

Hardware Options

This chapter tells how to install hardware options such as additional memory, an external keyboard or keypad, VGA monitor, mouse and printer. For operating instructions, read the manual included with the accessories.



Always turn off the notebook before you install additional devices. Also, if devices such as a printer or a monitor use a separate power source, turn on the devices first before you turn on the notebook.

3.1 Additional Memory

The system has two memory slots that let you install up to 32 MB of memory using 4/8/16MB industry-standard DIMMs (dual inline memory modules). These slots are accessible directly under the keyboard. Simply unlatch and lift the keyboard, then remove the heat sink to expose the memory slots.

Table 3-1 lists the possible memory configurations. Other configurations are not available.

Table 3-1 Memory Configurations

Slot I	Slot II	Total Memory
4 MB	0 MB	4 MB
4 MB	4 MB	8 MB
8 MB	0 MB	8 MB

Table 3-1 *Memory Configurations*

Slot I	Slot II	Total Memory
8 MB	4 MB	12 MB
8 MB	8 MB	16 MB
16 MB	0 MB	16 MB
16 MB	4 MB	20 MB
16 MB	8 MB	24 MB
16 MB	16 MB	32 MB



The configurations for Slots I and II are interchangeable.

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

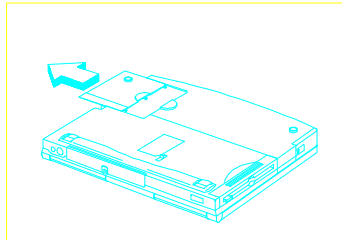
Should you decide to add memory, we recommend that you seek the help of a qualified service technician. Improper installation may damage the notebook or cause a malfunction. Consult your authorized dealer for assistance.

3.2 Hard Disk Drive Upgrade

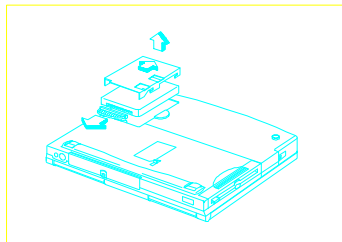
This notebook has a modular design that enables easy hard disk drive upgrades. The storage compartment accepts a high-capacity, 2.5-inch hard disk drive. See Appendix B for a list of the hard disk drives available.

We recommend that you seek the help of a qualified service technician if you decide to perform an upgrade. Improper installation may cause a malfunction or serious damage. Contact your dealer for more information.

Follow these steps to remove the hard disk drive:



1. Power off the notebook. Remove the storage compartment cover. Set aside.



2. Slide the drive cover as shown in the figure and remove it. Set aside. Then, lift the hard disk drive out of the compartment and very carefully disconnect the hard disk drive cable.

Reverse the process to install a hard disk drive.


The notebook automatically detects the hard disk drive type during power-on self test.



If the hard disk drive capacity is greater than 528MB, enter Setup and enable the Large Disk Capacity parameter. See section 4.3.4.

3.3 External Keyboard or Keypad

This notebook has a keyboard with full-sized keys and an embedded keypad. If you do a lot of numeric data entry, you may want to use a 17-key numeric keypad for greater convenience. Also, if you feel more comfortable using a desktop keyboard, you can install a 101-/102-key, PS/2-type external keyboard.

Connect an external keyboard or keypad into the keyboard/keypad/mouse connector () on the rear panel. See Figure 3-1.

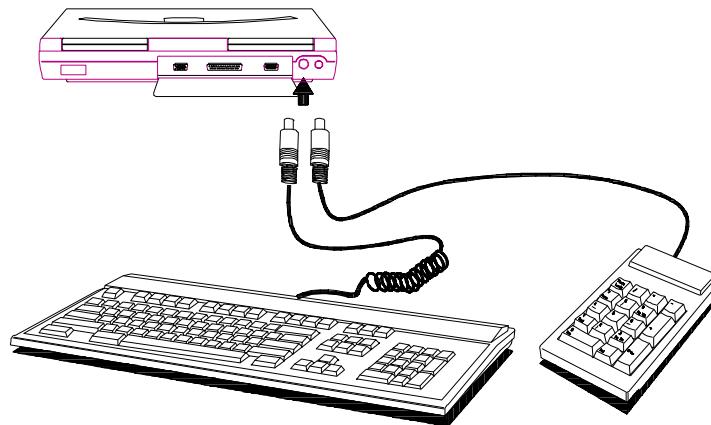



Figure 3-1 Connecting an External Keyboard or Keypad

3.4 External Monitor



To show graphical effects on a larger display, you can connect an external VGA monitor to the CRT port () on the rear panel. Read the monitor manual for additional instructions.



Before you install a monitor, turn off the notebook. Always turn on the external monitor first before you turn on the notebook.

An external VGA monitor connected to the notebook automatically displays at 640 x 480 resolution. To display high-resolution VGA, see the README.DOC file of the VGA utility found on the system utilities diskette for instructions on how to install the required software driver. See Appendix D for details.

3.5 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, plug the printer cable into the parallel port ().





Turn on the printer first before you turn on the notebook. See your printer manual for operating instructions.

If the printer does not function, enter Setup and see to it that the parallel or serial port is enabled. See section 4.5 for assistance.

3.6 External Mouse

This notebook accepts either a serial mouse or PS/2-compatible mouse or similar pointing device. Installing a PS/2 mouse automatically disables the built-in touchpad.

If you use a serial mouse, plug it into the serial port () on the rear panel. If you use a PS/2-compatible mouse, plug it into the keyboard/keypad/mouse connector () on the rear panel.



After you install the mouse, turn on the system. Run a mouse driver to activate the mouse. Read the mouse manual for more information.

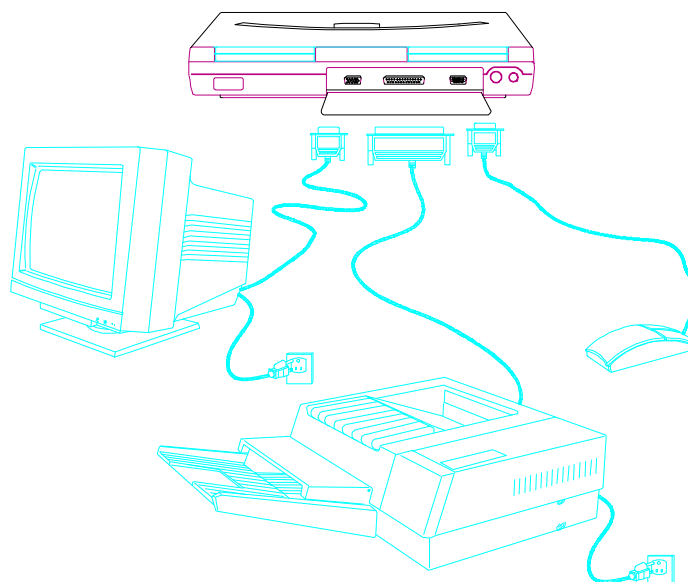
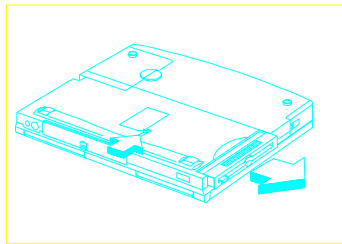


Figure 3-2 Connecting a Monitor, a Parallel Printer and a Serial Mouse

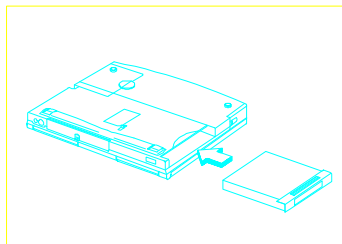
3.7 PCMCIA Slot Module

Besides the built-in type II slot found at the left panel, the notebook can support an additional PCMCIA slot module. The optional module can be installed into the accessory bay and is interchangeable with the removable diskette drive or secondary battery pack. The PCMCIA slot module accepts a type II or type III card (e.g., 1.8-inch ATA hard disk drive).

Follow these steps to install the PCMCIA slot module:



1. Power off the notebook or enter suspend mode. Unlock the accessory bay lock and pull out the diskette drive (or secondary battery pack). Set aside.



2. Slide in the PCMCIA slot module and click into place.

After power-on or resume, the notebook automatically sets the Floppy Disk Drive A parameter to [None].