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User manual COMPAQ MINI 700 NETBOOK
User guide COMPAQ MINI 700 NETBOOK
Operating instructions COMPAQ MINI 700 NETBOOK
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HP Mini 1000 Netbook
Compaq Mini 700 Netbook
Maintenance and Service Guide



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Manual abstract:

S. and other countries. Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. SD Logo is a trademark of its proprietor. The information contained herein is subject to change without notice. @@@@HP shall not be liable for technical or editorial errors or omissions contained herein. Third Edition: December 2008 First Edition: October 2008 Document Part Number: 496744-003 Safety warning notice WARNING! To reduce the possibility of heat-related injuries or of overheating the device, do not place the device directly on your lap or obstruct the device air vents. Use the device only on a hard, flat surface.

*Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or rugs or clothing, to block airflow.
@@@@@@@@@5 Keys*

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d (MMC) and Secure Digital (SD) Memory Card HP Mini Mobile Drive Bay (on models equipped with a solid-state drive) Internal media cards Two Mini Card slots: Ports Full-size Mini Card slot Half-size Mini Card slot Audio-in (stereo microphone) Audio-out (stereo headphone) RJ-45 (Ethernet, includes link and activity lights) USB (2) 3-pin AC power 2 Chapter 1 Product description Category Description HP Mini 1000 N learn more about your power settings, select Start > Control Panel > Performance and Maintenance > Power Options. (3) (4) Drive light Battery light Blinking: The hard drive or flash drive is being accessed. On: A battery is charging. Blinking: A battery that is the only available power source has reached a low battery level. When the battery reaches a critical battery level, the battery light begins blinking rapidly. Off: If the device is plugged into an external power source, the light turns off when all batteries in the device are fully charged. If the device is not plugged into an external power source, the light stays off until the battery reaches a low battery level. Blue: An integrated wireless device, such as a WLAN device, is on. Amber: All wireless devices are off. (5) Wireless light (6) Wireless switch Turns the wireless feature on or off, but does not establish a wireless connection.

NOTE: A wireless network must be set up in order to establish a wireless connection. 8 Chapter 2 External component identification Right-side components Item (1) Component Vent Function Enables airflow to cool internal components NOTE: The device 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. (2) SD Card Reader Supports the following optional digital card formats: MultiMediaCard (MMC) Secure Digital (SD) Memory Card (3) (4) (5) USB port HP Mini Mobile Drive Bay (on models equipped with a solid-state drive) Security cable connector Connects an optional USB device. Connects an optional HP Mini Mobile Drive. Attaches an optional security cable to the device. NOTE: The security cable is designed to act as a deterrent, but it may not prevent the device from being mishandled or stolen. Right-side components 9 Left-side components Item (1) (2) Component Power connector Power connector light Function Connects an AC adapter. On: The device is running on AC power. Off: The device is running on battery power.

(3) (4) USB port Vent Connects an optional USB device. Enables airflow to cool internal components. NOTE: The device 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. (5) (6) Expansion port Audio-out (headphone) jack/Audio-in (microphone) jack Connects the device to an optional docking device or an optional expansion product.

Produces sound when connected to optional powered stereo speakers, headphones, earbuds, a headset, or television audio. Also connects an optional headset microphone. WARNING! To reduce the risk of personal injury, adjust the volume before putting on headphones, earbuds, or a headset. For additional safety information, refer to the Regulatory, Safety and Environmental Notices. NOTE: When a device is connected to the jack, the device speakers are disabled.

(7) RJ-45 (network) jack Connects a network cable. 10 Chapter 2 External component identification Bottom components Item (1) (2) (3) Component Battery bay Battery release latches (2) Memory module compartment Function Holds the battery. Release the battery from the battery bay. Contains the memory module slot. NOTE: The release latch for the memory module compartment cover (not illustrated) is located underneath the right battery release latch (see Memory module on page 38).



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(4) Vent Enables airflow to cool internal components. NOTE: The device 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. Bottom components 11 3 Illustrated parts catalog Serial number location The service tag, affixed to the bottom of the device, provides information that may be needed when troubleshooting system problems.

@@@@@ When ordering parts or requesting information, provide the device serial number and model description provided on the service tag.

12 Chapter 3 Illustrated parts catalog Device major components Item (1) Description Display assembly (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables; WWAN is optional) 8.9-inch WSVGA BrightView (HP Mini 1000) 8.9-inch WSVGA BrightView (Compaq Mini 700) 10.1-inch standard-definition AntiGlare (HP Mini 1000) 10.1-inch standard-definition AntiGlare (red-colored HP Mini 1000) 10.1-inch standard-definition AntiGlare (Compaq Mini 700) 10.2-inch WSVGA AntiGlare (HP Mini 1000) Spare part number 507309-001 508638-001 507312-001 509696-001 509697-001 507310-001 Device major components 13 Item Description 10.2-inch WSVGA AntiGlare (red-colored HP Mini 1000) 10.2-inch WSVGA AntiGlare (Compaq Mini 700) See Display assembly components on page 17 for more spare part information. Spare part number 512140-001 512143-001 (2)

Keyboard NOTE: For a comprehensive list of keyboard spare part numbers, see the Sequential part number listing on page 24.

For use with standard device models For use with red-colored HP Mini 1000 models only 504611-xx1 509650-xx1 504612-001 (3) Top cover (includes TouchPad) Mass storage devices NOTE: Each hard drive spare part kit and solid-state drive spare part kit includes a cable and bracket. (4a) Hard drive (select models only): 60-GB, 4200-rpm Hard Drive Hardware Kit (not illustrated) (4b) Solid-state drive 16-GB 8-GB (5) (6) Fan Heat sink assembly (includes replacement thermal material) Cable Kit (see Cable Kit on page 19 for more spare part number information) (7a) (7b) (7c) (7d) (7e) Internal display switch module Bluetooth cable USB cable SIM card cable Power cable Wireless modules (8a) Broadcom 4312 802.11/b/g WLAN module For use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States 504593-001 507314-001 507313-001 504615-001

515099-001 507708-001 504601-001 504607-001 14 Chapter 3 Illustrated parts catalog Item Description 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, the People's Republic of China, 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, Grenada, 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, Peru, the Philippines, Poland, Portugal, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, 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 Spare part number 504593-002 (8b) HP un2400 Mobile Broadband Module (select models only) Plastics Kit (see Plastics Kit on page 21 for more spare part number information) 483377-002 (9a) (9b) (9c) (9d) HP Mini Mobile Drive Bay cover Memory module compartment cover SD Card Reader slot bezel Security cable connector For the HP Mini 1000 and Compaq Mini 700 For the red-colored HP Mini 1000 507317-001 512192-001 507707-001 504592-001 507706-001 (10) (11) (12) RTC battery System board (includes processor and replacement thermal material) Bluetooth module (select models only) NOTE: The Bluetooth module spare part kit does not include a Bluetooth module cable. The Bluetooth module cable is included in the Cable Kit, spare part number 507708-001. (13) Base enclosure (includes 4 rubber feet) For the HP Mini 1000 and Compaq Mini 700 For the red-colored HP Mini 1000 506337-001 512189-001 (14) Memory module (PC2-4200, 533-MHz, DDR2) 512-MB 1024-MB 2048-MB (HP Mini 1000 only) 504599-001 504600-001 517577-001 506336-001 (15) USB board Device major components 15 Item (16) Description Battery (3-cell, 26-Wh Li-Pol) For the HP Mini 1000 and Compaq Mini 700 For the red-colored HP Mini 1000 (for use in all countries and regions except Germany) For the red-colored HP Mini 1000 (for use in Germany only) Spare part number 504610-001 512851-001 512851-002 16 Chapter 3 Illustrated parts catalog Display assembly components NOTE: 10.

1-inch display assembly components are not sold separately for the HP Mini 1000. The complete display assembly is available as spare part number 509696-001 for the red-colored HP Mini 1000 or 507312-001 for all other models of the HP Mini 1000. NOTE: 10.2-inch display assembly components are not sold separately. The complete display assembly is available as spare part number 512140-001 for the red-colored HP Mini 1000, 507310-001 for all other models of the HP Mini 1000, or 512143-001 for the Compaq Mini 700. Item (1) (2) (3) Description Speaker grill Speaker assembly (includes left and right cables) Display bezel For use with 8.9-inch panels on the HP Mini 1000 For use with 8.9-inch panels on the Compaq Mini 700 For use with 10.1-inch panels on the Compaq Mini 700 506333-001 509701-001 509704-001 Spare part number 506338-001 506335-001 Display assembly components 17 Item (4) Description Webcam module NOTE: The webcam module spare part kit does not include a webcam cable.



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An integrated display/webcam cable for all 8.

9-inch panels is included in the Display Cable Kit, spare part number 504597-001 (with WLAN) or 504598-001 (with WWAN). An integrated display/webcam cable for 10.1-inch panels (Compaq Mini 700 only) is included in the Display Cable Kit, spare part number 515208-001 (with WLAN) or 515209-001 (with WWAN). For use with all 8.9-inch panels For use with 10.1-inch panels on the Compaq Mini 700 Display Hinge Kit Spare part number 504594-001 515213-001 (5a) (5b) Left and right display panel brackets Left and right display hinges For use with all 8.9-inch panels For use with 10.1-inch panels on the Compaq Mini 700 504596-001 515207-001 (6) Display panel 8.9-inch WSVGA BrightView for the HP Mini 1000 and the Compaq Mini 700 10.1-inch standard-definition AntiGlare for the Compaq Mini 700 509698-001 509703-001 (7) Display Cable Kit (includes microphone assembly and display/webcam cable) For use with all 8.

9-inch panels; includes WLAN For use with all 8.9-inch panels; includes WWAN For use with 10.1-inch panels on the Compaq Mini 700; includes WLAN For use with 10.1-inch panels on the Compaq Mini 700; includes WWAN 504597-001 504598-001 515208-001 515209-001 (8) Display enclosure (includes logo) For use with 8.9-inch panels on the HP Mini 1000 For use with 8.

9-inch, 10.1-inch, and 10.2-inch panels on the Compaq Mini 700 Display Rubber Kit (not illustrated) For use with all 8.9-inch panels For use with 10.1-inch panels on the Compaq Mini 700 Display Screw Kit (not illustrated) For use with all 8.

9-inch panels For use with 10.1-inch panels on the Compaq Mini 700 Foil shield (not illustrated) For use with all 8.9-inch display panels For use with 10.1-inch display panels on the Compaq Mini 700 506334-001 515212-001 509700-001 515211-001 509699-001 515210-001 504595-001 509702-001 18 Chapter 3 Illustrated parts catalog Cable Kit Item Description Cable Kit: Spare part number 507708-001 (1) (2) (3) (4) (5) SIM card cable Power cable Internal display switch module Bluetooth cable USB cable Cable Kit 19 Mass storage devices NOTE: Item Each hard drive spare part kit and solid-state drive spare part kit includes a cable and bracket. Description Mass storage devices: Spare part number (1) Hard drive (select models only): 60-GB, 4200-rpm Hard Drive Hardware Kit (not illustrated) 504601-001 504607-001 (2) Solid-state drive 16-GB 8-GB 507314-001 507313-001 20 Chapter 3 Illustrated parts catalog Plastics Kit Item Description Plastics Kit: For the HP Mini 1000 and Compaq Mini 700 For the red-colored HP Mini 1000 Spare part number 507317-001 512192-001 (1) (2) (3) (4) Memory module compartment cover HP Mini Mobile Drive Bay cover Security cable connector SD Card Reader slot bezel Plastics Kit 21 Miscellaneous parts Description Bracket Kit Actuators for power switch and wireless switch DC jack bracket (fits over power and USB ports) Internal display switch bracket RJ-45 connector bracket USB connector bracket WWAN connector bracket Spare part number 507318-001 HP Mini Mobile Drive (supported on models equipped with a solid-state drive and HP Mini Mobile Drive Bay) 2-GB 4-GB 8-GB HP Mini Sleeve For the HP Mini 1000 For the red-colored HP Mini 1000 Power cord For use in Argentina (HP Mini 1000 only) For use in Australia (HP Mini 1000 only) For use in Brazil (HP Mini 1000 only) For use in China (HP Mini 1000 only) For use in Denmark For use in Europe For use in India (HP Mini 1000 only) For use in Italy (HP Mini 1000 only) For use in Japan (HP Mini 1000 only) For use in North America (HP Mini 1000 only) For use in Singapore and the United Kingdom For use in South Africa For use in South Korea (HP Mini 1000 only) For use in Taiwan (HP Mini 1000 only) Rubber Kit (contains 4 device feet and RJ-45 cover) 490371-D01 490371-011 490371-201 490371-AA1 490371-081 490371-021 490371-D61 490371-061 490371-291 490371-001 490371-031 490371-AR1 490371-AD1 490371-AB1 504613-001 512321-001 511844-001 512329-001 512330-001 512331-001 22 Chapter 3 Illustrated parts catalog Description Screw Kit Phillips PM1.6x2.5 screw Phillips PM1.6x4.0 screw Phillips PM1.6x6.

0 screw Phillips PM2.0x3.0 screw Phillips PM2.0x4.5 screw Phillips PM2.5x5.0 screw Phillips PM2.5x7.0 screw Spare part number 504614-001 30-W UMA AC adapter For use in all countries and regions except Germany For use in Germany only 496813-001 512852-001 Miscellaneous parts 23 Sequential part number listing Spare part number 483377-002 490371-001 490371-011 490371-021 490371-031 490371-061 490371-081 490371-201 490371-291 490371-AA1 490371-AB1 490371-AD1 490371-AR1 490371-D01 490371-D61 496813-001 504592-001 504593-002 Description HP un2400 Mobile Broadband Module Power cord for use in North America (HP Mini 1000 only) Power cord for use in Australia (HP Mini 1000 only) Power cord for use in Europe Power cord for use in Singapore and the United Kingdom Power cord for use in Italy (HP Mini 1000 only) Power cord for use in Denmark Power cord for use in Brazil (HP Mini 1000 only) Power cord for use in Japan (HP Mini 1000 only) Power cord for use in China (HP Mini 1000 only) Power cord for use in Taiwan (HP Mini 1000 only) Power cord for use in South Korea (HP Mini 1000 only) Power cord for use in South Africa Power cord for use in Argentina (HP Mini 1000 only) Power cord for use in India (HP Mini 1000 only) 30-W UMA AC adapter for use in all countries and regions except Germany System board equipped with 1.6-GHz processor (includes replacement thermal material) Broadcom 4312 802.

11/b/g WLAN module for use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States Broadcom 4312 802.11/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, the People's Republic of China, 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, Grenada, 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, Peru, the Philippines, Poland, Portugal, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, the Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, South Korea, Spain, Sri Lanka, St.



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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 24 Chapter 3 Illustrated parts catalog Spare part number 504594-001 Description Webcam module for use with all 8.9-inch panels NOTE: The webcam module spare part kit does not include a webcam cable. An integrated display/webcam cable is included in the Display Cable Kit, spare part number 504597-001 (with WLAN) or 504598-001 (with WWAN). 504595-001 504596-001 504597-001 504598-001 504599-001 504600-001 504601-001 504607-001 504610-001 504611-001 504611-031 504611-041 504611-051 504611-061 504611-071 504611-131 504611-141 504611-161 504611-171 504611-251 504611-281 504611-291 504611-AB1 504611-AD1 504611-B31 504612-001 504613-001 504614-001 504615-001

Display enclosure (includes logo) for use with 8.

9-inch panels on the HP Mini 1000 Display Hinge Kit for use with all 8.9-inch panels (includes left/right display hinges and display panel brackets) Display Cable Kit with WLAN for use with all 8.9-inch panels (includes microphone assembly and display/webcam cable) Display Cable Kit with WWAN for use with all 8.9-inch panels (includes microphone assembly and display/webcam cable) 512-MB memory module (PC2-4200, 533-MHz, DDR2) 1024-MB memory module (PC2-4200, 533-MHz, DDR2) 60-GB, 4200-rpm hard drive (includes cable and bracket) Hard Drive Hardware Kit 3-cell, 26-Wh Li-Pol battery for the HP Mini 1000 and Compaq Mini 700 Keyboard for use in the United States Keyboard for use in the United Kingdom (Compaq Mini 700 only) Keyboard for use in Germany (Compaq Mini 700 only) Keyboard for use in France (Compaq Mini 700 only) Keyboard for use in Italy (Compaq Mini 700 only)

Keyboard for use in Spain Keyboard for use in Portugal (Compaq Mini 700 only) Keyboard for use in Turkey (Compaq Mini 700 only) Keyboard for use in Latin America (HP Mini 1000 only) Keyboard for use in Saudi Arabia (Compaq Mini 700 only) Keyboard for use in Russia Keyboard for use in Thailand (HP Mini 1000 only) Keyboard for use in Japan (HP Mini 1000 only) Keyboard for use in Taiwan (HP Mini 1000 only) Keyboard for use in South Korea (HP Mini 1000 only) Keyboard for international use (Compaq Mini 700 only) Top cover (includes TouchPad) for the HP Mini 1000 and Compaq Mini 700 Rubber Kit

(contains 4 device feet and RJ-45 cover) Screw Kit Fan Sequential part number listing 25 Spare part number 506333-001 506334-001 506335-001 506336-001 506337-001 506338-001 507309-001 507310-001 507312-001 507313-001 507314-001 507317-001 507318-001 507706-001 Description

Display bezel for use with 8.9-inch panels on the HP Mini 1000 Foil shield for use with all 8.9-inch display panels Speaker assembly (includes left and right cables) USB board Base enclosure (includes 4 rubber feet) for the HP Mini 1000 and Compaq Mini 700 Speaker grill for the HP Mini 1000 and Compaq Mini 700 8.9-inch WSVGA BrightView display assembly for the HP Mini 1000 (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables; WWAN is optional) 10.2-inch, WSVGA, AntiGlare display assembly for the HP Mini 1000 (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables; WWAN is optional) 10.1-inch, standard-definition, AntiGlare display assembly for the HP Mini 1000 (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables; WWAN is optional) 8-GB solid-state drive (includes cable and bracket) 16-GB solid-state drive (includes cable and bracket) Plastics Kit for the HP Mini 1000 and Compaq Mini 700 (see Plastics Kit on page 21 for more Plastics Kit spare part number information) Bracket Kit Bluetooth module NOTE: The Bluetooth module spare part kit does not include a Bluetooth module cable. The Bluetooth module cable is included in the Cable Kit, spare part number 507708-001.

507707-001 507708-001 508638-001 509650-001 509650-031 509650-041 509650-051 509650-061 509650-071 509650-131 509650-141 509650-161 509650-171 509650-251 509650-281 RTC battery Cable Kit 8.9-inch WSVGA BrightView display assembly for the Compaq Mini 700 (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables; WWAN is optional) Keyboard for use in the United States (red-colored HP Mini 1000 only) Keyboard for use in the United Kingdom (red-colored HP Mini 1000 only) Keyboard for use in Germany (red-colored HP Mini 1000 only) Keyboard for use in France (red-colored HP Mini 1000 only) Keyboard for use in Italy (red-colored HP Mini 1000 only) Keyboard for use in Spain (red-colored HP Mini 1000 only) Keyboard for use in Portugal (red-colored HP Mini 1000 only) Keyboard for use in Turkey (red-colored HP Mini 1000 only) Keyboard for use in Latin America (red-colored HP Mini 1000 only) Keyboard for use in Saudi Arabia (red-colored HP Mini 1000 only) Keyboard for use in Russia (red-colored HP Mini 1000 only) Keyboard for use in Thailand (red-colored HP Mini 1000 only) 26 Chapter 3 Illustrated parts catalog Spare part number 509650-291 509650-AB1 509650-AD1 509650-B31 509696-001 509697-001 509698-001 509699-001 509700-001 509701-001 509702-001 509703-001 509704-001 511844-001 512140-001 512143-001 512189-001 512190-001 512191-001 512192-001 512321-001 512329-001 512330-001 512331-001 512851-001 512851-002 512852-001 515099-001 515207-001 Description Keyboard for use in Japan (red-colored HP Mini 1000 only) Keyboard for use in Taiwan (red-colored HP Mini 1000 only) Keyboard for use in South Korea (red-colored HP Mini 1000 only) Keyboard for international use (red-colored HP Mini 1000 only) 10.1-inch, standard-definition, AntiGlare display assembly for the red-colored HP Mini 1000 (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables; WWAN is optional) 10.1-inch, standard-definition, AntiGlare display assembly for the Compaq Mini 700 (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables; WWAN is optional) 8.9-inch WSVGA BrightView display panel for the HP Mini 1000 and the Compaq Mini 700 Display Rubber Kit for use with all 8.9-inch panels Display Screw Kit for use with all 8.9-inch panels Display bezel for use with 8.9-inch panels on the Compaq Mini 700 Display enclosure (includes logo) for use with 8.9-inch, 10.1-inch, and 10.

2-inch panels on the Compaq Mini 700 10.1-inch standard-definition AntiGlare display panel for the Compaq Mini 700 Display bezel for use with 10.1-inch panels on the Compaq Mini 700 HP Mini Sleeve for the red-colored HP Mini 1000 10.2-inch, WSVGA, AntiGlare display assembly for the red-colored HP Mini 1000 (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables; WWAN is optional) 10.2-inch, WSVGA, AntiGlare display assembly for the Compaq Mini 700 (includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables; WWAN is optional) Base enclosure (includes 4 rubber feet) for the red-colored HP Mini 1000 Top cover (includes TouchPad) for the red-colored HP Mini 1000 Speaker grill for the red-colored HP Mini 1000 Plastics Kit for the red-colored HP Mini 1000 (see Plastics Kit on page 21 for more Plastics Kit spare part number information) HP Mini Sleeve for the HP Mini 1000 HP Mini Mobile Drive, 2-GB HP Mini Mobile Drive, 4-GB HP Mini Mobile Drive, 8-GB 3-cell, 26-Wh Li-Pol battery for the red-colored HP Mini 1000 (for use in all countries and regions except Germany) 3-cell, 26-Wh Li-Pol battery for the red-colored HP Mini 1000 (for use in Germany only) 30-W UMA AC adapter (for use in Germany only) Heat sink assembly (includes replacement thermal material) Display Hinge Kit for use with 10.

Kit for use with 10.



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1-inch panels on the Compaq Mini 700 Sequential part number listing 27 Spare part number 515208-001 515209-001 515210-001 515211-001 515212-001 515213-001 Description Display Cable Kit with WLAN for use with 10.1-inch panels on the Compaq Mini 700 (includes microphone assembly and display/webcam cable) Display Cable Kit with WWAN for use with 10.1-inch panels on the Compaq Mini 700 (includes microphone assembly and display/webcam cable) Display Rubber Kit for use with 10.1-inch panels on the Compaq Mini 700 Display Screw Kit for use with 10.1-inch panels on the Compaq Mini 700 Foil shield for use with 10.

1-inch display panels on the Compaq Mini 700 Webcam module for use with 10.1-inch panels on the Compaq Mini 700 NOTE: The webcam module spare part kit does not include a webcam cable. An integrated display/webcam cable is included in the Display Cable Kit, spare part number 515208-001 (with WLAN) or 515209-001 (with WWAN). 517577-001 2048-MB memory module (PC2-4200, 533-MHz, DDR2) for the HP Mini 1000 only 28 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. NOTE: As you remove each subassembly from the device, place the subassembly (and all accompanying screws) away from the work area to prevent damage. Plastic parts CAUTION: Using excessive force during disassembly and reassembly can damage plastic parts. Use care when handling the plastic parts. Apply pressure only at the points designated in the maintenance instructions. Cables and connectors CAUTION: When servicing the device, be sure that cables are placed in their proper locations during the reassembly process. Improper cable placement can damage the device.

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. Preliminary replacement requirements 29 Drive handling CAUTION: Drives are fragile components that must be handled with care. To prevent damage to the device, damage to a drive, or loss of information, observe these precautions: Before removing or inserting a hard drive, shut down the device. @@Before handling a drive, be sure that you are discharged of static electricity. While handling a drive, avoid touching the connector.

Handle drives on surfaces covered with at least one inch of shock-proof foam. Avoid dropping drives from any height onto any surface. After removing a hard drive, an optical drive, or a diskette drive, place it in a static-proof bag. Avoid exposing a hard drive to products that have magnetic fields, such as monitors or speakers. Avoid exposing a drive to temperature extremes or liquids.

If a drive must be mailed, place the drive in a bubble pack mailer or other suitable form of protective packaging and label the package "FRAGILE." 30 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 device 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 31 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.



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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. 32 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. @2. 3. 4.

5. 6. 7. 8. 9. These steps also clear CMOS. Shut down the device. @@Disconnect all external devices connected to the device. @@Remove the battery (see Battery on page 37). @@Wait approximately 5 minutes.

Replace the RTC battery and reassemble the device. Connect AC power to the device. Do not reinsert any batteries at this time.

@@@@@@@@@@@@@@@@@@@@@When ordering parts or requesting information, provide the device serial number and model description provided on the service tag. Component replacement procedures 35 Device feet The device feet are adhesive-backed rubber pads. The feet are included in the Rubber Kit, spare part number 504613-001. There are 4 rubber feet that are installed on the base enclosure in the locations illustrated below. 36 Chapter 4 Removal and replacement procedures Battery Description 3-cell, 26-Wh Li-Pol battery for the HP Mini 1000 and Compaq Mini 700 3-cell, 26-Wh Li-Pol battery for the red-colored HP Mini 1000 (for use in all countries and regions except Germany) 3-cell, 26-Wh Li-Pol battery for the red-colored HP Mini 1000 (for use in Germany only) Spare part number 504610-001 512851-001 512851-002 Before disassembling the device, follow these steps: 1. 2. 3.

Shut down the device. @@Disconnect all external devices connected to the device. Remove the battery: 1. 2. 3. Turn the device upside down on a flat surface, with the battery bay toward you. Slide the battery release latches (1) to release the battery. Pivot the battery (2) upward and remove the battery from the device (3). To install the battery, insert the rear edge of the battery into the battery bay and pivot the battery downward until it is seated. The battery release latch automatically locks the battery into place.

Component replacement procedures 37 Memory module Description 512-MB (PC2-4200, 533-MHz, DDR2) 1024-MB (PC2-4200, 533-MHz, DDR2) 2048-MB (PC2-4200, 533-MHz, DDR2) (HP Mini 1000 only) Spare part number 504599-001 504600-001 517577-001 Before removing the memory module, follow these steps: 1. 2. 3. 4. Shut down the device. @@Disconnect all external devices connected to the device. @@Remove the battery (see Battery on page 37). Remove the memory module: 1. Slide the right battery release latch to the inside or "unlocked" position to reveal the release latch for the memory module compartment cover. Use a thin, narrow tool to slide the release latch to the outside or "unlocked" position (1). @@@@@@@@@@ 2. 3. 4. Shut down the device. @@Disconnect all external devices connected to the device. @@@@@@@@@@ 3. Turn the device display-side up, with the front toward you. @@@@@@@@@@ 2. 3. 4.

5. Shut down the device. @@Disconnect all external devices connected to the device. @@Remove the battery (see Battery on page 37). @2. @@The end of the cable lies across the top of the hard drive. @@4. @@Disconnect the hard drive cable (2). @@To remove the solid-state drive: 1. 2.

@@The end of the cable lies across the top of the solid-state drive. @@4. @@Disconnect the solid-state drive cable (2). Remove the two Phillips PM2.0x4.5 screws (3) that secure the drive bracket to the device. Component replacement procedures 43 6. Remove the drive bracket (4) from the drive bay. 7. 8. Remove the three Phillips PM2.0x3.0 screws (1) that secure the solid-state drive to the bracket. Remove the solid-state drive (2) from the bracket. Reverse this procedure to install the solid-state drive.

44 Chapter 4 Removal and replacement procedures Top cover Description Top cover (includes TouchPad) Spare part number 504612-001 Before removing the top cover, follow these steps: 1. 2. 3. 4. 5.

6. 1. 2. Shut down the device. @@Disconnect all external devices connected to the device. @@Remove the battery (see Battery on page 37). Remove the keyboard (see Keyboard on page 40). Remove the hard drive or solid-state drive (see Mass storage devices on page 42). Turn the device upside down, with the front toward you. Use a thin, flat tool to remove the four screw covers (1).

There are three different variations of the covers, each of which is shaped like a rounded square: 3. The two front covers are short in height and are notched to prevent incorrect insertion. The right rear cover is taller in height and is notched. The left rear cover is taller in height and is not notched. Remove the four Phillips PM2.5x7.0 screws (2) that secure the top cover to the base enclosure. 4. Turn the device right-side up, with the front toward you. Component replacement procedures 45 5.

6. Open the device as far as possible. Remove the Phillips PM2.0x4.5 screw (1) and the Phillips PM2.5x5.0 screw (2) that secure the top cover to the base enclosure. 7. Lift the rear edge of the top cover (1) and swing it up. Then slide the top cover back slightly to rest against the display assembly (2) at an angle.

8. Release the ZIF connector (1) to which the TouchPad button board cable is connected. 46 Chapter 4 Removal and replacement procedures 9. Disconnect the TouchPad button board cable (2) from the system board, and then remove the top cover. Reverse this procedure to install the top cover. Component replacement procedures 47 WLAN module Description Broadcom 4312 802.11/b/g WLAN module for use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States Broadcom 4312 802.11/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, the People's Republic of China, 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, Grenada, 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, Peru, the Philippines, Poland, Portugal, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, the Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, South Korea, Spain, Sri Lanka, St.



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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 Spare part number 504593-001 504593-002 CAUTION: The WWAN module and the WLAN module are not interchangeable. @@@@Before removing the WLAN module, follow these steps: 1. 2. 3. 4. 5. Shut down the device. @@Disconnect all external devices connected to the device.

@@Remove the battery (see Battery on page 37). Remove the following components: a. b. c. @@2.

@@@@Detach the black tape from the cables. 3. 4. @@@@@@@@@@@@@@@@@@Before removing the WWAN module, follow these steps: 1. 2.

3. 4. 5. Shut down the device. @@Disconnect all external devices connected to the device. @@Remove the battery (see Battery on page 37). Remove the following components: a. b. c. @@Detach the black Mylar covering from the WWAN module.

@@NOTE: The red WWAN antenna cable is connected to the WWAN module "Main" terminal. The blue WWAN antenna cable is connected to the WWAN module "Aux" terminal. 3. 4. Remove the Phillips PM2.0x3.0 screw (2) that secures the WWAN connector bracket (3) to the system board. (The edge of the module opposite the slot rises away from the device.) Remove the WWAN module (4) by pulling the module away from the slot at an angle. NOTE: WWAN modules are designed with a notch (5) to prevent incorrect insertion.

Reverse this procedure to install the WWAN module. Component replacement procedures 51 RTC battery Description RTC battery Spare part number 507707-001 NOTE: Removing the RTC battery and leaving it uninstalled for 5 or more minutes causes all passwords and CMOS settings to be cleared. Before removing the real-time clock (RTC) battery, follow these steps: 1. 2. 3.

4. 5. Shut down the device. @@Disconnect all external devices connected to the device. @@Remove the battery (see Battery on page 37).

Remove the following components: a. b. c. Keyboard (see Keyboard on page 40) Hard drive or solid-state drive (see Mass storage devices on page 42) Top cover (see Top cover on page 45) Remove the RTC battery: 1. 2. Disconnect the RTC battery cable (1) from the system board. Detach the RTC battery (2) from the system board. NOTE: The RTC battery is attached to the system board with double-sided tape. Reverse this procedure to install the RTC battery. 52 Chapter 4 Removal and replacement procedures Bluetooth module NOTE: The Bluetooth module spare part kit does not include a Bluetooth module cable.

The Bluetooth module cable is included in the Cable Kit, spare part number 507708-001. Description Bluetooth module Spare part number 507706-001 Before removing the Bluetooth module, follow these steps: 1. 2. 3. 4. 5. Shut down the device. @@Disconnect all external devices connected to the device.

@@Remove the battery (see Battery on page 37). Remove the following components: a.

b. c. Keyboard (see Keyboard on page 40) Hard drive or solid-state drive (see Mass storage devices on page 42) Top cover (see Top cover on page 45) Remove the Bluetooth module: 1. 2. Disconnect the Bluetooth module cable (1) from the system board.

Detach the Bluetooth module (2) from the system board. NOTE: The Bluetooth module is attached to the system board with double-sided tape. Reverse this procedure to install the Bluetooth module. Component replacement procedures 53 System board NOTE: The system board spare part kit includes a processor and replacement thermal material. Spare part number 504592-001 Description System board equipped with 1.

6-GHz processor Before removing the system board, follow these steps: 1. 2. 3. 4. 5. Shut down the device. @@Disconnect all external devices connected to the device. @@Remove the battery (see Battery on page 37). Remove the following components: a. b.

c. Keyboard (see Keyboard on page 40) Hard drive or solid-state drive (see Mass storage devices on page 42) Top cover (see Top cover on page 45) 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: WLAN module (see WLAN module on page 48) WWAN module, if included (see WWAN module on page 50) RTC battery (see RTC battery on page 52) Bluetooth module (see Bluetooth module on page 53) Heat sink assembly (see Heat sink assembly on page 57) Remove the system board: 1. 2. Disconnect the wireless antenna cables from the terminals on the WLAN module (see WLAN module on page 48). If the device also includes a WWAN module, disconnect the wireless antenna cables from the terminals on the WWAN module (see WWAN module on page 50). 54 Chapter 4 Removal and replacement procedures 3. Disconnect the following cables from the system board: (1) Speaker cables (2) Microphone cable (3) Fan cable (4) Power cable (5) Display panel cable 4. 5. Remove the two Phillips PM1.6x2.

5 screws (1) that secure the actuators for the power switch and wireless on/off switch to the system board. Remove the actuators (2). NOTE: The actuators are included in the Bracket Kit, spare part number 507318-001. 6. Remove the two Phillips PM2.

0x3.0 screws (1) that secure the USB connector bracket to the base enclosure. Component replacement procedures 55 7. Remove the USB connector bracket (2). NOTE: The USB connector bracket is included in the Bracket Kit, spare part number 507318-001.

8. Remove the Phillips PM2.0x4.5 screw that secures the system board to the base enclosure. 56 Chapter 4 Removal and replacement procedures 9. Grasp the system board at its midpoint (1) and lift the right side (2) up. Then remove the system board (3) from the base enclosure. Reverse the procedure to install the system board. Heat sink assembly NOTE: The heat sink assembly spare part kit includes replacement thermal material. Spare part number 515099-001 Description Heat sink assembly Before removing the heat sink assembly, follow these steps: 1.

2. 3. 4. 5. Shut down the device. @@Disconnect all external devices connected to the device. @@Remove the battery (see Battery on page 37). Remove the following components: a. b. c.

d. Keyboard (see Keyboard on page 40) Hard drive or solid-state drive (see Mass storage devices on page 42) Top cover (see Top cover on page 45) WLAN module (see WLAN module on page 48) Remove the heat sink assembly: 1. Remove the two Phillips PM1.6x2.5 screws (1) that secure the heat sink assembly to the system board.

Component replacement procedures 57 2. Remove the heat sink assembly (2). NOTE: Due to the adhesive quality of the thermal material located between the heat sink assembly and system board components, it may be necessary to move the heat sink assembly from side to side to detach the assembly. NOTE: The thermal material must be thoroughly cleaned from the surfaces of the heat sink assembly and the system board each time the heat sink assembly is removed.



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Thermal paste is used on the processor (1), the heat sink section (2) that services the processor, the Northbridge chip (3), and the heat sink section (4) that services the Northbridge chip.

Replacement thermal material is included with all heat sink assembly and system board spare part kits. Reverse this procedure to install the heat sink assembly. 58 Chapter 4 Removal and replacement procedures Fan Description Fan Spare part number 504615-001 NOTE: To properly ventilate the device, allow at least a 7.6-cm (3-inch) clearance on the left side of the device. The device 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 device. Before removing the fan, follow these steps: 1. 2.

3. 4. 5. Shut down the device. @@Disconnect all external devices connected to the device. @@Remove the battery (see Battery on page 37). Remove the following components: a. b. c. d.

Keyboard (see Keyboard on page 40) Hard drive or solid-state drive (see Mass storage devices on page 42) Top cover (see Top cover on page 45) System board (see System board on page 54) Remove the fan: 1. 2. Detach the black mylar covering and tape (see WLAN module on page 48), and then move the cables aside. Remove the Phillips PM2.0×3.

0 screw (1) and the Phillips PM2.0×4.5 screw (2) that secure the fan to the base enclosure. Component replacement procedures 59 3. Remove the fan (3).

Reverse this procedure to install the fan. 60 Chapter 4 Removal and replacement procedures USB board and internal display switch NOTE: The internal display switch module is included in the Cable Kit, spare part number 507708-001. Spare part number 506336-001 Description USB board Before removing the USB board, follow these steps: 1. 2. 3. 4. 5. 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. Disconnect all external devices connected to the computer.

Disconnect the power from the computer by first unplugging the power cord from the AC outlet and then unplugging the AC Adapter from the computer. Remove the battery (see Battery on page 37). Remove the following components: a. b. c. d. Keyboard (see Keyboard on page 40). Hard drive (see Mass storage devices on page 42). Top cover (see Top cover on page 45). Fan (see Fan on page 59).

Remove the USB board: 1. 2. Disconnect the internal display switch cable (1) from the USB board. Remove the Phillips PM2.0×3.

0 screw (2) that secures the DC jack bracket to the base enclosure. 3. Remove the DC jack bracket (1) and USB board (2) from the base enclosure.

Component replacement procedures 61 4. Detach the SIM card cable (3).

The SIM card cable is attached to the battery bay with tape. Reverse this procedure to install the USB board. If it is necessary to replace the internal display switch module, perform the following steps: 1. 2. Remove the Phillips PM2.0×3.0 screw (1) that secures the internal display switch bracket to the base enclosure. Remove the internal display switch bracket (2) and module (3) from the base enclosure. Reverse this procedure to install the internal display switch. 62 Chapter 4 Removal and replacement procedures Display assembly NOTE: Each display assembly spare part kit includes 1 webcam, 1 microphone, 1 speaker box, and 2 WLAN antenna transceivers/cables; WWAN is optional.

NOTE: 10.1-inch display assembly components are not sold separately for the HP Mini 1000. The complete display assembly is available as spare part number 509696-001 for the red-colored HP Mini 1000 or 507312-001 for all other models of the HP Mini 1000. NOTE: 10.2-inch display assembly components are not sold separately. The complete display assembly is available as spare part number 512140-001 for the red-colored HP Mini 1000, 507310-001 for all other models of the HP Mini 1000, or 512143-001 for the Compaq Mini 700. Description 8.9-inch, WSVGA, BrightView (HP Mini 1000) 10.1-inch standard-definition AntiGlare (Compaq Mini 700) 10.1-inch standard-definition AntiGlare (HP Mini 1000) 10.1-inch standard-definition AntiGlare (red-colored HP Mini 1000) 10.1-inch standard-definition AntiGlare (Compaq Mini 700) 10.2-inch WSVGA AntiGlare (HP Mini 1000) 10.2-inch WSVGA AntiGlare (red-colored HP Mini 1000) 10.2-inch WSVGA AntiGlare (Compaq Mini 700) See Display assembly components on page 17 for more spare part information.

Spare part number 507309-001 508638-001 507312-001 509696-001 509697-001 507310-001 512140-001 512143-001 Before removing the display assembly, follow these steps: 1. 2. 3. 4. 5.

Shut down the device. @@Disconnect all external devices connected to the device. @@Remove the battery (see Battery on page 37). Remove the following components: a. b. c. Keyboard (see Keyboard on page 40) Hard drive or solid-state drive (see Mass storage devices on page 42) Top cover (see Top cover on page 45) CAUTION: Support the display assembly when removing the following screws. Failure to support the display assembly can result in damage to the display assembly and other device components. Remove the display assembly: 1. Remove the three remaining Phillips PM2.

5×5.0 screws (1) that secure the display assembly to the device. Component replacement procedures 63 2. Remove the display assembly (2). 3. If it is necessary to replace the speaker assembly, perform the following steps: a. Squeeze the sides of the speaker grill together to release the pressure clips, and then remove the speaker grill. The speaker grill is available as spare part number 506338-001. b. Remove the two Phillips PM2.

0×4.5 screws (1) that secure the speaker assembly to the display enclosure. All display assembly subcomponent screws are available in the Display Screw Kit, spare part number 509700-001 for all 8.9-inch panels or 515211-001 for 10.1-inch panels (Compaq Mini 700 only).

64 Chapter 4 Removal and replacement procedures c. Remove the speaker assembly (2). The speaker assembly is available as spare part number 506335-001. 4. If it is necessary to replace the display hinges, perform the following steps: a.

b. Remove the two Phillips PM2.0×4.5 screws (1) that secure each hinge to the display enclosure. Remove the hinges (2). The hinges are available in the Display Hinge Kit, spare part number 504596-001 for all 8.9-inch panels or 515207-001 for 10.1-inch panels (Compaq Mini 700 only). 5. If it is necessary to replace the display bezel, perform the following steps: a.

Flex the inside edges of the bottom (1), left and right sides (2), and the top (3) of the display bezel until the bezel disengages from the display enclosure.



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Component replacement procedures 65 b. Remove the display bezel (4). The spare part numbers for the 8.9-inch display bezels are 506333-001 (HP Mini 1000) and 509701-001 (Compaq Mini 700). The spare part number for the 10.1-inch display bezel is 509704-001 (Compaq Mini 700 only). 6. If it is necessary to replace the webcam module, perform the following steps: a. b.

c. Open the tab built into the display enclosure shielding that secures the microphone cable, and then release the microphone (1) from its clip. Release the ZIF connector (2) to which the integrated display/webcam cable is attached. Disconnect the display/webcam cable (3) from the display enclosure. The microphone assembly and display/webcam cable for all 8.9-inch panels is available in the Display Cable Kit, spare part number 504597-001 (with WLAN) or 504598-001 (with WWAN). The microphone assembly and display/webcam cable for 10.1-inch panels (Compaq Mini 700 only) is available in the Display Cable Kit, spare part number 515208-001 (with WLAN) or 515209-001 (with WWAN). 66 Chapter 4 Removal and replacement procedures d. e.

Remove the two Phillips PM2.0×3.0 screws (1) that secure the webcam module to the display enclosure. Remove the webcam module (2). The webcam module is available as spare part number 504594-001 for all 8.9-inch panels or 515213-001 for 10.1-inch panels (Compaq Mini 700 only). 7. If it is necessary to replace the display panel, perform the following steps: a. Remove the nine Phillips PM2.0×3.0 screws that secure the display panel to the display enclosure. b. Remove the wireless antenna cables (1) from the clips and routing channels built into the display and brackets (2). Component replacement procedures 67 c. Remove the display panel (3) from the display enclosure. An 8.9-inch display panel for the HP Mini 1000 and the Compaq Mini 700 is available as spare part number 509698-001. A 10.1-inch display panel for the Compaq Mini 700 only is available as spare part number 509703-001.

8. If it is necessary to replace the display panel brackets, perform the following steps: a. b. Remove the four Phillips PM2.0×3.0 screws (1) that secure the brackets to the display panel. Remove the brackets (2). The brackets are available in the Display Hinge Kit, spare part number 504596-001 for all 8.9-inch panels or 515207-001 for 10.1-inch panels (Compaq Mini 700 only).

68 Chapter 4 Removal and replacement procedures 9. If it is necessary to replace the wireless antenna transceivers and cables, detach the cables from the adhesive that secures them to the display enclosure, and then remove the cables. The wireless antenna transceivers and cables for all 8.9-inch panels are available in the Display Cable Kit, spare part number 504597-001 (with WLAN) or 504598-001 (with WWAN). The wireless antenna transceivers and cables for 10.1-inch panels (Compaq Mini 700 only) are available in the Display Cable Kit, spare part number 515208-001 (with WLAN) or 515209-001 (with WWAN). Reverse this procedure to reassemble and install the display assembly. Component replacement procedures 69 5 Setup Utility Starting the Setup Utility The Setup Utility is a ROM-based information and customization utility that can be used even when your Windows operating system is not working. The utility reports information about the device and provides settings for startup, security, and other preferences. To start the Setup Utility, turn on or restart the device, and then press f10 while the "F10 = BIOS Setup Options" message is displayed in the lower-left corner of the screen.

Using the Setup Utility Changing the language of the Setup Utility The following procedure explains how to change the language of the Setup Utility. If the Setup Utility is not already running, begin at step 1. If the Setup Utility is running, begin at step 2. 1. 2. 3. 4. 5. To open the Setup Utility, turn on or restart the device, and then press f10 while the "F10 = BIOS Setup Options" message is displayed in the lower-left corner of the screen. Use the arrow keys to select System Configuration > Language, and then press enter.

Use the arrow keys to select a language, and then press enter. When a confirmation prompt with your language selected is displayed, press enter. To save your change and exit the Setup Utility, use the arrow keys to select Exit > Exit Saving Changes, and then press enter. Your change becomes effective immediately. 70 Chapter 5 Setup Utility Navigating and selecting in the Setup Utility Because the Setup Utility is not Windows based, it does not support the TouchPad.

Navigation and selection are by keystroke. To choose a menu or a menu item, use the arrow keys. To choose an item in a list or to toggle a field, for example an Enable/Disable field, use either the arrow keys or f5 or f6. To select an item, press enter. To close a text box or return to the menu display, press esc. To display additional navigation and selection information while the Setup Utility is open, press f1. Displaying system information The following procedure explains how to display system information in the Setup Utility. If the Setup Utility is not already running, begin at step 1. If the Setup Utility is running, begin at step 2. 1. 2. 3. To open the Setup Utility, turn on or restart the device, and then press f10 while the "F10 = BIOS Setup Options" message is displayed in the lower left corner of the screen. Select the Main menu. System information such as the system time and date and identification information about the device is displayed.

To exit the Setup Utility without changing any settings, use the arrow keys to select Exit > Exit Discarding Changes, and then press enter. Restoring default settings in the Setup Utility The following procedure explains how to restore the Setup Utility default settings. If the Setup Utility is not already running, begin at step 1. If the Setup Utility is running, begin at step 2. 1. To open the Setup Utility, turn on or restart the device, and then press f10 while the "F10 = BIOS Setup Options" message is displayed in the lower-left corner of the screen. Use the arrow keys to select Exit > Load Setup Defaults, and then press enter.

When the Setup Confirmation is displayed, press enter. To save your change and exit the Setup Utility, use the arrow keys to select Exit > Exit Saving Changes, and then press enter. 2.

3. 4. The Setup Utility default settings go into effect when the device restarts. NOTE: Your password, security, and language settings are not changed when you restore the factory default settings. Using the Setup Utility 71 Exiting the Setup Utility You can exit the Setup Utility with or without saving changes. To exit the Setup Utility and save your changes from the current session: If the Setup Utility menus are not visible, press esc to return to the menu display. Use the arrow keys to select Exit > Exit Saving Changes, and then press enter.



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