


Chapter 4

Options

Your notebook offers excellent expansion capabilities with its built-in ports and connectors. This chapter describes how to connect peripherals and hardware options that help you use your notebook computer with ease. When connecting peripherals, read the manual included with the peripheral for operating instructions.

This chapter also includes sections on how to upgrade key components. Key component upgradeability guards your notebook from becoming obsolete.

4.1 External Monitor

To show graphical effects on a larger display, open the port cover and connect an external monitor to the CRT port (). Read the monitor manual for additional instructions.

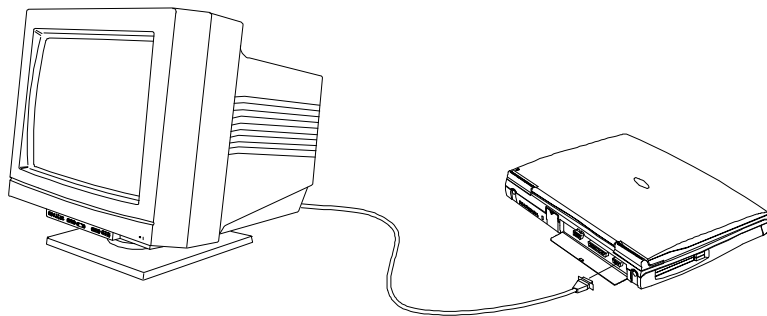



Figure 4-1 Connecting an External Monitor



Closing the notebook display puts the system into standby mode.

4.2 External Keyboard

This notebook has a keyboard with full-sized keys and an embedded keypad. If you feel more comfortable using a desktop keyboard, you can install a PS/2-compatible external keyboard.

To connect an external keyboard, plug the external keyboard into the PS/2 connector ().

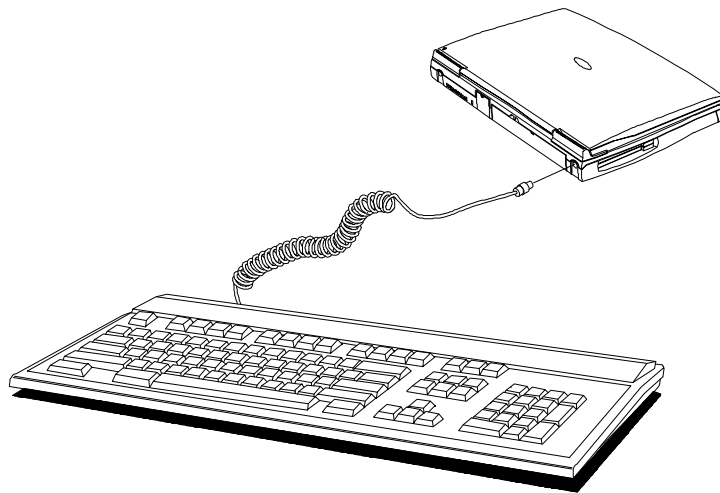



Figure 4-2 Connecting an External Keyboard

4.3 External Keypad

You can also use a 17-key numeric keypad for number-sensitive data entry applications. To connect the keypad, plug in the keypad connector to the PS/2 port () at the rear of the notebook.

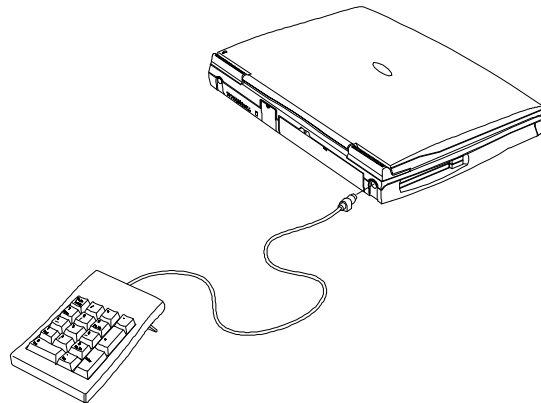



Figure 4-3 Connecting an External Keypad

4.4 External Pointing Device

This notebook accepts either a PS/2-compatible or serial mouse or similar pointing device.

The built-in touchpad works alternately with an external PS/2 mouse which is hot-pluggable. To use a PS/2-compatible mouse, simply plug it into the PS/2 port ().

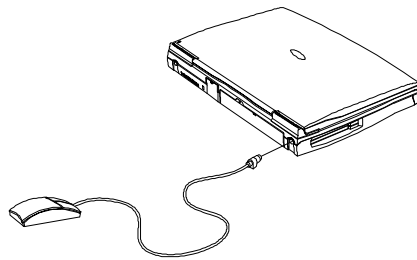



Figure 4-4 Connecting an External PS/2 Mouse

If you use a serial mouse, open the port cover and plug it into the serial port (). To enable the serial mouse, use the Add New Hardware tool in the Windows 95 Control Panel.

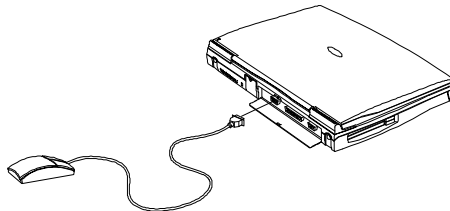


Figure 4-5 Connecting an External Serial Mouse



When using an external mouse, you may choose to disable the internal touchpad by pressing **Fn-T**.

4.5 Printer

This notebook supports both serial and parallel printers. For a serial printer, plug the printer cable into a serial port (⏏). For a parallel printer, open the port cover and plug the printer cable into the parallel port (⏏). See your printer manual for operating instructions.



If the printer does not function, enter Setup and see to it that the parallel port is enabled. Refer to section 6.5.5 for assistance.

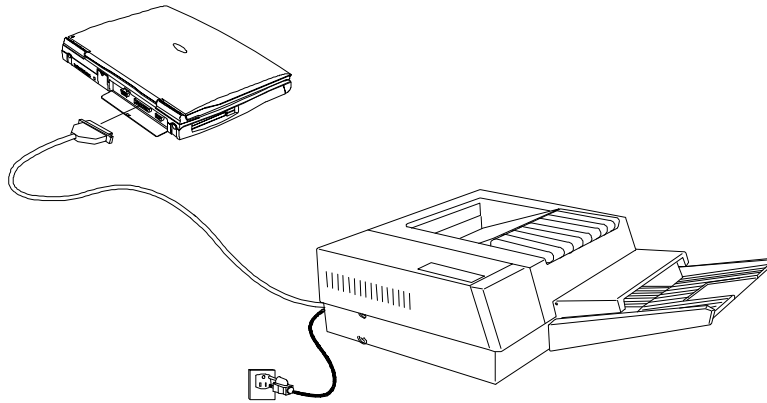


Figure 4-6 Connecting a Parallel Printer

4.6 Audio Devices

To connect audio devices, open the mini port cover and plug in an external microphone, a line-in device and amplified speakers or headphones to the microphone-in, line-in and line-out ports, respectively.

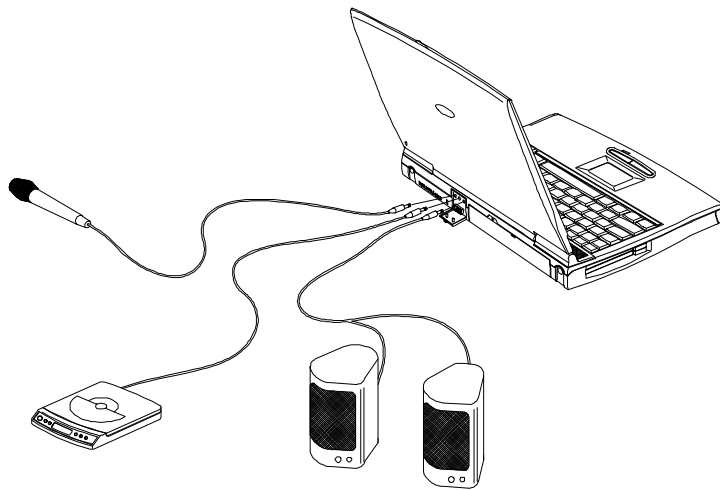


Figure 4-7 Connecting Audio Devices

4.7 PC Cards

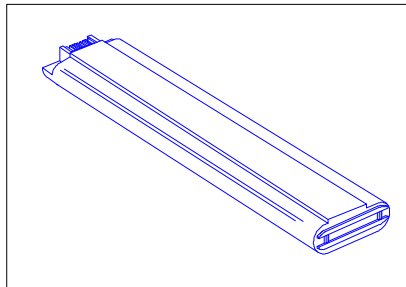
The notebook has two Cardbus PC card slots that accommodate two type I/II or one type III PC card(s). Please consult your dealer for PC card options available that you can purchase for your notebook.

4.8 Miscellaneous Options

4.8.1 Additional Power Packs

You can order spare batteries, AC adapter, and an external battery charger.

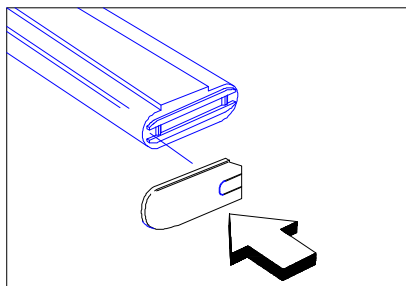
Battery Pack



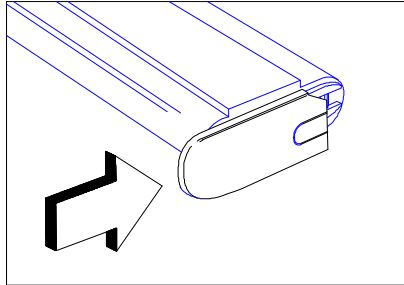
It is good practice to have a spare battery around, especially when you travel. The NiMH and Li-Ion batteries, coupled with power management features, supply you with more power on-the-go.

Attaching the Battery Compartment Cover

Lithium-Ion battery pack comes attached with a battery compartment cover. In case the cover gets detached, follow these steps to re-attach the cover to the battery.

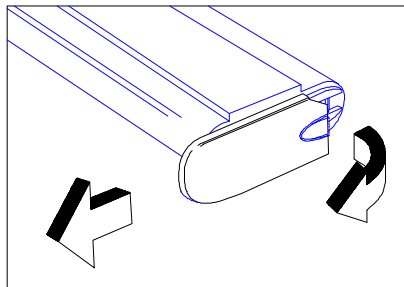


1. Position the battery compartment cover over the battery pack.



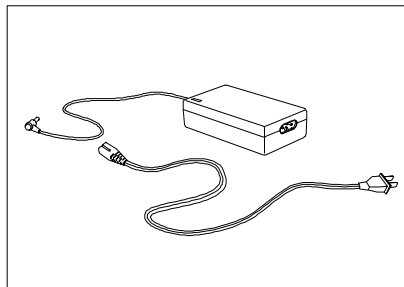
2. Using a little force, slide the battery compartment cover over the battery until both the cover and the battery are firmly attached. See figure on the left.

Detaching the Battery Compartment Cover



Slightly pull up the battery compartment cover release latch and slide out the cover.

AC Adapter



The compact AC adapter charges your battery pack and supplies power to your notebook.

External Battery Charger

The external battery charger allows you to fully recharge your NiMH and/or Li-Ion battery packs in a shorter period of time. It also automatically discharges the battery pack before charging for optimum recharge efficiency.

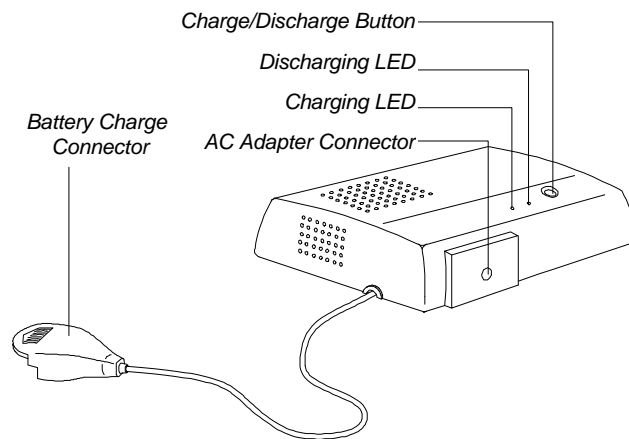
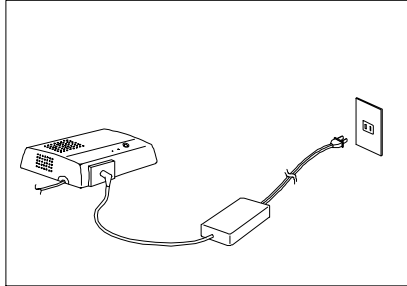


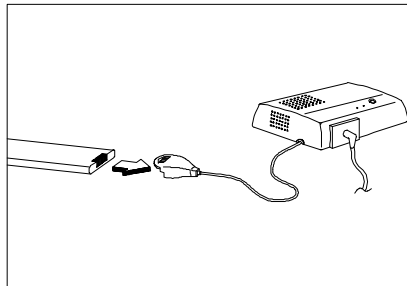
Figure 4-8 External Battery Charger

Using the External Battery Charger

Follow these steps:



1. Plug the AC adapter into a power outlet.
2. Connect the AC adapter to the external battery charger.



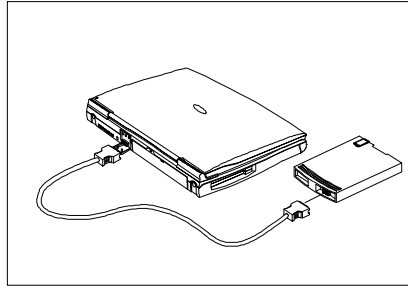
3. Attach the battery pack to the battery charge connector.

The charging LED lights up. The external battery charger automatically turns off after fully recharging the battery pack.

4.8.2 Cables

Floppy Drive Cable

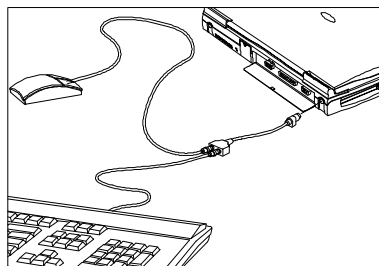
The floppy drive cable allows you to use your floppy drive module externally. This cable is supplied along with a floppy drive module.



Open the mini port cover of the notebook and connect one end of the floppy drive cable to the floppy drive port and the other end to the external floppy drive connector.

PS/2 Y-Bridge Cable

The PS/2 Y-bridge cable allows you to connect two PS/2 devices, mouse and keyboard, to your notebook simultaneously.



Connect the single connector end of the Y-bridge cable to the notebook's PS/2 port and the double connector ends to the two PS/2 devices.

Take note of the icons on the double connector before connecting the devices.

File Transfer Cable

You can use a file transfer cable to transfer data between the notebook and other computers. Connect the file transfer cable between the two computers and use your file transfer utility to perform the transfer.

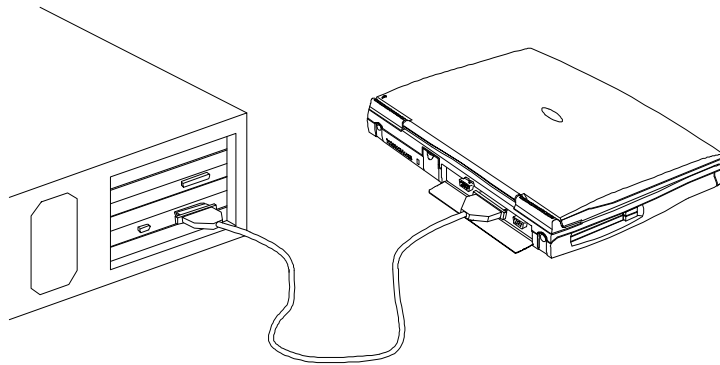


Figure 4-9 Using the File Transfer Cable

4.9 Key Component Upgrades

The notebook delivers superior power and performance. However, some users and the applications they use may demand more. This notebook allows you to upgrade your key components when you need increased performance.



Contact your authorized dealer if you decide to perform a key component upgrade.

4.9.1 Memory Upgrade

Memory is upgradeable from 8 to 64 MB, employing 8-/16-/32-MB 64-bit soDIMMs (Small Outline Dual Inline Memory Modules). The following table lists all possible memory configurations.

Memory Configurations

Table 4-1 Memory Configurations

Slot 1	Slot 2	Total Memory
8 MB	0 MB	8 MB
0 MB	8 MB	8 MB
8 MB	8 MB	16 MB
16 MB	0 MB	16 MB
0 MB	16 MB	16 MB
16 MB	8 MB	24 MB
8 MB	16 MB	24 MB
16 MB	16 MB	32 MB
32 MB	0 MB	32 MB
0 MB	32 MB	32 MB
32 MB	8 MB	40 MB

Table 4-1 Memory Configurations (continued)

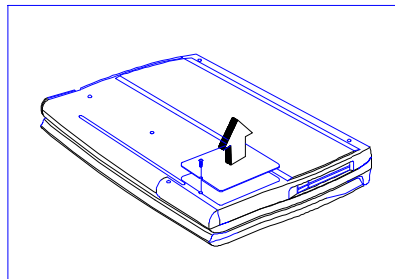
Slot 1	Slot 2	Total Memory
8 MB	32 MB	40 MB
32 MB	16 MB	48 MB
16 MB	32 MB	48 MB
32 MB	32 MB	64 MB

Installing Memory

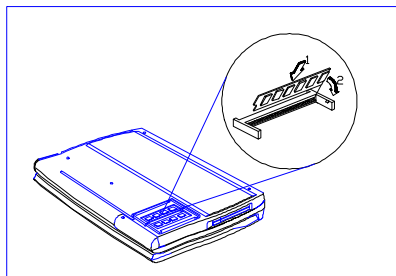


When installing memory, we recommend you seek the help of a qualified service technician. Improper installation may damage the memory module or the notebook, or cause a malfunction.

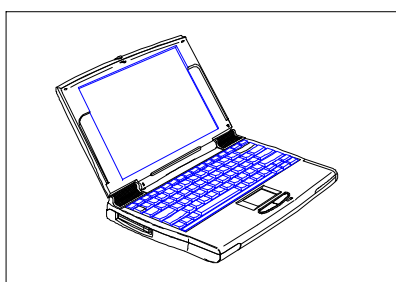
Follow these steps to install an additional memory module.



1. Turn off the computer, then turn the computer over on its base.
2. Remove the screw that secure the memory door and lift it up.



3. (1) Insert the memory module diagonally into the slot, then (2) gently press down the module until it clicks into place.
4. Replace the memory door and secure it with the screw.



5. Turn on the notebook.

After installing the memory modules, the system automatically detects and reconfigures the total memory size during the POST routines.

4.9.2 Hard Disk Upgrade

You can upgrade your hard disk with a higher capacity drive when you need more storage space. The notebook uses a 12.5mm, 2.5-inch Enhanced-IDE hard disk that is auto-detected or user-defined. The following table shows the available, supported hard disks.

Table 4-2 Hard Disk List

Vendor	Model	Capacity
Toshiba	MK1301MAV	1.3 GB
IBM	DMCA14400	1.44 GB

Use the blank spaces to record additional hard disks that will be available in the future.