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NOTE Text set off in this manner presents commentary, side lights, or interesting points of

information. Improper repairs can create a safety hazard. Any indications of component replacement or printed wiring board modifications may void any warranty. **WARNING** To reduce the risk of personal injury from electrical shock and hazardous energy levels, do not exceed the level of repair specified in these procedures. Because of the complexity of the individual boards and subassemblies, do not attempt to make repairs at the component level or to make modifications to any printed wiring board. Improper repairs could create conditions that are hazardous. **WARNING** To reduce the risk of electrical shock or damage to the equipment If the system has multiple power supplies, disconnect power from the system by unplugging all power cords from the power supplies. Do not disable the power cord grounding plug. The grounding plug is an important safety feature. Plug the power cord into a grounded earthed electrical outlet that is easily accessible at all times. **CAUTION** To properly ventilate your system, you must provide at least 12 inches 30.5 cm of clearance at the front and back of the UPS. **CAUTION** The UPS is designed to be electrically grounded. To ensure proper operation, plug the AC power cord into a properly grounded AC outlet only. There is a risk of personal injury from electrical shock and hazardous energy levels. Persons performing installation or service procedures must be Trained Service Technicians, knowledgeable about the procedures, precautions, and hazards associated with AC Power Products. **Symbols on Equipment** These icons may be located on equipment in areas where hazardous conditions may exist. Any surface or area of the equipment marked with these symbols indicates the presence of electrical shock hazards. Enclosed area contains non-operator serviceable parts.

WARNING To reduce risk of injury from electrical shock hazards, do not open this enclosure. Any surface or area of the equipment marked with these symbols indicates the presence of a hot surface or hot component. If this surface is contacted, the potential for injury exists. **WARNING** To reduce the risk of injury from a hot component, allow the surface to cool before touching. **WARNING** To reduce the risk of personal injury or damage to the equipment, observe local health and safety requirements and guidelines for manual material handling. The installation of options and routine maintenance and service of this product must be performed by Trained Service Technicians who are knowledgeable about the procedures, precautions, and hazards associated with AC Power Products. Do not exceed the level of repair specified in these procedures. Because of the complexity of the individual boards and subassemblies, no one should attempt to make repairs at the component level or to make modifications to any printed wiring board. Improper repairs can create a safety hazard. Remove all watches, rings, and any other metal or loose fitting jewelry. Avoid the use of conductive tools that could bridge live parts. **Rack WARNING** To reduce the risk of personal injury or damage to the equipment, ensure that The leveling jacks are extended to the floor. The full weight of the rack rests on the leveling jacks. The stabilizing feet are attached to the rack for a single rack installation. The racks are coupled in multiple rack installations. You extend only one component at a time. A rack may become unstable if more than one component is extended for any reason. Weight 82 lb 37 kg **WARNING** The UPS R3000 XR weighs 82 lb 37 kg when fully assembled. The battery pack weighs 42 lb 19 kg.

To reduce the risk of personal injury or damage to the equipment Observe local health and safety requirements and guidelines for manual material handling. Obtain adequate assistance to lift and stabilize the product during installation or removal. Remove all pluggable options and batteries to reduce the overall weight of the product. Install the UPS R3000 XR and the Extended Runtime Modules ERMs only at the bottom of the rack. If placed in a rack with existing equipment, the rack must be reconfigured to allow installation of the UPS at the bottom of the rack. Mount the UPS R3000 XR only on the fixed rails included in the UPS package. Refer to the appropriate installation card and rack template, shipped with the UPS R3000 XR kit, for instructions on rackmounting the UPS. **Extended Runtime Modules and Batteries** Observe these precautions when handling or connecting batteries and Extended Runtime Modules. **WARNING** To reduce risk of pers

onal injury from electric shock or damage to equipment. A Trained Service Technician must install all batteries and the Extended Runtime Modules (ERMs). Do not attempt to replace batteries unless all battery circuit breakers on any connected ERMs are in the OFF down position. There is a 120Volt potential across the batteries. **WARNING** To reduce the risk of personal injury or equipment damage, adhere to the following precautions when handling batteries. Make sure that only qualified personnel handle or connect the batteries. Remove watches, rings, or other metal objects prior to working with the equipment. Use tools with insulated handles. Do not attempt to replace batteries unless all battery circuit breakers on any connected ERMs are in the OFF down position. There is a 120Volt potential across the batteries. This UPS contains sealed leadacid batteries.

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To reduce the risk of fire or chemical burns, adhere to the following precautions. Do not attempt to recharge batteries after removal from the UPS. Do not disassemble, crush, or puncture the batteries. Do not short the external contacts of the batteries. Do not immerse the batteries in water. Use only the Compaq battery spare designated for this UPS. If the date on the Battery Recharge Date Label has passed without the batteries being recharged, contact an Authorized Compaq Service Representative. **IMPORTANT** Compaq recommends that you do not maintain an inventory of spare batteries onsite unless you implement a procedure to keep these batteries charged while in storage. Do not dispose of used batteries with general office or household waste. Return the used battery for proper disposal to Compaq, your authorized Compaq Partners, or their agents. A recycling center that meets all local environmental standards. Remote Emergency Power Off (REPO) If the UPS R 3000 XR is to be installed in a computer equipment room, it must be connected to a Remote Emergency Power Off (REPO) circuit. **WARNING** To reduce risk of personal injury or damage to equipment. Only a licensed electrician can wire the REPO port. Verify that the main breaker switch is in the OFF position before wiring the REPO port. In North America, the REPO circuit must comply with the NEC NFPA 70, Article 725 for a Class 2 circuit. The REPO port wiring must also meet all other national and local standards in the area in which it is installed. See Table 21 for the names of referenced spare parts. Before You Begin **WARNING** The Compaq UPS R3000 XR is a highenergy product. There is a risk of personal injury from electrical shock and hazardous energy levels.

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Persons performing installation or service procedures must be Trained Service Technicians, knowledgeable about the procedures, precautions, and hazards associated with highenergy AC Power Products. Before beginning any of the procedures in this chapter, read and understand the cautions and warnings in Chapter 1, "Before You Begin." Replaceable Parts The UPS R3000 XR contains the following replaceable parts. Front bezel ! UPS battery pack ! Electronics module. Option or communication board. UPS unit ! ERM battery packs ! Extended Runtime Modules (ERMs) Standby Mode Place the UPS in Standby mode by pressing the STANDBY button on the front panel. Operate Mode Place the UPS in Operate mode by pressing the ON button on the front panel. Configure Mode Place the UPS in Configure mode by removing the front bezel and pressing and holding the Configure button on the front panel until the Configure mode on LED turns solid green. In the Configure mode, the front panel LED display changes function. The LED display and control buttons let you monitor and change the UPS configuration parameters. Emergency Shutdown Compaq UPS R 3000 XR models include a Remote Emergency Power Off (REPO) port as required by the National Electric Code (NEC) NFPA 70. The REPO port allows you to shut the UPS down from a remote location. You can connect the REPO ports of multiple UPSs to a single switch or circuit to shut down your entire system in an emergency. **IMPORTANT** The REPO feature shuts down protected devices immediately and does not follow the orderly shutdown procedure initiated

ed by Compaq Power Management Software. The REPO feature shuts down devices that are operating under either utility or battery power. If the UPS was operating on battery power when the remote switch was closed, no power will be available to the devices until utility power is restored and the devices are manually powered up.

The UPS R3000 XR REPO circuit is an IEC950 Secondary Extra Low Voltage SELV circuit. NOTE Depending on usage and environmental conditions, the batteries should last three to six years. The battery packs are accessed from the front of the unit. NOTE Batteries can be replaced hotswapped without powering off the UPS if the UPS is not supplying battery power to devices utility is present, indicating that the UPS is supplying utility power. To replace batteries with the UPS power of f, follow the procedure in "Powering Down the UPS," in this chapter. Set aside the used battery pack for proper disposal. See "Disposing of Used Batteries," in this chapter. Figure 3 8. Removing the battery pack WARNING The UPS R3000 XR battery pack weighs 42 lb 19 kg. Pb Do not dispose of used batteries with general office or household waste. Return the used battery for proper disposal to. Compaq, your authorized Compaq Partners, or their agents. A recycling center that meets a ll local environmental standards To replace the electronics module with the UPS power off, follow the procedure in "Powering Down the UPS," in this chapter. To replace the electronics module 1. Disconnect the communications cable. Figure 3 9. Disconnecting the communications cable To replace the option or communication board with the UPS power of f, follow the procedure in "Powering Down the UPS," in this chapter. To remove an option or communication board 1. Disconnect the external cable from the board. Figure 313. Disconnecting option board cables 2. If the UPS is powered down, proceed to step 3. If hotswapping the board, remove the electronics module. See steps 2 through 4 in "Replacing the Electronics Module." The UPS switches to AutoBypass mode. Figure 314. Removing an option board 5. Slide the new board into the UPS. 6. Tighten the screws that secure the board to the UPS. 7. If the UPS is powered down, proceed to step 8.

If hotswapping the board, replace the electronics module. NOTE Replacing the communication board resets the timer and schedules. NOTE The power management software may need to be rebooted after hotswapping the board. Follow the procedure in "Powering Down the UPS," in this chapter. 2. Turn all battery circuit breakers on the ERMs one circuit breaker each to the Off position. Figure 315. Switching the circuit breaker to the Off position 3. Unplug the UPS power cable. 4. Unplug connected devices and remove the retention clips that secure device cables to the UPS. 5. Unplug an attached ERM from the back of the UPS. Figure 316. Unplugging the Extended Runtime Module The UPS rear panel provides a power receptacle where the module is attached. The UPS R3000 XR ERM contains two battery packs in a 2U chassis and extends the available UPS runtime up to 30 minutes. NOTE These figures were derived using the Compaq recommended 80 percent load. Replacing ERM Battery Packs NOTE The battery packs can be replaced hotswapped without powering down the UPS. To remove battery packs from an ERM 1. Switch the circuit breaker on the rear of the ERM to the Off position. Figure 317. Switching the circuit breaker to the Off position Figure 318. Removing the ERM front bezel 3. Remove two screws 1 from each metal battery bracket and lift off the battery brackets 2. 1 1 2 Figure 319. Removing the battery bracket Set aside the used battery packs for proper disposal. See "Disposing of Used Batteries," in this chapter. Figure 320. Removing the battery packs 5. To replace the battery packs, reverse steps 1 through 4. NOTE The right battery pack is inserted upside down. NOTE To increase the useful life of the replacement battery, replace all batteries in the UPS and connected ERMs at the same time. Figure 321. Unplugging the Extended Runtime Module 4. Remove the front bezel from the ERM you want to replace. 5.

Remove the screws that secure the ERM to the front of the rack. 6. Remove the ERM from the rack. 7. To replace the ERM, place the new ERM in the rack and reverse steps 1 through 4. Check the

power at the utility power receptacle or contact a qualified electrician. The UPS power cord is disconnected. Connect the power cord. Site Wiring Fault LED is red The utility power receptacle is ungrounded or there is no ground wire in the UPS power cord. Contact a qualified electrician to correct the condition. Line and neutral wires are reversed in the utility power receptacle or in the UPS power cord. For units factory configured for 200V or 208V, the Site Wiring Fault function has been disabled. If reconfiguring a 230V unit to operate at 208V, the Site Wiring Fault function must be manually disabled. high voltage models only continued Initiate a selftest. If the LED does not turn off, replace the batteries. The battery test failed. Allow the UPS to charge the batteries for 24 hours. Initiate a selftest. If the LED does not turn off, replace the batteries. The battery is disconnected. Install the battery pack. If the battery pack is installed, remove it and then insert it again. Troubleshooting After Start For problems that occur after the UPS has gone through the startup selftest sequence, these suggested actions address possible causes. Table 42 Troubleshooting Guide After Start Symptom Possible Cause Suggested Action Audio Alarm sounds An alarm condition exists. Identify the red LED associated with the alarm condition. Check this troubleshooting guide to determine the cause of the alarm. Utility LED and On Battery LED are flashing red The utility voltage is too high. The utility voltage is higher than the UPS operating range. The UPS switches to battery power. If this happens repeatedly, update the configuration.

Contact a qualified electrician to ensure that utility power is suitable for the UPS. Utility LED and On Battery LED are flashing red The utility voltage is too low. The utility voltage is lower than the UPS operating range. The UPS switches to battery power. If this happens repeatedly, update the configuration. Contact a qualified electrician to ensure that utility power is suitable for the UPS. continued Contact a qualified electrician to ensure that utility power is suitable for the UPS. If this happens repeatedly, check the input voltage and reconfigure the unit. Contact a qualified electrician to ensure that utility power is suitable for the UPS. Utility LED is flashing green The utility power is within the acceptable range, but the output is off. Press the ON button. UPS frequently switches between utility and battery power There are utility power variations. The utility voltage is frequently outside the UPS operating range. Update the configuration. Contact a qualified electrician to ensure that utility power is suitable for the UPS. Overload LED is red Protected devices are exceeding the UPS power rating. Remove one or more devices to reduce the power requirements. UPS may switch from utility to Auto Bypass. Make sure that the devices are not defective. On Battery LED is flashing red There is low battery voltage. If the UPS is supplying battery power, save current work and shut down the system. Allow the batteries to charge. If the UPS is supplying utility power, no intervention is required. Allow the batteries to charge. Insufficient warning of low batteries Battery service is required. Allow the batteries to charge for 24 hours, then initiate a selftest. If the LED is red, replace the batteries. The Shutdown Delay configuration is inappropriate. Use the Compaq power management software to specify a suitable delay. continued Reduce the load.

An overtemperature condition may exist. Ensure that there is no blockage of airflow to the front bezel and rear panel. The electronics module may have failed. Replace the electronics module. Allow the batteries to charge for 24 hours, then initiate a selftest. If the LED is red, replace the batteries. New batteries are improperly connected. Reinsert the battery pack. All LEDs are flashing red and the audio alarm cannot be silenced An internal UPS fault condition exists. Replace the electronics module. Physical specifications. Input specifications. Output specifications. Overcurrent protection. Battery specifications. Battery run time ! Environmental specifications Physical Specifications Table 51 Physical Characteristics Feature U.S. Metric Dimensions Width 19.0 in 483 mm Height 3.5 in 89 mm Depth 24.5 in 622 mm Weight 82 lb 37 kg. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with Compaq Presario R3000 Pc Notebook Manual. To get started finding Compaq Presario R3000 Pc Notebook Manual, you are right to find our website which has a comprehensive collection of manuals listed.

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