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Maintenance and Service Guide

HP Special Edition L2000 Notebook PC
Compaq Presario V2000 Notebook PC

Document Part Number: 393671-001

The information and procedures included in this *Maintenance and Service Guide* apply to all HP Special Edition L2000 Notebook PC models and Compaq Presario V2000 Notebook PC models equipped with AMD processors.

July 2005

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



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Manual abstract:

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@@@2.0 IEEE 1394 digital (select models only) S-Video-out (select models only) Power External monitor Docking (select models only) RJ-45 (network) RJ-11 (modem) PC Card Maintenance and Service Guide 13 Product Description 1.2 Resetting the Notebook If the notebook you are servicing has an unknown password, follow these steps to clear the password. These steps also clear CMOS: 1. Prepare the notebook for disassembly (refer to Section 5.3, "Preparing the Notebook for Disassembly," for more information). 2. Remove the real-time clock (RTC) battery (refer to Section 5.16, "RTC Battery," for more information). 3.

Wait approximately 5 minutes. 4. Replace the RTC battery and reassemble the notebook. 5. Connect AC power to the notebook. Do not reinsert any battery packs at this time. 6. Turn on the notebook. All passwords and all CMOS settings have been cleared. 14 Maintenance and Service Guide Product Description 1.

3 Power Management The notebook comes with power management features that extend battery operating time and conserve power. The notebook 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/standby 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 notebook 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 2 3 Component Speakers (2) Wireless light (select models only) Power/standby light Function Produce stereo sound. On: An integrated wireless device is hardware enabled.

On: Notebook is turned on. Blinking: Notebook is in standby. Off: Notebook is off or in hibernation. On or blinking: The internal hard drive or an optical drive is being accessed. 4 5 IDE (Integrated Drive Electronics) drive light Battery light Amber: The battery pack is charging.

Green: The battery pack is fully charged. Off: The battery pack is discharging or not inserted. 6 7 8 Display release latch Audio-in (microphone) jack Audio-out (headphone) jack Opens the notebook. Connects an optional monaural (single sound channel) microphone. Connect optional headphones or powered stereo speakers. Also connect the audio function of an audio/video device such as a television or VCR. Maintenance and Service Guide 17 Product Description The external components on the right side of the notebook 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 3 Component USB connectors (2) 6-in-1 Memory Reader (select models only) 1394 port (select models only) 6-in-1 Memory Reader light (select models only) Optical drive S-Video-out jack (select models only) Function Connect an optional USB device. In Windows, supports digital memory cards. Connects an optional 1394 device such as a scanner, digital camera, or digital camcorder.

On: A digital memory card is being accessed. Supports an optical disc. Connects an optional S-Video device, such as a television, VCR, camcorder, projector, or video capture card. 4 5 6 Maintenance and Service Guide 19 Product Description The external components on the notebook rear panel are shown below and described in Table 1-3. Rear Panel Components Table 1-3 Rear Panel Components Item 1 Component Exhaust vent Function Provide airflow to cool internal components. To prevent overheating, do not obstruct vents. Do not allow a surface, such as a printer, or a soft surface, such as pillows, thick rugs or clothing, to block airflow. 2 Power connector Connects an AC adapter cable. 110 Maintenance and Service Guide Product Description The external components on the left side of the notebook are shown below and described in Table 1-4.



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Left-Side Components Table 1-4 Left-Side Components Item 1 2 Component External monitor port Expansion port 2 (select models only) Function Connects an optional VGA external monitor or projector.

Connects the notebook to an optional expansion base. The notebook has only one expansion port. The term expansion port 2 describes the type of expansion port. 3 4 5 6 7 8 RJ-45 (network) jack RJ-11 (modem) jack USB connector (select models only) PC Card slot PC Card eject button Security cable slot

Connects an optional network cable. Connects the modem cable.

Connects an optional USB device. Supports an optional Type I or Type II 32-bit (CardBus) or 16-bit PC Card. Ejects an optional PC Card from the PC Card slot. Attaches an optional security cable to the notebook. Maintenance and Service Guide 111 Product Description The notebook keyboard components are shown below and described in Table 1-5.

Keyboard Components 112 Maintenance and Service Guide Product Description Table 1-5 Keyboard Components Item 1 Component 7 8 Hard drive bay Memory module compartment Holds the internal hard drive. Contains 2 memory slots that support replaceable memory modules. The number of preinstalled memory modules varies by notebook model. Maintenance and Service Guide 119 Product Description 1.5 Design Overview This section presents a design overview of key parts and features of the notebook. Refer to Chapter 3, "Illustrated Parts Catalog," to identify replacement parts, and Chapter 5, "Removal and Replacement Procedures," for disassembly steps. The system board provides the following device connections: AMD Turion 64 and Mobile AMD Sempron processors Audio Display assembly Fan Hard drive Keyboard and TouchPad Memory module Mini PCI communications devices PC Card

CAUTION: To properly ventilate the notebook, allow at least a 7.6-cm (3-inch) clearance.

2-1 Main Menu Select System Information To Do This View identification information about the notebook. View specification information about the processor, memory and cache size, keyboard controller version, and system BIOS.

Selecting from the Security Menu Table 2-2 Security Menu Select Administrator password Power-on password DriveLock password To Do This Enter, change, or delete an HP Administrator password. Enter, change, or delete a power-on password. 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 notebook. Device security Enable diskette drive or optical drive for inclusion in MultiBoot. 24 Maintenance and Service Guide Troubleshooting Selecting from the Advanced Menu Table 2-3 Advanced Menu Select Video Graphic Mode Dedicated Video Memory Total Video Memory Language Support Boot Order Accessibility Options To Do This Select UMA, SidePort, or UMA+SidePort video memory modes. View the size of the on-board video memory. View the size of the total system video memory. Change the Computer Setup language. Set the boot order.

Provides access to electronic and information technology to a wide range of people with disabilities. Enable/disable a wireless local area network device. Enable/disable a Bluetooth device. Embedded WLAN device Embedded Bluetooth device Selecting from the Tools Menu Table 2-4 Tools Menu Select HDD Self-test To Do This Run a quick or comprehensive self-test on any hard drive in the system. Maintenance and Service Guide 25 Troubleshooting Table 2-5 Exit Menu Select Exit Saving Changes To Do This Save changes entered during the current session.

Then exit and restart the notebook. The changes you save are in effect when the notebook restarts. Cancel changes entered during the current session. Then exit and restart the notebook. Replace configuration settings in Computer Setup with factory default settings.

(Identification information is retained.) Exit Discarding Changes Load Setup Defaults 26 Maintenance and Service Guide Troubleshooting 2.2 Troubleshooting Flowcharts Table 2-6 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 2-6 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.

Reset 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.



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**NOTES 1. On select models, there is a separate reset button. 2. On select models, the notebook 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 notebook, 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 notebook 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 notebook. Y Loose or damaged parts? N Close notebook and retest. Reseat loose components and boards and replace damaged items. N Power on? Replace the following items (if applicable). Check notebook 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 combination. 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 notebook and notebook display (if applicable) 2. Display 3. System board N Video OK? Try another display. Internal and external video OK? N Replace system board. 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 notebook 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 notebook 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 notebook 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 notebook. N Remove notebook, 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 Notebook 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? Run diagnostics and follow recommendations. N N Can bad sectors be fixed? Replace hard drive. Replace hard drive. Y N Fix bad sectors.

Boot from hard drive? Replace hard drive. Y Done 220 Maintenance and Service Guide Troubleshooting Flowchart 2.13--No OS Loading, Diskette Drive Y OS not loading from diskette drive.



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Reseat diskette drive. OS loading? Done N Y Nonsystem disk message? Bootable diskette in drive? N Install bootable diskette and reboot notebook. 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 notebook.

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 notebook. Refer to Section 1.2, "Resetting the Notebook," 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 notebook. 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 notebook. Refer to Section 1.2, "Resetting the Notebook," 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 Notebook 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 Dock notebook in replacement docking device. 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 notebook (if applicable). Y Audio? Done N Replace the following components individually, retesting after each replacement: Internal speakers. Audio board (if applicable). System board.

224 Maintenance and Service Guide Troubleshooting Flowchart 2.17--Nonfunctioning Device Nonfunctioning device. Reseat device. Unplug the nonfunctioning device from the notebook 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 Replace hard drive. "Flowchart 2.9--No Operating System (OS) Loading." N Reattach device. Close notebook, plug in power, and reboot. 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 notebook 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 notebook 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. Network or modem connection working? Y Done Y Disconnect all power from the notebook 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 and option part numbers. 3.1 Serial Number Location When ordering parts or requesting information, provide the notebook serial number and model number located on the bottom of the notebook.

Serial Number Location Maintenance and Service Guide 31 Illustrated Parts Catalog 3.2 Notebook Major Components Notebook Major Components 32 Maintenance and Service Guide Illustrated Parts Catalog Table 3-1 Spare Parts: Notebook Major Components Item 1 Description Spare Part Number Display assemblies (include wireless antenna boards and cables) For use on HP Special Edition L2000 models 14.0-inch, WXGA, SVA with Brightview

14.0-inch, WXGA For use on Compaq Presario V2000 models 14.0-inch, WXGA, SVA with Brightview 14. 0-inch, WXGA 395365-001 395364-001 394349-001 394348-001 2 Switch covers (include wireless button and light) For use on HP Special Edition L2000 models For use on Compaq Presario V2000 models with wireless capability For use on Compaq Presario V2000 models without wireless capability 395371-001 394371-001 394372-001 3 Keyboards For use on HP Special Edition L2000 models in the United States For use on Compaq Presario V2000 models in French Canada For use on Compaq Presario V2000 models in the United States 395366-001 394363-121 394363-001 394374-001 4 LED board (includes cable, not illustrated) Maintenance and Service Guide 33 Illustrated Parts Catalog Notebook Major Components 34 Maintenance and Service Guide Illustrated Parts Catalog Table 3-1 Spare Parts: Notebook Major Components (Continued) Item 5 Description Top covers (include TouchPad) For use on HP Special Edition L2000 models For use on full-featured Compaq Presario V2000 models For use on defeatured Compaq Presario V2000 models Spare Part Number 395368-001 394366-001 394365-001 394298-001 6 7 Fan assembly (includes heat sink and thermal pad) Processors (include thermal pad) AMD Turion 64 ML-37 (2.0-GHz) processor AMD Turion 64 ML-34 (1.8-GHz) processor AMD Turion 64 ML-32 (1.



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8-GHz) processor AMD Turion 64 ML-30 (1.6-GHz) processor AMD Turion 64 ML-28 (1.6-GHz) processor Mobile AMD Sempron 3300+ (2.0-GHz) processor Mobile AMD Sempron 3000+ (1.8-GHz) processor Mobile AMD Sempron 2800+ (1.6-GHz) processor 394347-001 394259-001 397346-001 394258-001 394257-001 397345-001 394256-001 394255-001 8 System boards (include disk cell RTC battery) ATI RS480M, for use on full-featured models ATI RS480M, for use on defeatured models 394253-001 394252-001 394303-001 395373-001 9 USB/S-Video controller board (for use on full-featured models) S-Video controller board (for use on defeatured models) Maintenance and Service Guide 35 Illustrated Parts Catalog Notebook Major Components 36 Maintenance and Service Guide Illustrated Parts Catalog Table 3-1 Spare Parts: Notebook Major Components (Continued) Item 10 11 12 13 Description Broadcomm Bluetooth® WLAN module Speaker assembly Base enclosure Battery packs 12-cell, 8.8-AHr 6-cell, 4.0-AHr Spare Part Number 394254-001 394373-001 394367-001 394275-001 391883-001 14 Optical drives (include bezel) For use on HP Special Edition L2000 models 8X Max DVD-ROM drive 24X DVD/CD-RW Combo Drive 8X DVD±RW/R and CD-RW Combo Drive 8X DVD±RW/R and CD-RW Dual Layer Combo Drive, LightScribe For use on Compaq Presario V2000 models 8X Max DVD-ROM drive 24X DVD/CD-RW Combo Drive 8X DVD±RW/R and CD-RW Combo Drive 8X DVD±RW/R and CD-RW Dual Layer Combo Drive, LightScribe 395728-001 395729-001 395730-001 395731-001 394359-001 394360-001 394362-001 394361-001 Maintenance and Service Guide 37 Illustrated Parts Catalog Notebook Major Components 38 Maintenance and Service Guide Illustrated Parts Catalog Table 3-1 Spare Parts: Notebook Major Components (Continued) Item 15 Description Hard drives (include frame and connector) 5400-rpm 80-GB 60-GB 4200-rpm 100-GB 80-GB 60-GB 40-GB Spare Part Number 394358-001 394357-001 394355-001 394354-001 394353-001 394356-001 394462-001 16 17 Mini PCI 802.11b/g WLAN communications card Memory modules (333-MHz, DDR1, PC2700) 1024-MB 512-MB 256-MB Miscellaneous Plastics Kit 394352-001 394351-001 394350-001 394368-001 18a 18b 18c Includes: Hard drive cover (includes 2 captive screws) Memory module compartment cover (includes 2 captive screws) Mini PCI compartment cover (includes 1 captive screw) Notebook feet (not illustrated) Maintenance and Service Guide 39 Illustrated Parts Catalog 3.3 Mass Storage Devices Mass Storage Devices Table 3-2 Mass Storage Devices Spare Part Number Information Item 1 Description Hard drives (include frame and connector) 5400-rpm 80-GB 60-GB 4200-rpm 100-GB 80-GB 60-GB 40-GB Spare Part Number 394358-001 394357-001 394355-001 394354-001 394353-001 394356-001 310 Maintenance and Service Guide Illustrated Parts Catalog Table 3-2 Mass Storage Devices Spare Part Number Information (Continued) Item 2 Description Optical drives For use on HP Special Edition L2000 models 8X Max DVD-ROM drive 24X DVD/CD-RW Combo Drive 8X DVD±RW/R and CD-RW Combo Drive 8X DVD±RW/R and CD-RW Dual Layer Combo Drive, LightScribe For use on Compaq Presario V2000 models 8X Max DVD-ROM drive 24X DVD/CD-RW Combo Drive 8X DVD±RW/R and CD-RW Combo Drive 8X DVD±RW/R and CD-RW Dual Layer Combo Drive, LightScribe USB digital drive (not illustrated) Spare Part Number 395728-001 395729-001 395730-001 395731-001 394359-001 394360-001 394362-001 394361-001 364727-001 Maintenance and Service Guide 311 Illustrated Parts Catalog 3.4 Miscellaneous Plastics Kit Miscellaneous Plastics Kit Table 3-3 Miscellaneous Plastics Kit Spare Part Number 394368-001 Item 1 2 3 4 Description Includes: Mini PCI compartment cover Memory module compartment cover Notebook feet (4) Hard drive cover 312 Maintenance and Service Guide Illustrated Parts Catalog 3.5 Miscellaneous Table 3-4 Spare Parts: Miscellaneous (not illustrated) Description Logo Kits For use on HP Special Edition L2000 models For use on Compaq Presario V2000 models Wired headset with volume control For use on HP Special Edition L2000 models For use on Compaq Presario V2000 models All-in-one media cable HP remote control USB travel mouse Notebook entertainment cable and Y-cable 65-watt AC adapter Power cord 371693-002 371693-001 375759-001 371694-001 309674-001 379452-001 394278-001 394279-001 395370-001 394370-001 Spare Part Number Screw Kit (includes the following screws; refer to Appendix C, "Screw Listing," for more information on screw specifications and usage) For use on HP Special Edition L2000 models For use on Compaq Presario V2000 models Phillips PM3.

0x4.0 screw Phillips PM2.0x6.0 captive screw (includes C-clips) Phillips PM2.0x6.0 screw Phillips PM2.0x8.0 screw 395369-001 394369-001 Phillips PM2.0x5.0 screw Phillips PM2.

0x4.0 screw Phillips PM1.5x3.5 screw Phillips PM2.0x9.

0 captive spring-loaded, shoulder screw (includes C-clips) Maintenance and Service Guide 313 Illustrated Parts Catalog 3.6 Sequential Part Number Listing Table 3-5 Spare Parts: Sequential Part Number Listing Spare Part Number 309674-001 364727-001 371693-001 371693-002 371694-001 375759-001 379452-001 391883-001 394252-001 394253-001 394254-001 394255-001 394256-001 394257-001 394258-001 Description USB travel mouse USB digital drive Wired headset with volume control for use on Compaq Presario V2000 models Wired headset with volume control for use on HP Special Edition L2000 models HP remote control All-in-one media cable Notebook entertainment cable and Y-cable 6-cell, 4.0-AHr battery pack ATI RS480M system board, for use on defeatured models (includes disk cell RTC battery) ATI RS480M system board, for use on full-featured models (includes disk cell RTC battery) Broadcomm Bluetooth WLAN module Mobile AMD Sempron 2800+ (1.6-GHz) processor (includes thermal pad) Mobile AMD Sempron 3000+ (1.8-GHz) processor (includes thermal pad) AMD Turion 64 ML-28 (1.6-GHz) processor (includes thermal pad) AMD Turion 64 ML-30 (1.6-GHz) processor (includes thermal pad) 314 Maintenance and Service Guide Illustrated Parts Catalog Table 3-5 Spare Parts: Sequential Part Number Listing (Continued) Spare Part Number 394259-001 394275-001 394278-001 394279-001 394298-001 394303-001 394347-001 394348-001 Description AMD Turion 64 ML-34 (1.8-GHz) processor (includes thermal pad) 12-cell, 8.8-AHr battery pack 65-watt AC adapter Power cord Fan (includes heat sink and thermal pad) USB/S-Video controller board (for use on full-featured models) AMD Turion 64 ML-37 (2.0-GHz) processor (includes thermal pad) 14.0-inch, WXGA display assembly for use on Compaq Presario V2000 models (includes wireless antenna boards and cables) 14.0-inch, WXGA, SVA with Brightview display assembly for use on Compaq Presario V2000 models (includes wireless antenna boards and cables) 256-MB memory module (333-MHz, DDR1, PC2700) 512-MB memory module (333-MHz, DDR1, PC2700) 1024-MB memory module (333-MHz, DDR1, PC2700) 4200-rpm, 60-GB hard drive (includes frame and connector) 4200-rpm, 80-GB hard drive (includes frame and connector) 4200-rpm, 100-GB hard drive (includes frame and connector) 4200-rpm, 40-GB hard drive (includes frame and connector) 5400-rpm, 60-GB hard drive (includes frame and connector) 5400-rpm, 80-GB hard drive (includes frame and connector) 394349-001 394350-001 394351-001 394352-001 394353-001 394354-001 394355-001 394356-001 394357-001 394358-001 Maintenance and Service Guide 315 Illustrated Parts Catalog Table 3-5 Spare Parts: Sequential Part Number Listing (Continued) Spare Part Number 394359-001 394360-001 394361-001 394362-001 394363-001 394363-121 394365-001 394366-001 394367-001 394368-001 394369-001 394370-001 394371-001 394372-001 394373-001 394374-001 Description 8X Max DVD-ROM drive for use on Compaq Presario V2000 models 24X DVD/CD-RW Combo Drive for use on Compaq Presario V2000 models 8X DVD±RW/R and CD-RW Dual Layer Combo Drive, LightScribe, for use on Compaq Presario V2000 models 8X DVD±RW/R and CD-RW Combo Drive for use on Compaq Presario V2000 models Keyboard for use on Compaq Presario V2000 models in the United States Keyboard for use on Compaq Presario V2000 models in French Canada Top cover for use on defeatured Compaq Presario V2000 models (includes TouchPad) Top cover for use on full-featured Compaq Presario V2000 models (includes TouchPad) Base enclosure Miscellaneous Plastics Kit Screw Kit for use on Compaq Presario V2000 models Logo Kit for use on Compaq Presario V2000 models Switch cover for use on Compaq Presario V2000 models with wireless capability (includes wireless button and light) Switch cover for use on Compaq Presario V2000 models without wireless capability (includes wireless button and light) Speaker assembly LED board (includes cable) 316 Maintenance and Service Guide Illustrated Parts Catalog Table 3-5 Spare Parts: Sequential Part Number Listing (Continued) Spare Part Number 394462-001 395364-001 Description Mini PCI 802.



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11b/g WLAN communications module 14.0-inch, WXGA display assembly for use on HP Special Edition L2000 models (includes wireless antenna boards and cables) 14.0-inch, WXGA, SVA with Brightview display assembly for use on HP Special Edition L2000 models (includes wireless antenna boards and cables) Keyboard for use on HP Special Edition L2000 models in the United States Top cover for use on full-featured HP Special Edition L2000 models (includes TouchPad) Screw Kit for use on HP Special Edition L2000 models Logo Kit for use on HP Special Edition L2000 models Switch cover for use on HP Special Edition L2000 models S-Video controller board (for use on defeatured models) 8X Max DVD-ROM drive for use on HP Special Edition L2000 models 24X DVD/CD-RW Combo Drive for use on HP Special Edition L2000 models 8X DVD±RW/R and CD-RW Combo Drive for use on HP Special Edition L2000 models 8X DVD±RW/R and CD-RW Dual Layer Combo Drive, LightScribe, for use on HP Special Edition L2000 models 395365-001 395366-001 395368-001 395369-001 395370-001 395371-001 395373-001 395728-001 395729-001 395730-001 395731-001 Maintenance and Service Guide 317 Illustrated Parts Catalog Table 3-5 Spare Parts: Sequential Part Number Listing (Continued) Spare Part Number 397345-001 397346-001 Description Mobile AMD Sempron 3300+ (2).

0-GHz) processor (includes thermal pad) AMD Turion 64 ML-32 (1.8-GHz) processor (includes thermal pad) 318 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 2.0-mm hex wrench for processor socket locking screw Flat-bladed screwdriver Tool kit--includes connector removal tool, loopback plugs, and case utility tool 4.2 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 notebook, place the subassembly (and all accompanying screws) away from the work area to prevent damage. Maintenance and Service Guide 41 Removal and Replacement Preliminaries 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 notebook, ensure that cables are placed in their proper locations during the reassembly process. Improper cable placement can damage the notebook. 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. 4.3 Preventing Damage to Removable Drives Removable drives are fragile components that must be handled with care. To prevent damage to the notebook, damage to a removable drive, or loss of information, observe the following precautions: Before removing or inserting a hard drive, shut down the notebook. If you are unsure whether the notebook is off or in hibernation, turn the notebook on, and then shut it down through the operating system. While handling a drive, avoid touching the connector. Avoid dropping drives from any height onto any surface. Avoid exposing a drive to temperature extremes or liquids. Circuitry design and structure determine the degree of sensitivity. Often the spark is neither felt nor heard, but damage occurs. 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. Handle these items only at static-free workstations. Avoid contact with pins, leads, or circuitry. When seated, wear a wrist strap connected to a grounded system. When standing, use foot straps and a grounded floor mat. Then contact Customer Care. Shut down the notebook. 2. Disconnect all external devices connected to the notebook. 3.

Disconnect the power cord. Remove the battery pack by following these steps: a. Turn the notebook upside down with the front toward you. b. Slide and hold the battery release latch 1 to the left.

(The front edge of the battery pack disengages from the notebook.) c. Lift the front edge of the battery pack 2 and swing it back. d. Remove the battery pack.

Removing the Battery Pack Reverse the above procedure to install the battery pack. Maintenance and Service Guide 55 Removal and Replacement Procedures 5.4 Hard Drive 1. Prepare the notebook for disassembly (refer to Section 5.3). Hard Drive Spare Part Number Information Include frame and connector. 5400-rpm 80-GB 60-GB 394358-001 394357-001 4200-rpm 100-GB 80-GB 60-GB 40-GB 394355-001 394354-001 394353-001 394356-001 56 Maintenance and Service Guide Removal and Replacement Procedures 2. Loosen the two PM2.0×6.0 captive screws 1 that secure the hard drive cover to the notebook.

3. Lift the right side of the cover 2 and swing it to the left. 4. Remove the hard drive cover. drive cover is included in the Miscellaneous The hardKit, spare part number 394368-001. Plastics Removing the Hard Drive Cover Maintenance and Service Guide 57 Removal and Replacement Procedures 5. Grasp the mylar tab 1 on the hard drive and lift the hard drive until it disconnects from the notebook. 6. Slide the hard drive 2 to the left and remove it from the hard drive bay. Removing the Hard Drive 58 Maintenance and Service Guide Removal and Replacement Procedures 7.

Remove the four PM3.0×4.0 screws 1 that secure the hard drive frame to the hard drive. 8. Lift the frame 2 straight up to remove it from the hard drive. 9. Slide the hard drive connector 3 off the hard drive. Removing the Hard Drive Frame and Connector Reverse the above procedure to install and reassemble the hard drive. Maintenance and Service Guide 59 Removal and Replacement Procedures 5.5 Notebook Feet The notebook feet are adhesive-backed rubber pads.

The feet are included in the Miscellaneous Plastics Kit, spare part 394368-001. The feet attach to the base enclosure as illustrated below. Replacing the Notebook Feet 510 Maintenance and Service Guide Removal and Replacement Procedures 5.6 Memory Module Memory Module Spare Part Number Information 1024-MB 512-MB 256-MB 394352-001 394351-001 394350-001 1.



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Prepare the notebook for disassembly (refer to Section 5.3). 2. Position the notebook with the rear panel toward you. Maintenance and Service Guide 511 Removal and Replacement Procedures 3. Loosen the two PM2.

0×6.0 captive screws 1 that secure the memory module compartment cover to the notebook. 4. Lift the rear edge of the memory module compartment cover 2 up, and then swing it forward. 5. Remove the memory module compartment cover. The memory module compartment cover is included in the Miscellaneous Plastics Kit, spare part number 394368-001. Removing the Memory Module Compartment Cover 512 Maintenance and Service Guide Removal and Replacement Procedures 6. Spread the retaining tabs 1 on each side of the memory module socket to release the memory module. (The side of the module opposite the socket rises away from the notebook.

) 7. Slide the module 2 away from the socket at an angle. @@@@ @ @3. @ @4. Remove the Mini PCI compartment cover. @ @5. @ @6. @ @ (The side of the module opposite the socket rises up). 7. @ @ @ @ @3.

Insert a thin tool, such as a paper clip 2, into the media tray release hole. (The optical drive media tray releases from the optical drive.) 4. Use the media tray frame to slide the optical drive 3 to the left. 5. Remove the optical drive. Removing the Optical Drive Reverse the above procedure to install an optical drive. 5-18 Maintenance and Service Guide Removal and Replacement Procedures 5.9 Switch Cover Switch Cover Spare Part Number Information For use on HP Special Edition L2000 models with wireless capability For use on HP Special Edition L2000 models without wireless capability For use on Compaq Presario V2000 models with wireless capability For use on Compaq Presario V2000 models without wireless capability 395371-001 395372-001 394371-001 394372-001 1. Prepare the notebook for disassembly (Section 5.

3). 2. Remove the two PM2.0×5.0 screws that secure the switch cover to the notebook. Removing the Switch Cover Screws Maintenance and Service Guide 5-19 Removal and Replacement Procedures 3. Turn the notebook display-side up with the front toward you. 4. Open the notebook as far as possible. 5. Insert a flat-blade screwdriver into the slots located behind the F1, F5, F11, and insert keys 1 and lift up on the front edge of the switch cover 2 until it disengages from the notebook. 6. Remove the switch cover. Removing the Switch Cover Reverse the above procedure to install the switch cover. 520 Maintenance and Service Guide Removal and Replacement Procedures 5.

10 Keyboard Keyboard Spare Part Number Information For use on HP Special Edition L2000 models in the United States For use on Compaq Presario V2000 models in French Canada For use on Compaq Presario V2000 models in the United States 395366-001 394363-121 394363-001 1. Prepare the notebook for disassembly (Section 5.3). 2. Remove the switch cover (Section 5.

9). 3. Remove the four PM2.0×4.0 screws that secure the keyboard to the notebook. Releasing the Keyboard Maintenance and Service Guide 521 Removal and Replacement Procedures 4. Swing the rear edge of the keyboard up and forward until it rests on the palm rest. Releasing the Keyboard 522 Maintenance and Service Guide Removal and Replacement Procedures 5. Release the ZIF connector 1 to which the keyboard cable is connected and disconnect the keyboard cable 2 from the system board. Disconnecting the Keyboard Cable 6.

Remove the keyboard. Reverse the above procedure to install the keyboard. Maintenance and Service Guide 523 Removal and Replacement Procedures 5.11 Display Assembly Display Assembly Spare Part Number Information For use on HP Special Edition L2000 models 14.0-inch, WXGA, SVA with Brightview 14.0-inch, WXGA For use on Compaq Presario V2000 models 14.0-inch, WXGA, SVA with Brightview 14.0-inch, WXGA 395365-001 395364-001 394349-001 394348-001 1. Prepare the notebook for disassembly (Section 5.3).

2. Remove the memory module compartment (Section 5.6) and Mini PCI compartment covers (Section 5.7). 524 Maintenance and Service Guide Removal and Replacement Procedures 3.

Disconnect the wireless antenna cables from the Mini PCI communications module. Disconnecting the Wireless Antenna Cables 4. Remove the switch cover (Section 5.9). 5.

Remove the keyboard (Section 5.10). 6. Turn the notebook display-side up with the front toward you. 7. Open the display as far as possible. Maintenance and Service Guide 525 Removal and Replacement Procedures 8. Disconnect the display cable from the system board 1. 9. Remove the tape 2 that secures the wireless antenna cables to the top cover.

10. Remove the cables from the clips 3 in the top cover. Disconnecting the Display Cable and Removing the Wireless Antenna Cables 526 Maintenance and Service Guide 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 notebook components. 11. Remove the four PM2.0×6.0 screws 1 that secure the display assembly to the notebook. 12. Remove the display assembly 2.

Removing the Display Assembly Reverse the above procedure to install the display assembly Maintenance and Service Guide 527 Removal and Replacement Procedures 5.12 Base Enclosure Base Enclosure Spare Part Number Information Base enclosure 394367-001 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components: Hard drive (Section 5.4) Switch cover (Section 5.

9) Keyboard (Section 5.10) Display assembly (Section 5.11) 2. Remove the fifteen PM2.0×8.

0 screws that secure the base enclosure to the notebook. Removing the Base Enclosure Screws, Part 1 528 Maintenance and Service Guide Removal and Replacement Procedures 3. Remove the three PM2.0×5.0 screws that secure the base enclosure to the notebook. Removing the Base Enclosure Screws, Part 2 Maintenance and Service Guide 529 Removal and Replacement Procedures 4. Lift the base enclosure straight up and remove it. Removing the Base Enclosure Reverse the above procedure to install the base enclosure. 530 Maintenance and Service Guide Removal and Replacement Procedures 5.13 USB/S-Video Controller Board USB/S-Video Controller Board Spare Part Number Information USB/S-Video controller board (for use on full-featured models) S-Video controller board (for use on defeatured models) 394303-001 395373-001 When replacing the USB/S-Video controller board, be sure to remove the Bluetooth module from the defective USB/S-Video controller board and replace it on the replacement USB/S-Video controller board.

See Section 5.14, "Bluetooth Module," for Bluetooth module replacement instructions. 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components: Hard drive (Section 5.



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4) Switch cover (Section 5.9) Keyboard (Section 5.10) Display assembly (Section 5.11) Base enclosure (Section 5.12) Maintenance and Service Guide 531 Removal and Replacement Procedures 2.

Remove the two PM2.0×5.0 screws 1 that secure the USB/S-Video controller board to the top cover. 3. Lift up on the right side of the board 2 to disconnect it from the system board.

4. Remove the USB/S-Video controller board. Removing the USB/S-Video Controller Board Reverse the above procedure to install the USB/S-Video controller board. 532 Maintenance and Service Guide Removal and Replacement Procedures 5.14 Bluetooth Module Bluetooth Module Spare Part Number Information Broadcomm Bluetooth WLAN module 394254-001 1.

Prepare the notebook for disassembly (Section 5.3) and remove the following components: Hard drive (Section 5.4) Switch cover (Section 5.9) Keyboard (Section 5.10) Display assembly (Section 5.11) Base enclosure (Section 5.12) USB/S-Video controller board (Section 5.13) Maintenance and Service Guide 5-33 Removal and Replacement Procedures 2. Turn the USB/S-Video controller board upside down with the USB port facing you. 3.

Remove the two PM1.5×3.5 screws 1 that secure the Bluetooth module to the USB/S-Video controller board. 4. Disconnect the Bluetooth module cable 2 from the USB/S-Video controller board. 5. Remove the Bluetooth module 3. Removing the Bluetooth Module Reverse the above procedure to install the Bluetooth module. 534 Maintenance and Service Guide Removal and Replacement Procedures 5.15 Speaker Assembly Speaker Assembly Spare Part Number Information Speaker assembly 394373-001 1.

Prepare the notebook for disassembly (Section 5.3) and remove the following components: Hard drive (Section 5.4) Switch cover (Section 5.9) Keyboard (Section 5.10) Display assembly (Section 5.11) Base enclosure (Section 5.12) Maintenance and Service Guide 535 Removal and Replacement Procedures 2. Disconnect the speaker cable 1 from the system board. 3. Lift the speaker 2 straight up to remove it from the top cover.

11) Base enclosure (Section 5.12) Maintenance and Service Guide 535 Removal and Replacement Procedures 2. Disconnect the speaker cable 1 from the system board. 3. Lift the speaker 2 straight up to remove it from the top cover.

Removing the Speaker Assembly Reverse the above procedure to install the speaker assembly. 5.16 RTC Battery with all system The RTC battery is included "System Board," board spare part kits. Refer to Section 5.19, for spare part number information. 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components: Hard drive (Section 5.4) Switch cover (Section 5.9) Keyboard (Section 5.10) Display assembly (Section 5.11) Base enclosure (Section 5.12) 536 Maintenance and Service Guide Removal and Replacement Procedures 2. Remove the RTC battery from the socket on the system board. Removing the RTC Battery Reverse the above procedure to install the RTC battery. Make sure the battery is installed with the "+" side facing up. Maintenance and Service Guide 537 Removal and Replacement Procedures 5.17 Fan Assembly Fan Assembly Spare Part Number Information Fan assembly (includes heat sink and thermal pad 394298-001 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components: Hard drive (Section 5.4) Switch cover (Section 5.9) Keyboard (Section 5.10) Display assembly (Section 5.11) Base enclosure (Section 5.12) 538 Maintenance and Service Guide Removal and Replacement Procedures 2.

10) Display assembly (Section 5.11) Base enclosure (Section 5.12) 536 Maintenance and Service Guide Removal and Replacement Procedures 2. Remove the RTC battery from the socket on the system board. Removing the RTC Battery Reverse the above procedure to install the RTC battery. Make sure the battery is installed with the "+" side facing up. Maintenance and Service Guide 537 Removal and Replacement Procedures 5.17 Fan Assembly Fan Assembly Spare Part Number Information Fan assembly (includes heat sink and thermal pad 394298-001 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components: Hard drive (Section 5.4) Switch cover (Section 5.9) Keyboard (Section 5.10) Display assembly (Section 5.11) Base enclosure (Section 5.12) 538 Maintenance and Service Guide Removal and Replacement Procedures 2.

4) Switch cover (Section 5.9) Keyboard (Section 5.10) Display assembly (Section 5.11) Base enclosure (Section 5.12) 538 Maintenance and Service Guide Removal and Replacement Procedures 2.

Disconnect the fan cable 1 from the system board. 3. Remove the PM2.0×5.0 screw 2 that secures the fan assembly to the system board.

4. Loosen the four PM1.5×9.0 captive spring-loaded shoulder screws 3 that secure the fan assembly to the system board. 5. Remove the fan assembly 4. Removing the Fan Assembly Reverse the above procedure to install the fan assembly. Maintenance and Service Guide 539 Removal and Replacement Procedures 5.18 Processor Processor Spare Part Number Information AMD Turion 64 ML-37 (2.0-GHz) processor AMD Turion 64 ML-34 (1.8-GHz) processor AMD Turion 64 ML-32 (1.8-GHz) processor AMD Turion 64 ML-30 (1.6-GHz) processor AMD Turion 64 ML-28 (1.6-GHz) processor Mobile AMD Sempron 3300+ (2.0-GHz) processor Mobile AMD Sempron 3000+ (1.8-GHz) processor Mobile AMD Sempron 2800+ (1.6-GHz) processor 394347-001 394259-001 397346-001 394258-001 394257-001 397345-001 394256-001 394255-001 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components: Hard drive (Section 5.4) Switch cover (Section 5.9) Keyboard (Section 5.10) Display assembly (Section 5.11) Base enclosure (Section 5.12) Fan assembly (Section 5.17) 540 Maintenance and Service Guide Removal and Replacement Procedures 2.

8-GHz) processor AMD Turion 64 ML-32 (1.8-GHz) processor AMD Turion 64 ML-30 (1.6-GHz) processor AMD Turion 64 ML-28 (1.6-GHz) processor Mobile AMD Sempron 3300+ (2.0-GHz) processor Mobile AMD Sempron 3000+ (1.8-GHz) processor Mobile AMD Sempron 2800+ (1.6-GHz) processor 394347-001 394259-001 397346-001 394258-001 394257-001 397345-001 394256-001 394255-001 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components: Hard drive (Section 5.4) Switch cover (Section 5.9) Keyboard (Section 5.10) Display assembly (Section 5.11) Base enclosure (Section 5.12) Fan assembly (Section 5.17) 540 Maintenance and Service Guide Removal and Replacement Procedures 2.

9) Keyboard (Section 5.10) Display assembly (Section 5.11) Base enclosure (Section 5.12) Fan assembly (Section 5.17) 540 Maintenance and Service Guide Removal and Replacement Procedures 2.

Use a 2.0-mm hex wrench to turn the processor locking screw 1 one-half turn counterclockwise until you feel a click. 3. Lift the processor 2 straight up and remove it. triangle 3 processor should be The goldcorner whenon theinstall the processor.

aligned in the left-rear you Removing the Processor Reverse the above procedure to install a processor. Maintenance and Service Guide 541 Removal and Replacement Procedures 5.19 System Board System Board Spare Part Number Information ATI RS480M, for use on full-featured models ATI RS480M, for use on defeatured models 394253-001 394252-001 All system board spares kits include a disk cell RTC battery. the system board, the following When replacing removed from the ensure thatsyste 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 5.16) Fan assembly (Section 5.17) Processor (Section 5.18) 542 Maintenance and Service Guide Removal and Replacement Procedures 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components: Hard drive (Section 5.4) Optical drive (Section 5.8) Switch cover (Section 5.9) Keyboard (Section 5.10) Display assembly (Section 5.11) Base enclosure (Section 5.12) USB/S-Video controller board (Section 5.13) Speaker assembly (Section 5.15) 2. Turn the top cover right-side up with the front toward you.

3) and remove the following components: Hard drive (Section 5.4) Optical drive (Section 5.8) Switch cover (Section 5.9) Keyboard (Section 5.10) Display assembly (Section 5.11) Base enclosure (Section 5.12) USB/S-Video controller board (Section 5.13) Speaker assembly (Section 5.15) 2. Turn the top cover right-side up with the front toward you.

3. Release the ZIF connector 1 to which the TouchPad cable is connected and disconnect the cable 2 from the system board. Disconnecting the TouchPad Cable Maintenance and Service Guide 543 Removal and Replacement Procedures 4. Turn the top cover upside down with the front toward you. 5. Release the ZIF connector 1 to which the LED board cable is connected and disconnect the cable 2 from the system board. 6. Remove the four PM2.0×5.0 screws 3 that secure the system board to the top cover.

Disconnecting the LED Board Cable and Removing the System Board Screws 544 Maintenance and Service Guide Removal and Replacement Procedures 7. Flex and hold the left edge of the top cover 1 to the left. 8. Lift the left side of the system board 2 until the USB 3 and 1394 connectors 4 are clear.



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Releasing the System Board, Part 1 9. Release the left edge of the top cover. 10. Flex and hold the front edge of the top cover 1 forward. 11. Lift the front of the system board 2 until the audio connectors 3 are clear.

Releasing the System Board, Part 2 Maintenance and Service Guide 545 Removal and Replacement Procedures 12. Release the front edge of the top cover. 13. Slide the system board to the left at an angle and remove it from the top cover. Removing the System Board Reverse the above procedure to install the system board. 546 Maintenance and Service Guide Removal and Replacement Procedures 5.20 LED Board LED Board Spare Part Number Information LED board (includes cable) 394374-001 1. Prepare the notebook for disassembly (Section 5.3) and remove the following components: Optical drive (Section 5.8) Switch cover (Section 5.

9) Keyboard (Section 5.10) Display assembly (Section 5.11) Base enclosure (Section 5.12) USB/S-Video controller board (Section 5.13) Speaker assembly (Section 5.

15) System board (Section 5.19) 2. Turn the notebook upside down with the front toward you. Maintenance and Service Guide 547 Removal and Replacement Procedures 3. Release the ZIF connector 1 to which the LED board cable is connected and disconnect the cable 2 from the system board.

4. Remove the two PM2.0x5.0 screws 3 that secure the LED board to the top cover. 5. Remove the LED board 4. Removing the LED Board Screws Reverse the above procedure to install the LED board. 548 Maintenance and Service Guide 6 Specifications This chapter provides physical and performance specifications. Table 6-1 Notebook Dimensions Height (varies from front to back) Width Depth Weight (varies by configuration) Stand-alone power requirements Nominal operating voltage Peak operating power Temperature Operating Nonoperating Relative humidity (noncondensing) Operating Nonoperating 10% to 90% 5% to 95%, 38.7°C (101.

6°F) maximum wet bulb temperature 10°C to 35°C -20°C to 60°C 50°F to 95°F -4°F to 140°F 18.5 V DC at 3.5 A - 65 W 3.5 A 3.29 cm to 3.89 cm 23.06 cm 33.40 cm 2.39 kg 1.30 in to 1.

53 in 9.08 in 13.15 in 5.26 lb product safety standards specify for plastic ApplicableThe notebook operates well within thermal limits temperatures. surfaces. this range of Maintenance and Service Guide 61 Specifications Table 6-1 Notebook (Continued) Maximum altitude (unpressurized) Operating (14.7 to 10.1 psia) Nonoperating (14.7 to 4.4 psia) Shock Operating Nonoperating Random Vibration Operating Nonoperating 0.

75 g zero-to-peak, 10 Hz to 500 Hz, 0.25 oct/min sweep rate 1.50 g zero-to-peak, 10 Hz to 500 Hz, 0.5 oct/min sweep rate 125 g, 2 ms, half-sine 200 g, 2 ms, half-sine -15 m to 3,048 m -15 m to 12,192 m -50 ft to 10,000 ft -50 ft to 40,000 ft product safety standards specify for plastic ApplicableThe notebook operates well within thermal limits temperatures. surfaces. this range of 62 Maintenance and Service Guide Specifications Table 6-2 14.0-inch, WXGA, SVA Display Dimensions Height Width Diagonal Number of colors Contrast ratio Brightness Pixel resolution Pitch Format Configuration Backlight Character display Total power consumption Viewing angle 0.279 x 0.279 mm 1280 x 768 RGB vertical stripe Edge lit 80 x 25 4W +/-40° horizontal, +20/-40° vertical typical 27.94 cm 20.

83 cm 35.56 cm Up to 16.8 million 250:1 180 nits typical 11.0 in 8.2 in 14.0 in Maintenance and Service Guide 63 Specifications Table 6-3 Hard Drives 80-GB Dimensions Height Width Weight Interface type Transfer rate Synchronous (maximum) Security 100 MB/sec ATA security 100 MB/sec ATA security 100 MB/sec ATA security 100 MB/sec ATA security 9.5 mm 70 mm 99 g ATA-5 9.5 mm 70 mm 102 g ATA-5 9.5 mm 70 mm 99 g ATA-5 9.5 mm 70 mm 99 g ATA-5 60-GB 60-GB 40-GB Seek times (typical read, including setting) Single track Average Maximum Logical blocks Disc rotational speed Operating temperature 3 ms 13 ms 24 ms 3 ms 13 ms 24 ms 3 ms 13 ms 24 ms 3 ms 13 ms 24 ms 156,301,488 117,210,240 117,210,240 78,140,160 5400 rpm 5400 rpm 4200 rpm 4200 rpm 5°C to 55°C (41°F to 131°F) Certain restrictions and exclusions apply.

Consult Customer Care for details. *1 GB = 1 billion bytes when referring to hard drive storage capacity. Accessible capacity is less. Actual drive specifications may differ slightly. 64 Maintenance and Service Guide Specifications Table 6-4 Primary 6-cell, Li-Ion Battery Pack Dimensions Height Width Depth Weight Energy Voltage Amp-hour capacity Watt-hour capacity Temperature Operating Nonoperating 5°C to 45°C 0°C to 60°C 41°F to 113°F 32°F to 140°F 11.

1 V 4.4 Ah 48 Wh 2.00 cm 9.40 cm 13.40 cm 0.

34 kg 0.79 in 3.70 in 5.28 in 0.75 lb Maintenance and Service Guide 65 Specifications Table 6-5 DVD/CD-RW Combo Drive Applicable disc Read: Write: DVD-R, DVD-RW, CD-R and CD-RW DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), CD-ROM (Mode 1 and 2) CD Digital Audio CD-XA ready (Mode 2, Form 1 and 2) CD-I ready (Mode 2, Form 1 and 2) CD-R, CD-RW Photo CD (single and multisession) CD-Bridge 1.5 cm (0.59 in) Center hole diameter Disc diameter Standard disc Mini disc 12 cm (4.72 in) 8 cm (3.15 in) 66 Maintenance and Service Guide Specifications Table 6-5 DVD/CD-RW Combo Drive (Continued) Disc thickness Track pitch Access time Random Full stroke Audio output level Cache buffer Data transfer rate CD-R (24X) CD-RW (10X) CD-ROM (24X) DVD (8X) Multiword DMA mode 2 Startup time Stop time 3600 KB/s (150 KB/s at 1X CD rate) 1500 KB/s (150 KB/s at 1X CD rate) 3600 KB/s (150 KB/s at 1X CD rate) 10,800 KB/s (1,352 KB/s at 1X DVD rate) 16.6 MB/s < 15 seconds < 6 seconds 1.

2 mm (0.047 in) 0.74 µm CD media < 110 ms < 210 ms Line-out, 0.7 V rms 2 MB DVD media < 130 ms < 225 ms Maintenance and Service Guide 67 Specifications Table 6-6 DVD±RW/R and CD-RW Combo Drive Applicable disc Read: Write: DVD-R, DVD-RW, CD-R and CD-RW DVD-ROM (DVD-5, DVD-R and DVD-RW DVD-9, DVD-10, DVD-18), CD-ROM (Mode 1 and 2) CD Digital Audio CD-XA ready (Mode 2, Form 1 and 2) CD-I ready (Mode 2, Form 1 and 2) CD-R, CD-RW Photo CD (single and multisession) CD-Bridge 1.5 cm (0.59 in) Center hole diameter Disc diameter Standard disc Mini disc 12 cm (4.72 in) 8 cm (3.15 in) 68 Maintenance and Service Guide Specifications Table 6-6 DVD±RW/R and CD-RW Combo Drive (Continued) Disc thickness Track pitch Access time Random Full stroke Audio output level Cache buffer Data transfer rate CD-R (16X) CD-RW (8X) CD-ROM (24X) DVD (8X) DVD-R (4X) DVD-RW (2X) Multiword DMA mode 2 Startup time Stop time 2,400 KB/s (150 KB/s at 1X CD rate) 1,200 KB/s (150 KB/s at 1X CD rate) 3,600 KB/s (150 KB/s at 1X CD rate) 10,800 KB/s (1,352 KB/s at 1X DVD rate) 5,400 KB/s (1,352 KB/s at 1X DVD rate) 2,700 KB/s (1,352 KB/s at 1X DVD rate) 16.



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