chapter 1

PRODUCT DESCRIPTION

1.1 Computer Features and Models

The Compaq Armada 7400 Series of Personal Computers offers advanced modularity, an Intel Pentium II processor with 64-bit architecture, an industry-leading Accelerated Graphics Port (AGP) implementation, and extensive multimedia support. The computer provides desktop functionality and connectivity through the optional ArmadaStation II and Armada MiniStation.

Figure 1-1. *Compaq Armada 7400 Personal Computer*

Models

The Armada 7400 models are shown in Table 1-1. The computer model designation is composed of a group of characters that define each model's characteristics.

Table 1-1
Models and Model Naming Convention
Compaq Armada 7400 Series of Personal Computers

Key										
7	**8**	**0**	**0**	**6**	**366**	**T**	**10.0**	**V**	**M**	**1**
A	B			C	D	E	F	G	H	I

Key	Description	Options		
A	Line designator	7 = Performance		
B	Series designator	4 = Armada 7400		
C	Processor type	6 = Intel Mobile Pentium II processor with MMX technology		
D	Processor speed	366 = 366-MHz processor 333 = 333-MHz processor	300 = 300-MHz processor 266 = 266-MHz processor	
E	Panel type	T = 13.3" XGA TFT 1024 × 768	T14 = 14.1" XGA TFT 1024 × 768	
F	Hard drive capacity	10.0 = 10.0 GB	6.4 = 6.4 GB	4.0 = 4.0 GB
G	Drive type	D = CD-ROM	V = DVD-ROM	0 = None
H	Modem	M =Internal or PC Card modem		0 = Audio only
I	Operating system & software version	0 = No operating system 1 = Windows 95	2 = Windows 98 3 = Windows NT 4.0	

Model							Memory	Config. Code	SKU#
Armada 7400	6366	T14	10.0	V	M	1	64 MB	CH81	387070-XX2
Armada 7400	6366	T14	10.0	V	M	3	64 MB	CH82	387071-XX2
Armada 7400	6366	T14	10.0	V	O	1	64 MB	CH83	114400-022
Armada 7400	6366	T14	10.0	V	O	3	64 MB	CH84	114411-022
Armada 7400	6366	T	10.0	V	M	1	64 MB	CHS1	387068-XX2
Armada 7400	6366	T	10.0	V	M	3	64 MB	CHS2	387072-XX2
Armada 7400	6366	T	10.0	V	0	1	64 MB	CHS3	387069-022
Armada 7400	6366	T	10.0	V	0	3	64 MB	CHS4	114293-022
Armada 7400	6333	T	6.4	D	0	3	64 MB	CDK4	386686-XX2
Armada 7400	6333	T	6.4	D	M	3	64 MB	CDK1	386687-XX2
Armada 7400	6333	T	6.4	D	0	1	64 MB	CDK3	386691-XX2
Armada 7400	6333	T	6.4	D	M	1	64 MB	CDK2	341900-XX2
Armada 7400	6300	T	6.4	D	M	1	64 MB	BXL1	204200-XX2
Armada 7400	6300	T	6.4	D	0	1	64 MB	BXL2	204250-XX2
Armada 7400	6300	T	6.4	D	0	2	64 MB	BXL4	204500-XX2
Armada 7400	6300	T	6.4	D	0	3	64 MB	BXL3 BXL5	204450-XX2 387593-001
Armada 7400	6300	T	6.4	V	M	3	64 MB	BXL8	102230-001
Armada 7400	6300	T	6.4	V	M	1	64 MB	CNN1	104920-XX2
Armada 7400	6300	T	6.4	V	M	3	64 MB	CNN2	105863-XX2
Armada 7400	6266	T	6.4	D	0	1	32 MB	BXL6	402246-001
Armada 7400	6266	T	4.0	D	0	1	64 MB	BXK3 BXK8 BXL7	204482-001 400589-081 402480-001
Armada 7400	6266	T	4.0	D	0	3	32 MB	BXK1 BXK7	204300-XX2 387592-001
Armada 7400	6266	T	4.0	D	0	1	32 MB	BXK2 BXL9	204150-XX2 104755-XX1
Configure to Order (CTO) model								CDKZ	341821-999

Features

The computer has the following standard features:

- Intel Mobile 366-, 333-, 300-, and 266-MHz Pentium II processor with 64-bit architecture, MMX technology, and 512-KB, level-2 cache memory
- Industry-leading portable computer AGP implementation, featuring:
  - 66-MHz dedicated graphics bus
  - frame made AGP
- 4-MB SGRAM (synchronous graphics)
- 32- or 64-MB of SDRAM (synchronous): populated in one slot; expandable to 256 megabytes
- Upgradable flash ROM BIOS
- 14.1- and 13.3-inch XGA (1024 × 768) TFT color display, true color (24-bit) support
- Keyboard with built-in EasyPoint III pointing device and mouse buttons
- Euro symbol provided on Europe/Middle East/Africa keyboards
- External AC adapter
- Lithium ion (Li-ion) battery pack
- Removable 10.0-, 8.1-, 6.4-, and 4.0-GB hard drives
- MultiBay that supports a diskette drive, CD-ROM drive, SuperDisk LS -120 drive, DVD-ROM drive, or second hard drive (in Hard Drive MultiBay Adapter)
- Two PC Card slots that accept 32- and 16-bit Type I, II, and III PC Cards, with zoomed video interface in the bottom slot
- IrDa-compliant infrared port[1] (4-Mbps standard) for wireless file transfer, printing, and file synchronization
- Built-in stereo speakers providing Compaq PremierSound, microphone, and jacks for stereo audio sound with electronic equalization and wave table synthesis
- Energy Star-compliant power saving features
- Ports and connectors for external equipment, including universal serial bus (USB), serial, parallel, external monitor, and PS/2-compatible pointing device or keyboard
- Security features
- Desktop functionality available with the optional Compaq ArmadaStation II and Armada MiniStation E/EX
- Integrated 56- or 33.6-Kbps data/14.4-Kbps fax modem (on modem models only; availability varies by region)

[1] IrDa 4MB compliant. Infrared performance may vary depending on performance of infrared peripherals, distance between infrared devices, and applications used.

Intelligent Manageability

Intelligent Manageability consists of preinstalled software tools for the computer and Compaq servers that assist in tracking, troubleshooting, protecting, and maintaining the computer. It provides the following functions:

- **Asset Management**—provides detailed configuration and diagnostic information.
- **Fault Management**—prevents, predicts, and alerts of impending hardware problems.
- **Security Management**—protects against unauthorized access to data and components.
- **Integration Management**—uses industry-standard technologies such as DMI and SNMP to integrate with PC management software providers.
- **Configuration Management**—optimizes the computer by providing the latest drivers, utilities, and software, which are available on CD-ROM and the Compaq web site at http://www.compaq.com.

NOTE: For further help with Intelligent Manageability, refer to Intelligent Manageability Help. Click Start → Compaq Information Center → double-click Intelligent Manageability Help.

Asset Management

AssetControl retrieves component information when on the road or connected to the network.

AssetControl also enables the network administrator to remotely retrieve information from any Compaq computer connected to the network. The information can be used to assist in tracking and maintaining the computer and its components. It provides the following information:

- Inventory information—The network administrator can retrieve information about the computer over the network by using Compaq Insight Manager or any PC management tool provided by Compaq Solution Partners. AssetControl information retrieved from the computer includes:
  - Manufacturer, model, and serial number of Compaq computers, monitors, hard drives, battery packs, memory boards, processor speeds, and operating systems.
  - Asset tag
  - System board and ROM revision levels
  - BIOS settings
- Diagnostic information—Diagnostics for Windows includes the information on hard drives, ports, and video, sound, and other components. Compaq Diagnostics for Windows can be accessed by clicking Start → Programs → Compaq Utilities → Compaq Diagnostics.

All of the above information can be viewed, printed, or saved.

Changing the Asset Tag Number

1. Turn on or restart the computer.
2. Press **F10** when the cursor appears in the upper right corner of the screen.
3. Select Computer Setup → Intelligent Manageability.
4. Follow the instructions on the screen.

Fault Management

The Fault Management features minimize downtime and data loss by monitoring system performance and generating the following alerts:

- **Hard drive alert**—provides warning up to 72 hours in advance of impending hard drive problems and can automatically start optional backup software.
- **System temperature alert**—reports overheating. As the system temperature rises, this feature first adjusts fan speed and other cooling components, then displays an alert, then shuts down the system.
- **Battery pack alert**—reports charging problems and battery pack failure.
- **Monitor alert**—diagnoses and displays external monitor operational problems.
- **Memory alert**—reports memory board configuration changes when a memory board is removed, added, or reconfigured. It also provides the previous and current configurations for comparison.

The alerts work with or without network connection. Of course, if the computer is not connected to the network, the network administrator cannot receive alerts from the computer.

Fault Management Alerts

Alerts can be enabled, disabled, and tested, and software can be set to back up information whenever a hard drive alert occurs.

- While the computer is connected to a network, alerts appear on the computer display and are simultaneously reported to the network console.

NOTE: A battery charging problem alert is reported only on the computer display.

- When the computer is not connected to a network, the user will receive a local alert.

To set alerts, double-click the Intelligent Manageability icon.

Security Management Overview

Security Management features customize system security.

- **Power-On and Setup Passwords**—prevent unauthorized access to your information and computer configuration.
- **DriveLock**—prevents access to hard drives.

- **Device disabling**—prevents unauthorized data transfer through modems, serial ports, parallel ports, and infrared ports on the computer and an optional docking station.
- **QuickLock/QuickBlank**—locks the keyboard and clears the screen.
- **Ownership Tag**—displays ownership information during system restart.

Configuration Management

Configuration Management optimizes software upgrade and customer support procedures. Compaq provides support software to optimize the performance of the computer. This support software is accessible through a monthly subscription CD-ROM. Support software can also be downloaded from the Compaq web site at http://www.compaq.com. Support software includes:

- **Locator browser**—searches for the latest device drivers, utilities, ROM images, and other support software on a CD-ROM and at the Compaq web site at http://www.compaq.com.
- **Decision Support**—provides detailed information about drivers, utilities, and software available on the computer. The information includes descriptions, features, enhancements, dependencies, and necessary upgrades.
- **InfoMessenger**—provides notifications by email when support software for the computer becomes available.

Power Management Utility

The Power Management utility (Power) allows you to monitor how AC and battery power are used. It controls most computer components, including the hard drive, processor, and display.

Power Management also allows you to preset or customize conservation of power under the following tabs:

- Power
- Disk Drives
- PC Card Modems
- Resume Timer
- Battery Status
- Battery Conservation
- Hibernation

To access Power Management, click Start → Settings → Control Panel → double-click the Power icon.

NOTE: If you are using Windows NT 4.0, select Compaq Power instead of Power. If you are using Windows 98, select Power Management.

The following table describes the actions that can be performed under each tab. A description of each tab follows.

If You Want To:	Click This Tab:
Show the battery meter on the taskbar; show the status of batteries; show the Suspend command on the Start menu	Power
Select how long Windows will wait before switching the disk drive to low power mode	Disk Drives
Turn off power to PC Card modems when not in use	PC Card Modems
Select a date and time to be used to reset the computer when all power is turned off	Resume Time
Display the remaining life and status of installed batteries	Battery Status
Set battery conservation levels and settings; enable/disable warning beeps	Battery Conservation Settings
Select Hibernation Settings	Hibernation

Power Tab

The Power Tab allows a shortcut to be created enabling the battery meter to appear on the task bar. The current power status of the computer as well as the status of all battery is also displayed.

Advanced Power Tab features include the ability to show the Suspend command on the Start menu, whether the Suspend command appears when the computer is docked or undocked, and whether the computer will wake up when the telephone rings (for computers connected to phone lines). Troubleshooting options are also available under the Advanced Power Tab features.

Disk Drives

The Disk Drives Tab is used to set up the time the Windows operating system waits before switching the disk drive to low power mode when the computer is powered by AC power and battery.

PC Card Modems Tab

When PC Card modems are installed, they draw power from the system even when they are not in use. For optimum power conservation, follow this guideline when using PC Card modems: if PC Card modems are kept in the computer, set the PC Card Modems tab to turn off power to PC Card modems when they are not in use. Otherwise, remove PC Card modems when they are not being used.

Resume Time Tab

When all power sources (AC power, battery pack, auxiliary battery, and real time clock (RTC) battery) to the computer are disconnected, the system date and time are reset to the settings established in this tab.

Battery Status Tab

The Battery Status tab provides the following information:

- The position of possible battery pack locations in the computer
- An illustration of each battery pack and the bay where it is installed in the computer
- The status (high, low, critical, and charging) of each battery pack
- The percentage of charge remaining in each battery pack
- Which battery pack, if any, is currently charging

Battery Conservation Tab

The Battery Conservation tab allows you to select the level of battery conservation: High, Medium, None (Drain), or Custom. Medium conservation is the default setting.

In addition to accessing this tab through the Power menu and Power Management, you can press hotkeys **Fn+F7** in any application. A popup window displays the current battery level. Use the left or right arrow to select a different level.

❶ **High Conservation—**Provides maximum battery conservation and the most battery life from a single charge.

❷ **Medium Conservation (Default Setting)—**Provides a balance between system performance and battery life.

❸ **None (Drain)—**Turns off the battery conservation features, which allows the system to run at full speed. This setting also causes the computer to fail to initiate Hibernation. At other conservation settings, the computer automatically initiates Hibernation when it reaches a low-battery condition, even if Hibernation has been manually disabled.

CAUTION: Before setting the battery conservation level to None (Drain), ensure that the Hibernation feature has not been disabled.

❹ **Custom—**Allows you to specify conservation settings for Suspend, system idle, screen save, processor speed, and brightness. Refer the following section for information on timeouts.

Hibernation Tab

The Hibernation tab allows you to enable or disable Hibernation and to set the timeout periods after which the system initiates Hibernation. For Hibernation to work, it must allocate space on the hard drive equal to the amount of system memory. Turning off Hibernation is not recommended by Compaq; however, it is possible to free up this disk space by disabling Hibernation.

CAUTION: Turning off Hibernation is not recommended. If the computer reaches a low-battery condition and Hibernation has been disabled, unsaved information is lost.

When the computer is restarted after adding memory, the system first upgrades the memory, then allocates or updates the disk space to adjust to the new amount of memory.

NOTE: If you experience problems with Hibernation after upgrading the memory, go to the Power icon and click the Hibernation tab to reset the system memory.

Timeouts are specified periods of system or component inactivity designed to conserve power. When a timeout period expires, battery conservation shuts down the system or the specified components to save power.

For example, the hard drive idle default timeout is two minutes. If an application does not access information on the hard disk for two minutes, the hard drive shuts down until it is accessed again.

These guidelines can aid in choosing the most appropriate timeouts for the computer:

1. The preset timeout provides the medium (default) or high level of battery conservation.
2. Customized timeouts, which are set through the custom level of battery conservation, allow the computer to work more efficiently with applications on the computer.

1.2 Computer Components

The following table lists the components that ship with the most typical configurations of the computer and components that are available as options. All components are available as spare parts. For more information about ordering components, refer to Chapter 3, "Illustrated Parts Catalog."

Table 1-2
Component Availability

Component	Ships with Computer	Available as Option
Battery pack	■	■
Modem (not available in all locations)	■[1]	■
Modem cable (country specific; modem models only)	■	■
Diskette drive	■	■
MultiBay weight saver	■	■
Slipcase (Europe, Middle East, Africa, Latin America, and Japan only)	■	■
EasyPoint III caps	■	■
Power cable	■	■
Quick Restore CD-ROM	■	■
Security kit	■	■
AC Adapter	■	■
24X CD-ROM drive	■[1]	■
10.0-, 8.1-, 6.4-, and 4.0-GB hard drives	■[2]	■
Armada 7000 Removable Drive MultiBay Adapter		■
ArmadaStation II		■
Armada MiniStation E and EX		■
Memory expansion boards		■
Battery charger		■
Automobile/aircraft adapter		■
Headset		■
Hard Drive MultiBay Adapter		■
DVD-ROM drive	■[1]	■
SuperDisk LS-120 drive		■
External Diskette drive		■
USB Cardbus PC Card		■
Cellular phone cables (available in North America only)		■
Portable Video Conferencing Kit		■
SpeedPaq Cellular PC Card Kit		■
External infrared transceiver		■
Security lock		■

[1] Modem, CD-ROM drive, and DVD-ROM drive availability vary depending on computer model.
[2] Hard drive size varies depending on computer model.

The computer options are described in the following sections.

System Memory Options

The main memory subsystem supports a minimum standard 32 or 64 megabytes of Synchronous SDRAM, expandable to 256 megabytes. The minimum standard Synchronous SDRAM is installed in the memory expansion compartment. The upgrade SDRAM is accomplished with memory expansion boards that are available in 16-, 32-, 64- and 128-megabytes.

The memory expansion slot cover is secured to the computer by Torx T-10 screws. Tamper-resistant security screws, included with the computer, can be used to provide added security. The security screwdriver, also included with the computer, must be used to remove the tamper-resistant security screws.

System memory can be upgraded as shown in Table 1-3.

Table 1-3
Memory Upgrade

Base Memory	Memory Expansion Board	Total Memory
32 MB	16 MB (1 × 16 MB)	48 MB
32 MB	32 MB (1 × 32 MB)	64 MB
32 MB	64 MB (1 × 64 MB)	96 MB
32 MB	128 MB (1 × 128 MB)	160 MB
64 MB	16 MB (1 × 16 MB)	80 MB
64 MB	32 MB (1 × 32 MB)	96 MB
64 MB	64 MB (1 × 64 MB)	128 MB
64 MB	128 MB (1 × 128 MB)	192 MB
128 MB	128 MB (1 × 128 MB)	256 MB

Armada 7400 models are shipped with 32- and 64-MB of memory installed in the system memory compartment, depending on the model.

Mass Storage Devices

The following mass storage devices are available for the computer.

Table 1-4
Mass Storage Devices

Device	Capacity
Diskette drive	3.5-inch, 1.44 MB
Hard drive	10.0, 8.1, 6.4, and 4.0 GB (also available as an option)
CD-ROM drive	24-speed Max (also available as an option)
DVD-ROM	4.7 GB, 20-speed Max
SuperDisk LS-120 drive	120 MB
External diskette drive	3.5-inch, 1.44 MB

Diskette Drive

The computer uses a 3.5-inch diskette drive that fits into the computer, ArmadaStation II, or Armada MiniStation EX MultiBays. The diskette drive is a three-mode type that is compatible with 1.44 megabytes, 1.2 megabytes, and 720 kilobytes (formatted) AT drive types. The system supports a maximum of two diskette drives: one in the computer MultiBay and one in the ArmadaStation II or Armada MiniStation EX MultiBay.

Hard Drive

The dedicated hard drive bay supports removable 10.0-, 8.1-, 6.4-, and 4.0-GB hard drives; the MultiBay supports a second hard drive. Before a hard drive can be used in the MultiBay, it first must be inserted in the Hard Drive MultiBay Adapter.

CD-ROM Drive

A 24- or 20-speed Max CD-ROM drive comes as standard equipment with the computer, depending on the model. The drive supports 3.5-inch and 5.25-inch media in the following formats:

- ISO-9660, the most common CD-ROM format
- CD-ROM XA eXtended Architecture, a standard for storing multimedia information
- Photo CD (single and multisession), Kodak's format for storing photographic images on CD-ROM
- CD-i and CD-i Bridge
- CD-DA (digital audio)
- CD-ROM Mode 1 and Mode 2
- CD-I Mode 2 (Form 1 and Form 2)
- Video CD

Power Equipment Options

The following power options are available:

- AC Adapter
- Ten-foot power cord (a 6-foot cord ships with the computer as standard equipment)
- Automobile/Aircraft Adapter
- Lithium ion battery pack
- Battery Charger

AC Adapter

The AC Adapter is field replaceable and ships with the computer and is available as an option. The 44-watt AC Adapter converts 100/220 volts AC into low-voltage DC to drive the DC-DC converter and to recharge the battery pack. The output of this AC/DC supply is the battery voltage, approximately 10 to 19 volts.

Automobile/Aircraft Adapter

The Automobile/Aircraft Adapter allows the computer to operate from a 12-volt aircraft DC socket and from an automobile cigarette lighter receptacle.

Lithium Ion Battery Pack

The battery pack can be used in the computer battery bay, ArmadaStation II MultiBays, and Armada MiniStation EX MultiBay and battery charging bay.

Battery Charger

The external Battery Charger has the following features:

- Two battery charging bays
- Charging of one battery in 1.5 hours
- Charging of two batteries in 3 hours

1.3 Computer External Components

The external components on the display, front, and left side of the computer are shown in Figure 1-2 and described in Table 1-5.

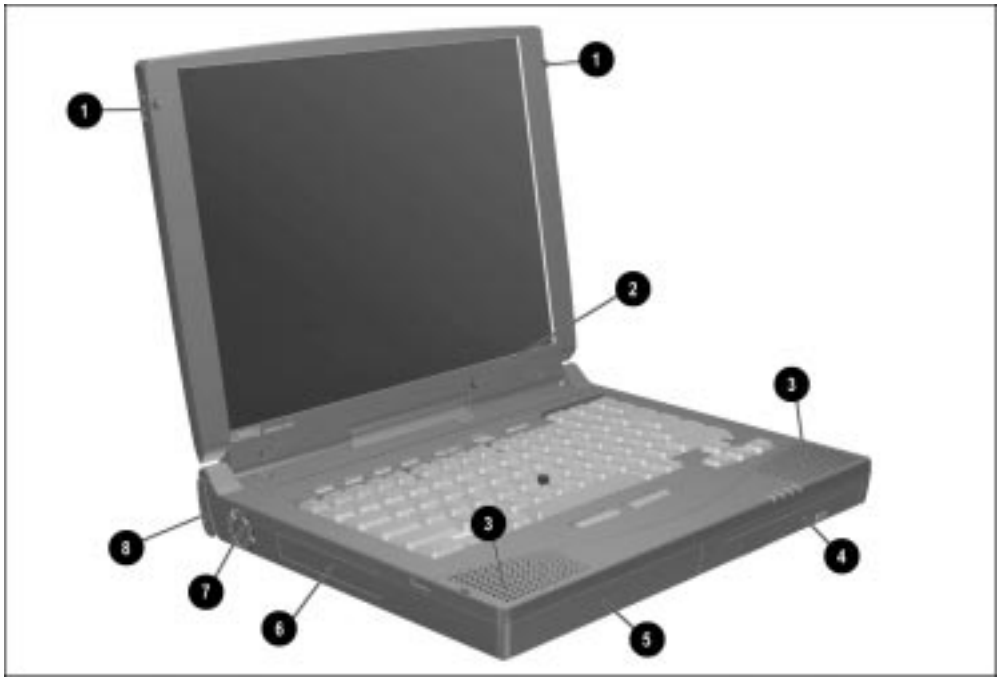

Figure 1-2. *Display, Front, and Left Side Components*

Table 1-5
Display, Front, and Left Side Components

Item	Component	Function
1	Display release latch	Opens the computer.
2	Mono microphone	Allows for audio input; located on the inside and outside of the display, can be used whether the computer is open or closed.
3	Stereo speakers (2)	Produce high-quality stereo sound.
4	MultiBay	Accepts MultiBay devices: CD-ROM drive, diskette drive, hard drive (in Hard Drive MultiBay Adapter), LS-120 SuperDisk drive, DVD-ROM drive.
5	Battery bay	Accepts lithium ion battery pack.
6	Hard drive bay	Accepts removable hard drive.
7	Fan	Provides airflow exhaust.
8	Tilt feet (2)	Tilt the computer for ease of use.

The external components on the right side of the computer are shown in Figure 1-3 and are described in Table 1-6.

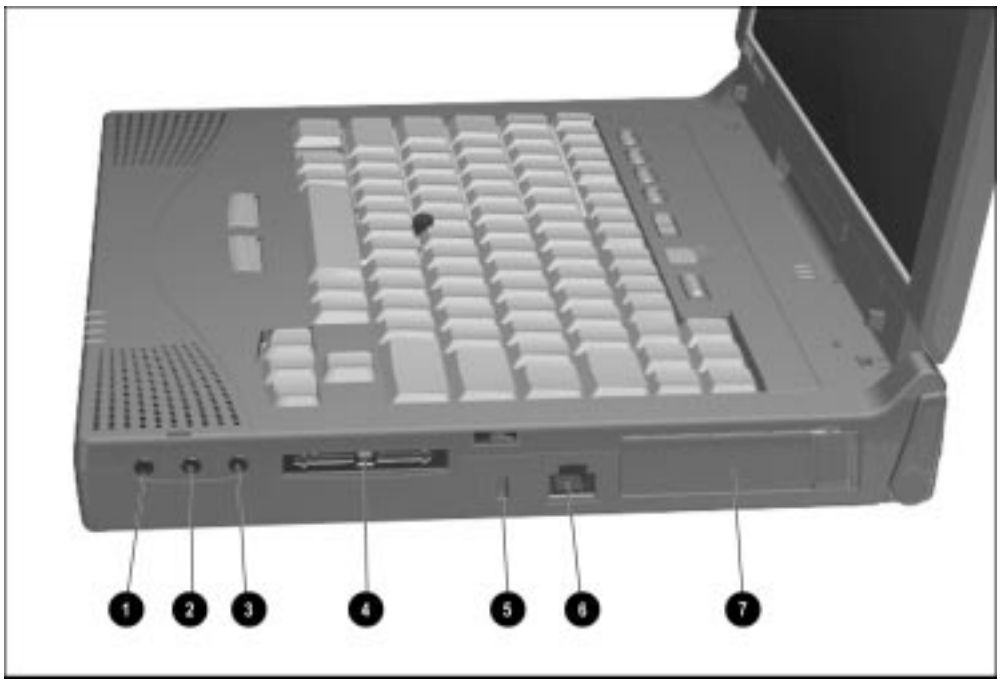

Figure 1-3. *Right Side Components*

Table 1-6
Right Side Components

Item	Component	Function
1	Stereo speaker/headphone jack	Connects external stereo speakers and headphones to the computer. This jack is driven by an amplifier and has volume control. The internal speakers are turned off when external speakers or headphones are plugged into this jack.
2	Microphone jack	Connects an external monophonic microphone.
3	Stereo line-in jack	Connects a CD player, tuner, or tape deck to the computer.
4	25-pin modem connector	Connects a country-specific 25-pin telephone cable to the computer in all countries except North America, Latin America, and Japan. (North America, Latin America, and Japan refer to the RJ-11 jack.) Also connects a cellular phone to the computer in the United States only.
5	Security slot	Secures the computer to a fixed object to prevent theft.
6	RJ-11 jack	Connects a standard telephone cable to the computer in North America, Latin America, and Japan. (This jack may be blocked out in other countries.)
7	PC Card slots	Accepts 16- and 32-bit CardBus PC Cards. Supports Type I, II, and III PC Cards such as modem or network cards.

The external components on the rear panel of the computer are shown in Figure 1-4 and are described in Table 1-7.

Figure 1-4. *Rear Panel Components*

Table 1-7
Rear Panel Components

Item	Component	Function
1	Infrared port	Provides wireless communication between the computer and another infrared-equipped device using an infrared beam.
2	Universal serial bus (USB) connector	Connects USB devices, such as cameras for video conferencing, or hubs which connect multiple USB devices. Also connects a hub which allows multiple USB devices to be connected to the computer.
3	Parallel connector	Connects optional parallel devices such as a printer.
4	Docking connector	Connects optional ArmadaStation or Armada MiniStation E or EX.
5	External monitor connector	Connects an optional external monitor. Also connects a television adapter.
6	Serial connector	Connects optional serial devices such as a mouse.
7	Keyboard/mouse connector	Connects an optional full-sized keyboard or a mouse. Both external mouse and computer pointing device are active. An optional splitter/adapter allows both an external keyboard and mouse to be used at the same time.
8	Power connector	Connects the AC Adapter to the computer.

Computer keyboard components are shown in Figure 1-5 and described in Table 1-8.

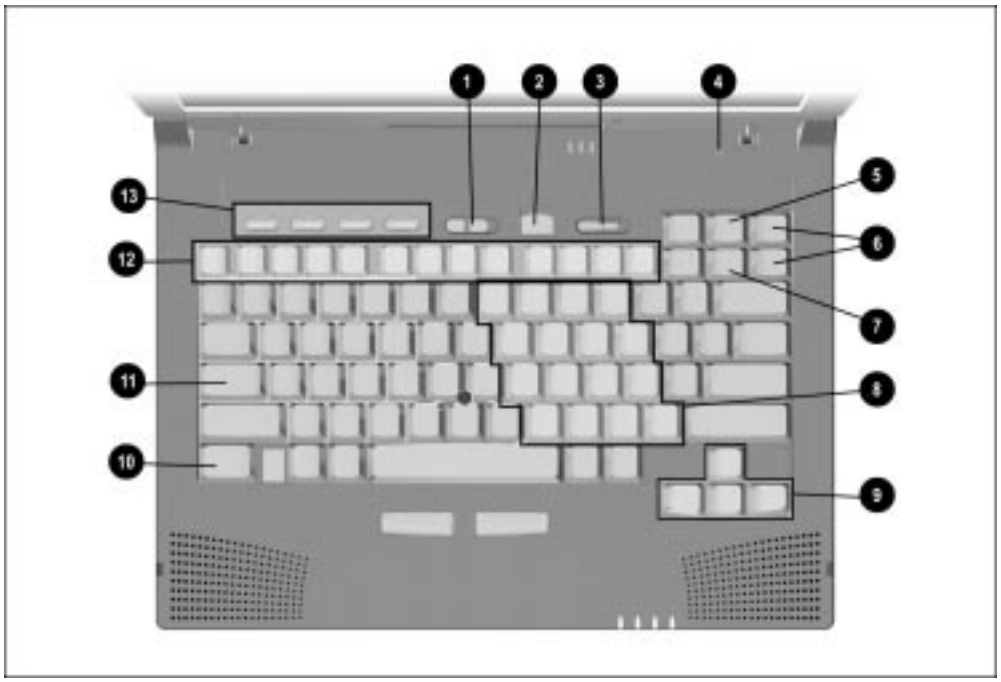

Figure 1-5. *Keyboard Components*

Table 1-8
Keyboard Components

Item	Component	Function
1	Volume control	Adjusts volume of stereo speakers.
2	Suspend button	Toggles on to initiate or off to exit Suspend.
3	Power switch	Turns computer on or off.
4	Display switch	Turns off the display if it is closed while the computer is turned on. The computer beeps unless audio has been disabled.
5	Scroll lock key	Turns on the scroll function.
6	Page up and page down keys	Moves image to previous or following screen.
7	Num Lk key	Turns on the numeric lock function.
8	Embedded numeric keypad	Converts keys to numeric keypad.
9	Cursor-control keys	Moves the cursor around the screen.
10	Fn key	Used with hotkeys to perform preset hotkey functions.
11	Caps lock key	Turns on the caps lock function.
12	F1 through F12 function keys	Perform preset functions.
13	Programmable keys	Assign and launch frequently used documents or applications and emulate Windows and Application Logo Keys.

Additional computer keyboard components are shown in Figure 1-6 and described in Table 1-9.

Figure 1-6. *Keyboard Components (continued)*

Table 1-9
Keyboard Components (continued)

Item	Component	Function
1	EasyPoint III pointing device	Moves the cursor across the screen.
2	Left and right mouse buttons	Function like left and right mouse buttons on an external mouse.
3	Power/suspend light (green)	Turns on when computer is turned on; blinks in Suspend; turns off when computer is in Hibernation or turned off.
4	Hard drive light (green)	Turns on when the hard drive is being accessed.
5	Battery power light (orange)	Turns on when a battery pack in the battery bay is charging or waiting to charge. Turns off when battery pack is fully charged. Blinks 6 times if low-battery condition is reached. Blinks continuously if critical low-battery condition is reached. If AC power is not connected within 20 seconds, Hibernation is initiated (unless Hibernation has been disabled).
6	MultiBay drive light (green)	Turns on when the MultiBay device is being accessed or when a battery pack in the MultiBay is charging or waiting to be charged.
7	Numeric lock light	Turns on when the Numeric Lock function is on.
8	Scroll lock light	Turns on when Scroll function is on.
9	Caps lock light	Turns on when the Caps Lock function is on.

The external components on the bottom of the computer are shown in Figure 1-7 and are described in Table 1-10.

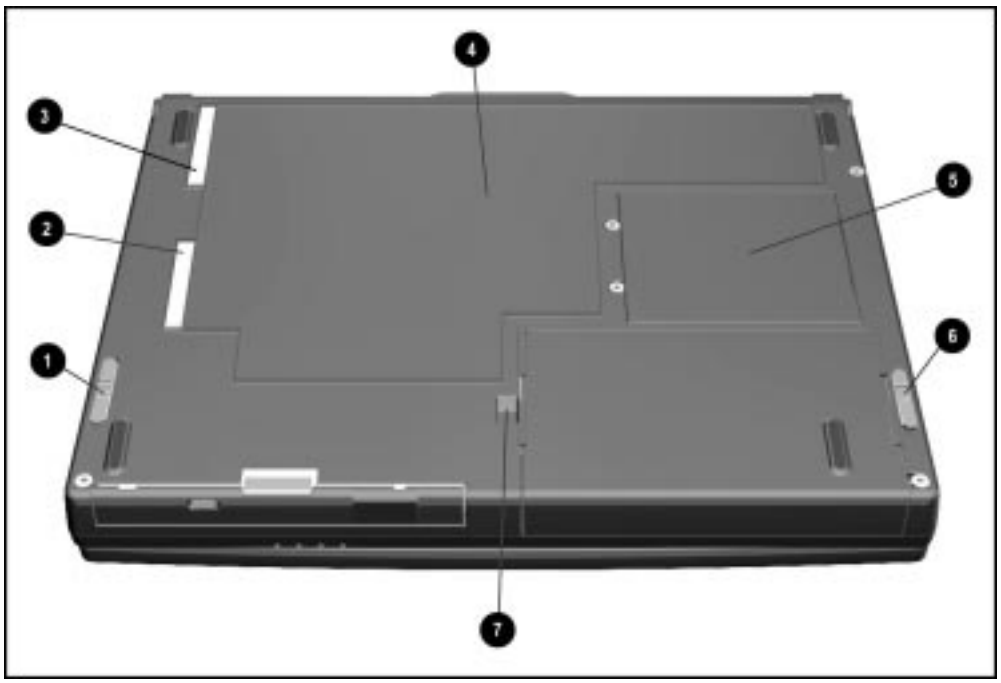

Figure 1-7. *Bottom Components*

Table 1-10
Bottom Components

Item	Component	Function
1	MultiBay release latch	Releases devices from the MultiBay.
2	Serial number	Numerical identification for the computer.
3	Model configuration number	Identifies model information
4	Labels area	Contains labels that describe the computer model and provide agency and modem information.
5	Memory expansion slot cover	Covers the memory expansion compartment.
6	Battery release latch	Releases the battery from the battery bay.
7	Docking restraint latch recess	Secures the computer to the ArmadaStation.

1.4 Design Overview

This section presents a design overview of key parts and features of the computer. Refer to Chapter 3 for the illustrated parts catalog and Chapter 5 for removal and replacement procedures.

System Board

The system board provides the following device connections:

- Memory expansion board
- Diskette drive
- Hard drive
- CD-ROM drive
- Display
- Keyboard/EasyPoint III pointing device
- Audio
- Intel Mobile Pentium II processor
- Fan
- PC Cards
- Modem

The computer is equipped with a 3.1-volt, Intel Mobile Pentium II 366-, 333-, 300-, or 266-MHz processor, depending on the model. For ventilation, an electrical fan is installed. The fan operates on from 5 to 12 volts and is controlled by a temperature sensor. The fan is designed to turn on automatically when high temperature conditions exist. These conditions are affected by high external temperatures, system power consumption, power management/battery conservation configurations, battery fast charging, and software applications. Exhaust air is displaced through the ventilation grill located on the left side of the computer.

CAUTION: To properly ventilate the computer, allow at least a 3-inch (7.6 cm) clearance on the left and right sides of the computer.