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You can read the recommendations in the user guide, the technical guide or the installation guide for COMPAQ PRESARIO A900. You'll find the answers to all your questions on the COMPAQ PRESARIO A900 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual COMPAQ PRESARIO A900
User guide COMPAQ PRESARIO A900
Operating instructions COMPAQ PRESARIO A900
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Instruction manual COMPAQ PRESARIO A900

COMPAQ

Compaq Presario A900 Notebook PC
Maintenance and Service Guide



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Manual abstract:

The information contained herein is subject to change without notice. @ Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein. First Edition: December 2007 Document Part Number: 460150-001 Safety warning notice WARNING! To reduce the possibility of heat-related injuries or of overheating the computer, do not place the computer directly on your lap or obstruct the computer air vents. Use the computer only on a hard, flat surface. @ @ @ @ @ @ @ 6 Buttons, lights, and speakers

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5-inch data/fax modem Supports all world-wide certification requirements Ethernet Wireless 10/100 network interface card (NIC) Integrated WLAN options by way of wireless module: 3 wireless antennae built into display assembly Support for the following WLAN formats: Intel Pro 3945a/b/g Intel Pro 4965a/b/g/n Support for the following WLAN formats: External media card Atheros AR2425 802.11b/g Broadcom 802.11a/b/g Digital Media Slot supporting SD, MMC, MS, MSPro, xD.y Function keys Integrated numeric keypad keys Windows applications key Windows logo key Function Executes frequently used system functions when pressed in combination with a function key or the esc key. Displays system information when pressed in combination with the fn key. Execute frequently used system functions when pressed in combination with the fn key. Can be used like the keys on an external numeric keypad. Displays a shortcut menu for items beneath the pointer. Displays the Windows Start menu. 8 Chapter 2 External component identification Pointing devices Item (1)

Component TouchPad light Function Blue: TouchPad is enabled.

Amber: TouchPad is disabled. (2) (3) (4) (5) (6) (7) TouchPad* TouchPad horizontal scroll zone Left TouchPad button* Right TouchPad button* TouchPad vertical scroll zone TouchPad on/off button Moves the pointer and selects or activates items on the screen. Scrolls left or right. Functions like the left button on an external mouse. Functions like the right button on an external mouse. Scrolls up or down. Enables/disables the TouchPad. *This table describes factory settings. To view and change pointing device preferences, select Start > Control Panel > Hardware and Sound > Mouse. Top components 9 Front components Item (1) Component Audio-out (headphone) jack Function Produces sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.

Connects an optional computer headset microphone, stereo array microphone, or monaural microphone. (2) Audio-in (microphone) jack Right-side

components Item (1) (2) (3) (4) Component USB ports (2) Optical drive Optical drive light Security cable slot Function Connect optional USB devices. Reads optical discs and on select models also writes to optical discs. Blinking: The optical drive is being accessed. Attaches an optional security cable to the computer. NOTE: The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen. 10 Chapter 2 External component identification Left-side components Item (1) (2) Component Power connector Vent Function Connects an AC adapter. Enables airflow to cool internal components. NOTE: The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation.

(3) (4) (5) (6) RJ-11 (modem) jack RJ-45 (network) jack External monitor port S-Video-out jack Connects a modem cable. Connects a network cable. Connects an external VGA monitor or projector. Connects an optional S-Video device such as a television, VCR, camcorder, overhead projector, or video capture card. Supports the following optional digital card formats: Secure Digital (SD) Memory Card, MultiMediaCard (MMC), Memory Stick (MS), Memory Stick Pro (MSP), xDPicture Card (XD).

Connects an optional USB device. (7) Digital Media Slot (8) USB port Left-side components 11 Bottom components Item (1) (2) (3) Component Battery bay Battery release latch Vents (3) Function Holds the battery. Releases the battery from the battery bay.



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Enable airflow to cool internal components. NOTE: The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation. (4) (5) Memory/WLAN module compartment Hard drive bay Contains the memory module slots and the WLAN module slot. Holds the hard drive. 12 Chapter 2 External component identification 3 Illustrated parts catalog Serial number location When ordering parts or requesting information, provide the computer serial number and model number located on the bottom of the computer. Serial number location 13 Computer major components 14 Chapter 3 Illustrated parts catalog Item (1) Description 17.0-inch, WXGA+BrightView display assembly (includes 3 WLAN antenna transceivers and cables, camera module and cable, microphones and cables, and logo) Spare part number 462319-001 Refer to Display assembly components on page 19, for more display assembly component spare part information. (2) (3) Switch cover (includes wireless button board and cable, power button board and cable, and num lock LED board and cable) Keyboards (include keyboard cable) For use in Denmark, Finland, and Norway For use in France For use in French Canada For use in Germany For use in Italy For use in the Netherlands For use in Saudi Arabia For use in Spain For use in Turkey For use in the United Kingdom For use in the United States (4) (5) (6) (7) (8) Top cover (includes TouchPad and TouchPad cable and caps lock LED board and cable) Fan Speaker assembly (includes cables) USB board (includes USB board cable) System boards (include digital media card board and replacement thermal material) GM965 system board, for use only with computer models equipped with Intel Core 2 Duo processors GL960 system board, for use only with computer models equipped with Intel Core Duo and Intel Celeron M processors Plastics Kit (see Plastics Kit on page 20 for more Plastics Kit spare part information) (9a) (9b) (10) (11) Memory/WLAN module compartment cover Hard drive cover Digital media board Processors (include replacement thermal material) Intel Core 2 Duo T7250 2.00-GHz processor (800-MHz FSB, 2-MB L2 cache) Intel Core 2 Duo T7100 1.80-GHz processor (800-MHz FSB, 2-MB L2 cache) Intel Core Duo T5550 1.83-GHz processor (533-MHz FSB, 2-MB L2 cache) Intel Core Duo T5550 1.

67-GHz processor (533-MHz FSB, 2-MB L2 cache) Intel Core Duo T2330 1.60-GHz processor (533-MHz FSB, 1-MB L2 cache) 456965-001 450586-001 458247-001 453195-001 457314-001 462402-001 462316-001 462317-001 462409-001 462383-DH1 462383-051 462383-121 462383-041 462383-061 462383-B31 462383-171 462383-071 462383-141 462383-031 462383-001 462401-001 462404-001 462581-001 462406-001 462399-001 Computer major components 15 Item Description Intel Core Duo T2310 1.46-GHz processor (533-MHz FSB, 1-MB L2 cache) Intel Celeron M 550 2.00-GHz processor (533-MHz FSB, 1-MB L2 cache) Intel Celeron M 540 1.86-GHz processor (533-MHz FSB, 1-MB L2 cache) Intel Celeron M 530 1.73-GHz processor (533-MHz FSB, 1-MB L2 cache) Spare part number 457313-001 454322-001 454321-001 457315-001 449137-001 462405-001 462403-001 462400-001 462410-001 462337-001 (12) (13) (14) (15) RTC battery Heat sink (includes replacement thermal material) Power connector cable Base enclosure (includes rubber feet) Rubber Foot Kit (not illustrated, includes 7 computer feet) (16) (17) 6-cell, 47-Wh, 2.2-Ah battery WLAN modules Intel 802.11a/b/g/n WLAN modules: For use in Antigua and Barbuda, Argentina, Aruba, the Bahamas, Barbados, Bermuda, Brunei, Canada, the Cayman Islands, Chile, Colombia, Costa Rica, the Dominican Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Honduras, Hong Kong, India, Indonesia, Malaysia, Mexico, Panama, Paraguay, Peru, Saudi Arabia, Taiwan, Uruguay, the United States, Venezuela, and Vietnam For use in Austria, Azerbaijan, Bahrain, Belgium, Brazil, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Egypt, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, the Netherlands, Norway, Oman, the Philippines, Poland, Portugal, Qatar, Romania, Russia, Serbia and Montenegro, Singapore, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Turkey, Ukraine, the United Kingdom, and Uzbekistan For use in Australia, New Zealand, Pakistan, the People's Republic of China, and South Korea 441086-001 441086-002 441086-003 Broadcom 802.11a/b/g WLAN modules: For use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S.

Virgin Islands, and the United States For use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Cape Verde, the Central African Republic, Chad, Chile, Colombia, Comoros, the Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, the Grenadines, Guadeloupe, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Ireland, Israel, Italy, the Ivory Coast, Jamaica, Jordan, Kazakhstan, Kenya, Kiribati, Kyrgyzstan, Laos, Latvia, Lebanon, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, Malaysia, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Nether Antilles, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, the People's Republic of China, Peru, the Philippines, Poland, Portugal, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, 441075-001 441075-002 16 Chapter 3 Illustrated parts catalog Item Description San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia and Montenegro, the Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, South Korea, Spain, Sri Lanka, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda, Ukraine, the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Vanuatu, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe Intel 802.11a/b/g WLAN modules: For use in Antigua and Barbuda, Argentina, Australia, the Bahamas, Barbados, Brunei, Canada, Chile, the Dominican Republic, Guam, Guatemala, Hong Kong, India, Indonesia, Malaysia, Mexico, New Zealand, Panama, Paraguay, Saudi Arabia, Taiwan, the United States, and Vietnam Spare part number 451861-001 For use in Aruba, Austria, Azerbaijan, Bahrain, Belgium, Bermuda, Brazil, Bulgaria, 451861-002 the Cayman Islands, Colombia, Croatia, Cyprus, the Czech Republic, Denmark, Egypt, El Salvador, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Italy, Jordan, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, the Netherlands, Norway, Oman, the Philippines, Poland, Portugal, Romania, Russia, Serbia and Montenegro, Singapore, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Turkey, the United Kingdom, and Uzbekistan Atheros AR2425 802.



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11b/g WLAN modules: For use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States 459339-001 For use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, 459339-002 Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cambodia, Cameroon, Cape Verde, the Central African Republic, Chad, Chile, Colombia, Comoros, Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, the Grenadines, Guadeloupe, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Indonesia, Ireland, Israel, Italy, the Ivory Coast, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kiribati, Kuwait, Kyrgyzstan, Laos, Latvia, Lebanon, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, Malaysia, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Nether Antilles, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, the People's Republic of China, Peru, the Philippines, Poland, Portugal, Qatar, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia and Montenegro, Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, South Korea, Spain, Sri Lanka, St. Kitts and Nevis, St. Lucia, St.

Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Syria, Taiwan, Tajikistan, Tanzania, Thailand, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda, Ukraine, the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Vanuatu, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe Broadcom 802.11b/g WLAN modules: For use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S.

Virgin Islands, and the United States For use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, 441090-001 441090-002 Computer major components 17 Item Description Bosnia and Herzegovina, Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Cape Verde, the Central African Republic, Chad, Chile, Colombia, Comoros, the Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, the Grenadines, Guadeloupe, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Ireland, Israel, Italy, the Ivory Coast, Jamaica, Jordan, Kazakhstan, Kenya, Kiribati, Kyrgyzstan, Laos, Latvia, Lebanon, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, Malaysia, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Nether Antilles, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, the People's Republic of China, Peru, the Philippines, Poland, Portugal, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia and Montenegro, the Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, South Korea, Spain, Sri Lanka, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda, Ukraine, the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Vanuatu, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe Intel 802.11b/g

WLAN module for use in Thailand Spare part number 451861-004 (18) Memory modules (PC2-5300, 667-MHz, DDR2) 1024-MB 512-MB 462330-001 462329-001 (19) Hard drives (include hard drive bracket and SATA connector) 160-GB, 5400-rpm 120-GB, 5400-rpm Hard Drive Hardware Kit (not illustrated, includes hard drive bracket and screws and hard drive SATA connector) 462333-001 462332-001 462331-001 (20) Optical drives (include optical drive bezel and bracket) DVD±RW and CD-RW Super Multi Double-Layer Combo Drive with LightScribe DVD±RW and CD-RW Super Multi Double-Layer Combo Drive Optical Drive Bezel/Bracket Kit (not illustrated, includes optical drive bezel and optical drive bracket and screws) 462336-001 462335-001 462334-001 18 Chapter 3 Illustrated parts catalog Display assembly components Item (1) (2) (3) (4) (5) (6) (7) (8) Description Display bezel (includes Compaq logo, and camera lens) Camera module Display inverter 17.0-inch, WXGA+BrightView display panel (includes display panel cable and backlight cable) Display Hinge Kit (includes left and right display hinges) Wireless Antenna Kit Microphone (includes microphone receiver and cable) Display enclosure (includes wireless antenna transceivers and cables, microphone receiver and cable, and Compaq logo) Display Cable Kit (not illustrated, includes display panel cable and camera module cable) Display Bracket Kit (not illustrated, includes display panel top and bottom support brackets) Display Rubber Kit (not illustrated, includes display bezel rubber screw covers) Display Screw Kit (not illustrated) Spare part number 462391-001 462580-001 462579-001 462318-001 462392-001 462394-001 462395-001 462389-001 462393-001 462396-001 462397-001 462398-001 Display assembly components 19 Plastics Kit Item Description Plastics Kit: Spare part number 462409-001 (1) (2) Memory/WLAN module compartment cover (includes one captive screw, secured by a C-clip) Hard drive cover (includes 2 captive screws, secured by C-clips) 20 Chapter 3 Illustrated parts catalog Mass storage devices Item (1) Description Optical drives (include bezel and bracket) DVD±RW and CD-RW Super Multi Double-Layer Combo Drive with LightScribe DVD±RW and CD-RW Super Multi Double-Layer Combo Drive Spare part number 462336-001 462335-001 (2) Hard drives (include hard drive bracket and screws and SATA connector) 160-GB, 5400-rpm 120-GB, 5400-rpm 462333-001 462332-001 Mass storage devices 21 Miscellaneous parts Description 65-W AC adapter Power cords: For use in Australia For use in Europe For use in India For use in Italy For use in the United Kingdom For use the United States Screw Kit Phillips PM3.



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0 screw Phillips PM2.5x9.0 screw Phillips PM2.5x7.0 screw Phillips PM2.5x6.0 captive screw Phillips PM2.5x5.0 screw Phillips PM2.0x4.
 0 screw 383496-011 383496-021 383496-D61 383496-061 383496-031 383496-001 462408-001 Spare part number 417220-001 22 Chapter 3 Illustrated parts catalog Sequential part number listing Spare part number 383496-001 383496-011 383496-021 383496-031 383496-061 383496-D61 417220-001 441075-001 441075-002 Description Power cord for use in the United States Power cord for use in Australia Power cord for use in Europe Power cord for use in the United Kingdom Power cord for use in Italy Power cord for use in India 65-W AC adapter Broadcom 802.11a/b/g WLAN module for use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States Broadcom 802.11a/b/g WLAN module for use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Cape Verde, the Central African Republic, Chad, Chile, Colombia, Comoros, the Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, the Grenadines, Guadeloupe, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Ireland, Israel, Italy, the Ivory Coast, Jamaica, Jordan, Kazakhstan, Kenya, Kiribati, Kyrgyzstan, Laos, Latvia, Lebanon, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, Malaysia, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Nether Antilles, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, the People's Republic of China, Peru, the Philippines, Poland, Portugal, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia and Montenegro, the Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, South Korea, Spain, Sri Lanka, St.

Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda, Ukraine, the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Vanuatu, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe Intel 802.11a/b/g/n WLAN module for use in Antigua and Barbuda, Argentina, Aruba, the Bahamas, Barbados, Bermuda, Brunei, Canada, the Cayman Islands, Chile, Colombia, Costa Rica, the Dominican Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Honduras, Hong Kong, India, Indonesia, Malaysia, Mexico, Panama, Paraguay, Peru, Saudi Arabia, Taiwan, Uruguay, the United States, Venezuela, and Vietnam Intel 802.11a/b/g/n WLAN module for use in Austria, Azerbaijan, Bahrain, Belgium, Brazil, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Egypt, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, the Netherlands, Norway, Oman, the Philippines, Poland, Portugal, Qatar, Romania, Russia, Serbia and Montenegro, Singapore, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Turkey, Ukraine, the United Kingdom, and Uzbekistan Intel 802.

11a/b/g/n WLAN module for use in Australia, New Zealand, Pakistan, the People's Republic of China, and South Korea Broadcom 802.11b/g WLAN module for use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States Broadcom 802.11b/g WLAN module for use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, Bosnia and Herzegovina, 441086-001 441086-002 441086-003 441090-001 441090-002 Sequential part number listing 23 Spare part number Description Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Cape Verde, the Central African Republic, Chad, Chile, Colombia, Comoros, the Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, the Grenadines, Guadeloupe, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Ireland, Israel, Italy, the Ivory Coast, Jamaica, Jordan, Kazakhstan, Kenya, Kiribati, Kyrgyzstan, Laos, Latvia, Lebanon, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, Malaysia, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Nether Antilles, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, the People's Republic of China, Peru, the Philippines, Poland, Portugal, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia and Montenegro, the Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, South Korea, Spain, Sri Lanka, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda, Ukraine, the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Vanuatu, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe 449137-001 450586-001 451861-001 RTC battery Intel Core 2 Duo T7100 1.80-GHz processor (800-MHz FSB, 2-MB L2 cache, includes replacement thermal material) Intel 802.11a/b/g WLAN module for use in Antigua and Barbuda, Argentina, Australia, the Bahamas, Barbados, Brunei, Canada, Chile, the Dominican Republic, Guam, Guatemala, Hong Kong, India, Indonesia, Malaysia, Mexico, New Zealand, Panama, Paraguay, Saudi Arabia, Taiwan, the United States, and Vietnam Intel 802.

11a/b/g WLAN module for use in Aruba, Austria, Azerbaijan, Bahrain, Belgium, Bermuda, Brazil, Bulgaria, the Cayman Islands, Colombia, Croatia, Cyprus, the Czech Republic, Denmark, Egypt, El Salvador, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Italy, Jordan, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, the Netherlands, Norway, Oman, the Philippines, Poland, Portugal, Romania, Russia, Serbia and Montenegro, Singapore, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Turkey, the United Kingdom, and Uzbekistan Intel 802.



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11b/g WLAN module for use in Thailand Intel Core Duo T5550 1.67-GHz processor (533-MHz FSB, 2-MB L2 cache, includes replacement thermal material) Intel Celeron M 540 1.86-GHz processor (533-MHz FSB, 1-MB L2 cache, includes replacement thermal material) Intel Celeron M 550 2.00-GHz processor (533-MHz FSB, 1-MB L2 cache, includes replacement thermal material) Intel Core 2 Duo T7250 2.00-GHz processor (800-MHz FSB, 2-MB L2 cache, includes replacement thermal material) Intel Core Duo T2310 1.46-GHz processor (533-MHz FSB, 1-MB L2 cache, includes replacement thermal material) Intel Core Duo T2330 1.60-GHz processor (533-MHz FSB, 1-MB L2 cache, includes replacement thermal material) Intel Celeron M 530 1.73-GHz processor (533-MHz FSB, 1-MB L2 cache, includes replacement thermal material) Intel Core Duo T5550 1.83-GHz processor (533-MHz FSB, 2-MB L2 cache, includes replacement thermal material) Atheros AR2425 802.

11b/g WLAN module for use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States Atheros AR2425 802. 11b/g WLAN module for use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, Bosnia and Herzegovina, 451861-002 451861-004 453195-001 454321-001 454322-001 456965-001 457313-001 457314-001 457315-001 458247-001 459339-001 459339-002 24 Chapter 3 Illustrated parts catalog Spare part number Description Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cambodia, Cameroon, Cape Verde, the Central African Republic, Chad, Chile, Colombia, Comoros, Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, the Grenadines, Guadeloupe, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Indonesia, Ireland, Israel, Italy, the Ivory Coast, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kiribati, Kuwait, Kyrgyzstan, Laos, Latvia, Lebanon, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, Malaysia, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Nether Antilles, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, the People's Republic of China, Peru, the Philippines, Poland, Portugal, Qatar, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia and Montenegro, Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, South Korea, Spain, Sri Lanka, St. Kitts and Nevis, St.

Lucia, St. Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Syria, Taiwan, Tajikistan, Tanzania, Thailand, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda, Ukraine, the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Vanuatu, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe 462316-001 462317-001 462318-001 462319-001 462329-001 462330-001 462331-001 462332-001 462333-001 462334-001 462335-001 462336-001 462337-001 462383-001 462383-031 462383-041 462383-051 462383-061 462383-071 462383-121 462383-141 462383-171 GM965 system board, for use only with computer models equipped with Intel Core 2 Duo processors (includes digital media card board and replacement thermal material) GL960 system board, for use only with computer models equipped with Intel Core Duo and Intel Celeron M processors (includes digital media card board and replacement thermal material) 17.0-inch, WXGA+BrightView display panel (includes display panel cable and backlight cable) 17.0-inch, WXGA+BrightView display assembly (includes 3 WLAN antenna transceivers and cables, camera module and cable, microphones and cables, and logo) 512-MB memory module (PC2-5300, 667-MHz, DDR2) 1024-MB memory module (PC2-5300, 667-MHz, DDR2) Hard Drive Hardware Kit (includes hard drive bracket and screws and hard drive SATA connector) 120-GB, 5400-rpm hard drive (includes hard drive bracket and SATA connector) 160-GB, 5400-rpm hard drive (includes hard drive bracket and SATA connector) Optical Drive Bezel/Bracket Kit (includes optical drive bezel and optical drive bracket and screws) DVD±RW and CD-RW Super Multi Double-Layer Combo Drive DVD±RW and CD-RW Super Multi Double-Layer Combo Drive with LightScribe 6-cell, 47-Wh, 2.2-Ah battery Keyboard for use in the United States (includes keyboard cable) Keyboard for use in the United Kingdom (includes keyboard cable) Keyboard for use in Germany (includes keyboard cable) Keyboard for use in France (includes keyboard cable) Keyboard for use in Italy (includes keyboard cable) Keyboard for use in Spain (includes keyboard cable) Keyboard for use in French Canada (includes keyboard cable) Keyboard for use in Turkey (includes keyboard cable) Keyboard for use in Saudi Arabia (includes keyboard cable) Sequential part number listing 25 Spare part number 462383-B31 462383-DH1 462389-001 462391-001 462392-001 462393-001 462394-001 462395-001 462396-001 462397-001 462398-001 462399-001 462400-001 462401-001 462402-001 462403-001 462404-001 462405-001 462406-001 462408-001 462409-001 462410-001 462579-001 462580-001 462581-001 Description Keyboard for use in the Netherlands (includes keyboard cable) Keyboard for use in Denmark, Finland, and Norway (includes keyboard cable) Display enclosure (includes wireless antenna transceivers and cables, microphone receiver and cable, and Compaq logo) Display bezel (includes Compaq logo, and camera lens) Display Hinge Kit (includes left and right display hinges) Display Cable Kit (includes display panel cable and camera module cable) Wireless Antenna Kit Microphone (includes microphone receiver and cable) Display Bracket Kit (includes display panel top and bottom support brackets) Display Rubber Kit (includes display bezel rubber screw covers) Display Screw Kit Switch cover (includes wireless button board and cable, power button board and cable, and num lock LED board and cable) Base enclosure (includes rubber feet) Top cover (includes TouchPad and TouchPad cable and caps lock LED board and cable) Digital media board Power connector cable Fan Heat sink (includes replacement thermal material) USB board (includes USB board cable) Screw Kit Plastics Kit (see Plastics Kit on page 20 for more Plastics Kit spare part information) Rubber Foot Kit (includes 7 computer feet) Display inverter Camera module Speaker assembly (include cables) 26 Chapter 3 Illustrated parts catalog 4 Removal and replacement procedures Preliminary replacement requirements Tools required You will need the following tools to complete the removal and replacement procedures: Flat-bladed screwdriver Magnetic screwdriver Phillips P0 and P1 screwdrivers Service considerations The following sections include some of the considerations that you must keep in mind during disassembly and assembly procedures.



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NOTE: As you remove each subassembly from the computer, place the subassembly (and all accompanying screws) away from the work area to prevent damage. Plastic parts Using excessive force during disassembly and reassembly can damage plastic parts. Use care when handling the plastic parts. Apply pressure only at the points designated in the maintenance instructions. Preliminary replacement requirements 27 Cables and connectors CAUTION: When servicing the computer, be sure that cables are placed in their proper locations during the reassembly process. Improper cable placement can damage the computer. Cables must be handled with extreme care to avoid damage. Apply only the tension required to unseat or seat the cables during removal and insertion. Handle cables by the connector whenever possible. In all cases, avoid bending, twisting, or tearing cables.

Be sure 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. Drive handling CAUTION: Drives are fragile components that must be handled with care. To prevent damage to the computer, damage to a drive, or loss of information, observe these precautions: Before removing or inserting a hard drive, shut down the computer. @@Before handling a drive, be sure that you are discharged of static electricity. While handling a drive, avoid touching the connector. Before removing a diskette drive or optical drive, be sure that a diskette or disc is not in the drive and be sure that the optical drive tray is closed. Handle drives on surfaces covered with at least one inch of shock-proof foam. Avoid dropping drives from any height onto any surface. After removing a hard drive, an optical drive, or a diskette drive, place it in a static-proof bag.

Avoid exposing a hard drive to products that have magnetic fields, such as monitors or speakers. Avoid exposing a drive to temperature extremes or liquids. If a drive must be mailed, place the drive in a bubble pack mailer or other suitable form of protective packaging and label the package "FRAGILE." 28 Chapter 4 Removal and replacement procedures Grounding guidelines Electrostatic discharge damage 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, ESD contains enough power to alter device parameters or melt silicon junctions. A discharge of static electricity from a finger or other conductor can destroy static-sensitive devices or microcircuitry. Even if the spark is neither felt nor heard, damage may have occurred. An electronic device exposed to ESD may not be affected at all and can work perfectly throughout a normal cycle. Or the device may function normally for a while, then degrade in the internal layers, reducing its life expectancy.

CAUTION: To prevent damage to the computer when you are removing or installing internal components, observe these precautions: Keep components in their electrostatic-safe containers until you are ready to install them. Use nonmagnetic tools. Before touching an electronic component, discharge static electricity by using the guidelines described in this section. Avoid touching pins, leads, and circuitry. Handle electronic components as little as possible. If you remove a component, place it in an electrostatic-safe container. The following table shows how humidity affects the electrostatic voltage levels generated by different activities. CAUTION: A product can be degraded by as little as 700 V. Typical electrostatic voltage levels Relative humidity Event Walking across carpet Walking across vinyl floor Motions of bench worker Removing DIPS from plastic tube Removing DIPS from vinyl tray Removing DIPS from Styrofoam Removing bubble pack from PCB Packing PCBs in foam-lined box 10% 35,000 V 12,000 V 6,000 V 2,000 V 11,500 V 14,500 V 26,500 V 21,000 V 40% 15,000 V 5,000 V 800 V 700 V 4,000 V 5,000 V 20,000 V 11,000 V 55% 7,500 V 3,000 V 400 V 400 V 2,000 V 3,500 V 7,000 V 5,000 V Preliminary replacement requirements 29 Packaging and transporting guidelines Follow these grounding guidelines when packaging and transporting equipment: To avoid hand contact, transport products in static-safe tubes, bags, or boxes. Protect ESD-sensitive parts and assemblies with conductive or approved containers or packaging.

Keep ESD-sensitive parts in their containers until the parts arrive at static-free workstations. Place items on a grounded surface before removing items from their containers. Always be properly grounded when touching a component or assembly. Store reusable ESD-sensitive parts from assemblies in protective packaging or nonconductive foam. Use transporters and conveyors made of antistatic belts and roller bushings. Be sure that mechanized equipment used for moving materials is wired to ground and that proper materials are selected to avoid static charging. When grounding is not possible, use an ionizer to dissipate electric charges. Workstation guidelines Follow these grounding workstation guidelines: Cover the workstation with approved static-shielding material. Use a wrist strap connected to a properly grounded work surface and use properly grounded tools and equipment. Use conductive field service tools, such as cutters, screwdrivers, and vacuums.

When fixtures must directly contact dissipative surfaces, use fixtures made only of static-safe materials. Keep the work area free of nonconductive materials, such as ordinary plastic assembly aids and Styrofoam. Handle ESD-sensitive components, parts, and assemblies by the case or PCM laminate. Handle these items only at static-free workstations. Avoid contact with pins, leads, or circuitry.

Turn off power and input signals before inserting or removing connectors or test equipment. 30 Chapter 4 Removal and replacement procedures Equipment guidelines Grounding equipment must include either a wrist strap or a foot strap at a grounded workstation. When seated, wear a wrist strap connected to a grounded system. Wrist straps are flexible straps with a minimum of one megohm $\pm 10\%$ resistance in the ground cords. To provide proper ground, wear a strap snugly against the skin at all times.

On grounded mats with banana-plug connectors, use alligator clips to connect a wrist strap. When standing, use foot straps and a grounded floor mat. Foot straps (heel, toe, or boot straps) can be used at standing workstations and are compatible with most types of shoes or boots. On conductive floors or dissipative floor mats, use foot straps on both feet with a minimum of one megohm resistance between the operator and ground. To be effective, the conductive strips must be worn in contact with the skin. The following grounding equipment is recommended to prevent electrostatic damage: Antistatic tape Antistatic smocks, aprons, and sleeve protectors Conductive bins and other assembly or soldering aids Nonconductive foam Conductive tabletop workstations with ground cords of one megohm resistance Static-dissipative tables or floor mats with hard ties to the ground Field service kits Static awareness labels Material-handling packages Nonconductive plastic bags, tubes, or boxes Metal tote boxes Electrostatic voltage levels and protective materials The following table lists the shielding protection provided by antistatic bags and floor mats.



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Material Antistatic plastic Carbon-loaded plastic Metallized laminate Use Bags Floor mats Floor mats Voltage protection level 1,500 V 7,500 V 5,000 V Preliminary replacement requirements 31 Unknown user password If the computer you are servicing has an unknown user password, follow these steps to clear the password: NOTE: These steps also clear CMOS. 1. 2. 3.

4. 5. 6. 7. 8. 9. Shut down the computer. @@Disconnect all external devices connected to the computer. @@Remove the battery (see Battery on page 34). Remove the real-time clock (RTC) battery (see RTC battery on page 65).

Wait approximately 5 minutes. Replace the RTC battery and reassemble the computer. Connect AC power to the computer. Do not reinsert any batteries at this time. Turn on the computer.

All passwords and all CMOS settings have been cleared. 32 Chapter 4 Removal and replacement procedures Component replacement procedures This chapter provides removal and replacement procedures. There are as many as 87 screws, in 7 different sizes, that must be removed, replaced, or loosened when servicing the computer. Make special note of each screw size and location during removal and replacement. 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. Computer feet The computer feet are adhesive-backed rubber pads. The feet are included with the base enclosure and are also available in the Rubber Foot Kit, spare part number 462410-001. There are 7 rubber feet that attach to the base enclosure in the locations illustrated below. Component replacement procedures 33 Battery Description 6-cell, 2.20-Ah (47-Wh) Li-ion battery Spare part number 462337-001 Before disassembling the computer, follow these steps: 1. 2. 3. Shut down the computer. @@Disconnect all external devices connected to the computer.

Remove the battery: 1. 2. 3. Turn the computer upside down on a flat surface, with the battery bay toward you. Slide the battery release latch (1) to release the battery. Pivot the battery (2) away from the computer and remove it from the computer (3). To insert the battery, insert the rear edge of the battery into the battery bay and rotate the battery downward until it is seated. @@2. 3. 4.

Shut down the computer. @@Disconnect all external devices connected to the computer. @@2. 3. Turn the computer right-side up, with the front toward you.

Open the computer as far as possible. @@@@8. @@@@Disconnect the camera module cable (3) from the camera module. 10. Remove the camera module and bracket.

@@2. 3. 4. Shut down the computer. @@Disconnect all external devices connected to the computer. @@@@2. 3. Position the computer with the front toward you. @@Lift the left side of the hard drive cover (2), swing it up and to the right, and remove the cover. The hard drive cover is included in the Plastics Kit, spare part number 462409-001.

4. Grasp the Mylar tab (1) on the hard drive and slide the hard drive (2) to the left to disconnect it from the system board. Component replacement procedures 37 5. Remove the hard drive (3) from the hard drive bay. 6. 7. If it is necessary to replace the hard drive bracket, remove the two Phillips PM3.0x4.0 hard drive bracket screws (1) from each side of the hard drive. Lift the bracket (2) straight up to remove it from the hard drive.

Reverse this procedure to reassemble and install the hard drive. 38 Chapter 4 Removal and replacement procedures Memory module Description 1024-MB (PC2-5300, 667-MHz, DDR2) 512-MB (PC2-5300, 667-MHz, DDR2) Spare part number 462330-001 462329-001 Before removing the memory module, follow these steps: 1. 2. 3. 4.

Shut down the computer. @@Disconnect all external devices connected to the computer. @@Remove the battery (see Battery on page 34). Remove the memory module: 1. 2.

@@@The memory/WLAN module compartment cover is included in the Plastics Kit, spare part number 462409-001. 3. Spread the retaining tabs (1) on each side of the memory module slot to release the memory module. (The edge of the module opposite the slot rises away from the computer.) Component replacement procedures 39 4. Remove the memory module (2) by pulling the module away from the slot at an angle. NOTE: Memory modules are designed with a notch (3) to prevent incorrect installation into the memory module slot. Reverse this procedure to install a memory module. 40 Chapter 4 Removal and replacement procedures WLAN module Description Intel 802.11a/b/g/n WLAN modules: For use in use in Antigua and Barbuda, Argentina, Aruba, the Bahamas, Barbados, Bermuda, Brunei, Canada, the Cayman Islands, Chile, Colombia, Costa Rica, the Dominican Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Honduras, Hong Kong, India, Indonesia, Malaysia, Mexico, Panama, Paraguay, Peru, Saudi Arabia, Taiwan, Uruguay, the United States, Venezuela, and Vietnam For use in Austria, Azerbaijan, Bahrain, Belgium, Brazil, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Egypt, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, the Netherlands, Norway, Oman, the Philippines, Poland, Portugal, Qatar, Romania, Russia, Serbia and Montenegro, Singapore, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Turkey, Ukraine, the United Kingdom, and Uzbekistan For use in Australia, New Zealand, Pakistan, the People's Republic of China, and South Korea 441086-001 Spare part number 441086-002 441086-003 Broadcom 802.

11a/b/g WLAN modules: For use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. @@Kitts and Nevis, St. Lucia, St. @@@@Kitts and Nevis, St. Lucia, St. @@@@Kitts and Nevis, St. Lucia, St. @@2. 3.

4. Shut down the computer. @@Disconnect all external devices connected to the computer. @@@@2. @@@@2. @@@@2. 3. 4. Shut down the computer. @@Disconnect all external devices connected to the computer. @@@@2.

3. Position the computer with the left side toward you. @@@@6. 7. If it is necessary to replace the optical drive bracket, position the optical drive with the rear toward you. Remove the two Phillips PM2.0x4.0 screws (1) that secure the optical drive bracket to the optical drive. Remove the optical drive bracket (2). Reverse this procedure to reassemble and install an optical drive.

Component replacement procedures 45 Switch cover and keyboard Description Switch cover (includes wireless button board and cable, power button board and cable, and num lock LED board and cable) Spare part number 462399-001 For use in: Denmark, Finland, and Norway France French Canada Germany Italy The Netherlands Spare part number 462383-DH1 462383-051 462383-121 462383-041 462383-061 462383-B31 For use in: Saudi Arabia Spain Turkey The United Kingdom The United States Spare part number 462383-171 462383-071 462383-141 462383-031 462383-001 Before removing the switch cover and keyboard, follow these steps: 1.



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2. 3. 4. Shut down the computer. @@Disconnect all external devices connected to the computer. @@Remove the battery (see Battery on page 34). 46 Chapter 4 Removal and replacement procedures Remove the switch cover and keyboard: 1. Remove the following: (1) Four Phillips PM2.5×9.0 screws that secure the switch cover to the computer (2) One Phillips PM2.5×9.0 screw that secures the keyboard to the computer (3) Six Phillips PM2.5×5.0 screws that secure the switch cover to the computer 2.

3. 4. 5. Turn the computer right-side up, with the front toward you. Open the computer as far as possible. Lift the left and right sides (1) of the switch cover until it disengages from the computer. Release the switch cover (2) by sliding it back until it rests on the display bezel. Component replacement procedures 47 6. Remove the three Phillips PM2.0×4.0 screws that secure the keyboard to the computer. 7. 8. Lift the rear edge of the keyboard (1) until it rests at angle. Release the keyboard (2) by sliding it back until it rests on the switch cover and display bezel.

9. Release the zero insertion force (ZIF) connector (1) to which the keyboard cable is attached, and then disconnect the keyboard cable (2). 48 Chapter 4 Removal and replacement procedures 10. Remove the keyboard. 11. Release the ZIF connector (1) to which the LED board cable is attached, and then disconnect the LED board cable (2). 12. Remove the switch cover. Reverse this procedure to install the switch cover and keyboard. Component replacement procedures 49 Display assembly Description 17.

0-inch, WXGA+BrightView display assembly (includes 3 WLAN antenna transceivers and cables, camera module and cable, microphones and cables, and logo) Spare part number 462319-001 Before removing the display assembly, follow these steps: 1. 2. 3. 4. 5.

6. Shut down the computer. @@Disconnect all external devices connected to the computer. @@Remove the battery (see Battery on page 34). Disconnect the wireless antenna cables from the WLAN module (see WLAN module on page 41). Remove the switch cover and keyboard (see Switch cover and keyboard on page 46). Remove the display assembly: 1. 2. Disconnect the display panel cable (1) and the microphone cable (2) from the system board. Remove the wireless antenna cables and the microphone cable from the clips (3) and routing channel. 3. Remove the four Phillips PM2.5×9.0 screws (1) that secure the display assembly to the computer. 50 Chapter 4 Removal and replacement procedures 4.

Lift the display assembly (2) straight up and remove it. 5. If it is necessary to replace the display bezel or the display assembly internal components, remove the following: (1) Four rubber screw covers on the display bezel top edge. @@(2) Two rubber screw covers on the display bezel bottom corners. (3) Two rubber screw covers on the display bezel bottom edge. @@@@Remove the display inverter from the display enclosure. The display inverter is available using spare part number 462579-001. 11. @@Remove the display panel (2) from the display enclosure. @@@@14.

Remove the display hinges (2) from the display panel. @@@@Remove the wireless antenna transceivers (2) and cables (3) from the display enclosure. The wireless antennae are available using spare part number 462394-001. 17. If it is necessary to replace the microphone receiver and cable, release the tabs (1) built into the display enclosure that secure the microphone cables.

18. Remove the microphone receiver (2) and cable (3) from the display enclosure. The microphone is available using spare part number 462395-001. Reverse this procedure to reassemble and install the display assembly. 54 Chapter 4 Removal and replacement procedures Top cover Description Top cover (includes TouchPad and TouchPad cable and caps lock LED board and cable) Spare part number 462401-001 Before removing the top cover, follow these steps: 1.

2. 3. 4. 5. Shut down the computer. @@Disconnect all external devices connected to the computer. @@Remove the battery (see Battery on page 34). Remove the following components: a. b. c.

d. Hard drive (see Hard drive on page 37) Optical drive (see Optical drive on page 44) Switch cover and keyboard (see Switch cover and keyboard on page 46) Display assembly (see Display assembly on page 50) Remove the top cover: 1. 2. Turn the computer upside down, with the front toward you. Remove the fourteen Phillips PM2.5×9.0 screws that secure the top cover to the base enclosure. Component replacement procedures 55 3. Remove the two Phillips PM2.5×5.0 screws that secure the top cover to the computer. 4. 5. 6. Disconnect the caps lock LED board cable (1) from the system board. Release the ZIF connector to which the TouchPad cable (2) is connected, and then disconnect the TouchPad cable from the system board. Remove the Phillips PM2.5×9.0 screw (3) that secures the top cover to the base enclosure. 7.

Lift the rear edge of the top cover (1), and then swing it up and forward until it rests at an angle. 56 Chapter 4 Removal and replacement procedures 8. Lift the top cover (2) straight up and remove it. Reverse this procedure to install the top cover. USB board Description USB board (includes USB board cable) Spare part number 462406-001 Before removing the USB board, follow these steps: 1. 2. 3. 4. 5. Shut down the computer.

@@Disconnect all external devices connected to the computer. @@Remove the battery (see Battery on page 34). Remove the following components: a. b. c. d. e. Hard drive (see Hard drive on page 37) Optical drive (see Optical drive on page 44) Switch cover and keyboard (see Switch cover and keyboard on page 46) Display assembly (see Display assembly on page 50) Top cover (see Top cover on page 55) Remove the USB board: 1. 2. 3.

Disconnect the USB board cable (1) from the system board. Remove the USB board cable from the clips (2) built into the base enclosure. Remove the Phillips PM2.5×5.0 screw (3) that secures the USB board to the base enclosure. Component replacement procedures 57 4. Remove the USB board (4). Reverse this procedure to reassemble and install the USB board. Fan Description Fan Spare part number 462404-001 Before removing the fan, follow these steps: 1. 2.

3. 4. 5. Shut down the computer. @@Disconnect all external devices connected to the computer. @@Remove the battery (see Battery on page 34). Remove the following components: a. b. c. d.

e. Hard drive (see Hard drive on page 37) Optical drive (see Optical drive on page 44) Switch cover and keyboard (see Switch cover and keyboard on page 46) Display assembly (see Display assembly on page 50) Top cover (see Top cover on page 55) Remove the fan: 1. 2. Disconnect the fan cable (1) from the system board. Remove the Phillips PM2.5×9.0 screw (2) that secures the fan to the base enclosure. 58 Chapter 4 Removal and replacement procedures 3. Remove the fan (3). Reverse this procedure to install the fan.



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NOTE: To properly ventilate the computer, allow at least a 7.6-cm (3-inch) clearance on the left side of the computer. The computer uses an electric fan for ventilation. The fan is controlled by a temperature sensor and is designed to turn on automatically when high temperature conditions exist. These conditions are affected by high external temperatures, system power consumption, power management/battery conservation configurations, battery fast charging, and software requirements.

Exhaust air is displaced through the ventilation grill located on the left side of the computer. Speaker assembly Description Speaker assembly (include cables) Spare part number 462581-001 Before removing the speaker assembly, follow these steps: 1. 2. 3. 4.

5. Shut down the computer. @@Disconnect all external devices connected to the computer. @@Remove the battery (see Battery on page 34). Remove the following components: a. b. c. Hard drive (see Hard drive on page 37) Optical drive (see Optical drive on page 44) Switch cover and keyboard (see Switch cover and keyboard on page 46) Component replacement procedures 59 d. e. Display assembly (see Display assembly on page 50) Top cover (see Top cover on page 55) Remove the speaker assembly: 1.

2. 3. 4. Remove the two Phillips PM2.5x5.0 screws (1) that secure the speaker assembly to the base enclosure. Disconnect the speaker cable (2) from the system board. Remove the speaker cables from the clips (3) built into the system board. Remove the speaker assembly (4) from the base enclosure. Reverse this procedure to install the speaker assembly.

System board NOTE: All system board spare part kits include replacement thermal material. Description GM965 system board, for use only with computer models equipped with Intel Core 2 Duo processors (includes digital media card board) GL960 system board, for use only with computer models equipped with Intel Core Duo and Intel Celeron M processors (includes digital media card board) Spare part number 462316-001 462317-001 Before removing the system board, follow these steps: 1. 2. 3. Shut down the computer.

@@Disconnect all external devices connected to the computer. 60 Chapter 4 Removal and replacement procedures 4. 5. Remove the battery (see Battery on page 34). Remove the following components: a.

b. c. d. e. f. Hard drive (see Hard drive on page 37) Optical drive (see Optical drive on page 44) Switch cover and keyboard (see Switch cover and keyboard on page 46) Display assembly (see Display assembly on page 50) Top cover (see Top cover on page 55) Fan (see Fan on page 58) When replacing the system board, be sure that the following components are removed from the defective system board and installed on the replacement system board: Memory modules (see Memory module on page 39) WLAN module (see WLAN module on page 41) Heat sink (see Heat sink on page 69) Processor (see Processor on page 71) Remove the system board: 1. 2. Turn the computer upside down, with the front toward you Disconnect the power connector cable from the system board. 3. Turn the computer right-side up, with the front toward you.

Component replacement procedures 61 4. Disconnect the USB board cable (1) and the speaker cable (2) from the system board. 5. 6. 7. 8. Remove the Phillips PM2.5x9.0 screw (1) that secures the system board to the base enclosure. Flex the front edge (2) of the base enclosure outward until the audio connectors clear the openings in the base enclosure.

Use the optical drive connector (3) to lift the right side of the system board (4) until it rests at an angle. Remove the system board (5) by sliding it up and to the right until it is clear of the base enclosure. Reverse this procedure to install the system board. 62 Chapter 4 Removal and replacement procedures Power connector cable Description Power connector cable Spare part number 462403-001 Before removing the power connector cable, follow these steps: 1. 2. 3. 4. 5. Shut down the computer. @@Disconnect all external devices connected to the computer.

@@Remove the battery (see Battery on page 34). Remove the following components: a. b. c. d. e. f. g. Hard drive (see Hard drive on page 37) Optical drive (see Optical drive on page 44) Switch cover and keyboard (see Switch cover and keyboard on page 46) Display assembly (see Display assembly on page 50) Top cover (see Top cover on page 55) Fan (see Fan on page 58) System board (see System board on page 60) Remove the power connector cable: 1. 2.

Remove the power connector (1) from the clip built into the base enclosure. Remove the power connector cable (2) from the clips and routing channel built into the base enclosure. Component replacement procedures 63 3. Remove the power connector cable (3). Reverse this procedure to install the power connector cable. 64 Chapter 4 Removal and replacement procedures RTC battery NOTE: Removing the RTC battery and leaving it uninstalled for 5 or more minutes causes all passwords and CMOS settings to be cleared. Description RTC battery Spare part number 449137-001 Before removing the RTC battery, follow these steps: 1. 2. 3. 4.

5. Shut down the computer. @@Disconnect all external devices connected to the computer. @@Remove the battery (see Battery on page 34). Remove the following components: a. b. c. d. e. f.

g. Hard drive (see Hard drive on page 37) Optical drive (see Optical drive on page 44) Switch cover and keyboard (see Switch cover and keyboard on page 46) Display assembly (see Display assembly on page 50) Top cover (see Top cover on page 55) Fan (see Fan on page 58) System board (see System board on page 60) Remove the RTC battery: 1. Turn the system board upside down, with the audio connectors toward you. Component replacement procedures 65 2.

Remove the RTC battery. Reverse this procedure to install the RTC battery. 66 Chapter 4 Removal and replacement procedures Digital media board Description Digital media board Spare part number 462402-001 Before removing the digital media board, follow these steps: 1. 2. 3. 4.

5. Shut down the computer. @@Disconnect all external devices connected to the computer. @@Remove the battery (see Battery on page 34). Remove the following components: a. b. c. d. e. f.

g. Hard drive (see Hard drive on page 37) Optical drive (see Optical drive on page 44) Switch cover and keyboard (see Switch cover and keyboard on page 46) Display assembly (see Display assembly on page 50) Top cover (see Top cover on page 55) Fan (see Fan on page 58) System board (see System board on page 60) Remove the microphone: 1. 2. Turn the system board upside down, with the audio connectors toward you. Remove the three Phillips PM2.

0x4.0 screws (1) that secure the digital media board to the system board. Component replacement procedures 67 3. Remove the digital media board (2) from the system board. Reverse this procedure to install the digital media board.

68 Chapter 4 Removal and replacement procedures Heat sink Description Heat sink (includes replacement thermal material) Spare part number 462405-001 Before removing the heat sink, follow these steps: 1.



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