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## **Maintenance and Service Guide**

HP Pavilion dv8000 Notebook PC

Document Part Number: 403248-001

November 2005

This guide is a troubleshooting reference used for maintaining and servicing the computer. It provides comprehensive information on identifying computer features, components, and spare parts; troubleshooting computer problems; and performing computer disassembly procedures.



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**Manual abstract:**

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... @@@@These steps also clear CMOS: 1. Enter an incorrect password and press enter. 2. Repeat Step 1 two times. After the third entry of the incorrect password, the computer responds with a "System Disabled" message and provides an override password. 3. Access MS/DOS by clicking Start > All Programs > Accessories > Command Prompt.

4. Enter "unlock6 xxxxx 0," where "xxxxx" is the password generated by the computer in Step 2. The computer responds with another system-generated password. This password can be used to reset the computer and clear all CMOS settings. 14 Maintenance and Service Guide Product Description 1.3 Power Management

The computer comes with power management features that extend battery operating time and conserve power. The computer supports the following power management features: Standby Hibernation Setting customization by the user Hotkeys for setting the level of performance Battery calibration Lid switch standby/resume Power button Advanced Configuration and Power Management (ACPM) compliance Maintenance and Service Guide 15 Product Description 1.4 External Components The external components on the front of the computer are shown below and described in Table 1-1. Front Components 16 Maintenance and Service Guide Product Description Table 1-1 Front Components Item 1 Component Power light Function On: Computer is turned on.

Off: Computer is off or in hibernation.

Blinking: Computer is in standby. On: A battery pack is charging or is close to full charge capacity. Off: If the computer is plugged into an external power source, the light is turned off when all batteries in the computer are fully charged. If the computer is not plugged into an external power source, the light stays off until the battery reaches a low-battery condition. Blinking: A battery pack that is the only available power source has reached a low-battery condition.

When the battery reaches a critical low-battery condition, the battery light begins blinking quickly. On or blinking: The internal hard drive or an optical drive is being accessed. Produce stereo sound. Opens the computer. 2 Battery light 3 Integrated Drive Electronics (IDE) drive light Speakers Display release latch 4 5 Maintenance and Service Guide 17 Product Description

The external components on the right side of the computer are shown below and described in Table 1-2.

Right-Side Components 18 Maintenance and Service Guide Product Description Table 1-2 Right-Side Components Item 1 2 Component ExpressCard slot Audio-out (headphone) jack Function Supports an optional ExpressCard. Connects an optional headphone or powered stereo speakers. Also connects the audio function of an audio/video device, such as a television or VCR. Connects an optional stereo microphone. Connect optional USB devices. Supports an optical disc, such as a CD or DVD. 3 4 5 Audio-in (microphone) jack USB ports (2) Optical drive Maintenance and Service Guide 19 Product Description

The external components on the left side of the computer are shown below and described in Table 1-3. Left-Side Components Table 1-3 Left-Side Components Item 1 2 3 Component Power connector Monitor port S-Video-out jack Function Connects the AC adapter cable. Connects an optional VGA monitor or projector. Connects the video function of an optional S-Video device, such as a television, VCR, or video capture card.



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Connects a network cable (not included). 4 RJ-45 (network) jack 110 Maintenance and Service Guide Product Description Table 1-3 Left-Side Components (Continued) Item 5 Component Expansion port 2 Function Connects the computer to an optional docking device. The computer has only one expansion port. The term expansion port 2 describes the type of expansion port. 6 7 USB ports (2) 1394 port (4-pin) Connect optional USB devices. Connects an optional 1394a device such as a scanner, a digital camera, or a digital camcorder. On: An optional digital card is being accessed. Supports the following optional digital cards: SD (Secure Digital) Memory Card, SD I/O Card, Memory Stick, Memory Stick Pro, MultiMediaCard, xD-Picture Card, and SmartMedia.

Supports an optional Type I or Type II 32-bit (CardBus) or 16-bit PC Card. Ejects PC Cards from the PC Card slot.

8 9 Digital Media Slot light Digital Media Slot 10 11 PC Card slot PC Card eject button Maintenance and Service Guide 111 Product Description The external components on the rear panel of the computer are shown below and described in Ta software: When the computer is On: Opens the default DVD application to start a DVD in the optical drive. Off: Opens QuickPlay to start a DVD in the optical drive. In standby: Resumes from standby into Windows. In hibernation: Restores from hibernation into Windows. Maintenance and Service Guide 119 Product Description Table 1-7 QuickPlay and Quick Launch Button Components (Continued) Item 2 Component Media Button Function Default button functions without QuickPlay software: When the computer is On:

Opens the music application or the Media menu, allowing you to select a multimedia application.

Off: No fan ventilation grill located on the left side of the computer. 124 Maintenance and Service Guide 2 Troubleshooting Å WARNING: Only authorized technicians trained by HP should repair this equipment. All troubleshooting and repair procedures are detailed to allow only subassembly-/module-level repair. Because of the complexity of the individual boards and subassemblies, do not attempt to make repairs at the component level or modifications to any printed wiring board. Improper repairs can create a safety hazard.

Any indication of component replacement or printed wiring board modification may void any warranty or exchange allowances. 2.1 Computer Setup Computer Setup is a preinstalled, ROM-based utility that can be used even when the operating system is not working or will not load. If the operating system is working, the computer restarts the operating system after you exit Computer Setup. In Pointing devices are not supported and Computer Setup; you must use the keyboard to navigate make selections. The menu tables later in this chapter provide an overview of Computer Setup options. Maintenance and Service Guide 21 Troubleshooting Accessing Computer Setup The information and settings in Computer Setup are accessed from the File, Security, Tools, and Advanced menus. 1. Open Computer Setup by turning on or restarting the computer. Press f10 while the F10 = Based Setup message is displayed in the lower-left corner of the screen.

To change the language, press f2. To view navigation information, press f1. To return to the Computer Setup menu, press esc. 2. Select the File, Security, Tools, or Advanced menu. 3. To exit Computer Setup, choose one of the following: To exit without saving any changes, use the arrow keys to select File > Ignore changes and exit, and then follow the instructions on the screen. To exit and save all the settings you have entered, use the arrow keys to select File > Save changes and exit, and then follow the instructions on the screen. Your preferences are set when you exit Computer Setup and go into effect when the computer restarts. Computer Setup Defaults To return all settings in Computer Setup to the values that were set at the factory: 1.

Open Computer Setup by turning on or restarting the computer. Press f10 while the F10 = Based Setup message is displayed in the lower-left corner of the screen. To change the language, press f2. To view navigation information, press f1. 2.

Use the arrow keys to select File > Restore defaults. 3. Select the Restore Defaults check box. 22 Maintenance and Service Guide Troubleshooting 4. To confirm the restoration, press f10.

5. Select File > Save changes and exit, and then follow the instructions on the screen. When the computer restarts, the factory settings are restored, and any identification information you have entered is saved. Selecting from the File Menu Table 2-1 File Menu Select System Information To Do This View identification information about the computer and any battery packs in the system. View specification information about the processor, memory and cache size, video revision, keyboard controller version, and system ROM. Save system configuration settings to a diskette. Restore system configuration settings from a diskette. Replace configuration settings in Computer Setup with factory default settings. (Identification information is retained.) Cancel changes entered during the current session.

Then exit and restart the computer. Save changes entered during the current session. Then exit and restart the computer. The changes you save are to into effect when the computer restarts. Save to floppy Restore to floppy Restore defaults Ignore changes and exit Save changes and exit Maintenance and Service Guide 23 Troubleshooting Selecting from the Security Menu Table 2-2 Security Menu Select Administrator password Power-on password Password options DriveLock passwords To Do This Enter, change, or delete an HP Administrator password. Enter, change, or delete a power-on password. Enable/Disable stringent security. Enable/Disable required password on restart. Enable/disable DriveLock; change a DriveLock user or master password. Settings are accessible DriveLock enter Computer Setup by only when you turning on (not restarting) the computer.

Smart Card Security Enable/disable power-on support for smart cards. supported by select smart This feature is only. card readers Embedded Security Enable/Disable the embedded security chip. Restore embedded security chip to factory settings. Enable/Disable power-on authentication support. Enable/Disable automatic DriveLock. Reset power-on authentication credential Security Embedded computer settings are accessible only if the is equipped with an embedded security chip. Device security System IDs Enable/Disable devices in the system. Enable NIC for inclusion in MultiBoot. Enter user-defined identification values.

24 Maintenance and Service Guide Troubleshooting Selecting from the Tools Menu Table 2-3 Tools Menu Select HDD Self Test options Battery Information Memory Check To Do This Run a quick or comprehensive self-test on any hard drive in the system.



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View information about any battery packs in the computer. Run a self-test on memory modules in the computer. View information about memory modules installed in the computer. Maintenance and Service Guide 25 Troubleshooting Selecting from the Advanced Menu Table 2-4 Advanced Menu Select Language (or press f2) Boot options To Do This Change the Computer Setup language. Enable/Disable MultiBoot, which sets a startup sequence that can include most bootable devices and media in the system. Set the boot order. Swap the functions of the fn key and left ctrl key. Enable/Disable multiple pointing devices at startup. (To set the computer to support only a single, usually nonstandard, pointing device at startup, select Disable.

) Enable/Disable USB legacy support for a USB keyboard, mouse, and hub. When USB legacy support is enabled A USB keyboard, mouse, and hub work even when a Windows operating system is not loaded. The computer starts from a bootable hard drive, diskette drive diskette, or CD, CD-RW, or DVD inserted into a drive connected by a USB connector to the computer or to an optional docking device. Select a parallel port mode: EPP (Enhanced Parallel Port), standard, bidirectional, or ECP (Enhanced Capabilities Port). Enable/Disable all settings in the SpeedStep window. (When Disable is selected, the computer runs in Battery Optimized mode.) Device options 26 Maintenance and Service Guide Troubleshooting 2.2 Troubleshooting Flowcharts Table 2-5

Troubleshooting Flowcharts Overview Flowchart 2.1 2.2 2.

3 2.4 2.5 2.6 2.7 2.

8 2.9 2.10 2.11 2.12 2.

13 Description "Flowchart 2.1--Initial Troubleshooting" "Flowchart 2.2--No Power, Part 1" "Flowchart 2.3--No Power, Part 2" "Flowchart 2.4--No Power, Part 3" "Flowchart 2.5--No Power, Part 4" "Flowchart 2.6--No Video, Part 1" "Flowchart 2.7--No Video, Part 2" "Flowchart 2.8--Nonfunctioning Docking Device (if applicable)" "Flowchart 2.9--No Operating System (OS) Loading" "Flowchart 2.

10--No OS Loading, Hard Drive, Part 1" "Flowchart 2.11--No OS Loading, Hard Drive, Part 2" "Flowchart 2.12--No OS Loading, Hard Drive, Part 3" "Flowchart 2.13--No OS Loading, Diskette Drive" Maintenance and Service Guide 27 Troubleshooting Table 2-5 Troubleshooting Flowcharts Overview (Continued) Flowchart 2.14 2.15 2.16 2.17 2.18 2.19 2.

20 Description "Flowchart 2.14--No OS Loading, Optical Drive" "Flowchart 2.15--No Audio, Part 1" "Flowchart 2.16--No Audio, Part 2" "Flowchart 2.17--Nonfunctioning Device" "Flowchart 2.

18--Nonfunctioning Keyboard" "Flowchart 2.19--Nonfunctioning Pointing Device" "Flowchart 2.20--No Network/Modem Connection" 28 Maintenance and Service Guide Troubleshooting Flowchart 2.1--Initial Troubleshooting Begin troubleshooting. N Go to Is there power? "Flowchart 2.

2--No Power, Part 1." Y N Beeps, LEDs, or error messages? Check LED board, speaker connections. All drives working? N Go to "Flowchart 2.17--Nonfunctioning Device." Y N Go to Is there video? (no boot) "Flowchart 2.6--No Video, Part 1." Y N Keyboard/pointing device working? Go to "Flowchart 2.18--Nonfunctioning Keyboard" or "Flowchart 2.19--Nonfunctioning Pointing Device." Y N Go to Is the OS loading? "Flowchart 2.

9--No Operating System (OS) Loading." Y N Connecting to network or modem? Y N Go to "Flowchart 2.20--No Network/Modem Connection." Go to Is there sound? "Flowchart 2.15--No Audio, Part 1." Y Y End Maintenance and Service Guide 29 Troubleshooting Flowchart 2.2--No Power, Part 1 No power (power LED is off). Remove from docking device (if applicable). N Power up on battery power? Reset power.\* Power up on battery power? N Go to "Flowchart 2.3--No Power, Part 2." Y N Power up on AC power? Reset power.\* Y N Power up on AC power? Go to "Flowchart 2.4--No Power, Part 3." Y Y Power up in docking device? Done Y N 1.

Reseat the power cables in the docking device and at the AC outlet. 2. Ensure the AC power source is active. 3. Ensure that the power strip is working. \*NOTES 1. On select models, there is a separate reset button. 2. On select models, the computer can be reset using the standby switch and either the lid switch or the main power switch. Y Done Power up in docking device? N Go to "Flowchart 2.8--Nonfunctioning Docking Device (if applicable)." 210 Maintenance and Service Guide Troubleshooting Flowchart 2.3--No Power, Part 2 Continued from "Flowchart 2.2--No Power, Part 1." Visually check for debris in battery socket and clean if necessary.

Y Power on? Done N Check battery by recharging it, moving it to another computer, or replacing it. N Power on? Replace power supply (if applicable). Y N Go to Done Power on? "Flowchart 2.4--No Power, Part 3." Y Done Maintenance and Service Guide 211 Troubleshooting Flowchart 2.4--No Power, Part 3 Continued from "Flowchart 2.3--No Power, Part 2." Plug directly into AC outlet. Y Power LED on? Done N Reseat AC adapter in computer and at power source. Y Power on? Done External N N Power outlet active? Try different outlet.

Internal or external AC adapter? Internal Go to Replace external AC adapter. Y Replace power cord. N Power on? "Flowchart 2.5--No Power, Part 4." Y Y Done Power on? Done N 212 Maintenance and Service Guide Troubleshooting Flowchart 2.

5--No Power, Part 4 Continued from "Flowchart 2.4--No Power, Part 3." Open computer. Y Loose or damaged parts? N Close computer and retest. Reseat loose components and boards and replace damaged items.

N Power on? Replace the following items (if applicable). Check computer operation after each replacement: 1. Internal DC-DC converter\* 2. Internal AC adapter 3. Processor board\* 4. System board\* \*NOTE: Replace these items as a set to prevent shorting out among components. Y Done Maintenance and Service Guide 213 Troubleshooting Flowchart 2.6--No Video, Part 1 No video. Docking Device Stand-alone or docking device? Stand-alone Internal or external display?\* External Adjust brightness. Internal Adjust brightness.

Go to "Flowchart 2.7--No Video, Part 2." \*NOTE: To change from internal to external display, use the hotkey. Y Video OK? Done N A Press lid switch to ensure operation. Y Video OK? Done Video OK? Y Done N Check for bent pins on cable. N Replace the following one at a time. Test after each replacement. 1. Cable between computer and computer display (if applicable) 2. Display 3.

System board N Video OK? Try another display. Internal and external video OK? N Replace system board.



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*Y Done Y Done 214 Maintenance and Service Guide Troubleshooting Flowchart 2.7--No Video, Part 2 Continued from "Flowchart 2.6--No Video, Part 1. " Remove computer from docking device, if connected. Adjust display brightness. Check brightness of external monitor. N Go to "A" in Video OK? "Flowchart 2.6--No Video, Part 1.*

*" Y Video OK? Done Y Check that computer is properly seated in docking device, for bent pins on cable, and for monitor connection. N Try another external monitor. Y Video OK? Done Internal and external video OK? Y Done N N Go to Adjust external monitor display. "Flowchart 2.8--Nonfunctioning Docking Device (if applicable)." Maintenance and Service Guide 215 Troubleshooting Flowchart 2.8--Nonfunctioning Docking Device (if applicable) Nonfunctioning docking device. Reseat power cord in docking device and power outlet. Check voltage setting on docking device. Reinstall computer into docking device.*

*Reset monitor cable connector at docking device. Y Docking device operating? Done Y Docking device operating? Done N Test replacement docking device with new computer. N Remove computer, replace docking device. 216 Maintenance and Service Guide Troubleshooting Flowchart 2.9--No Operating System (OS) Loading No OS loading.\* Reseat power cord in docking device and power outlet. No OS loading from hard drive, go to "Flowchart 2.10--No OS Loading, Hard Drive, Part 1." No OS loading from diskette drive, go to "Flowchart 2.13--No OS Loading, Diskette Drive.*

*" No OS loading from optical drive, go to "Flowchart 2.14--No OS Loading, Optical Drive." No OS loading from network, go to "Flowchart 2.20--No Network/Modem Connection." \*NOTE: Before beginning troubleshooting, always check cable connections, cable ends, and drives for bent or damaged pins. Maintenance and Service Guide 217 Troubleshooting Flowchart 2.10--No OS Loading, Hard Drive, Part 1 OS not loading from hard drive. Y Nonsystem disk message? Go to "Flowchart 2.11--No OS Loading, Hard Drive, Part 2." N Reseat external hard drive.*

*Y OS loading? Done N N Boot from CD? Y Check the setup utility for correct booting order. N Boot from diskette? Go to "Flowchart 2.13--No OS Loading, Diskette Drive." Y N Change boot priority through the setup utility and reboot. Boot from hard drive? Y Done N Boot from hard drive? Go to "Flowchart 2.17--Nonfunctioning Device." Y 218 Maintenance and Service Guide Troubleshooting Flowchart 2.11--No OS Loading, Hard Drive, Part 2 Continued from "Flowchart 2.10--No OS Loading, Hard Drive, Part 1." Reseat hard drive.*

*1. Replace hard drive. 2. Replace system board. N Disc or diskette in drive? Y Hard drive accessible? Done Y Remove disc or diskette and reboot. N Run FDISK. Y Boot from hard drive? Done Hard drive partitioned? N N N Boot from diskette drive? Go to "Flowchart 2.13--No OS Loading, Diskette Drive." Y N Hard drive formatted? Create partition, and then format hard drive to bootable C:\ prompt. Format hard drive and bring to a bootable C:\ prompt.*

*Y N Hard drive accessible? Y Y Computer booted? Done Y Go to "Flowchart 2.12--No OS Loading, Hard Drive, Part 3." Load OS using Operating System disc (if applicable). N Go to "Flowchart 2.12--No OS Loading, Hard Drive, Part 3.*

*" Maintenance and Service Guide 219 Troubleshooting Flowchart 2.12--No OS Loading, Hard Drive, Part 3 Continued from "Flowchart 2.11--No OS Loading, Hard Drive, Part 2." N System files on hard drive? Install OS and reboot. Y Y Virus on hard drive? Clean virus. OS loading from hard drive? Y Done N Run SCANDISK and check for bad sectors. N Y Diagnostics on disc or diskette? Replace hard drive. N N Can bad sectors be fixed? Replace hard drive. Run diagnostics and follow recommendations. Y N Fix bad sectors. Boot from hard drive? Replace hard drive. Y Done 2-20 Maintenance and Service Guide Troubleshooting Flowchart 2.13--No OS Loading, Diskette Drive Y OS not loading from diskette drive. Reseat diskette drive. OS loading? Done N Y Nonsystem disk message? Bootable diskette in drive? N Install bootable diskette and reboot computer.*

*N N Boot from another device? Go to "Flowchart 2.17--Nonfunctioning Device." Y Check diskette for system files. Try different diskette. Y N Diskette drive enabled in the Setup utility? Enable drive and cold boot computer. Nonsystem disk error? Y N Y Replace the following components individually, retesting after each replacement: Diskette drive System board Y Y Is diskette drive boot order correct? Reset the computer. Refer to Section 1.2, "Resetting the Computer," for OS loading? Done N N instructions. Change boot priority using the setup utility. Go to "Flowchart 2.*

*17--Nonfunctioning Device." Maintenance and Service Guide 221 Troubleshooting Flowchart 2.14--No OS Loading, Optical Drive No OS loading from CD-ROM or DVD-ROM drive. Y Disc in drive? Bootable disc in drive? N N Install bootable disc. Y Try another bootable disc.*

*Install bootable disc and reboot computer. Y Boots from CD or DVD? Done N Y Reseat drive. Boots from CD or DVD? Done N N Booting from another device? Go to "Flowchart 2.17--Nonfunctioning Device." Y Y Booting order correct? Reset the computer.*

*Refer to Section 1.2, "Resetting the Computer," for Go to "Flowchart 2.17--Nonfunctioning Device." N Correct boot order using the setup utility. instructions. 222 Maintenance and Service Guide Troubleshooting Flowchart 2.15--No Audio, Part 1 Y No audio. Turn up audio internally or externally. Audio? Done N Y Computer in docking device (if applicable)? Undock Internal audio? N Go to "Flowchart 2.16--No Audio, Part 2.*

*" N Go to "Flowchart 2.16--No Audio, Part 2." Y Replace the following docking device components one at a time, as applicable. Check audio status after each change. 1. Reseat docking device audio cable. 2. Replace audio cable. 3. Replace speaker.*

*4. Replace docking device audio board. 5. Replace backplane board. 6.*

*Replace I/O board. Y Go to "Flowchart 2.17--Nonfunctioning Device." Audio? Done N Maintenance and Service Guide 223 Troubleshooting Flowchart 2.16--No Audio, Part 2 Continued from "Flowchart 2.*

*15--No Audio, Part 1." N Audio driver in OS configured? Reload audio drivers. Y N Correct drivers for application? Load drivers and set configuration in OS. Y Connect to external speaker. N Audio? Y Replace audio board and speaker connections in computer (if applicable).*



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Y Audio? Done N Replace the following components individually, retesting after each replacement: Internal speakers. Audio board (if applicable). 224 Maintenance and Service Guide Troubleshooting Flowchart 2.17--Nonfunctioning Device Nonfunctioning device. Reseat device.

Unplug the nonfunctioning device from the computer and inspect cables and plugs for bent or broken pins or other damage. Y Clear CMOS. Any physical device detected? Fix or replace broken item. Go to Reattach device. Close computer, plug in power, and reboot. Replace hard drive. "Flowchart 2.9--No Operating System (OS) Loading." N N Device boots properly? Replace NIC. If integrated NIC, replace system board.

Device boots properly? N Y Replace diskette drive. Y Done Done Maintenance and Service Guide 225 Troubleshooting Flowchart 2.18--Nonfunctioning Keyboard Keyboard not operating properly. Connect computer to good external keyboard. N External device works? Replace system board.

Y Reseat internal keyboard connector (if applicable). N Keyboard operating properly? Replace internal keyboard or cable. Y Y Done Keyboard operating properly? Done N Replace system board. 226 Maintenance and Service Guide Troubleshooting Flowchart 2.19--Nonfunctioning Pointing Device Pointing device not operating properly.

Connect computer to good external pointing device. N External device works? Replace system board. Y Reseat internal pointing device connector (if applicable). N Pointing device operating properly? Replace internal pointing device or cable. Y Y Done Pointing device operating properly? Done N Replace system board. Maintenance and Service Guide 227 Troubleshooting Flowchart 2.20--No Network/Modem Connection No network or modem connection. N Network or modem jack active? Replace jack or have jack activated. Y Y Digital line? Connect to nondigital line. N N NIC/modem configured in OS? Reload drivers and reconfigure.

Y Network or modem connection working? Done Y Disconnect all power from the computer and open. N Replace NIC/modem (if applicable). Y Reseat NIC/modem (if applicable). Network or modem connection working? Done N Replace system board. 228 Maintenance and Service Guide 3 Illustrated Parts Catalog This chapter provides an illustrated parts breakdown and a reference for spare part numbers. 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. Serial Number Location Maintenance and Service Guide 31 Illustrated Parts Catalog 3.2 Computer Major Components Computer Major Components 32 Maintenance and Service Guide Illustrated Parts Catalog Table 3-1 Spare Parts: Computer Major Components Item 1 Description Spare Part Number Display assemblies (include display cable, wireless antenna boards, and antenna cables) 17-inch, WSXGA+ with BrightView 17-inch, WXGA+ with BrightView 403797-001 403796-001 Refer Section displaytoassembly3.3, "Display Assembly Subcomponents," for internal component spare part number information.

2 3 4 5 Switch cover (includes LED board and LED board cable) Keyboard assembly frame LED board (includes LED board cable) Keyboards France French Canada Germany Italy Norway 403809-051 403809-121 403809-041 403809-061 403809-091 Spain Sweden and Finland United Kingdom United States 403809-071 403809-101 403809-031 403809-001 403817-001 403818-001 403833-001 Maintenance and Service Guide 33 Illustrated Parts Catalog Computer Major Components 34 Maintenance and Service Guide Illustrated Parts Catalog Table 3-1 Spare Parts: Computer Major Components (Continued)

Item 6 7 Description Top cover (includes TouchPad) Bracket Kit, includes: Display hinge support bracket Not illustrated; Optical drive bracket (also included with optical drive spare part kits) Hard drive bracket (also included with hard drive spare part kits) Expansion port 2 bracket TouchPad bracket (also included with top cover spare part kits) Speakers System board Optical drives DVD±RW and CD-RW Double Layer Combo Drive with LightScribe DVD±RW and CD-RW Double Layer Combo Drive DVD/CD-RW Combo Drive 11 12 13 14 Heat sink (includes thermal paste) USB board (includes USB board and USB board cable) Optical drive connector board Fan assembly 403807-001 403806-001 403805-001 403827-001 403830-001 403829-001 403826-001 Spare Part Number 403822-001 403816-001 8 9 10 403825-001 403790-001 Maintenance and Service Guide 35 Illustrated Parts Catalog Computer Major Components 36 Maintenance and Service Guide Illustrated Parts Catalog Table 3-1 Spare Parts: Computer Major Components (Continued)

Item 15 Description Processors (include thermal paste) AMD Turion 64 ML-40 (2.2-GHz) AMD Turion 64 ML-37 (2.0-GHz) AMD Turion 64 ML-32 (1.8-GHz) AMD Turion 64 ML-30 (1.6-GHz) 16 ExpressCard assembly Plastics Kit 17a 17b 17c 17d 17e 393579-001 393578-001 395744-001 395743-001 403828-001 403812-001 Spare Part Number Includes: ExpressCard slot bezel PC Card slot bezel Memory shield Hard drive cover (includes 3 captive screws) Memory/Mini PCI module compartment cover (includes 2 captive screws) Computer feet (not illustrated) RTC battery Bluetooth® module (includes Bluetooth module cable) PC Card assembly Base enclosure Hard drives (include frame and connector) 7200 rpm, 100-GB 5400 rpm, 80-GB 405938-001 403803-001 4200-rpm, 120-GB 4200-rpm, 100-GB 4200-rpm, 60-GB 405939-001 403804-001 405937-001 403819-001 397922-001 403835-001 403824-001 18 19 20 21 22 Maintenance and Service Guide 37 Illustrated Parts Catalog Computer Major Components 38 Maintenance and Service Guide Illustrated Parts Catalog Table 3-1 Spare Parts: Computer Major Components (Continued) Item 23 24 Description 8-cell, 4.

4-hour battery pack Mini PCI communications modules 802.11a/b/g wireless local access network (WLAN) module for use in North America 802.11a/b/g WLAN module for use in the rest of the world 802.11b/g WLAN module for use in North America 802.11b/g WLAN module for use in the rest of the world 25 Memory modules 1024 MB 512 MB 256 MB 403800-001 403799-001 403573-001 403791-001 403792-001 392557-001 392557-002 Spare Part Number 403808-001 Maintenance and Service Guide 39 Illustrated Parts Catalog 3.

3 Display Assembly Subcomponents 310 Maintenance and Service Guide Illustrated Parts Catalog Table 3-2 Display Assembly Subcomponent Spare Part Number Information Item 1a 1b Description Display Plastics Kit, includes: Display bezel Display enclosure Display release latch actuator and hooks (not illustrated) Display Hinge Kit Display inverter board Display Panel Kit (includes display panel cable) Wireless Antenna Kit (includes cable and transceivers) Display Label Kit (not illustrated) Display Screw Kit (not illustrated), includes: Phillips PM2.



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5x7.0 screws Phillips PM2.5x5.0 screws Rubber screw covers 403881-001 2 3 4 5 403884-001 403831-001 403885-001 403882-001 403887-001 403886-001 Maintenance and Service Guide 311 Illustrated Parts Catalog 3.4 Plastics Kit Table 3-3 Plastics Kit Spare Part Number Information Item Description Plastics Kit, includes: 1 2 3 4 5 Spare Part Number 403812-001 Memory/Mini PCI module compartment cover (includes 2 captive screws, secured by C-clips) Hard drive cover (includes 3 captive screws, secured by C-clips) Computer feet (6) ExpressCard slot bezel PC Card slot bezel 312 Maintenance and Service Guide Illustrated Parts Catalog 3.5 Cable Kit Table 3-4 Cable Kit Spare Part Number Information Item Description Cable Kit, includes: 1 2 3 4 5 TouchPad cable Modem connector cable Bluetooth module cable USB board cable Power connector cable Spare Part Number 403814-001 Maintenance and Service Guide 313 Illustrated Parts Catalog 3.6 Mass Storage Devices 314 Maintenance and Service Guide Illustrated Parts Catalog Table 3-5 Mass Storage Devices Spare Part Number Information Item 1 Description Hard drives (include frame and connector) 7200 rpm, 100-GB 5400 rpm, 80-GB 2 Optical drives DVD±RW and CD-RW Double Layer Combo Drive with LightScribe DVD±RW and CD-RW Double Layer Combo Drive DVD/CD-RW Combo Drive USB digital drive (not illustrated) 403807-001 403806-001 403805-001 364727-001 405938-001 403803-001 4200-rpm, 120-GB 4200-rpm, 100-GB 4200-rpm, 60-GB 405939-001 403804-001 405937-001 Spare Part Number Maintenance and Service Guide 315 Illustrated Parts Catalog 3.7 Miscellaneous (Not Illustrated) Table 3-6 Miscellaneous (Not Illustrated) Spare Part Information Description All-in-one media cable Y-cable 2 Power supply, 65 watt Power cords For use in: Canada, French Canada, and the United States France, Germany, and Spain The United Kingdom Italy HP remote control Screw Kit (includes the following screws; refer to Appendix C, "Screw Listing," for more information on specifications and usage) Phillips PM3.0x4.

0 screw Phillips PM2.5x13.0 screw Phillips PM2.5x9.0 screw Phillips PM2.5x7.0 screw Black Phillips PM2.5x6.0 screw 403811-001 403811-021 403811-031 403811-061 371694-001 403813-001 Spare Part Number 375759-001 379452-001 403810-001 Silver Phillips PM2.5x6.

0 screw Phillips PM2.5x4.0 screw Phillips PM2.0x4.0 screw Slotted M1.

5x9.0 screw 309674-001 364727-001 371693-001 USB travel mouse USB digital drive Wired headset with volume control 316 Maintenance and Service Guide Illustrated Parts Catalog 3.8 Sequential Part Number Listing Table 3-7 Sequential Part Number Listing Spare Part Number 309674-001 364727-001 371693-001 371694-001 375759-001 379452-001 392557-001 392557-002 393578-001 393579-001 395743-001 395744-001 397922-001 403573-001 403790-001 403791-001 Description USB travel mouse USB digital drive Wired headset with volume control HP remote control All-in-one media cable Audio Y-cable 2 802.11b/g WLAN Mini PCI communications module for use in North America 802.11b/g WLAN Mini PCI communications module for use in the rest of the world AMD Turion 64 ML-37 (2.

0-GHz) processor (includes thermal paste) AMD Turion 64 ML-40 (2.2-GHz) processor (includes thermal paste) AMD Turion 64 ML-30 (1.6-GHz) processor (includes thermal paste) AMD Turion 64 ML-32 (1.8-GHz) processor (includes thermal paste) Bluetooth wireless module (includes Bluetooth module cable) 256-MB memory module System board 802.11a/b/g WLAN Mini PCI communications module for use in North America Maintenance and Service Guide 317 Illustrated Parts Catalog Table 3-7 Sequential Part Number Listing (Continued) Spare Part Number 403792-001 403796-001 403797-001 403799-001 403800-001 403803-001 403804-001 403805-001 403806-001 403807-001 403808-001 403809-001 403809-031 403809-041 403809-051 403809-061 403809-071 403809-091 403809-101 403809-121 Description 802.11a/b/g WLAN Mini PCI communications module for use in the rest of the world 17-inch, WXGA+ with BrightView display assembly (includes display cable, wireless antenna boards, and antenna cables) 17-inch, WSXGA+ with BrightView display assembly (includes display cable, wireless antenna boards, and antenna cables) 512-MB memory module 1024-MB memory module 5400 rpm, 80-GB hard drive (includes frame and connector) 4200-rpm, 100-GB hard drive (includes frame and connector) DVD/CD-RW Combo Drive DVD±RW and CD-RW Double Layer Combo Drive DVD±RW and CD-RW Double Layer Combo Drive with LightScribe 8-cell, 4.4-hour battery pack Keyboard for use in the United States Keyboard for use in the United Kingdom Keyboard for use in France Keyboard for use in Germany Keyboard for use in Italy Keyboard for use in Spain Keyboard for use in Norway Keyboard for use in Sweden and Finland Keyboard for use in French Canada 318 Maintenance and Service Guide Illustrated Parts Catalog Table 3-7 Sequential Part Number Listing (Continued) Spare Part Number 403810-001 403811-001 403811-021 403811-031 403811-061 403812-001 403813-001 403814-001 403816-001 403817-001 403818-001 403819-001 403822-001 403824-001 403825-001 403826-001 403827-001 403828-001 403829-001 403830-001 403831-001 403833-001 Description Power supply, 65 watt Power cord for use in the United States Power cord for use Internationally Power cord for use in the United Kingdom Power cord for use in Italy Plastics Kit Screw Kit Cable Kit Bracket Kit Switch cover (includes LED board and LED board cable) Keyboard assembly frame RTC battery Top cover (includes TouchPad) Base enclosure Speakers Fan assembly Heat sink (includes thermal paste) ExpressCard assembly Optical drive connector board USB board (includes USB board and USB board cable) Display inverter board LED board (includes LED board cable) Maintenance and Service Guide 319 Illustrated Parts Catalog Table 3-7 Sequential Part Number Listing (Continued) Spare Part Number 403835-001 403881-001 403882-001 403884-001 403885-001 403886-001 403887-001 405937-001 405938-001 405939-001 Description PC Card assembly Display Plastics Kit Wireless Antenna Kit Display Hinge Kit Display Panel Kit Display Screw Kit Display Label Kit 4200-rpm, 60-GB hard drive (includes frame and connector) 7200 rpm, 100-GB hard drive (includes frame and connector) 4200-rpm, 120-GB hard drive (includes frame and connector) 320 Maintenance and Service Guide 4 Removal and Replacement Preliminaries This chapter provides essential information for proper and safe removal and replacement service. 4.1 Tools Required You will need the following tools to complete the removal and replacement procedures: Magnetic screwdriver Phillips P0 screwdriver Flat-bladed screwdriver Tool kit--includes connector removal tool, loopback plugs, and case utility tool Maintenance and Service Guide 41 Removal and Replacement Preliminaries 4.



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*2 Service Considerations The following sections include some of the considerations that you should keep in mind during disassembly and assembly procedures.*

*As you remove each subassembly from the computer, place the subassembly (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. Cables and Connectors CAUTION: When servicing the computer, ensure that cables are placed in their proper locations during the reassembly process. Improper cable placement can damage the computer. Cables must be handled with extreme care to avoid damage. Apply only the tension required to unseat or seat the cables during removal and insertion. Handle cables by the connector whenever possible. In all cases, avoid bending, twisting, or tearing cables.*

*Ensure that cables are routed in such a way that they cannot be caught or snagged by parts being removed or replaced. Handle flex cables with extreme care; these cables tear easily. 42 Maintenance and Service Guide Removal and Replacement Preliminaries 4.3 Preventing Damage to Removable Drives Removable drives are fragile components that must be handled with care. To prevent damage to the computer, damage to a removable drive, or loss of information, observe the following precautions: Before removing or inserting a hard drive, shut down the computer.*

*If you are unsure whether the computer is off or in hibernation, turn the computer on, and then shut it down through the operating system. Before removing a diskette drive or optical drive, ensure that a diskette or disc is not in the drive and ensure that the optical drive tray is closed. Before handling a drive, ensure that you are discharged of static electricity. While handling a drive, avoid touching the connector. Handle drives on surfaces covered with at least one inch of shock-proof foam.*

*Avoid dropping drives from any height onto any surface. After removing a hard drive, an optical drive, or a diskette drive, place it in a static-proof bag. Avoid exposing a hard drive to products that have magnetic fields, such as monitors or speakers. Avoid exposing a drive to temperature extremes or liquids. If a drive must be mailed, place the drive in a bubble pack mailer or other suitable form of protective packaging and label the package "FRAGILE: Handle With Care." Maintenance and Service Guide 43 Removal and Replacement Preliminaries 4.4 Preventing Electrostatic Damage Many electronic components are sensitive to electrostatic discharge (ESD). Circuitry design and structure determine the degree of sensitivity. Networks built into many integrated circuits provide some protection, but in many cases, the discharge contains enough power to alter device parameters or melt silicon junctions. A sudden discharge of static electricity from a finger or other conductor can destroy static-sensitive devices or microcircuitry.*

*Often the spark is neither felt nor heard, but damage occurs. An electronic device exposed to electrostatic discharge may not be affected at all and can work perfectly throughout a normal cycle. Or the device may function normally for a while, then degrade in the internal layers, reducing its life expectancy. 44*

*Maintenance and Service Guide Removal and Replacement Preliminaries 4.5 Packaging and Transporting Precautions Use the following grounding precautions when packaging and transporting equipment: To avoid hand contact, transport products in static-safe containers, such as tubes, bags, or boxes. Protect all electrostatic-sensitive parts and assemblies with conductive or approved containers or packaging. Keep electrostatic-sensitive parts in their containers until the parts arrive at static-free workstations. Place items on a grounded surface before removing items from their containers. Always be properly grounded when touching a sensitive component or assembly. Store reusable electrostatic-sensitive parts from assemblies in protective packaging or nonconductive foam.*

*Use transporters and conveyors made of antistatic belts and roller bushings. Ensure that mechanized equipment used for moving materials is wired to ground and that proper materials are selected to avoid static charging. When grounding is not possible, use an ionizer to dissipate electric charges. Maintenance and Service Guide 45 Removal and Replacement Preliminaries 4.6 Workstation Precautions Use the following grounding precautions at workstations: Cover the workstation with approved static-shielding material (refer to Table 4-2, "Static-Shielding Materials").*

*Use a wrist strap connected to a properly grounded work surface and use properly grounded tools and equipment. Use conductive field service tools such as cutters, screwdrivers, and vacuums. When fixtures must directly contact dissipative surfaces, use fixtures made only of static-safe materials. Keep the work area free of nonconductive materials such as ordinary plastic assembly aids and Styrofoam. Handle electrostatic-sensitive components, parts, and assemblies by the case or PCM laminate.*

*Handle these items only at static-free workstations. Avoid contact with pins, leads, or circuitry. Turn off power and input signals before inserting or removing connectors or test equipment. 4.7 Grounding Equipment and Methods Grounding equipment must include either a wrist strap or a foot strap at a grounded workstation. When seated, wear a wrist strap connected to a grounded system. Wrist straps are flexible straps with a minimum of one megohm  $\pm 10\%$  resistance in the ground cords. To provide proper ground, wear a strap snugly against the skin at all times. On grounded mats with banana-plug connectors, use alligator clips to connect a wrist strap. 46 Maintenance and Service Guide Removal and Replacement Preliminaries When standing, use foot straps and a grounded floor mat.*

*Foot straps (heel, toe, or boot straps) can be used at standing workstations and are compatible with most types of shoes or boots. On conductive floors or dissipative floor mats, use foot straps on both feet with a minimum of one megohm resistance between the operator and ground. To be effective, the conductive strips must be worn in contact with the skin. Other grounding equipment recommended for use in preventing electrostatic damage includes: Antistatic tape Antistatic smocks, aprons, and sleeve protectors Conductive bins and other assembly or soldering aids Nonconductive foam Conductive tabletop workstations with ground cords of one megohm resistance Static-dissipative tables or floor mats with hard ties to the ground Field service kits Static awareness labels Material-handling packages Nonconductive plastic bags, tubes, or boxes Metal tote boxes Electrostatic voltage levels and protective materials Maintenance and Service Guide 47 Removal and Replacement Preliminaries Table 4-1 shows how humidity affects the electrostatic voltage levels generated by different activities.*



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Table 4-1 Typical Electrostatic Voltage Levels Relative Humidity Event Walking across carpet Walking across vinyl floor Motions of bench worker Removing DIPS from plastic tube Removing DIPS from vinyl tray Removing DIPS from Styrofoam Removing bubble pack from PCB Packing PCBs in foam-lined box 10% 35,000 V 12,000 V 6,000 V 2,000 V 11,500 V 14,500 V 26,500 V 21,000 V 40% 15,000 V 5,000 V 800 V 4,000 V 5,000 V 20,000 V 11,000 V 55% 7,500 V 3,000 V 400 V 400 V 2,000 V 3,500 V 7,000 V 5,000 V A product can be degraded by as little as 700 V. Table 4-2 lists the shielding protection provided by antistatic bags and floor mats. Table 4-2 Static-Shielding Materials Material Antistatic plastic Carbon-loaded plastic Metallized laminate Use Bags Floor mats Floor mats Voltage Protection Level 1,500 V 7,500 V 5,000 V 48 Maintenance and Service Guide 5 Removal and Replacement Procedures This chapter provides removal and replacement procedures. There are as many 113 screws, in 9 different sizes and types, that may have to be removed, replaced, or loosened when servicing the computer. Make special note of each screw size and location during removal and replacement. Refer to Appendix C, "Screw Listing," for detailed information on screw and nut sizes, locations, and usage.

Maintenance and Service Guide 51 Removal and Replacement Procedures 5.1 Serial Number Report the computer serial number to HP when requesting information or ordering spare parts. The serial number is located on the bottom of the computer. Serial Number Location 52 Maintenance and Service Guide Removal and Replacement Procedures 5.2 Disassembly Sequence Chart Use the chart below to determine the section number to be referenced when removing computer components.

Disassembly Sequence Chart Section 6.3 Description Preparing the Computer for Disassembly Battery pack # of Screws Removed 0 3 loosened to remove the hard drive cover 2 to remove each hard drive 4 to disassemble each hard drive 0 2 loosened to remove the memory/Mini PCI module compartment cover 2 loosened to release the memory shield 0 6.4 Hard Drive 6.5 6.6 Computer Feet Memory Module 6.

7 Mini PCI Communications Module A To prevent an unresponsive system and the display of a warning message, install only a Mini PCI device authorized for use in your computer by the governmental agency that regulates wireless devices in your country. If you install a device and then receive a warning message, remove the device to restore computer functionality. Then contact Customer Care. 0 1 5 6.8 6.9 6.10 RTC Battery Optical Drive Switch Cover Maintenance and Service Guide 53 Removal and Replacement Procedures Disassembly Sequence Chart (Continued) Section 6.11 6.12 6.13 6.

14 Description Keyboard Assembly Frame LED Board Keyboard Display Assembly # of Screws Removed 2 4 5 6 to remove the display assembly 6 to remove the display bezel 4 to remove the display panel 4 to remove each display hinge 1 to remove the display inverter 25 8 2 0 0 2 4 0 5 2 6.15 6.16 6.17 6.18 6.19 6.20 6.21 6.22 6.23 6.

24 Top Cover System Board Bluetooth Module Modem Connector Cable USB Board Speakers Heat Sink Processor Fan Assembly PC Card Assembly 54 Maintenance and Service Guide Removal and Replacement Procedures 5.3 Preparing the Computer for Disassembly Before you begin any removal or installation procedures: 1. Shut down the computer. If you are unsure whether the computer is off or in hibernation, turn the computer on, and then shut it down through the operating system. 2.

Disconnect all external devices connected to the computer. 3. Disconnect the power cord. Battery Pack Spare Part Number Information 8-cell, 4.4-hour battery pack 403808-001 Maintenance and Service Guide 55 Removal and Replacement Procedures 4.

Remove the battery pack by following these steps: a. Turn the computer upside down with the front toward you. b. Slide the battery pack release latch 1 to the left. (The battery pack disengages from the computer.) c. Lift the front edge of the battery pack 3 up and swing it back to remove it. Removing the Battery Pack

Reverse the above procedure to install the battery pack. 56 Maintenance and Service Guide Removal and Replacement Procedures 5.4 Hard Drive Hard Drive Spare Part Number Information 7200 rpm, 100-GB 5400 rpm, 80-GB 4200-rpm, 120-GB 4200-rpm, 100-GB 4200-rpm, 60-GB 405938-001 403803-001 405939-001 403804-001 405937-001 All hard drive spare part kits include a hard drive frame and hard drive connector.

1. Prepare the computer for disassembly (refer to Section 5.3). Maintenance and Service Guide 57 Removal and Replacement Procedures 2. Loosen the three black Phillips PM2.5x6.0 screws 1 that secure the hard drive cover to the computer. 3. @@@@drive cover The hard403812-001. @@@@5.

Slide the hard drive 2 away from the hard drive connector. 6. @@@@8. @@@@Prepare the computer for disassembly (refer to Section 5.3).

2. @@@@4. @@@@Loosen the two Phillips PM2.5x4.0 screws 1 that secure the memory shield to the computer.

6. Lift the right side of the memory shield 2 and swing it to the left as far as it will go. Releasing the Memory Shield 514 Maintenance and Service Guide Removal and Replacement Procedures 7. Spread the retaining tabs 1 on each side of the memory module socket to release the memory module. (The edge of the module opposite the socket rises away from the computer.) 8. Slide the module away from the socket at an angle 2. 9. Remove the memory module.

@@@@Prepare the computer for disassembly (Section 5).

3). 2. @@@3. @@@4. @@@@Prepare the computer for disassembly (Section 5.3). 2. Remove the memory/Mini PCI module compartment cover (Section 5.6). 3.

@@@@Prepare the computer for disassembly (Section 5.3). 2. @@@@4. @@@5.

Use the media tray to slide the optical drive out of the computer 3. 6. @@@Prepare the computer for disassembly (Section 5.3). 2.

@@@@Turn the computer display-side up with the front toward you. 4. Open the computer as far as possible. 5. @@@6. @@@7. @@@Prepare the computer for disassembly (Section 5.3). 2. Remove the memory/Mini PCI module compartment cover (Section 5).

6). 3. Remove the switch cover (Section 5.10). 4. Turn the computer upside down with the front toward you. 5. @@@6. @@@Turn the computer display-side up with the front toward you. 8.

Open the computer as far as possible. 9. @@@@12. Release the ZIF connector to which the keyboard cable 2 is attached and disconnect the keyboard cable 3. 13.

Remove the keyboard assembly frame. Removing the Keyboard Assembly Frame Reverse the above procedure to install the keyboard assembly frame.

Maintenance and Service Guide 527 Removal and Replacement Procedures 5.12 LED Board LED Board Spare Part Number Information LED board (includes LED board cable) 403833-001 1. Prepare the computer for disassembly (Section 5).

3) and then remove the following components: a.



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Memory/Mini PCI module compartment cover (Section 5.6) b. Switch cover (Section 5.10) c. Keyboard assembly frame (Section 5.11) 2. Turn the keyboard assembly frame upside down with the LED board toward you. 528 Maintenance and Service Guide Removal and Replacement Procedures 3. Remove the four Phillips PM2.

5×4.0 screws 1 that secure the LED board to the keyboard frame. 4. Remove the LED board 2. Removing the LED Board Reverse the above procedure to install the LED board. Maintenance and Service Guide 529 Removal and Replacement Procedures 5.13 Keyboard Keyboard Spare Part Number Information For use in: France French Canada Germany Italy Norway 403809-051 403809-121 403809-041 403809-061 403809-091 Spain Sweden and Finland United Kingdom United States 403809-071 403809-101 403809-031 403809-001 1. Prepare the computer for disassembly (Section 5.3) and then remove the following components: a. Memory/Mini PCI module compartment cover (Section 5.6) b. Switch cover (Section 5.10) c. Keyboard assembly frame (Section 5.11) 2.

Turn the keyboard assembly frame upside down with the LED board toward you. 530 Maintenance and Service Guide Removal and Replacement Procedures 3. Remove the five Phillips PM2.5×4.0 screws 1 that secure the keyboard to the keyboard frame. 4. Remove the keyboard 2. Removing the Keyboard Reverse the above procedure to install the keyboard. Maintenance and Service Guide 531 Removal and Replacement Procedures 5.14 Display Assembly Display Assembly Spare Part Number Information 17-inch, WSXGA+ with BrightView 17-inch, WXGA+ with BrightView 403797-001 403796-001 1. Prepare the computer for disassembly (Section 5.3). 2. Remove the memory/Mini PCI module compartment cover (Section 5.6).

note of Before is disconnecting the antenna cables, make Mini PCI which cable attached to which antenna clip on the communications module. 3. Disconnect the auxiliary and main antenna cables from the Mini PCI communications module. Disconnecting the Wireless Antenna Cables 532 Maintenance and Service Guide Removal and Replacement Procedures 4. Remove the switch cover (Section 5.10). 5. Remove the keyboard assembly frame (Section 5.11). 6. Disconnect the display cable 1 from the system board. 7. Remove the wireless antenna cables from the clips 2 in the top cover. Disconnecting the Display and Wireless Antenna Cables Maintenance and Service Guide 533 Removal and Replacement Procedures CAUTION: Support the display assembly when removing the following screws. Failure to support the display assembly can result in damage to the display assembly and other computer components. 8. Remove the the silver Phillips PM2.5×6.0 screw 1 and the five Phillips PM2.5×9.

0 screws 2 that secure the display assembly to the computer. 9. Lift the display assembly straight up and remove it 3. Removing the Display Assembly 534 Maintenance and Service Guide Removal and Replacement Procedures Display Assembly Subcomponents Spare Part Number Information Display Plastics Kit, includes: Display bezel Display enclosure Display release latch actuator and hooks (not illustrated) Display Screw Kit, includes: Phillips PM2.5×7.0 screws Phillips PM2.5×5.0 screws Rubber screw covers 403881-001 403886-001 Maintenance and Service Guide 535 Removal and Replacement Procedures 10. Remove the six rubber screw covers 1 and 2 and the six Phillips PM2.5×7.

0 screws 3 that secure the display bezel to the display assembly. screw covers 1 on edge The four rubber than the two rubber the top covers of 2 the display bezel are larger screw on the bottom edge of the bezel. Removing the Display Bezel Screws 536 Maintenance and Service Guide Removal and Replacement Procedures 11. @ @ 12. @ @ @ @ @ 15. @ @ @ @ 17. @ @ @ @ 19. @ @ @ @ 21. @ @ 22. Remove the wireless antenna transceivers and cables 1. Removing the Wireless Antenna Transceivers and Cables Reverse the above procedure to reassemble and install the display assembly. 542 Maintenance and Service Guide Removal and Replacement Procedures 5.15 Top Cover Top Cover Spare Part Number Information Top cover (includes TouchPad) 403822-001 1. Prepare the computer for disassembly (Section 5.3) and then remove the following components: a. Hard drive (Section 5.4) b. Memory/Mini PCI module compartment cover (Section 5.6) c. Optical drive (Section 5.9) d. Switch cover (Section 5.10) e. Keyboard assembly frame (Section 5.11) f. Display assembly (Section 5.14) Maintenance and Service Guide 543 Removal and Replacement Procedures 2. Release the ZIF connector to which the TouchPad cable 1 is connected and disconnect the TouchPad cable 2 from the system board. The TouchPad cable is included in the Cable Kit, spare part number 403814-001. Disconnecting the TouchPad Cable 3.

Turn the computer upside down with the front toward you. 544 Maintenance and Service Guide Removal and Replacement Procedures 4. Remove the two Phillips PM2.5×4.0 screws 1 and three silver Phillips PM2.5×6.0 screws 2 that secure the top cover to the computer. Removing the Top Cover Screws, Part 1 Maintenance and Service Guide 545 Removal and Replacement Procedures 5. Remove the five Phillips PM2.5×13.

0 screws that secure the top cover to the computer. Removing the Top Cover Screws, Part 2 546 Maintenance and Service Guide Removal and Replacement Procedures 6. Turn the computer right-side up with the front toward you. 7. Remove the nine silver Phillips PM2.

5×6.0 screws that secure the top cover to the computer. Removing the Top Cover Screws, Part 3 Maintenance and Service Guide 547 Removal and Replacement Procedures 8. Remove the six Phillips PM2.5×13.

0 screws that secure the top cover to the computer. Removing the Top Cover Screws, Part 4 548 Maintenance and Service Guide Removal and Replacement Procedures 9. Lift up the rear edge of the top cover 1 until it disengages from the base enclosure. 10. Lift the top cover 2 straight up and remove it. Removing the Top Cover Reverse the above procedure to install the top cover. Maintenance and Service Guide 549 Removal and Replacement Procedures 5.16 System Board System Board Spare Part Number Information System board 403790-001 the system board, the following When replacing removed from the ensure that system board and components are defective installed on the replacement system board: Memory modules (Section 5.6) Mini PCI communications module (Section 5.7) RTC battery (Section 5).

8) Speaker (Section 5.20) Heat sink (Section 5.21) Processor (Section 5.22) Fan assembly (Section 5.23) PC Card assembly (Section 5.24) 1. Prepare the computer for disassembly (Section 5.3), and then remove the following components: a. Hard drive (Section 5.4) b. Memory/Mini PCI module compartment cover (Section 5.



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