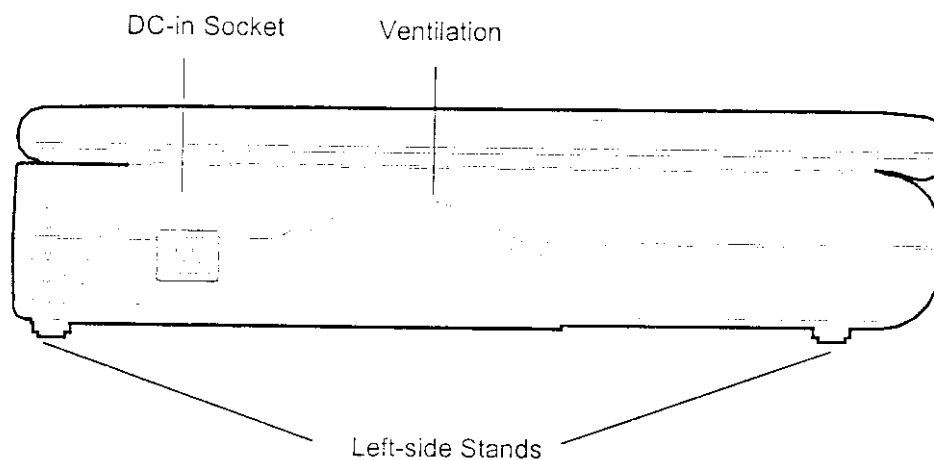


Figure 1-13

Right-side View

3.5" Floppy Diskette Drive

The Notebook comes standard with a 1.44MB floppy drive installed. Press the button on its top-right side to eject the diskette.

5.25" CD-ROM Drive

The 5.25" IDE CD-ROM module is designed to be changeable installing or removing the two screws that fasten the CD-ROM drive. The eject button is located in the middle of the front cover of the CD-ROM drive. Pressing it will release the CD tray. Refer to *Chapter 2: Operation*, for more information.

PC Card Sockets

Two Type II PC cards may be used. Both sockets will expand the system capabilities when a PC card is inserted. To eject the PC card, press the appropriate eject button (Figure 2-17).

Right-side Stands

When a high speed CPU is installed, the erecting stands on both sides will help heat dissipation during operation.

Rear View



Microphone-in Jack

Use this jack to connect a microphone to the system for audio input.



Headphone Jack

Headphone can be attached to the system through this jack for audio output, so can external speakers that have built-in output power amplifier.

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.



PS/2 Type Port

A PS/2 type mouse and keyboard may be connected to the system using this port.

Serial Port



This port is UART 16C550 compatible. It features a 9-pin connector for the addition of an external mouse for example.

Parallel Port



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

External Monitor (CRT) Port



This port is used for transmission of the display to an external monitor. Simultaneous display with the LCD panel is available.

USB Port



The Universal Serial Bus (USB) port simplifies the expansion capability for peripherals by daisy-chain connection of a number of USB-equipped devices.

System Status LED Indicators

The LED indicators display the system's operation status.

Icon	Color	Description
①	Green	Battery power is used with system turned on.
	Red	AC power is used with system turned on or AC and Battery are used with system turned on..
	Green	Battery is fully charged.
	Red	Battery is being charged.
	Blinking Red	Battery power is critically low.
	Green	The hard disk is being accessed.
	Green	The system has entered Suspend-To-RAM (STR) or Power-On-Suspend (POS) mode.

Power Button

Icon	Description
①	Use this button to turn the system on or off.

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

LED Indicators on the LCD Cover

Icon	Color	Description
①	Green	Battery power is used with system turned on.
	Red	AC power is used with system turned on or AC and Battery are used with system turned on.
	Green	Battery is fully charged.
	Red	Battery is being charged.
	Blinking Red	Battery power is critically low.

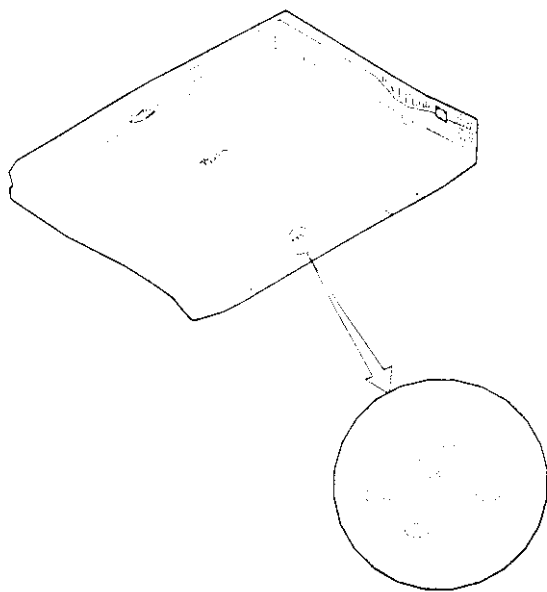


Figure I-8

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. Please refer to *Chapter 1, System Status LED Indicators* for more information concerning battery charge status.

Off-Line Charge

The Notebook system is powered off. Connect the AC adapter to the unit. Its DC output will be used solely to charge the battery. It will take hours to bring a completely discharged battery to its full charge state.

Trickle Charge

The Notebook system is powered on. Again, make sure the AC adapter is connected to the unit. Its DC output will both power the system and charge the battery. It may take more hours than off-line charge to charge the battery.

Proper Handling of the Battery Pack

- Do not attempt to disassemble the battery 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 (+, -).

Quick Start-up

Powering the System

AC Power Adapter

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

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

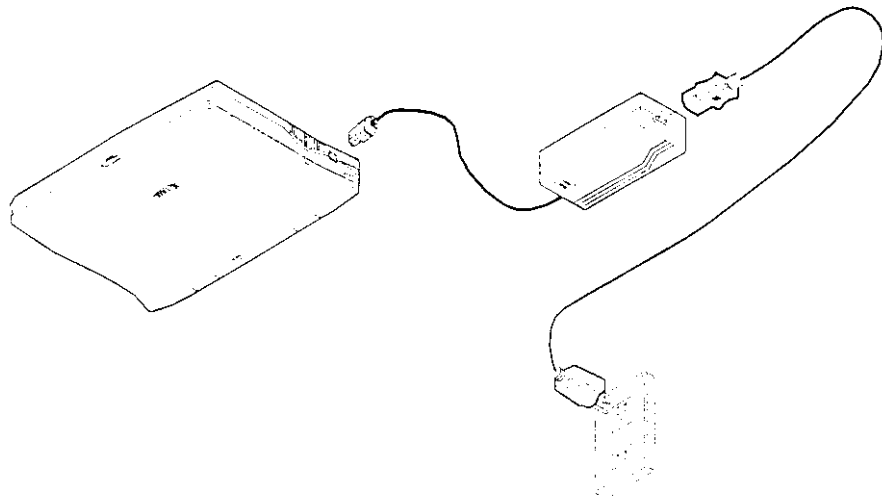
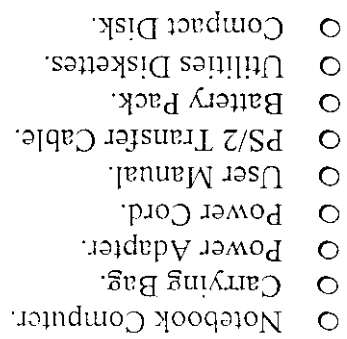


Figure 1-3

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 at some point in the future.



14

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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.

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.

Important Safety Instructions

Please read and follow these important instructions.

1. Follow all warnings and instructions marked on this product.
2. Unplug this product from the wall outlet before cleaning it or connecting peripheral devices.
3. Use a damp cloth with mild soap to clean this product. Do not apply cleaner directly to the unit. Do not use volatile or abrasive cleaners on this product.
4. Do not place this product on an unstable surface where it may fall.
5. Do not block or cover the system's ventilation openings. Also, never place this product near or over a radiator or heat register, or in a built-in installation unless adequate ventilation is provided.
6. Operate this product in accordance with its rated power specifications. If you are unsure of your local power specifications, consult your dealer or local power company.
7. This product is equipped with a 3-wire grounding type plug. This is an important safety feature; do not defeat its purpose. If you do not have access to such power, have a qualified electrician install a proper outlet.
8. Do not allow anything to rest on the power cord. Do not locate this product where persons will likely walk on the cord.
9. If an extension cord is used with this product, make sure the total current drawn by the products plugged into the extension cord do not exceed the extension cord or outlet power ratings.

CE – Certificate

This equipment is in compliance with the requirements of the following regulation:

EN 55 022: CLASS B

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, Speaker, USB mouse Data cable, 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.

KAPOK

KAPOK COMPUTER CO.

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FEDERAL COMMUNICATIONS COMMISSION
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046
U.S.A.

FCC ID: L4PK1100LTS12

Re: About the modification of NOTEBOOK PC

Gentlemen:

I, hereby, declare that all modification on the E.U.T.,
FCC ID: L4PK1100LTS12, will be added or layout on the mass production
products. Modifications are shown as below:

1. Add a ferrite core, TRIO, LF-65 on the DC power cord of AC Adapter, near by the PC end.
(As the photo No.1)
2. Add gaskets on the frame of the keyboard to contact top case.
(As the photo No.4)
3. The housing are coated with electrodes conductive.
(As the photo No.6,9)
4. Add two ferrite core, TRIO, 10*10*7, on the LCD cable.
(As the photo No.6)
5. Add a finger spring on the Audio connector to contact the bottom case.
(As the photo No.11)
6. Add a gasket on the PS2 connector to contact the bottom case.
(As the photo No.11)
7. Add a gasket on the USB connector to contact the bottom case.
(As the photo No.11)
8. Add a gasket on the DC jack to contact the bottom case.
(As the photo No.11)
9. The LCD cable is shielded.
(As the photo No.15)
10. Add a gasket top case of LCD to contact the LCD cable.
(As the photo No.15)

Engineer

Tony Lin

Tony Lin

EXHIBIT D