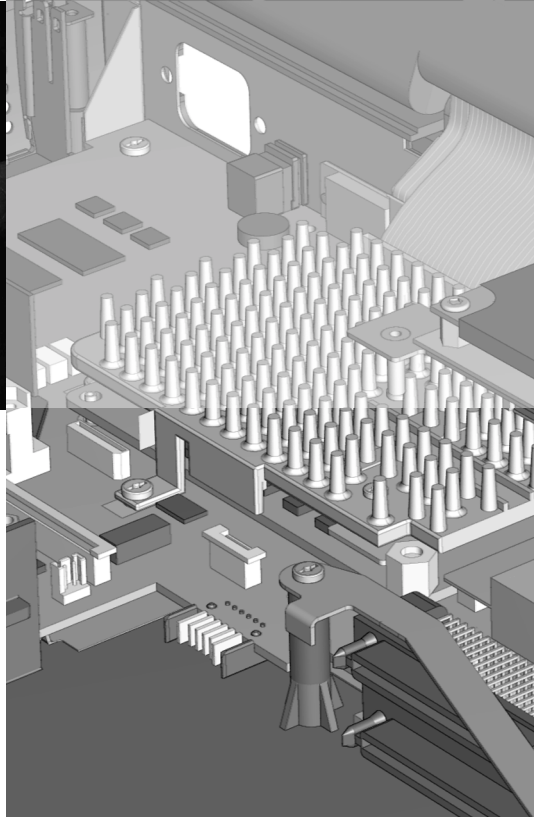
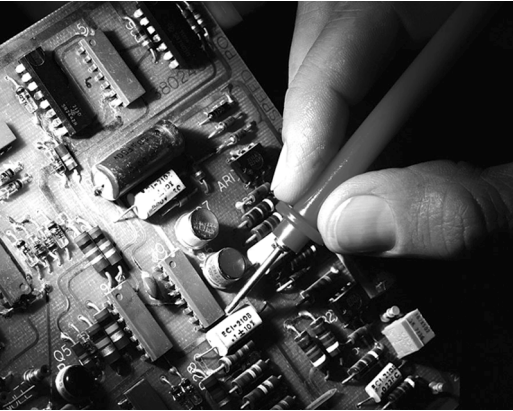


Compaq Armada 100S and Notebook 100 Series

Maintenance and Service Guide



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Features

The Compaq Armada 100S and Notebook 100 Personal Computers have the following features:

- Processors:
 - The Compaq Armada 100S features an AMD K6-2+ 533-MHz processor with 64 KB integrated L1 cache and 128 KB integrated L2 cache;
 - The Compaq Notebook 100 features an AMD K6-2 475-MHz processor with 64 KB integrated cache and 512 KB external L2 cache.
 - 64-MB 100-MHz SDRAM, expandable to 192 MB, or 32-MB 100-MHz SDRAM, expandable to 160 MB, varying by computer model. The Compaq Armada 100S and Notebook 100 also feature a SODIMM memory expansion slot, capable of accepting a memory expansion board of 32-, 64-, or 128-MB.
 - Primary memory cache is 64 KB; secondary memory cache is 512 KB.
 - 13.3-inch SVGA TFT or 12.1-inch SVGA TFT or HPA (800 × 600) color display, varying by computer model. These displays feature:
 - over 16.7 million colors.
 - integrated Trident CyberBlade AGP2 controller bus.
- The computer also features external monitor support with over 16.7 million color (640 × 480, 800 × 600, 1024 × 768, 1280 × 1024), with up to 60-, 75-, or 85-Hz refresh rate.
- Microsoft Windows 98, Word2000, Office 2000 Small Business Edition, or Office 2000 Personal Edition, preinstalled, varying by computer model.
 - Keyboard with TouchPad pointing device.
 - 56-Kbps AC97 modem (not supported in DOS mode).
 - External AC adapter with 6-foot power cord.
 - A 9-cell NiMH battery pack is standard equipment on the Compaq Armada 100S and Notebook 100 Personal Computer. An 8-cell Li ion battery pack is available as an option.

Power Menu *continued*

Item	Function
Monitor Video Activity	Sets up the system to monitor video activity. If enabled, any activity on the screen (such as displaying a movie) prevents the monitor from powering down. Available options are <i>Enabled</i> or <i>Disabled</i> .
Suspend Timeout	<p>Sets the timeout period for the system to enter Suspend Mode if not in use during a preset period.</p> <p>The Suspend Mode is determined by the <i>Suspend Type</i> item in the <i>Suspend Controls</i> submenu. Choices may be Suspend-to-RAM or Suspend-to-Disk.</p> <p>When Suspend-to-RAM (Standby) mode is initiated, several subsystems enter standby or power-off mode to conserve power. The system wakes up when a key is pressed. <i>Resume Timer</i> and <i>Ring Resume</i> items will also wake the system from Suspend-to-RAM mode.</p> <p>When Suspend-to-Disk (Hibernation) mode is initiated, the system preserves all running application programs as a file in a suspend-to-disk partition on the hard disk. Available options are <i>1 Min</i>, <i>5 Min</i>, <i>10 Min</i>, <i>20 Min</i>, <i>30 Min</i>, and <i>Never</i>.</p>
Suspend-to-Disk	<p>Sets the timeout period for the system to enter Suspend-to-Disk mode if not in use during a set period.</p> <p>When Suspend-to-Disk mode is initiated, the system preserves all running application programs as a file in a suspend-to-disk partition on the hard disk. Available options are <i>1 Min</i>, <i>5 Min</i>, <i>10 Min</i>, <i>20 Min</i>, <i>30 Min</i>, and <i>Never</i>.</p> <p>The Suspend-to-Disk item functions regardless of the <i>Suspend Timeout</i> setting and the <i>Suspend Type</i> setting in the <i>Suspend Controls</i> submenu. If the timing of this item is shorter than that of <i>Suspend Timeout</i>, the system directly enters Suspend-to-Disk mode if inactive for the timing.</p>

The external components on the rear of the computer are shown in Figure 1-4 and described in Table 1-6.

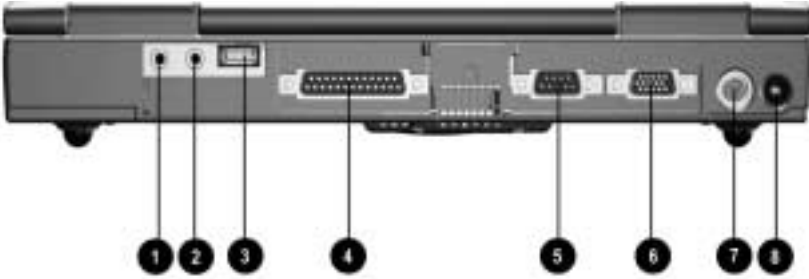


Figure 1-4. Rear Components

Table 1-6
Rear Components

Item	Component	Function
1	Mono microphone jack	Connects a mono microphone, disabling the built-in microphone.
2	Stereo speaker/headphone jack	Connects stereo speakers, headphones, or headset. This jack is driven by an amplifier and has volume control. The internal computer speakers are turned off when external speakers or headphones are plugged into this jack.
3	Universal Serial Bus (USB) connector	Connects USB devices, such as cameras for video conferencing, or hubs which connect multiple USB devices. The USB connector is a powered hub. When running Windows 98, any combination of up to five powered or unpowered hubs can be connected in any sequence, as long as two unpowered hubs are not connected next to each other. When running a lower version of Windows, or if using a different operating system, up to two hubs can be connected.
4	Parallel connector	Connects an optional parallel device, such as a printer.
5	Serial connector	Connects optional serial devices, such as a mouse.

continued

chapter 3

ILLUSTRATED PARTS CATALOG

This chapter provides an illustrated parts breakdown and a reference for spare part numbers and option part numbers for the Compaq Armada 100S and Notebook 100 Personal Computers.

3.1 Serial Number Location

When ordering parts or requesting information, provide the computer serial number and model number located on the bottom of the computer (Figure 3-1).

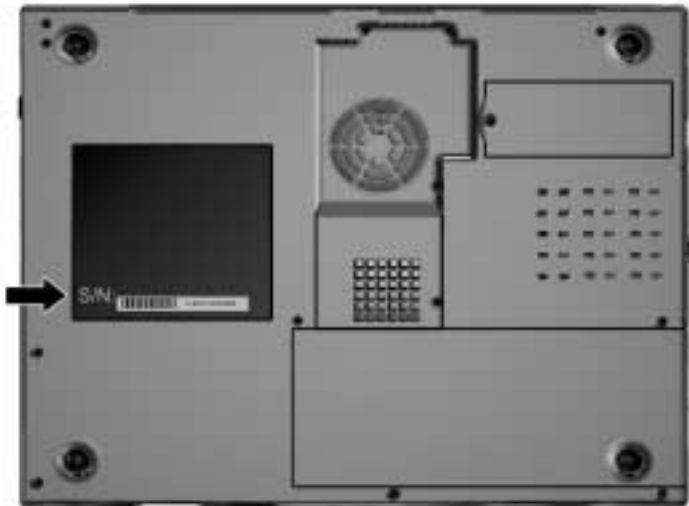


Figure 3-1. Serial Number Location

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chapter 4

REMOVAL AND REPLACEMENT PRELIMINARIES

NOTE: In most countries, there are no options for warranty repair other than “whole unit return.” Check with your Geo Service Manager to determine if warranty repair costs are covered before ordering spare parts or performing repairs.

This chapter provides essential information for proper and safe removal and replacement service.

4.1 Required Tools

You will need the following tools to complete the removal and replacement procedures:

- Magnetic Phillips screwdriver
- Tool kit (includes connector removal tool, loopback plugs, and case utility tool)

4.2 Service Considerations

Listed below are some of the considerations that you should keep in mind during disassembly and assembly procedures.

IMPORTANT: As you remove each subassembly from the computer, place it (and all accompanying screws) away from the work area to prevent damage.

Plastic Parts

Using excessive force during disassembly and reassembly can damage plastic parts. Use care when handling the plastic parts. Apply pressure only at the points designated in the maintenance instructions.

6. Remove the two screws ❶ securing the modem shield to the base assembly (Figure 5-4).
7. Remove the modem shield ❷.

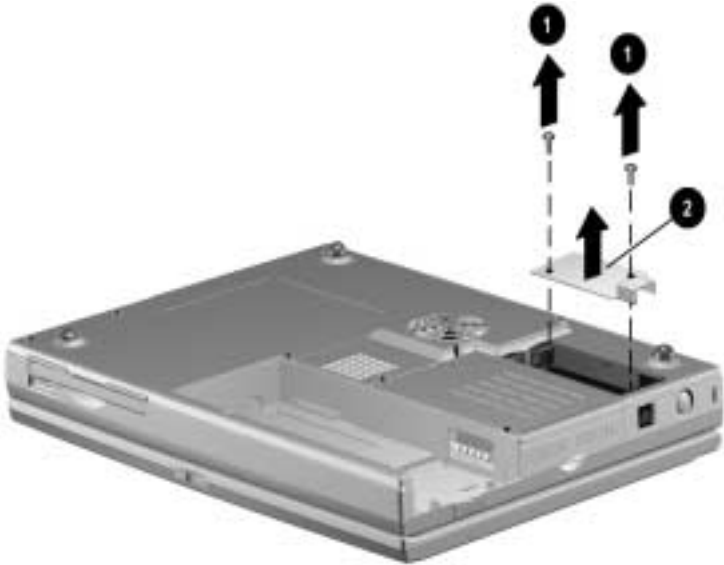


Figure 5-4. *Removing the Modem Shield*

Installing a Memory Expansion Board

All memory expansion boards are asymmetrically keyed (notched) to ensure correct positioning.

1. Insert the memory expansion board into an empty memory expansion slot at a 45-degree angle ❶ (Figure 5-14).
2. Push the memory expansion board down ❷ until the board is seated in the plastic retention clips.



Figure 5-14. *Installing a Memory Expansion Board*

5.16 Speakers

Speakers Spare Part Numbers

Speakers (2; spared in Hardware Kit)	176049-001
--------------------------------------	------------

1. Prepare the computer for disassembly (Section 5.3) and, in the order below, remove the following components:
 - Top cover (Section 5.10)
 - Keyboard (Section 5.13)
 - EMI shield (Section 5.14)
2. Disconnect the speaker cables from the system board ❶ (Figure 5-23).
3. Remove the speakers from the speaker housing ❷.

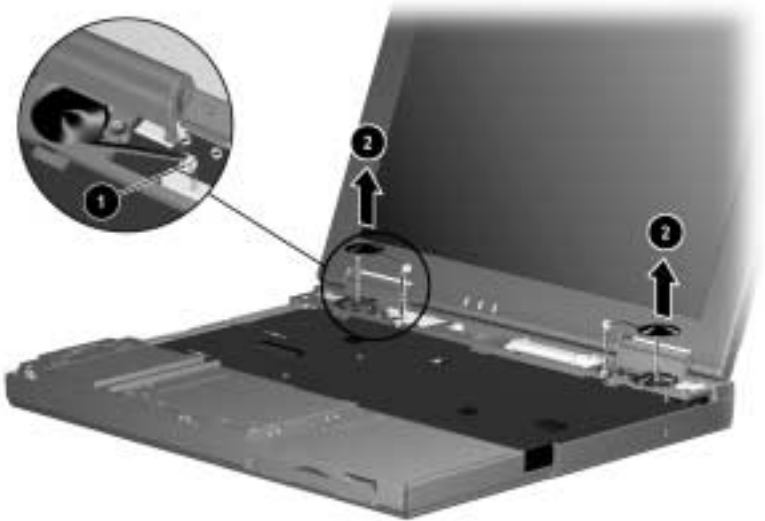


Figure 5-23. Removing the Speakers

Reverse the removal procedure to replace the speakers.

5. If installed, remove the RJ11 cover from the left side of the computer ❶ (Figure 5-32).
6. Disconnect the diskette drive LIF (low insertion force) cable from the system board ❷.
7. Remove the system board from the base assembly ❸.

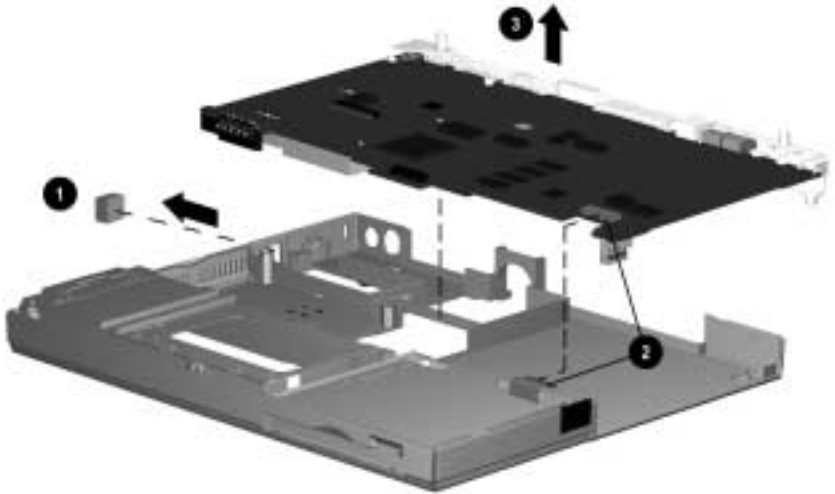


Figure 5-32. Removing the System Board

IMPORTANT: When installing the system board, make sure the diskette drive cable does not get trapped underneath the system board.

Table A-7 *continued*

Pin	Signal	Pin	Signal
57	INIT LD6	91	PS2 VCC
58	SLCTIN LD7	92	SERIRQ
59	GND	93	PS2 CLK
60	PDATA0 LD8	94	EXPREQ
61	PDATA1 LD9	95	AD[29]
62	PDATA2 LD10	96	AD[31]
63	PDATA3 LD11	97	AD[30]
64	GND	98	AD[28]
65	PDATA4 LD12	99	AD[26]
66	PDATA5 LD13	100	GND
67	PDATA6 LD14	101	AD[24]
68	PDATA7 LD15	102	AD[22]
69	GND	103	AD[20]
70	ERROR LCLK	104	AD[18]
71	RXD1 LVREQ	105	AD[16]
72	TXD1 LCREQ	106	GND
73	RTS1 LEN	107	AD[15]
74	GND	108	AD[13]
75	CTS1 LIIC CLK	109	AD[11]
76	DTR1 LIIC DAT	110	AD[09]
77	DSR1 EX	111	GND
78	DCD1 EX	112	AD[06]
79	12C DATA	113	AD[04]
80	GND	114	AD[02]
81	12C CLK	115	AD[00]
82	GND	116	GND
83	HDSEL	117	FRAME
84	GND	118	TRDY
85	WPROT	119	STOP
86	EBOXS2 /GND	120	PAR
87	ERDY	121	CBE0
88	EBOXL /GND	122	CBE1
89	FLUSHREQ	123	GND
90	MEMACK	124	KB CLK

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