Prestigio Nobile 1530
User's Manual

First Edition: November 2005

NOTICE
Specifications and information found in this guide are subject to change without notice. Any changes therefore will be incorporated in future editions. The manufacturer assumes no responsibility for errors or omissions in this document.

TRADEMARKS
Windows® XP is the trademark of Microsoft Corporation.
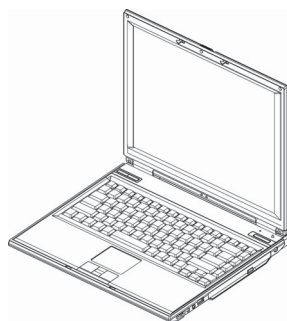Intel® is the trademark of Intel Corporation.
Other trademarks are properties of their respective owners.

1 Before You Begin

Please read this section before you start using your computer.

1.1 Checking What You Received

Your notebook package should contain the following items:

· **The Notebook.**
· **AC Adapter.**
· **AC Power Cord.**
· **CD Disc (Including Drivers and User's Guide).**
· **Battery Pack.**

> **Note: You should keep the original factory carton and packing materials in case you need to ship the unit back for servicing.**

1.2 Examining Your Computer

Before you start using your computer, you need to get acquainted with your notebook's main features and interfaces:
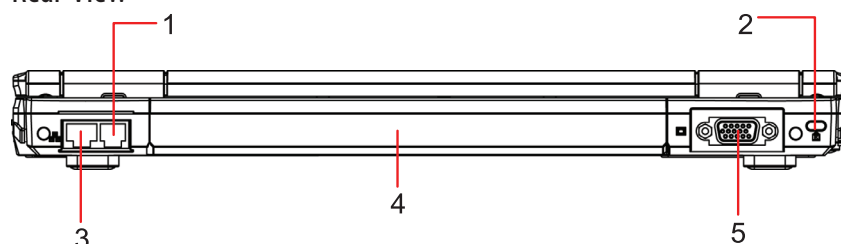
Panoramic View
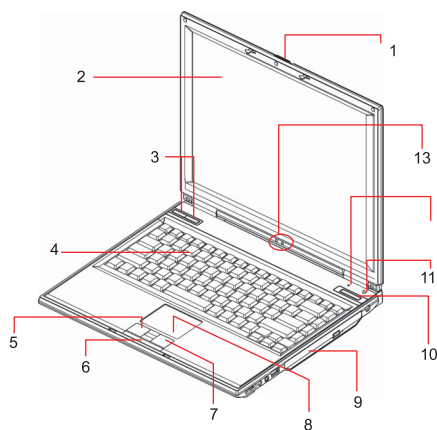
1 - Cover Latch
2 - LCD Screen
3 - Two System Buttons (Internet Button/ Wireless Button)
4 - Keyboard
5 - Click Button
6 - The Six Status LEDs
7 - Click Button
8 - Touch Pad
9 - Optical Drive
10 - System Button (Power Button)
11 - Lid Switch
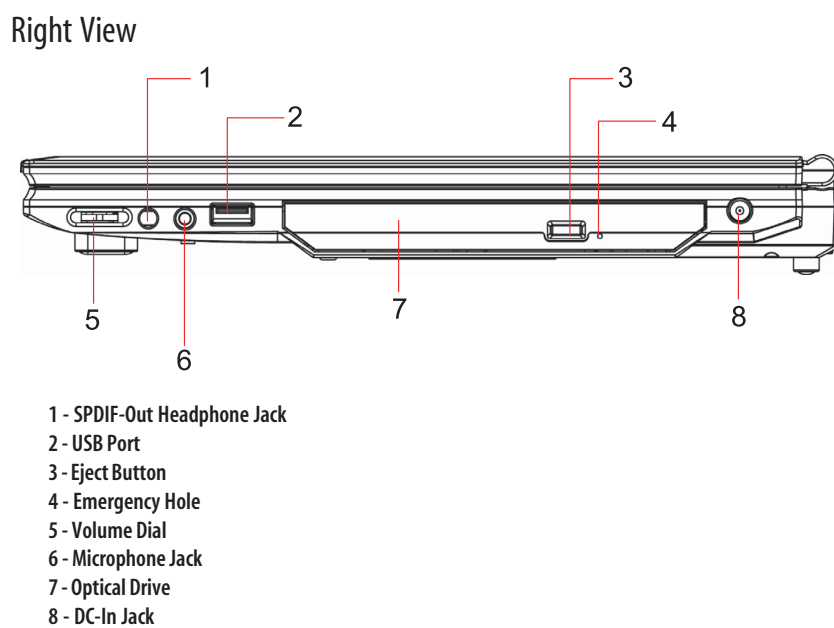12 - Internal Microphone
13 - Two Power LEDs

Front View
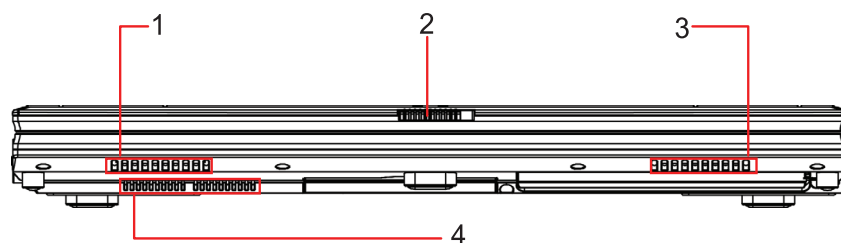
1 - Speaker
2 - Cover Latch
3 - Speaker
4 - Ventilation Holes

Rear View

1 - RJ11 Fax/Modem Connector
2 - Kensington Lock
3 - RJ45 LAN Connector
4 - Battery Pack
5 - VGA Port

Left View

1 - USB Ports
2 - S-Video Port
3 - IEEE1394 Port
4 - Eject Handle
5 - Ventilation Holes
6 - Ventilation Holes
7 - Media Slot
8 - PCMCIA Slot

Right View

1 - SPDIF-Out Headphone Jack
2 - USB Port
3 - Eject Button
4 - Emergency Hole
5 - Volume Dial
6 - Microphone Jack
7 - Optical Drive
8 - DC-In Jack
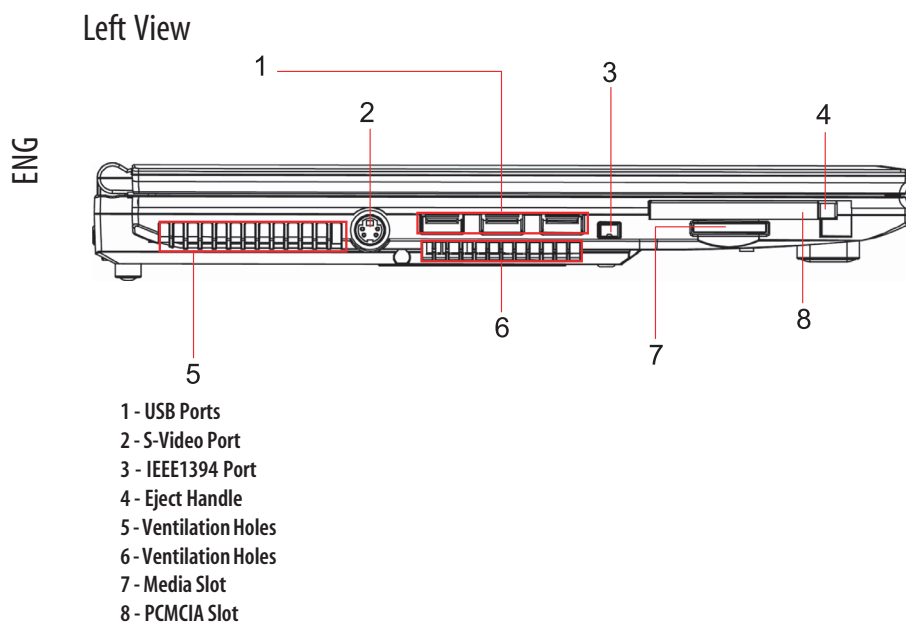
Bottom View
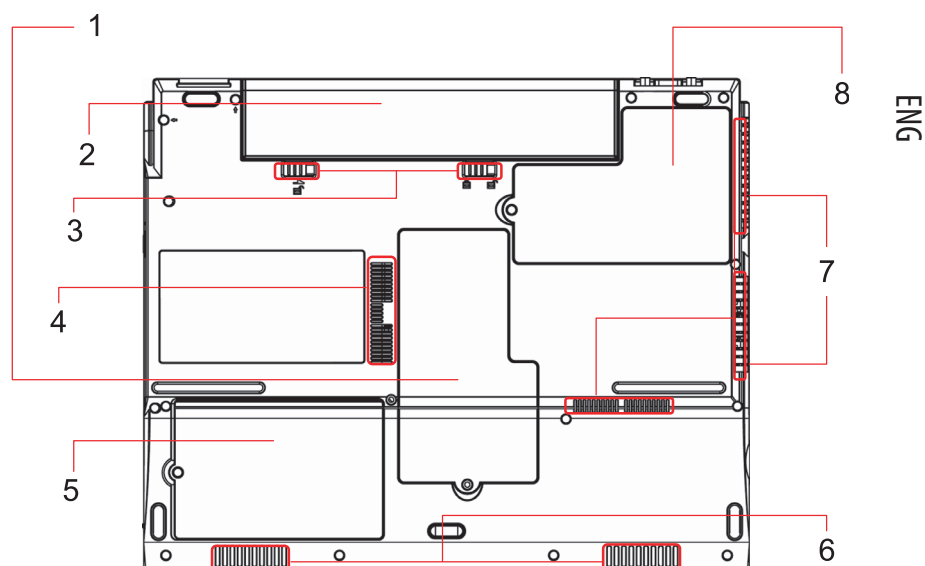
1 - Compartment Door (for Memory & Mini-PCI Modules)
2 - Battery Pack
3 - Battery Latches
4 - Ventilation Holes
5 - HDD Drive Door
6 - Speakers
7 - Ventilation Holes
8 - Heatsink Door

Two Types of Audio Jack
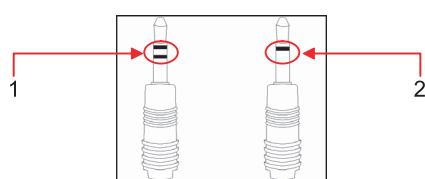
1 - Stereo Jack:
Your headphone jack should have this type of connector as shown here
2 - Mono Jack:
Your microphone jack should have this type of connector as shown here.

1.3 The Two Power LEDs

The Power On LED
Below is how the LED would behave in different situations:
Off
System is powered off, or in Hibernate mode.
On
System is in full operation.
Blinking
System is in Standby mode.

The Battery Pack LED
Below is how the LED would behave in different recharge situations:
On
Battery pack is being recharged: fast-charge or pre-charge.
Off
Battery pack is not under recharge.
Blinking
* Battery pack is consuming down to 10% level.
* Battery pack error

Note: The Two Power LEDs are located at the bottom LCD display screen between the left/right hinges of the LCD display panel. For exact location, please refer to the Panoramic View diagram in Chapter 1.2. The two LEDs are also visible on the rear side of the LCD panel.
For more details on Standby and Hibernate, please refer to Power Options (for Windows Systems) in the Control Panel of your Microsoft Windows operating system.

1.4 The Six Status LEDs

The Caps Lock LED
The LED would be lit when the keyboard is in Caps Lock mode. In this mode, all characters you type are in uppercase.

The Scroll Lock LED
The LED would be lit when the keyboard is in Scroll Lock mode. In this mode, you can lock the cursor position while scrolling through a document with the arrow-scroll keys

The Num Lock LED
This LED would be lit when the keyboard is in Num Lock mode. In this mode, the embedded numeric keypads can be used.

The Wireless LED
This LED would be lit when the wireless function is activated.

The AC-Adapter LED
This LED would be lit when system is connected to an AC adapter.

The HDD Access LED
This LED would be lit when system is accessing the HDD drive.

Note: The Six Status LEDs are located near the two click buttons. For exact location, please refer to the Panoramic View diagram in Chapter 1.2.

1.5 The Three System Buttons

	The Power Button
⏻	This Power Button is programmable by user. For detail on how to program this button, please refer to the Power Options of Control Panel in Windows System.
	Wireless Button
	Press this button to activate the wireless communication function.
	Internet Button
	Press this button to activate the internet function.

Note: The Three System Buttons are located between the LCD display and the keyboard. For exact locations, please refer to the Panoramic View diagram in Chapter 1.2.

1.6 Attention On PCMCIA And Media Sockets
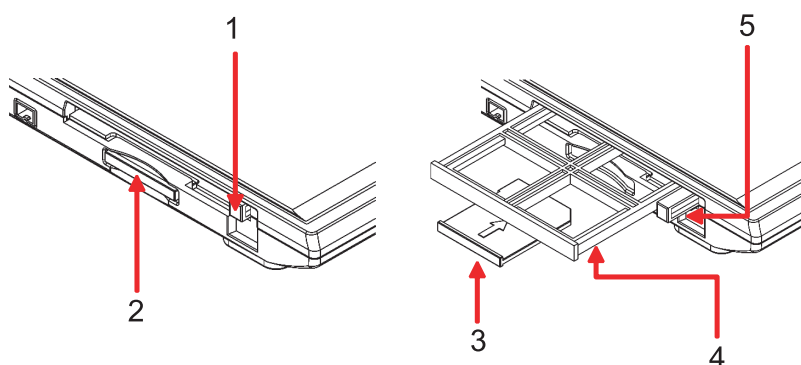

1 - The PCMCIA eject handle is now retracted into the system unit.
2 - The media socket door is now covering the socket.
3 - The media socket door is now taken out.
4 - The PCMCIA socket door is now being taken out.
5 - The PCMCIA eject handle is now protruded outside the system unit.

Please observe below safety measures:
* Make sure the PCMCIA eject handle does not protrude out at all times, unless you are using the handle to eject PCMCIA card. A protruded handle is prone to external interference; such as ramming by an inkjet printer or external keyboard.
* When PCMCIA card is not inserted into the PCMCIA socket, make sure this socket is covered by the "PCMCIA socket door" as supplied together with this notebook. The purpose of this "PCMCIA socket door" is to prevent foreign matters from entering into the system unit through this socket, when no card is inserted.
* Make sure the media socket door is closed at all times, unless you are inserting or removing any of these cards (SD Card/ SD-IO Card/ MMC Card/ MS Card/ MS-Pro Card).
* When no card (SD Card/ SD-IO Card/ MMC Card/ MS Card/ MS-Pro Card) is inserted into the media socket, make sure this socket is covered by the "media socket door" as supplied together with this notebook. The purpose of this "media socket door" is to prevent foreign matters from entering into the system unit through this socket, when no card is inserted.

1.7 Technical Warning

1
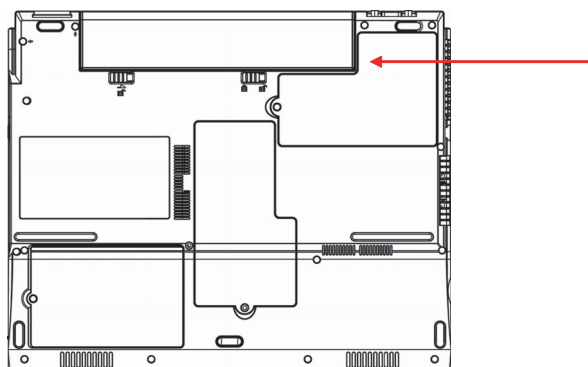
1 - This compartment door is sealed and not meant to be opened by notebook end-users.

Warning: This sealed compartment door as indicated above is designed to be opened by qualified technicians only. Therefore, you are requested not to open this compartment door. Opening this compartment door would void the warranty of your notebook.

1.8 Operating Temperature

Operating Temperature: 10°C to 35°C.

1.9 The <Fn> Key

The <Fn> Function Key is located near the bottom-left corner of the keyboard. This key is used together with other keys to activate certain pre-defined functions. To activate these functions, press and hold down <Fn> together with the keys described below:

F2	**Bluetooth Switch** Press this key combination (Fn+F2) to switch off and switch on the blutooth communication function.
F3	**Standby Switch** Press this key combination (Fn+F3) to enter standby mode. In standby mode, the LCD display and selected devices would be switched off for less energy consumption.
F4	**LCD/CRT/TV Switch** Press this key combination (Fn+F4) to switch between LCD only, CRT only, TV only, LCD/CRT simultaneously, and LCD/TV simultaneously.
F7	**Brightness Decreasing** Press this key combination (Fn+F7) to decrease brightness of LCD display.
F8	**Brightness Increasing** Press this key combination (Fn+F8) to increase brightness of LCD display.
F9	**CD Play/Pause** This hot-key is for audio CD disc playback. Press this key combination (Fn+F9) to play or pause audio CD disc playback.

	CD Stop
F10 ■	This hot-key is for audio CD disc playback. Press this key combination (Fn+F10) to stop audio CD disc playback.
F11 ◄◄	CD Previous Track This hot-key is for audio CD disc playback. Press this key combination (Fn+F11) to skip to the previous CD disc track.
F12 ►►	CD Next Track This hot-key is for audio CD disc playback. Press this key combination (Fn+F12) to skip to the next CD disc track.

2 Battery

2.1 Battery Pack

Your notebook is equipped with a high-energy rechargeable Lithium Ion (Li-Ion) battery pack. In general, the battery life of a fully charged battery pack may vary from different configurations (CPU, HDD, Memory etc.) and system utilization (especially I/O activities).

2.2 Recharging The Battery Pack

Your notebook supports both on-line and off-line recharge. Follow the procedure below to recharge battery:
* Make sure the battery pack is installed in the notebook.
* Connect the AC adapter to the notebook and to an electrical outlet.
When a battery pack is being recharged, its battery LED (located at the bottom of display panel) would be lit. For details on the LEDs, please refer to Chapter 1.3. When the notebook is OFF, a depleted Li-Ion battery will take three hours to recharge.

2.3 Questions And Answers

Q: I can feel the heat next to the Touch Pad during recharge. Is it normal?
A: The battery will generate heat during recharging and discharging. There is a protection circuit inside the notebook to prevent overheating. User needs not to worry.

Q: My battery operation time is not as long as it should be. Why?
A: The battery is heat sensitive and can only be charged to its maximum if the battery and its environmental temperature remain within 15-25°C (59-77°F). The more the temperature deviates from this range during recharging, the less chance there is for the battery to be fully charged. In order to recharge the pack to its full capacity, users are requested to cool down the unit by unplugging the AC Adapter. Wait until it is cooled down. Then plug in the AC Adapter to start recharging again.

Q: I did not use my spare battery for a few days. Even though it was fully recharged, there wasn't as much power left as a newly charged one. Why?
A: The batteries will self-discharge (1% per day for Li-Ion) when they are not being recharged. To make sure a battery pack is fully charged, recharge before use. Always keep the battery inside the notebook and have the AC adapter connected whenever possible.

Q: I did not use my spare battery for months. I have problem in recharging it.

A: If you happen to leave your battery pack to go through an extended period of self-discharge, say more than three months, the battery voltage level will become too low and needs to be Pre-Charged (to bring the battery voltage level high enough) before it automatically (for Li-Ion only) resumes its normal Fast Charge. Pre-Charge may take 30 minutes. Fast Charge usually takes 2~3 hours.

2.4 Battery Maintenance

To maintain the battery pack's maximum capacity, you should occasionally let the notebook deplete its battery power completely before recharging.

To carry out a complete depletion of the battery, disconnect the AC adapter and let your notebook consume the remaining battery power. To speed up the depletion, use the HDD as much as possible, and the LCD should be set as bright as possible. When the battery is empty, wait for the notebook to cool down (especially the battery). The temperature should be within 15-25ºC (59-77ºF). Then insert the AC adapter to recharge the battery.

2.5 Power Consumption

The Windows® XP, the latest Windows operating systems, has incorporated the latest state-of-the-art ACPI (Advanced Configuration Power Interface) power management methodology. In order to fully utilize the power of your battery packs, it would be a good idea for you to spend sometime to acquire a basic understanding of the power management concept from your operating system.

In Windows® Operating Systems, you can go through Power Options of the Control Panel according to the version of Windows® Operating System the notebook applies. We shall not describe them in details. The Power Options in Windows® XP are further divided into as below:

* Power Schemes
* Alarms
* Power Meter
* Advanced
* Hibernate

2.6 Reducing Power Consumption

Although your notebook (together with the operating system) is capable of power conservation, there are measures you can take to reduce the power consumption:

* Use the AC power whenever possible.
* Lower the intensity of the LCD backlight. A very bright screen translates to higher power usage.
* Try to use the HDD or the PCMCIA drive to read and write files, instead of using the external USB FDD.

Note: Whenever system is powered on or powered off, make sure the battery pack is installed in the battery pack compartment.

2.7 Removing The Battery Pack

This battery pack can easily be removed and replaced. Make sure that the computer is properly shutdown before changing the battery pack. If you would like to change the battery pack while power is on, make sure this battery pack is not the only electrical source to the system unit. Follow the steps below to remove the battery pack.

• Make sure the system is properly shutdown.
• Flip the system upside down as shown.
• Push the battery latch to the unlock position as shown by #1.

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• Push the battery latch to the unlock position as shown by #2.
• Maintain the two battery latches in the unlock position.
• Remove the battery pack as shown by #3.
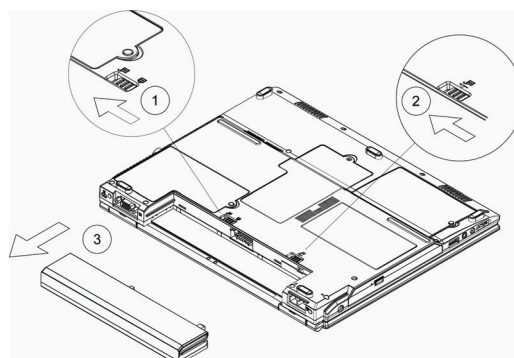
To insert the battery pack, reverse the steps above.

3 Memory

Your notebook is equipped with a configurable memory unit. The industry standard JEDEC DDR2 S.O.DIMM memory module socket is available for memory upgrade to 2048MB. Your notebook supports industry standard PC4300 (DDR2 533) memory module. The table below illustrates all the possible ways system memory can be configured.

Total Memory	Socket#1	Socket#2
256MB	0MB	256MB
256MB	256MB	0MB
512MB	0MB	512MB
512MB	256MB	256MB
512MB	512MB	0MB
768MB	256MB	512MB
768MB	512MB	256MB
1024MB	0MB	1024MB
1024MB	512MB	512MB
1024MB	1024MB	0MB
1280MB	256MB	1024MB
1280MB	1024MB	256MB
1536MB	512MB	1024MB
1536MB	1024MB	512MB
2048MB	1024MB	1024MB

DDR2 S.O. DIMM Memory Module
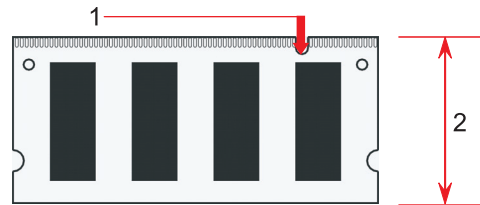
1 - Groove for indicating the orientation of the module
2 - 1.25" max

3.1 Removing Memory Modules

Below is the procedure on how to remove the memory modules.
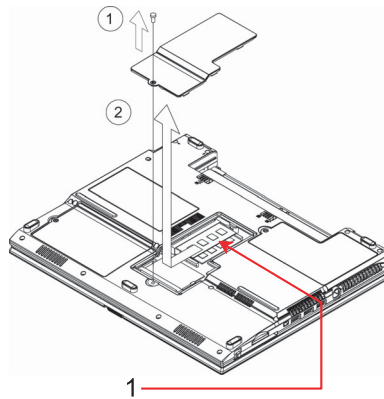
1 - Memory Sockets

• Make sure the system is properly shutdown.
• Flip the system upside down.
• Remove the battery pack as shown in Chapter 2.
• Remove the screw as shown by #1.
• Slide and remove the compartment door as shown by #2.
• You can see two memory sockets with one socket overlapping the other socket.

• Press the spring-locks sideways as shown by #1.
• The first memory module would pop up as shown by #2.
• Remove the first memory module as shown by #3.

• Press the spring-locks sideways as shown by #1.
• The second memory module would pop up as shown by #2.
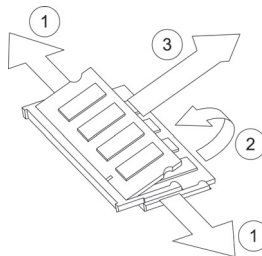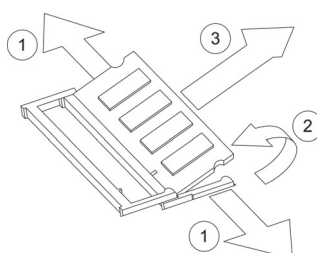• Remove the second memory module as shown by #3.

To insert the memory modules, reverse the steps above.

4 Mini-PCI Module (Optional)

Depending on model, your notebook may be equipped with an optional Mini-PCI module. The Mini-PCI module supports wireless LAN function.

4.1 Removing Mini-PCI Module

Below is the procedure on how to remove the Mini-PCI module.
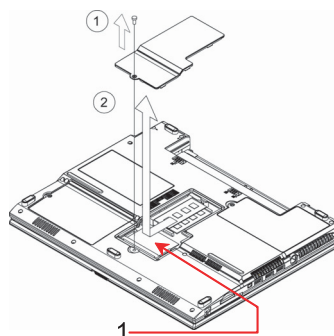
1 - Mini-PCI Module

• Make sure the system is properly shutdown.
• Flip the system upside down.
• Remove the battery pack as shown in Chapter 2.
• Remove the screw as shown by #1.
• Slide and remove the compartment door as shown by #2.
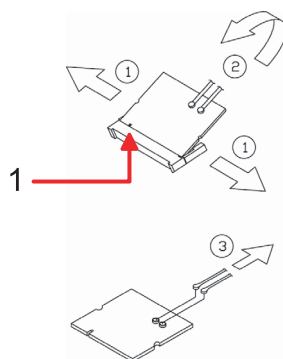
1 - The Groove

• Press the spring locks sideways as shown by #1.
• The Mini-PCI module would pop up as shown by #2.
• Disconnect the two cables as shown by #3. Note, there are two types of mini-PCI module. Externally, they look slightly different; especially on the locations of the cable connections.
• Remove the Mini-PCI module.

To insert the Mini-PCI module, reverse the steps above.

5 The Hard Disk Drive

Your notebook is equipped with an industry standard 2.5"/9.5mm hard disk drive.

5.1 Removing The Hard Disk Drive

Below is the procedure on how to remove the hard disk drive.
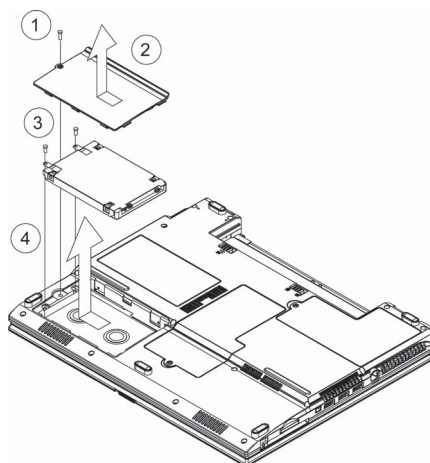
• Make sure the system is properly shutdown.
• Flip the system upside down as shown.
• Remove the battery pack as shown in Chapter 2.
• Remove the screw as shown by #1.
• Slide and remove the HDD compartment door as shown by #2.
• Remove the two screws as shown by #3.
• Slide and remove the HDD drive as shown by #4.

To insert the HDD drive, reverse the steps above.

Agency Regulatory Notices

Safety Instructions

CAUTION: Please read these safety instructions carefully.

CAUTION: Please keep this User's Manual for future reference.

CAUTION: Please disconnect this equipment from AC outlet before cleaning. DO NOT use liquid or sprayed detergent for cleaning. Use a clean moistened cloth.

CAUTION: The wall socket used should be positioned near the equipment and should be easily accessible.

CAUTION: Please keep this equipment free from humidity.

CAUTION: Place the equipment on a reliable surface at all times. A drop or fall can cause severe damage.

WARNING: The openings of the enclosure are for air ventilation and are meant to protect the equipment from overheating. DO NOT COVER THE VENTILATION OPENINGS.

CAUTION: Verify the voltage of the power source before connecting the unit to any power outlet.

WARNING: DO NOT step on or place anything over the power cord.

CAUTION: All cautions and warnings on the equipment should be noted.

WARNING: If the equipment is not used for a long period of time, disconnect the equipment from the power source to avoid damage from power spikes.

WARNING: NEVER pour any liquid into any openings; a fire or electrical shock is possible.

WARNING: For safety reasons, other than pre-designated ports, doors, and the equipment should be opened only through qualified service personnel.

CAUTION: If one of the following situations should arise, the equipment should be checked by an authorized technician:

a. The power cord or plug is damaged.

b. Liquid has penetrated into the equipment.

c. The equipment has been exposed to excessive moisture.

d. The equipment does not work well, or you fail to get it to work according to user's manual.

e. The equipment has been dropped or damaged.

f. The equipment has obvious signs of breakage.

CAUTION: DO NOT LEAVE THE EQUIPMENT IN TEMPERATURES BELOW -20(C(-4(F) OR ABOVE 60(C(140(F). IT MAY CAUSE DAMAGE TO THE EQUIPMENT.

WARNING: Never install modem/telephone wiring during a lightning storm.

WARNING: Never install modem/telephone jacks in wet locations unless the jack is specially designed for wet locations.

WARNING: Never touch un-insulated modem/telephone wires or terminals unless the modem/telephone line has been disconnected at the network interface.

CAUTION: Use caution when installing or modifying modem/telephone lines.

WARNING: Avoid using a modem/telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

WARNING: This computer contains an internal lithium battery-powered real-time circuit. There is a risk of explosion and injury if the battery is incorrectly replaced or handled. Do not attempt to recharge, disassembled, immerse in water, or dispose of it in fire. Replacement should be done through your notebook dealer.

WARNING: THE CD-ROM/DVD-ROM IN THIS NOTEBOOK EMPLOYS A LASER SYSTEM.

a. To ensure proper use of this product, please read the relevant instructions carefully and retain for future reference.

b. Should the unit ever require maintenance, contact your local dealer.

c. Use of controls, adjustments or the performance of procedures other than those specified may result in hazardous radiation exposure.

d. To prevent direct exposure to Laser Beam, do no try to open the enclosure.

CAUTION: The internal CD-ROM/DVD-ROM drive is classified as a CLASS 1 LASER PRODUCT.

WARNING: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

WARNING: Your notebook contains a Ni-MH or Li-Ion battery pack. There is a risk of fire and chemical burn if the battery pack is handled improperly. Do not disassemble, crush, puncture, short external contact, dispose of in water or fire, or expose it to temperature higher than 60℃.

WARNING: Handle the battery pack very carefully. Avoid touching the metal leads on the connector of the battery case.

CAUTION: Use only approved AC Adapter with your notebook. Using the wrong type of AC Adapter may cause serious damage to your notebook.

CAUTION: The AC Adapter can accept a line voltage ranging from 100V to 240V and is compatible with most international power sources. If you are unsure whether your power source is compatible, please contact the local dealer for assistance.

CAUTION: To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

CAUTION: For Continued Protection Against Risk of Fire, Replace Only with same Type and Rating of Fuse.

CAUTION: If the computer is not sold to German area, please use only the local recognized power supply cords that are recommended by the manufacturer.

WARNING: Don't expose your notebook to excessive heat or coldness (frost). Don't drop, spill fluids or open the exterior of the case. This can damage the notebook and void the warranty.

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Agency Notice

Federal Communications Commission Notice

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 against harmful interference in a residential installation. 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 or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by the manufacturer responsible for compliance may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

European Union Notice

Product with the CE Marking comply with the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community and if this product has telecommunication functionality, the R&TTE Directive (1999/5/EC).

Compliance with these directives implies conformity to the following European Norms (in parentheses are the equivalent international standards and regulations):

* EN55022 (CISPR 22) - Electromagnetic Interference
* EN55024 (IEC61000-4-2,3,4,5,6,8,11) - Electromagnetic Immunity
* EN61000-3-2? (IEC61000-3-2) - Power Line Harmonics
* EN61000-3-3? (IEC61000-3-3) - Power Line Flicker
* EN60950 (IEC60950) - Product Safety

For devices with built-in wireless equipment, the following additional standards apply:
* ETSI301489-17: General Emissions for Radio Equipment
* EN60950: Safety
* ETSI300328-2: Technical Requirements for Radio Equipment

WEEE Logo Description
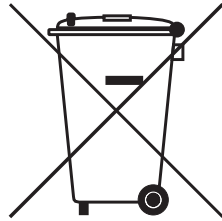
Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more details information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Technical Specification

CPU

Intel Pentium M 1.6GHz ~ 2.13GHz (2MB L2 Cache)
Intel Celeron Pentium M (ICPM) 1.3GHz ~ 1.5GHz (1MB L2 Cache)

Packaging
UFCPGA (479)

Thermal
27W

FSB
533 MHz

Chipset

Intel Alviso (915) PM + ICH6-M

LCD Panel

15.0" XGA / SXGA+ / UXGA

Base Memory

TWO DDR II SO-DIMM Slot for 256MB/512MB/1GB

Support
DDR II 400/533MHz

Max. Memory
up to 2GB

VGA

ATI MOBILITY(tm) RADEON® X300 / X600 /X700 (128MB VRAM, Max.)

Optical Drive

DVD-ROM / Combo / DVD-Dual

HDD

40GB / 60GB / 80GB
2.5" 9.5mm Height

PC Card

Type II x 1

Media Card

1 slot, (Support SD, SD-IO, MMC, MS, MS-Pro)

Fax / Modem

One RJ-11 Telephone Jack

Lan

One RJ-45 port for Ethernet

WLAN

One Mini PCI Type III B Slot support 802.11 b, 802.11 b/g, 802.11 a/b/g

Bluetooth

USI Bluedog, USB I/F, Class II, Bluetooth V1.2 Compliant. (Option)

USB

2.0 x 4

IEEE 1394

4 pin port x 1

Audio Jack

Mic-phone in, Headphone out

VGA Out

One DB 15-pin VGA Port

AC Adapter

65W

Dimension

328mm x 268mm x 19.4mm~27.4mm~32.5mm

Weight

2.55 kg (5.61 lbs)

Battery Life

Target 4.5hrs