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Book Descriptions:

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It provides comprehensive information on identifying computer features, components, and spare parts; troubleshooting computer problems; and performing computer disassembly procedures. 1 2 3. 236 Summary of content 236 pages Page 1 Maintenance and Service Guide HP Compaq nw8440 Notebook PC HP Compaq nc8430 Notebook PC HP Compaq nx8420 Notebook PC Document Part Number 417790002 September 2006 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. Intel and Core are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. Bluetooth is a trademark owned by its proprietor and used by HewlettPackard Company under license. SD Logo is a trademark of its proprietor. Java is a trademark of Sun Microsystems Inc. These steps also clear CMOS. The stringent security option has been enabled in the BIOS. If stringent security is enabled, the system board must be replaced to reset an unknown password. Refer to Section 5.23, "Serial Connector Module," for more information on replacing the system board. Page 12 Product Description 1.3 Power Management The computer comes with power management features that extend battery operating time and conserve power. When the battery reaches a critical low battery condition, the battery light begins blinking more quickly. Page 15 Product Description The external components on the right side of the computer are shown below and described in Table 12. RightSide Components Table 12 RightSide Components Item Component Function 1 Audio out headphone jack Produces computer sound when connected to optional power stereo speakers, headphones, ear buds, a headset, or television audio. <http://profcareer.ru/UserFiles/casio-ct-615-manual-pdf.xml>

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Page 16 Product Description The external components on the rear panel of the computer are shown below and described in Table 13. Rear Panel Components Table 13 Rear Panel Components Item Component Function 1 Battery bay Holds a battery. 2 Smart adapter power connector Connects an AC adapter or an optional power adapter. 3 External monitor port Connects an optional VGA external monitor or projector. Page 17 Product Description The external components on the left side of the computer are shown below and described in Table 14. LeftSide Components Table 14 LeftSide Components Item Component Function 1 Security cable slot Attaches an optional security cable to the computer. A Security solutions are designed to act as deterrents. These deterrents may not prevent a product from being mishandled or stolen. 2 RJ45 network jack Connects an optional network cable. Page 18 Product Description Table 14 LeftSide Components Continued Item Component Function 5 Exhaust vent Provides airflow to cool internal components. A To prevent overheating, do not obstruct vents. Use the computer only on a hard, flat surface. Do not allow a hard surface, such as an adjoining printer, or a soft surface, such as pillows or thick rugs or clothing, to block airflow. 6 1394 port Connects an optional 1394a device such as a scanner, digital camera, or digital camcorder. Page 19 Product Description The standard keyboard components of the computer are shown below and described in Table 15. Page 20 Product Description Table 15 Standard Keyboard Components Item Component Function 1 f1 to f12 keys 12 Perform system and application tasks. When combined with the fn key, several keys and buttons perform additional tasks as hotkeys. 2 caps lock key Enables caps lock and turns on the caps lock light. 3 fn key Executes frequently used system functions when pressed in combination with a function key or the esc key. 4 Windows logo

key In Windows, displays the Windows Start menu. <http://sksound.com/userfiles/casio-ct-700-manual-pdf.xml>

If the system has stopped responding and Windows shutdown procedures cannot be used, press and hold for 5 seconds to turn off the computer. Page 25 Product Description The external components on the bottom of the computer are shown below and described in Table 18. Page 26 Product Description Table 18 Bottom Components Item Component Function 1 Battery bay Holds the battery. 2 Battery release latches 2 Secure the battery in the battery bay. 3 Accessory battery connector Connects an optional HP UltraCapacity Battery or HP Extended Life Battery. 4 Memory module compartment Contains one memory slot that supports replaceable memory modules. 5 Hard drive bay Holds the primary hard drive. Page 27 Product Description 1.5 Design Overview This section presents a design overview of key parts and features of the computer. Refer to Chapter 3, "Illustrated Parts Catalog," to identify replacement parts, and Chapter 5, "Removal and Replacement Procedures," for disassembly steps. Page 28 2 Troubleshooting A WARNING Only authorized technicians trained by HP should repair this equipment. 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. Page 29 Troubleshooting 2. Select the Main, Security, Advanced, or Tools menu. 3. To close Computer Setup and restart the computer. Page 30 Troubleshooting Selecting from the Security Menu Table 22 Security Menu Select To Do This Administrator Password Enter, change, or delete an Administrator password. Poweron Password Enter, change, or delete a poweron password. Settings are accessible only. DriveLock when you enter Computer Setup by turning on not restarting the computer. Page 31 Troubleshooting Selecting from the Advanced Menu Table 23 Advanced Menu Select To Do This Language Change the Computer Setup language.

Accessibility Options Allows electronic and information technology to be accessible to people with varying ranges of abilities. Video Memory Displays the amount of video memory available on the computer. N Go to Is there power "Flowchart 2.2—No Power, Part 1." Y N Check LED board, speaker connections. Beeps, LEDs, or error messages. N Y Go to All drives working. Y N Go to Is the OS loading. N Go to Is there sound. Y "Flowchart 2.9—No Operating System OS Loading." Y "Flowchart 2.15—No Audio, Part 1. Page 35 Troubleshooting Flowchart 2.2—No Power, Part 1 No power power LED is off. Remove from docking device if applicable. N N Power up on battery power. Go to Power up on battery power. Power up on AC power. Y Power on Done N Check battery by recharging it, moving it to another computer, or replacing it. N Replace power supply if applicable. Power on Y N Go to Done Power on "Flowchart 2.4—No Power, Part 3. Page 37 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 N External N Try different outlet. Power outlet active. Y Internal or external AC adapter. Replace external AC adapter. N Internal Go to "Flowchart 2.5—No Power, Part 4." Replace power cord. Page 38 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 Reseat loose components and boards and replace damaged items. Close computer and retest. N Power on Replace the following items if applicable. Page 39 Troubleshooting Flowchart 2.6—No Video, Part 1 No video. Y Adjust brightness. A Adjust brightness. Press lid switch to ensure operation. Y Video OK Done N Internal External Video OK. Y Video OK Done N Done N Replace the following one at a time. Test after each replacement. 1. Page 40 Troubleshooting Flowchart 2.7—No Video, Part 2 Continued from "Flowchart 2.

<http://superbia.lgbt/flotaganis/1649527683>

6—No Video, Part 1." Remove computer from docking device, if connected. Adjust display brightness. Check brightness of external monitor. N Y Go to "A" in "Flowchart 2.6—No Video, Part

1." Video OK Y Video OK Done N Check that computer is properly seated in docking device, for bent pins on cable, and for monitor connection. Try another external monitor. Page 41 Troubleshooting Flowchart 2.8—Nonfunctioning Docking Device if applicable Nonfunctioning docking device. Reset power cord in docking device and power outlet. Check voltage setting on docking device. Reset monitor cable connector at docking device. Reinstall computer into docking device. Y Docking device operating. N Y Docking device operating. Page 43 Troubleshooting Flowchart 2.10—No OS Loading, Hard Drive, Part 1 OS not loading from hard drive. Y Nonsystem disk message. N Go to "Flowchart 2.11—No OS Loading, Hard Drive, Part 2." Reseat external hard drive. Y OS loading Done N N Boot from CD. N Y Boot from diskette. Check the Setup utility for correct booting order. Y Change boot priority through the Setup Utility and reboot. N Boot from hard drive. N Y Boot from hard drive. CD or diskette in drive. Y Hard drive accessible. Y Done N Remove diskette and reboot. Run FDISK. Y Boot from hard drive. N Done N Hard drive partitioned. Y N Y N Go to "Flowchart 2.13—No OS Loading, Diskette Drive. Page 45 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 Y Virus on hard drive. OS loading from hard drive. Clean virus. N Done N Y Run SCANDISK and check for bad sectors. Diagnostics on diskette. Replace hard drive. N N Can bad sectors be fixed. Run diagnostics and follow recommendations. Replace hard drive. Y N Boot from hard drive. Fix bad sectors. Page 46 Troubleshooting Flowchart 2.13—No OS Loading, Diskette Drive Y OS not loading from diskette drive. Reseat diskette drive.

<http://ambingenieria.com/images/cadex-c8000-user-manual.pdf>

OS loading Done N N Y Bootable diskette in drive. Nonsystem disk message. N Y N Check diskette for system files. Try different diskette. Go to Boot from another device "Flowchart 2.17—Nonfunctioning Device." Y Y N Diskette drive enabled in the Setup Utility 1. Replace diskette drive. 2. Replace system board. Nonsystem disk error. Enable drive and cold boot computer. Page 47 Troubleshooting Flowchart 2.14—No OS Loading, Optical Drive Y No OS loading from CDROM or DVDROM drive. N Install bootable disc and reboot computer. Bootable disc in drive. Disc in drive N Y Install bootable disc. Try another bootable disc. Y Boots from CD or DVD. Done N Y Boots from CD or DVD. Reseat drive. Done N N Booting from another device. Y Y Booting order correct. N Go to "Flowchart 2.17—Nonfunctioning Device." Reset the computer. Refer to Go to Section 1. Page 48 Troubleshooting Flowchart 2.15—No Audio, Part 1 Y Turn up audio internally or externally. No audio. Audio Done N N Y Computer in docking device if applicable. Go to Internal audio. Undock N "Flowchart 2.16—No Audio, Part 2." Y Go to Replace the docking device. "Flowchart 2.16—No Audio, Part 2." Y Go to "Flowchart 2.17—Nonfunctioning Device. Page 49 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. Y Audio Done N 1. Replace internal speakers. 2. Replace audio board if applicable. 3. Replace system board. Page 50 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. Fix or replace broken item. Any physical device detected. N Reattach device.

<http://www.gasparedicaro.com/images/cadi-thermometer-manual.pdf>

Close computer, plug in power, and reboot. Go to "Flowchart 2.9—No Operating System OS Loading." Replace hard drive. N Device boots properly. N Replace NIC. Page 51 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 Replace internal keyboard or cable. OK Y Y OK Done Done N Replace system board. Page 52 Troubleshooting Flowchart 2.19—Nonfunctioning Pointing Device Pointing

device not operating properly. Connect computer to good external pointing device. N Replace system board. External device works. Y Reseat internal pointing device connector if applicable. N Replace internal pointing device or cable. N Network or modem jack active. Replace jack or have jack activated. Y Y Connect to nondigital line. Reload drivers and reconfigure. Done OK N Y Disconnect all power from the computer and open. OK Done N Replace system board. Page 54 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. These countries are categorized as most of the world MOW 2.As 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. Page 85 Removal and Replacement Preliminaries 4.3 Preventing Damage to Removable Drives Removable drives are fragile components that must be handled with care. 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. Page 86 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. To provide proper ground, wear a strap snugly against the skin at all times. On grounded mats with bananaplug connectors, use alligator clips to connect a wrist strap. Page 90 Removal and Replacement Preliminaries Table 41 shows how humidity affects the electrostatic voltage levels generated by different activities. Page 91 5 Removal and Replacement Procedures This chapter provides removal and replacement procedures. There are as many as 72 screws and screw locks, in 14 different sizes and types, that may have to be removed, replaced, or loosened when servicing the computer. Make special note of each screw and screw lock size and location during removal and replacement. Refer to Appendix A, "Screw Listing," for detailed information on screw and screw lock sizes, locations, and usage. Page 92 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. Page 93 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. Page 95 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 Spare Part Number Information 8cell, 4.

8Ahr 372771001 4. Remove the battery by following these steps a. Page 96 Removal and Replacement Procedures 5.4 Hard Drive Hard Drive Spare Part Number Information 7200 rpm 100 GB 80 GB 416415001 417507001 5400 rpm 120 GB 100 GB 80 GB 60 GB 416414001 413853001 413852001 413851001 1. Prepare the computer for disassembly Section 5.3. Page 97 Removal and Replacement Procedures 2. Loosen the two Phillips PM2.05.0 screws 1 that secure the hard drive cover to the computer. 3. Lift the left side of the hard drive cover 2 and swing it to the right. 4. Remove the hard drive cover.The number 417527001. Page 98 Removal and Replacement Procedures 5. Loosen the Phillips PM2.513.0 springloaded hard drive retention screw 1. 6. Grasp the mylar tab 2 on the left side of the hard drive and slide the hard drive to the right 3 to disconnect it from the system board. 7. Remove the hard drive 4 from the hard drive bay. Page 99 Removal and Replacement Procedures 8. Remove the four Phillips PM3.03.0 screws 1 that secure the hard drive frame to the hard drive. 9. Lift the frame 2 straight up to remove if from the hard drive. Removing the Hard Drive Frame Reverse the above procedure to reassemble and install the hard drive. Page

100 Removal and Replacement Procedures 5.5 Computer Feet The computer feet are adhesivebacked rubber pads. The feet are included in the Plastics Kit, spare part number 417527001. Page 103 Removal and Replacement Procedures 5.7 External Memory Module Memory Module Spare Part Number Information PC25300 2048 MB 1024 MB 512 MB 256 MB 417506001 414046001 414045001 414044001 PC24200 2048 MB 1024 MB 512 MB 256 MB 417505001 414042001 414041001 414040001 1. Prepare the computer for disassembly refer to Section 5.3. 2. Position the computer with the front toward you. Page 104 Removal and Replacement Procedures 3. Loosen the Phillips PM2.04.0 screw 1 that secures the memory module compartment cover to the computer. 4.

Lift the right side of the cover 2 and swing it up and to the left. 5. Remove the memory module compartment cover. The Plastics Kit, spare part number 417527001. Page 105 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 computer. 7. Slide the module 2 away from the socket at an angle. 8. Remove the memory module. Memory incorrect installation into the memory module socket. Removing the External Memory Module Reverse the above procedure to install an external memory module. Page 106 Removal and Replacement Procedures 5.8 Bluetooth Module Bluetooth Module Spare Part Number Information Bluetooth module includes Bluetooth module cable 398393001 1. Prepare the computer for disassembly refer to Section 5.3. 2. Position the computer with the right side toward you. 3. Loosen the Phillips PM1.53.0 screw 1 that secures the Bluetooth module cover to the computer. 4. Remove the Bluetooth module cover 2 from the computer. Page 107 Removal and Replacement Procedures 6. Remove the two Phillips PM1.53.0 screws 1 that secure the Bluetooth module to the Bluetooth module cover. 7. Remove the Bluetooth module 2 from the cover. 8. Disconnect the Bluetooth module cable 3 from the module. Removing the Bluetooth Module Cover Reverse the above procedure to install a Bluetooth module. Page 108 Removal and Replacement Procedures 5. Page 109 Removal and Replacement Procedures Keyboard Spare Part Number Information Continued Keyboards without pointing stick for use in Brazil Japan Korea Latin America 416417201 416417291 416417AD1 416417161 Taiwan Thailand The United States 416417AB1 416417281 416417001 1. Prepare the computer for disassembly Section 5.3. 2. Position the computer with the front toward you. 3. Remove the two Torx8 T8M2.510.0 screws that secure the keyboard to the computer. Page 110 Removal and Replacement Procedures 4.

Turn the computer display side up with the front toward you. 5. Open the computer as far as possible. 6. Slide the four keyboard retention tabs 1 toward you. The tabs are located between the esc and f1 keys, between the f4 and f5 keys, between the f8 and f9 keys, and between the f12 and delete keys. 7. Lift the rear edge of the keyboard 2 and swing it toward you until it rests on the palm rest. Page 111 Removal and Replacement Procedures 8. Release the zero insertion force ZIF connector 1 to which the keyboard cable is connected and disconnect the keyboard cable 2 from the system board. Step 9 applies to models with keyboards with pointing sticks. 9. Release the ZIF connector 3 to which the pointing stick cable is connected and disconnect the pointing stick cable 4 from the system board. Disconnecting the Keyboard and Pointing Stick Cables 10. Remove the keyboard. Page 112 Removal and Replacement Procedures 5.10 Fan Assembly Fan Assembly Spare Part Number Information Fan assembly 416409001 1. Prepare the computer for disassembly Section 5.3. 2. Release the keyboard Section 5.9. Page 113 Removal and Replacement Procedures 3. Disconnect the fan cable 1 from the system board. The 1, 2, 3, 4 sequence stamped on the fan assembly. 4. Loosen the two Phillips PM2.03.0 screws 2 and the two Phillips PM2.57.0 screws 3 that secure the fan assembly to the computer. 5. Remove the fan assembly 4. Page 114 Removal and Replacement Procedures thermal paste should be thoroughly cleaned from the. The surfaces of the video board 1 and video heat sink 2 each time the fan assembly is removed. Thermal paste is included with all fan assembly and system board spare part kits. Page 115 Removal and

Replacement Procedures following screws should be removed, then installed, in the. The 1, 2, 3, 4 sequence stamped on the thermal plate. 6. Remove the four Torx8 T8M2.56.0 screws 1 that secure the thermal plate to the computer. 7. Remove the thermal plate 2.

to the adhesive quality of the thermal paste located. Due between the thermal plate and video board, it may be necessary to move the thermal plate from side to side to detach the thermal plate from the video board. Page 116 Removal and Replacement Procedures thermal paste should be thoroughly cleaned from the. The surfaces of the thermal plate 1 and video board 2 each time the thermal plate is removed. Replacing the Thermal Paste Reverse the above procedure to install the fan assembly and thermal plate. Page 117 Removal and Replacement Procedures 5.11 Heat Sink Heat Sink Spare Part Number Information Heat sink includes thermal paste 416408001 1. Prepare the computer for disassembly Section 5.3. 2. Release the keyboard Section 5.9. 3. Remove the fan assembly Section 5.10. Page 118 Removal and Replacement Procedures following screws should be loosened and installed in the. The 1, 2, 3, 4 sequence stamped on the heat sink. 4. Loosen the four Phillips PM2.58.0 shoulder screws 1 that secure the heat sink to the computer. Due between the heat sink and processor, it may be necessary to move the heat sink from side to side to detach the heat sink from the processor. 5. Page 119 Removal and Replacement Procedures thermal paste should be thoroughly cleaned from the. The surfaces of the heat sink 1 and processor 2 each time the heat sink is removed. Thermal paste is included with all heat sink and processor spare part kits. Replacing the Thermal Paste Reverse the above procedure to install the heat sink. The the triangle icon 4 embossed on the processor socket when you install the processor. Removing the Processor Reverse the above procedure to install the processor. Memory incorrect installation into the memory module socket. Page 124 Removal and Replacement Procedures 5.14 RTC Battery RTC battery is included in the Plastics Kit, spare part. The number 417527001. 1. Prepare the computer for disassembly Section 5.3. 2. Release the keyboard Section 5.9. 3.

Remove the RTC battery from the clip in the top cover. Removing the RTC Battery Reverse the above procedure to install an RTC battery. Page 125 Removal and Replacement Procedures 5.15 TouchPad TouchPad Spare Part Number Information TouchPad with 3 TouchPad buttons TouchPad with 2 TouchPad buttons 382675001 382676001 1. Prepare the computer for disassembly Section 5.3. 2. Remove the keyboard Section 5.9. 3. Turn the computer upside down with the front toward you. 4. Remove the Torx8 T8M2.510.0 screw that secures the TouchPad to the computer. Page 126 Removal and Replacement Procedures 5. Turn the computer displayside up with the front toward you. 6. Open the computer as far as possible. 7. Lift up on the rear edge of the TouchPad 1 until it disengages from the computer. 8. Slide the TouchPad back 2 until it rests on the computer. Page 127 Removal and Replacement Procedures 9. Disconnect the TouchPad cable 1 from the system board. 10. Remove the TouchPad 2. Removing the TouchPad Reverse the above procedure to install the TouchPad. Page 129 Removal and Replacement Procedures Mini Card Module Spare Part Number Information Continued 802. Page 130 Removal and Replacement Procedures 4. Make note of which antenna cable is attached to which antenna clip on the Mini Card module before disconnecting the cables, then disconnect the auxiliary and main antenna cables 1 from the Mini Card module. 5. Remove the two Phillips PM2.04.0 screws 2 that secure the Mini Card module to the computer. The edge of the module opposite the socket rises away from the computer. 6. Remove the Mini Card module by pulling the module 3 away from the socket at an angle. Page 131 Removal and Replacement Procedures 5.17 Switch Cover Switch Cover Spare Part Number Information For use with nw8440 and nc8430 models For use with nx8420 models 416405001 416406001 switch cover spare part kits include the LED board and. Both LED board cable. 1. Prepare the computer for disassembly Section 5.3. 2.

Remove the keyboard Section 5.9. 3. Turn the computer upside down with the rear panel toward you. 4. Remove the 3 Phillips PM2.02.0 screws that secure the switch cover to the computer. Page

132 Removal and Replacement Procedures 5. Turn the computer displayside up with the front toward you. 6. Open the computer as far as possible. 7. Use a flatbladed screwdriver to lift up the left and right hinge cover sections of the switch cover 1 to detach it from the computer. 8. Swing the rear edge of the switch cover 2 up and toward you. Page 133 Removal and Replacement Procedures 9. Disconnect the LED board cable 1 from the system board. 10. Remove the switch cover 2. Removing the Switch Cover Reverse the above procedure to install the switch cover. Page 136 Removal and Replacement Procedures 5. Remove the two Torx8 T8M2.510.0 screws 1 and the two Phillips PM2.02.0 screws 2 that secure the display assembly to the computer. Page 137 Removal and Replacement Procedures 6. Position the computer with the rear panel toward you. 7. Remove the four Torx8 T8M2.510.0 screws 1 that secure the display assembly to the computer. 8. Lift the display assembly 2 straight up to remove it. Removing the Display Assembly Reverse the above procedure to install the display assembly. Page 138 Removal and Replacement Procedures 5.19 Top Cover Top Cover Spare Part Number Information For use with nw8440 models without fingerprint reader For use with nw8440 models with fingerprint reader For use with nc8430 and nx8420 models with fingerprint reader For use with nc8430 and nx8420 models without fingerprint reader 418807001 416401001 416403001 416402001 Fingerprint reader board with cable 416400001 1. Prepare the computer for disassembly Section 5. Page 139 Removal and Replacement Procedures 3. Remove the two rubber screw covers 1 and the eleven Torx8 T8M2.510.0 screws 2 that secure the top cover to the computer. The part number 416419001. Page 140 Removal and Replacement Procedures 4.

Turn the computer rightside up with the front toward you. 5. Disconnect the speaker cable 1 from the system board. 6 applies only to computer models with a. Step fingerprint reader. 6. Disconnect the fingerprint reader cable 2 from the system board. 7. Remove the four Torx8 T8M2.54.0 screws 3 that secure the top cover to the computer. Page 141 Removal and Replacement Procedures 8. Lift the front edge of the top cover 1 until it disengages from the base enclosure. 9. Lift the top cover 2 straight up and remove it. Removing the Top Cover Reverse the above procedure to install the top cover. Removing the Modem Module Reverse the above procedure to install the modem module. Page 144 Removal and Replacement Procedures 5.21 System Board System Board Spare Part Number Information System board includes RTC battery and 256MB of video memory 416397001 replacing the system board, be sure that the following. Page 146 Removal and Replacement Procedures 3. Page 147 Removal and Replacement Procedures 4. Remove the following 1 Two Torx T8M2.56.0 screws 2 Two Torx T8M2.54.0 screws 3 Two HM5.010. Page 148 Removal and Replacement Procedures 5. Remove the modem cable 1 from the clip in the base enclosure. 6. Remove the modem cable 2 from the clips in the system board. 7. Remove the modem connector 3 from the clip in the base enclosure. Page 149 Removal and Replacement Procedures 8. Flex the right side of the base enclosure 1 until the USB 2, 1394 3, and RJ45 connectors 4 are clear of the base enclosure. 9. Lift the left side of the system board 5 until it rests at an angle. Page 150 Removal and Replacement Procedures 10. Lift the front edge of the system board 1 until it rests at an angle. 11. Slide the system board 2 forward until the rearright section of the system board 3 is clear of the screw boss 4 on the system board frame. 12. Remove the system board 5 from the base enclosure. Removing the System Board Reverse the above procedure to install the system board.

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