

preface

USING THIS GUIDE

This *Maintenance and Service Guide* is a troubleshooting guide that can be used for reference when servicing the Compaq Armada 3500 Family of Personal Computers.

Compaq Computer Corporation reserves the right to make changes to this product without notice.

Additional information is available in the *Compaq Armada 3500 Family of Personal Computers Illustrated Parts Map*.

Symbols

The following words and symbols mark special messages throughout this guide:



WARNING: Text set off in this manner indicates that failure to follow directions in the warning could result in bodily harm or loss of life.



CAUTION: Text set off in this manner indicates that failure to follow directions in the caution could result in damage to equipment or loss of information.

IMPORTANT: Text set off in this manner presents clarifying information or specific instructions.

NOTE: Text set off in this manner presents commentary, provides helpful hints, reminders, or additional information, or interesting points of information.

Technician Notes



WARNING: Only authorized technicians trained by Compaq should attempt to repair this equipment. All troubleshooting and repair procedures are detailed to allow only subassembly/module level repair. 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. Any indication of component replacement or printed wiring board modifications may void any warranty or exchange allowances.



WARNING: The computer is designed to be electrically grounded. To ensure proper operation, plug the AC power cord into a properly grounded electrical outlet only.



CAUTION: To properly ventilate your system, you must provide at least 3 inches (7.62 cm) of clearance on the left and right sides of the computer.

Serial Number

When requesting information or ordering spare parts, provide the computer serial number. The serial number is on the bottom of the computer.

Laser Safety

All Compaq systems equipped with CD-ROM drives comply with appropriate safety standards, including IEC 825. With specific regard to the laser, the equipment complies with laser product performance standards set by government agencies as a Class 1 laser product. It does not emit hazardous light; the beam is totally enclosed during all modes of customer operation and maintenance.

CDRH Regulations

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured from August 1, 1976. Compliance is mandatory for products marketed in the United States.



WARNING: Use of controls or adjustments or performance of procedures other than those specified herein or in the CD ROM installation guide may result in hazardous radiation exposure.



This system is classified as a CLASS 1 LASER PRODUCT. This label is located on the outside of the system being serviced. A similar label also appears on the internal CD-ROM installed in the system.

LASER INFO

Laser Type:	Semiconductor GaAIAs
Wave Length:	780 +/- 35 nm
Divergence Angle:	53.5 Degree +/- 1.5 Degree
Output Power:	Less than 0.2mW or $10,869 \text{ W}\cdot\text{m}^{-2}\text{sr}^{-1}$
Polarization:	Circular
Numerical Aperture:	0.45 +/- 0.04

Only an authorized technician, service provider, dealer, or reseller should attempt to repair this equipment. All troubleshooting and repair procedures are detailed to allow only subassembly/module level repair. 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 as well as void the warranty.

Battery Notice



WARNING: This computer contains an internal lithium battery-powered real-time clock circuit. There is a risk of explosion and injury if the battery is incorrectly replaced or improperly handled. Do not attempt to recharge, disassemble, immerse in water, or dispose of the battery in fire. Replacement should be done using the Compaq spare part for this computer.



WARNING: The computer also contains a lithium-ion battery pack. There is a risk of fire and chemical burn if the battery pack is handled improperly. Do not disassemble, crush, puncture, short external contacts, dispose of in fire or water, or expose this battery to temperatures higher than 60 degrees C.

In North America, dispose of nickel metal hydride or lithium-ion batteries by taking advantage of the Compaq battery recycling program. You will be provided with a postage-paid battery pack mailer preaddressed to a reclamation facility where the metals are recycled.



In Europe, do not dispose of batteries and accumulators with general household waste. Dispose of or recycle them by using the public collection system or returning them to Compaq.

Locating Additional Information

The following documentation is available to support the computer:

- Compaq Armada 3500 Family of Personal Computers documentation set
- Microsoft operating system guide
- Compaq service advisories and bulletins
- *Compaq QuickFind*
- *Compaq Service Quick Reference Guide*
- *Technical Reference Guide*
- *Illustrated Parts Map*
- Compaq Internet site at <http://www.Compaq.com>