



HP TOUCHSMART

Limited Warranty, Support, and System Recovery Guide

- Warranty, EULA
- Support information
- System recovery
- Safety warnings



Before contacting the HP Customer Care Center, it's important to have the following information handy.

Please take a moment to write down your product information for future reference.

The first four items on the list (Model Number, Product Number, Serial Number, and Software Build Number) can be viewed by pressing the Ctrl+Alt+S keys on the keyboard at the same time.

Model Number: _____

System (Product) Number: _____

Serial Number: _____

Software Build Number: _____

Operating System: _____

Purchase Date: _____

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Hardware Limited Warranty

HP Product	Duration
Hardware	One-year limited warranty
Software	One-year technical support

General Terms

This HP Hardware Limited Warranty gives you, the customer, express limited warranty rights from Hewlett-Packard, the manufacturer. Please refer to HP's Web site for an extensive description of your limited warranty entitlements. In addition, you may also have other legal rights under applicable local law or special written agreement with HP.

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THE LIMITED WARRANTY TERMS CONTAINED IN THIS STATEMENT, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT, OR MODIFY BUT ARE IN ADDITION TO THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THIS PRODUCT TO YOU.

This Limited Warranty is applicable in all countries/regions and may be enforced in any country/region where HP or its authorized service providers offer warranty service for the same product model number subject to the terms and conditions set forth in this Limited Warranty.

Under the HP Global Limited Warranty program, products purchased in one country/region may be transferred to another country/region, where HP or its authorized service providers offer warranty service for the same product model number, without voiding the warranty. Warranty terms, service availability, and service response times may vary from country/region to country/region. Standard warranty service response time is subject to change due to local parts

availability. If so, your HP authorized service provider can provide you with details.

HP is not responsible for any tariffs or duties that may be incurred in transferring the products. Transfer of the products may be covered by export controls issued by the United States or other governments.

This Limited Warranty applies only to HP-branded and Compaq-branded hardware products (collectively referred to in this Limited Warranty as "HP Hardware Products") sold by or leased from Hewlett-Packard Company, its worldwide subsidiaries, affiliates, authorized resellers, or country/region distributors (collectively referred to in this Limited Warranty as "HP") with this Limited Warranty. The term "HP Hardware Product" is limited to the hardware components and required firmware. The term "HP Hardware Product" DOES NOT include any software applications or programs, non-HP products, or non-HP-branded peripherals. All non-HP products or non-HP-branded peripherals external to the HP Hardware Product—such as external storage subsystems, displays, printers, and other peripherals—are provided "AS IS" without HP warranty. However, non-HP manufacturers and suppliers or publishers may provide their own warranties directly to you.

HP warrants that the HP Hardware Products that you have purchased or leased from HP are free from defects in materials or workmanship under normal use during the Limited Warranty Period. The Limited Warranty Period starts on the date of purchase or lease from HP, or from the date HP completes installation. Your dated sales or delivery receipt, showing the date of purchase or lease of the product, is your proof of the purchase or lease date. You may be required to provide proof of purchase or lease as a condition of receiving warranty service. You are entitled to hardware warranty service according to the terms and conditions of this document if a repair to your HP Hardware Product is required within the Limited Warranty Period.

Unless otherwise stated, and to the extent permitted by local law, new HP Hardware Products may be manufactured using new materials or new and used materials equivalent to new in performance and reliability. HP may repair or replace HP Hardware Products (a) with new or previously used products or parts equivalent to new in performance and reliability, or (b) with equivalent products to an original product that has been discontinued. Replacement parts are warranted to be free from defects in material or workmanship for ninety (90) days or, for the remainder of the Limited Warranty Period of the HP Hardware Product they are replacing or in which they are installed, whichever is longer.

HP will, at its discretion, repair or replace any component or hardware product that manifests a defect in materials or workmanship during the Limited Warranty Period. All component parts or hardware products removed under this

Limited Warranty become the property of HP. In the unlikely event that your HP Hardware Product has recurring failures, HP, at its sole discretion, may elect to provide you with (a) a replacement unit of HP's choosing that is the same or equivalent to your HP Hardware Product in performance or (b) to give you a refund of your purchase price or lease payments (less interest, if applicable) instead of a replacement. This is your exclusive remedy for defective products.

Exclusions

HP does not warrant that the operation of this product will be uninterrupted or error-free. HP is not responsible for damage that occurs as a result of your failure to follow the instructions intended for the HP Hardware Product.

This Limited Warranty does not apply to expendable or consumable parts and does not extend to any product from which the serial number has been removed or that has been damaged or rendered defective (a) as a result of accident, misuse, abuse, contamination, improper or inadequate maintenance or calibration, or other external causes; (b) by operation outside the usage parameters stated in the user documentation that shipped with the product; (c) by software, interfacing, parts, or supplies not supplied by HP; (d) by improper site preparation or maintenance; (e) by virus infection; (f) from loss or damage in transit; or (g) by modification or service by anyone other than (i) HP, (ii) an HP authorized service provider, or (iii) your own installation of end-user-replaceable HP or HP-approved parts if available for your product in the servicing country/region.

YOU SHOULD MAKE PERIODIC BACKUP COPIES OF THE DATA STORED ON YOUR HARD DRIVE OR OTHER STORAGE DEVICES AS A PRECAUTION AGAINST POSSIBLE FAILURES, ALTERATION, OR LOSS OF THE DATA. BEFORE RETURNING ANY UNIT FOR SERVICE, BE SURE TO BACK UP DATA AND REMOVE ANY CONFIDENTIAL, PROPRIETARY, OR PERSONAL INFORMATION. HP IS NOT RESPONSIBLE FOR DAMAGE TO OR LOSS OF ANY PROGRAMS, DATA, OR REMOVABLE STORAGE MEDIA. HP IS NOT RESPONSIBLE FOR THE RESTORATION OR REINSTALLATION OF ANY PROGRAMS OR DATA OTHER THAN SOFTWARE INSTALLED BY HP WHEN THE PRODUCT IS MANUFACTURED. UNITS SENT IN FOR SERVICE MAY HAVE THE DATA ERASED FROM THE HARD DRIVE AND THE PROGRAMS RESTORED TO THEIR ORIGINAL STATE.

Exclusive Remedy

TO THE EXTENT ALLOWED BY APPLICABLE LOCAL LAW, THESE TERMS AND CONDITIONS CONSTITUTE THE COMPLETE AND EXCLUSIVE WARRANTY AGREEMENT BETWEEN YOU AND HP REGARDING THE HP HARDWARE PRODUCT YOU HAVE PURCHASED OR LEASED. THESE TERMS AND CONDITIONS SUPERSEDE ANY PRIOR

AGREEMENTS OR REPRESENTATIONS—INCLUDING REPRESENTATIONS MADE IN HP SALES LITERATURE OR ADVICE GIVEN TO YOU BY HP OR AN AGENT OR EMPLOYEE OF HP—THAT MAY HAVE BEEN MADE IN CONNECTION WITH YOUR PURCHASE OR LEASE OF THE HP HARDWARE PRODUCT. No change to the conditions of this Limited Warranty is valid unless it is made in writing and signed by an authorized representative of HP.

YOU MAY HAVE ADDITIONAL STATUTORY RIGHTS AGAINST THE SELLER BASED ON YOUR PURCHASE AGREEMENT. THOSE RIGHTS ARE NOT IN ANY WAY AFFECTED BY THIS HP LIMITED WARRANTY.

Limitation of Liability

IF YOUR HP HARDWARE PRODUCT FAILS TO WORK AS WARRANTED ABOVE, HP'S MAXIMUM LIABILITY UNDER THIS LIMITED WARRANTY IS EXPRESSLY LIMITED TO THE LESSER OF THE PRICE YOU HAVE PAID FOR THE PRODUCT OR THE COST OF REPAIR OR REPLACEMENT OF ANY HARDWARE COMPONENTS THAT MALFUNCTION IN CONDITIONS OF NORMAL USE.

EXCEPT AS INDICATED ABOVE, IN NO EVENT WILL HP BE LIABLE FOR ANY DAMAGES CAUSED BY THE PRODUCT OR THE FAILURE OF THE PRODUCT TO PERFORM, INCLUDING ANY LOST PROFITS OR SAVINGS OR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. HP IS NOT LIABLE FOR ANY CLAIM MADE BY A THIRD PARTY OR MADE BY YOU FOR A THIRD PARTY.

THIS LIMITATION OF LIABILITY APPLIES WHETHER DAMAGES ARE SOUGHT, OR A CLAIM MADE, UNDER THIS LIMITED WARRANTY OR AS A TORT CLAIM (INCLUDING NEGLIGENCE AND STRICT PRODUCT LIABILITY), A CONTRACT CLAIM, OR ANY OTHER CLAIM. THIS LIMITATION OF LIABILITY CANNOT BE WAIVED OR AMENDED BY ANY PERSON. THIS LIMITATION OF LIABILITY WILL BE EFFECTIVE EVEN IF YOU HAVE ADVISED HP OR AN AUTHORIZED REPRESENTATIVE OF HP OF THE POSSIBILITY OF ANY SUCH DAMAGES. THIS LIMITATION OF LIABILITY, HOWEVER, WILL NOT APPLY TO CLAIMS FOR PERSONAL INJURY.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS THAT MAY VARY FROM STATE TO STATE OR FROM COUNTRY/REGION TO COUNTRY/REGION. YOU ARE ADVISED TO CONSULT APPLICABLE STATE OR COUNTRY/REGION LAWS FOR A FULL DETERMINATION OF YOUR RIGHTS.

Limited Warranty Period

The Limited Warranty Period for an HP Hardware Product is a specified, fixed period commencing on the date of purchase. The date on your sales receipt is the date of purchase unless HP or your reseller informs you otherwise in writing.

Types of Warranty Service

To enable HP to provide the best possible support and service during the Limited Warranty Period, you may be directed by HP to verify configurations, load most recent firmware, install software patches, run HP diagnostics tests, or use HP remote support solutions where applicable.

HP strongly encourages you to accept the use of or to employ available support technologies provided by HP. If you choose not to deploy available remote support capabilities, you may incur additional costs due to increased support resource requirements. Listed below are the types of warranty support service that may be applicable to the HP Hardware Product you have purchased.

Carry-in Warranty Service

Hardware service during the warranty period can be obtained by returning your computer to an HP authorized service provider.

Customer Self Repair Warranty Service

In countries/regions where it is available, your HP Limited Warranty may include a customer self repair warranty service. If applicable, HP will determine in its sole discretion that customer self repair is the appropriate method of warranty service. If so, HP will ship approved replacement parts directly to you to fulfill your HP Hardware Product warranty service. This will save considerable repair time. After you contact HP and the fault diagnosis identifies that the problem can be fixed using one of these parts, a replaceable part can be sent directly to you. Once the part arrives, replace the defective part pursuant to the provided instructions and documentation. If further assistance is required, call the HP Technical Support Center, and a technician will assist you over the phone. In cases where the replacement part must be returned to HP, you must ship the defective part back to HP within a defined period of time, normally fifteen (15) days. The defective part must be returned with the associated documentation in the provided shipping material. Failure to return the defective product may result in HP billing you for the replacement. With a customer self repair, HP will pay all shipping and part return costs and determine the courier/carrier to be used. If customer self repair applies to you, please refer to your specific HP Hardware Product announcement. You can also obtain information on this warranty service on the HP Web site at: <http://www.hp.com/support>

Pickup and Return Warranty Service

Your HP Limited Warranty may include a pickup and return warranty service. Under the terms of pickup and return service, HP will pick up the defective unit from your location, repair it, and return it back to your location. HP will incur all repair, logistics, and insurance costs in this process.

Service Upgrades

HP has a range of additional support and service coverage for your product that can be purchased locally. However, some support and related products may not be available in all countries/regions. For information on availability of service upgrades and the cost for these service upgrades, refer to the HP Web site at:

<http://www.hp.com/support>

Options and Software Limited Warranties

The Limited Warranty terms and conditions for most HP-branded options (HP Options) are as set forth in the Limited Warranty applicable to the HP Option and are included in the HP Option product packaging. If your HP Option is installed in an HP Hardware Product, HP may provide warranty service for either the period specified in the warranty documents (HP Option Limited Warranty Period) that shipped with the HP Option or for the remaining warranty period of the HP Hardware Product in which the HP Option is being installed, whichever period is the longer, but not to exceed three (3) years from the date you purchased the HP Option. The HP Option Limited Warranty Period starts from the date of purchase from HP or an HP authorized reseller. Your dated sales or delivery receipt, showing the date of purchase of the HP Option, is your warranty start date. See your HP Option Limited Warranty for more details. Non-HP options are provided "AS IS." However, non-HP manufacturers and suppliers may provide warranties directly to you.

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<http://h20000.www2.hp.com/bizsupport/TechSupport/Document.jsp?objectID=lpg50101>

It is your responsibility to contact non-HP manufacturers or suppliers for their warranty support.

Software Technical Support

Software technical support for your HP software, HP preinstalled third-party software, and third-party software purchased from HP is available from HP via multiple contact methods, including electronic media and telephone, for one year from date of purchase. See "Contacting HP" for online resources and telephone support. Any exceptions to this will be specified in your End-User License Agreement (EULA).

Software technical support includes assistance with:

- Answering your installation questions (how-to, first steps, and prerequisites).
- Setting up and configuring the software (how-to and first steps). **Excludes** system optimization, customization, and network configuration.
- Interpreting system error messages.
- Isolating system problems to software usage problems.
- Obtaining support pack information or updates.

Software technical support does NOT include assistance with:

- Generating or diagnosing user-generated programs or source codes.
- Installing non-HP products.

Freeware Operating Systems and Applications

HP does not provide software technical support for software provided under public license by third parties, including Linux operating systems or applications ("Freeware"). Software technical support for Freeware provided with HP Hardware Products is provided by the Freeware vendor. Please refer to the Freeware operating system or other Freeware application support statement included with your HP Hardware Product.

Contacting HP

If your product fails during the Limited Warranty Period and the suggestions in the product documentation do not solve the problem, you can receive support by doing the following:

- Locate your nearest HP Support location via the Web at: **<http://www.hp.com/support>**
- Contact your authorized HP dealer or authorized service provider, and be sure to have the following information available before you call HP:
 - Product serial number, model name, and model number
 - Applicable error messages
 - Add-on options
 - Operating system
 - Third-party hardware or software
 - Detailed questions

How to Check Warranty and Support Entitlement

Please check **<http://www.hp.com/support>** for warranty, service and support and product information updates.

END-USER LICENSE AGREEMENT

PLEASE READ CAREFULLY BEFORE USING THIS EQUIPMENT: This End-User license Agreement ("EULA") is a legal agreement between (a) you (either an individual or a single entity) and (b) Hewlett-Packard Company ("HP") that governs your use of any Software Product, installed on or made available by HP for use with your HP product ("HP Product"), that is not otherwise subject to a separate license agreement between you and HP or its suppliers. Other software may contain a EULA in its online documentation. The term "Software Product" means computer software and may include associated media, printed materials and "online" or electronic documentation. An amendment or addendum to this EULA may accompany the HP Product.

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- d. Reservation of Rights. HP and its suppliers reserve all rights not expressly granted to you in this EULA.
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f. Recovery Solution. Any software recovery solution provided with/for your HP Product, whether in the form of a hard disk drive-based solution, an external media-based recovery solution (e.g. floppy disk, CD or DVD) or an equivalent solution delivered in any other form, may only be used for restoring the hard disk of the HP Product with/for which the recovery solution was originally purchased. The use of any Microsoft operating system software contained in such recovery solution shall be governed by the Microsoft License Agreement.

2. UPGRADES. To use a Software Product identified as an upgrade, you must first be licensed for the original Software Product identified by HP as eligible for the upgrade. After upgrading, you may no longer use the original Software Product that formed the basis for your upgrade eligibility.

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4. TRANSFER.

a. Third Party. The initial user of the Software Product may make a one-time transfer of the Software Product to another end user. Any transfer must include all component parts, media, printed materials, this EULA, and if applicable, the Certificate of Authenticity. The transfer may not be an indirect transfer, such as a consignment. Prior to the transfer, the end user receiving the transferred product must agree to all the EULA terms. Upon transfer of the Software Product, your license is automatically terminated.

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7. TERM. This EULA is effective unless terminated or rejected. This EULA will also terminate upon conditions set forth elsewhere in this EULA or if you fail to comply with any term or condition of this EULA.

8. CONSENT TO USE OF DATA. You agree that HP and its affiliates may collect and use technical information you provide in relation to support services related to the Software Product. HP agrees not to use this information in a form that personally identifies you except to the extent necessary to provide such services.

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12. COMPLIANCE WITH EXPORT LAWS. You shall comply with all laws and regulations of the United States and other countries/regions ("Export Laws") to assure that the Software Product is not (1) exported, directly or indirectly, in violation of Export Laws, or (2) used for any purpose prohibited by Export Laws, including, without limitation, nuclear, chemical, or biological weapons proliferation.

13. CAPACITY AND AUTHORITY TO CONTRACT. You represent that you are of the legal age of majority in your state of residence and, if applicable, you are duly authorized by your employer to enter into this contract.

14. APPLICABLE LAW. This EULA is governed by the laws of the State of California, U.S.A.

15. ENTIRE AGREEMENT. This EULA (including any addendum or amendment to this EULA which is included with the HP Product) is the entire agreement between you and HP relating to the Software Product and it supersedes all prior or contemporaneous oral or written communications, proposals and representations with respect to the Software Product or any other subject matter covered by this EULA. To the extent the terms of any HP policies or programs for support services conflict with the terms of this EULA, the terms of this EULA shall control.

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Support Information

Don't Forget to Register!

You can register your computer through the Help and Support Center. Click the **Windows Vista start button™**, **Help and Support**, and then click **Contact Support**.

Where to Get Help

Follow these steps when you need help:

- 1 Check the setup poster and product documentation for help with setting up and using your computer.
- 2 Use the Help and Support Center for help with hardware and software questions. Click the **Windows Vista start button**, and then click **Help and Support**. The Help and Support Center provides useful troubleshooting information and includes the following:
 - Link to register your computer
 - System information, including your computer product number, model number, and serial number
 - E-mail support
 - HP Real Time Chat with qualified support specialists
 - Support phone numbers
 - Link to the User Guides for your computer
- 3 If you think you have a hardware issue, before calling the Customer Care Center, run the hardware diagnostic tools that are preinstalled on your computer. Click the **Windows Vista start button**, **All Programs**, **PC Help & Tools**, and then click **Hardware Diagnostic Tools**.
- 4 For help online, go to the HP Customer Care Center Web site at:
<http://www.hp.com/cposupport/loc/regional.html>
- 5 If you have not solved the problem, first, call your computer retailer, or second, call the HP Customer Care Center at:
Republic of Ireland: 1890 92 39 02
Republic of South Africa: 0860 104 771
U.K.: 0844 369 0369 (5 p/min.)
In the U.K. and Ireland, for computers bought from PC World, Currys, or Dixons, call:
Repair Service Line: **0844 800 6020**
(Calls are charged at National Rate)
Software Helpline: **0906 515 1180**
(Calls are charged at £1.50/min from a BT land line, maximum call duration is 20 minutes)
For out-of-warranty products (U.K. and Ireland only):
0906 470 0870 (60 p/min.)

HP Offices

Republic of Ireland

Hewlett-Packard Ireland Ltd.
30 Herbert Street
IRL — Dublin 2

Republic of South Africa

Hewlett-Packard South Africa
12 Autumn Road
Rivonia
Sandton

United Kingdom

Hewlett-Packard Ltd.
Cain Road
Bracknell
GB — Berks RG12 1HN

Protect Your Investment

If available in your country/region, you can upgrade your standard factory warranty for an additional two years by purchasing an HP warranty extension. For more information, please visit our Web site at:

Ireland
<http://www.hp.com/ie/warranty-extension>

U.K.
<http://www.hp.com/uk/warranty-extension>

Where Are My User Guides?

The User Guides are on your computer. Click the **Windows Vista start button**, **All Programs**, and then **User Guides**. Documentation is also available at:
<http://www.hp.com/support>
where you can search for the support page for your model.

Software Support

If you have questions about your software, contact or visit your software vendor Web site at the appropriate Web address below:

Cyberlink

<http://www.cyberlink.com>

Are You Missing Components?

Check the contents of the computer box after you've purchased your computer. If any components are missing, you have 30 days from the date of purchase to contact HP Customer Care for replacement. After this period, you may be charged for these components.

Repairing Software Problems

Your computer uses the operating system and installed software programs during normal operation. If your computer works improperly or stops because of the software, you may be able to repair it.

Some software repairs are as simple as restarting your computer and others require performing a System Recovery from files on your hard disk drive.

NOTE: You must perform the computer repair methods in the order described in this document.

Software Repair Overview

This section lists the available methods of fixing your computer if you are experiencing software problems. The sections that follow provide detailed instructions for each method. You must perform the procedures in the order listed in this overview:

- 1 Restarting Your Computer
- 2 Turning Off Your Computer
- 3 Updating Drivers
- 4 Microsoft System Restore
- 5 Software Program and Hardware Driver Reinstallation
- 6 System Recovery

NOTE: If you are replacing a hard disk drive, you only need to perform the system recovery.

Restarting Your Computer

Restarting is the simplest repair method for your computer. When you restart, the computer reloads the operating system and software into its memory.

To restart your computer:

- 1 Close all open programs and windows.
- 2 Click the **Windows Vista start button**.
- 3 Click the **Arrow** button next to the **Lock** button, and then click **Restart**.

Turning Off Your Computer

When you turn off your computer and then turn it on again, you force the computer to reload the operating system into its memory, which clears some tracking information. This may eliminate some problems that can remain after you perform a restart.

To turn off your computer:

- 1 Close all open programs and windows.
- 2 Click the **Windows Vista start button**.
- 3 Click the **Arrow** button next to the **Lock** button, and then click **Shut Down**.
- 4 Start your computer by pressing the On button.

Updating Drivers

A driver is a software program that enables your computer to communicate with an attached device, such as a printer, a hard disk drive, a mouse, or a keyboard.

Complete the following procedure to update a driver, or to revert to an earlier version of the driver if the new one does not solve your problem:

- 1 Click the **Windows Vista start button**, right-click **Computer**, and then select **Properties**.
- 2 Under Tasks, click **Device Manager**.
- 3 Click the plus sign (+) to expand the type of device for which you want to update or rollback, (for example, DVD/CD-ROM drives).
- 4 Double-click the specific item (for example, HP DVD Writer 640b).
- 5 Click the **Driver** tab.
- 6 To update a driver, click **Update Driver**, and follow the onscreen instructions.
Or
To revert to an earlier version of a driver, click **Rollback Driver**, and follow the onscreen instructions.

Microsoft System Restore

Microsoft Windows Vista includes a feature that enables you to restore your computer configuration to that of a previous time when a current software problem did not exist. The feature does this by creating a restore point where it records the computer settings at that time and date.

When a new program is installed, the operating system automatically creates a restore point before it adds the new software. You can also set restore points manually.

If you experience a problem that you think may be due to software on your computer, use System Restore to return the computer to a previous restore point.

NOTE: Always use this System Restore procedure before you use the System Recovery program.

To start a System Restore:

- 1 Close all open programs.
- 2 Click the **Windows Vista start button**, **All Programs**, and then click **Accessories**.
- 3 Choose **System Tools**, **System Restore**, and then click **Next**.
- 4 Follow the onscreen instructions.

To manually add restore points:

- 1 Close all open programs.
- 2 Click the **Windows Vista start button**, and then click **Control Panel**.
- 3 Click **System and Maintenance**, and then click **System**.
- 4 Click **System protection**.
- 5 Under Automatic restore points, select the disk for which you want to create a restore point.
- 6 Click **Create**.
- 7 Follow the onscreen instructions.

For more information about software restore points:

- 1 Click the **Windows Vista start button**, and then click **Help and Support**.
- 2 Type *system restore* into the Search box, and then click **Search**.

Software Program and Hardware Driver Reinstallation

If an individual factory-installed software program or hardware driver is damaged, you can reinstall it by using the Recovery Manager program (select models only).

NOTE: Do not use the Recovery Manager program to reinstall software programs that came on CDs or DVDs included in the computer box. Reinstall these programs directly from the CDs or DVDs.

Before you uninstall a program, be sure you have a way to reinstall it. Check that it is still available from where you initially installed it (for example, discs or the Internet). Or check that the program is in the list of programs you can reinstall from the Recovery Manager.

To check the list of installable programs in the Recovery Manager:

- 1 Click the **Windows Vista start button**, **All Programs, PC Help & Tools**, and then click **Recovery Manager**.
- 2 Click **Advanced Options, Reinstall software programs that came with your computer**, and then click **Next**.
- 3 Click **Next** at the Welcome screen.

A list of programs opens. Check whether your program is there.

To uninstall a program:

- 1 Close all software programs and folders.
- 2 Uninstall the damaged program:
- 3 Click the **Windows Vista start button, Control Panel**.

- 4 Under Programs, click **Uninstall a program**.
- 5 Select the program you want to remove, and then click **Uninstall**.
- 6 Click **Yes** if you want to continue with the uninstall process.

To reinstall a program using the Recovery Manager:

- 1 Click the **Windows Vista start button**, **All Programs, PC Help & Tools**, and then click **Recovery Manager**.
- 2 Click **Advanced Options, Reinstall software programs that came with your computer**, and then click **Next**.
- 3 Click **Next** at the Welcome screen.
- 4 Choose the program you want to install, click **Next**, and follow the onscreen instructions.
- 5 When you have finished reinstalling, restart the computer.

NOTE: Do not skip this last step. You must restart the computer when you are finished recovering software programs or hardware drivers.

System Recovery

After you have tried the previously mentioned methods of repairing your computer, you can run a system recovery as a last resort to reinstall the factory-shipped operating system, software programs, and hardware drivers.

System Recovery — System recovery completely erases and reformats the hard disk drive, deleting all data files you have created. System recovery reinstalls the operating system, programs, and drivers. However, you must reinstall any software that was not installed on the computer at the factory. This includes software that came on CDs included in the computer accessory box, and software programs you installed after purchase.

You must choose from the following methods for performing a System Recovery:

Recovery Image — Run the system recovery from a recovery image stored on your hard disk drive. The recovery image is a file that contains a copy of the original factory-shipped software. To perform a system recovery from the recovery image on your hard disk drive, see “Starting system recovery from the hard disk drive” on page 13.

NOTE: The recovery image uses a portion of the hard disk drive that cannot be used for data storage.

Recovery Discs — Run the system recovery from a set of recovery discs (CDs or DVDs) that you create from files stored on your hard disk drive. To create recovery discs, see the next section.

Creating Recovery Discs

Complete the procedure described in this section to create a set of recovery discs from the recovery image stored on your hard disk drive. This image contains the operating system and software program files that were originally installed on your computer at the factory.

You can create only one set of recovery discs for your computer. Furthermore, the recovery discs you create can be used only with your computer.

After creating the recovery discs, you can delete the recovery image if you want to make extra space available on your hard disk drive.

NOTE: Do not delete the recovery image until you have made recovery discs.

Choosing Recovery Discs

There are several advantages to using DVDs instead of CDs when creating recovery discs:

DVDs have greater capacity than CDs, so there are fewer discs to record and store.

DVD recovery discs take less time to create than CD recovery discs.

To create recovery discs, your computer must have a CD or DVD Writer drive, or other drive that can write to CDs or DVDs.

You must use high-quality discs. Because making a set of recovery discs is so important, there is a very high verification standard for this process. You may see error messages such as *Recording failure when writing disc* or *Error detected during disc verification*.

Your discs may be rejected if they are not defect-free. You will be prompted to insert a new blank disc to try again. It is normal that some of your discs may be rejected.

The number of discs in the recovery disc set depends on your computer model. The program that creates the discs tells you the specific number of blank discs needed to make the set. The following table gives an idea of how many discs you will need.

Disk Drive	Disc Type	Number of Required Blank Discs
DVD	DVD-R, DVD+R	1–3 discs
DVD	DVD+R Dual-Layer	1–2 discs
CD	CD-R	7–16 discs
No CD or DVD drive		Contact HP Support

The process takes some time to verify that the information written on the disc is correct. You can quit the process at any time. The next time you run the program, it resumes where it left off.

To create recovery discs:

- 1 Close all open programs.
- 2 Click the **Windows Vista start button, All Programs, PC Help & Tools**, and then click **Recovery Disc Creation**.
- 3 Follow the onscreen instructions. Label each disc as you make it (for example, Recovery 1, Recovery 2).
- 4 Store the Recovery discs in a safe place.

System Recovery Options

You should attempt system recovery in the following order:

- 1 Through the hard disk drive, from the Windows Vista Start menu.
- 2 Through the hard disk drive, by pressing the F11 key on the keyboard during system startup.
- 3 Through recovery discs that you create.
- 4 Through recovery discs purchased from HP Support. To purchase recovery discs, go to <http://www.hp.com/support> and visit the Software & Driver downloads page for your computer model.

Starting system recovery from the hard disk drive

Choose one of the following procedures to reinstall the software from the recovery image on your hard disk drive:

- Starting system recovery from the Windows Vista Start menu
- System recovery from system startup

System recovery from the Windows Vista Start menu

If the computer is working, and Windows Vista is responding, use these steps to perform a system recovery.

NOTE: System Recovery deletes any data or programs that you created or installed after purchase. Therefore, ensure you have backed up to a removable disc any data that you want to keep.

- 1 Turn off the computer.
- 2 Disconnect all peripheral devices from the computer, except the monitor, keyboard, and mouse.
- 3 Turn on the computer.
- 4 Click the **Windows Vista start button, All Programs, PC Help & Tools**, and then click **Recovery Manager**.
- 5 In the Recovery Manager Welcome window, click the **Advanced options** button.
- 6 Click **Recover your computer to its original factory condition**, and then click **Next**.
- 7 Click **Next** at the next screen that prompts you to do so.

8 Your computer restarts.

NOTE: If your system does not detect a recovery partition, it will prompt you to insert a recovery disc.

9 In the Recovery Manager Welcome window, click the **Advanced options** button.

10 Click **Recover your computer to its original factory condition**, and then click **Next**.

11 If you are prompted to back up files, and you have already done so, click **No**, and then click **Next**.

12 System recovery begins. After system recovery is complete, the computer restarts.

13 Complete the registration process, and wait until you see the desktop.

14 Turn off the computer, reconnect all peripheral devices, and turn the computer back on.

15 Perform the procedure "Performing the post-recovery procedure" on page 15.

System recovery at system startup

If Windows Vista is not responding, but the computer is working, use these steps to perform a system recovery:

NOTE: System Recovery deletes any data or programs that you created or installed after purchase. Therefore, ensure you have backed up to a removable disc any data that you want to keep.

- 1 Turn off the computer. If necessary, press and hold the On button until the computer turns off.
- 2 Disconnect all peripheral devices from the computer, except the monitor, keyboard, and mouse.
- 3 Press the On button to turn on the computer.
- 4 As soon as you see the initial company logo screen appear, repeatedly press the F11 key on your keyboard until the Recovery Manager window opens.
- 5 Click **Advanced options**.
- 6 Click **Recover your computer to its original factory condition**, and then click **Next**.
- 7 If you are prompted to back up files, and you have already done so, click **No**, and then click **Next**.
- 8 System recovery begins. After system recovery is complete, the computer restarts.
- 9 Complete the registration process, and wait until you see the desktop.
- 10 Turn off the computer, reconnect all peripheral devices, and turn the computer back on.
- 11 Perform the procedure "Performing the post-recovery procedure" on page 15.

Starting system recovery from recovery discs

This section contains the procedure for performing a system recovery from the recovery discs you created as described in "Creating Recovery Discs" on page 13.

NOTE: System Recovery deletes any data or programs that you created or installed after purchase. Therefore, ensure you have backed up to a removable disc any data that you want to keep.

To perform a system recovery program using recovery discs:

- 1 If the computer is working, create a backup CD or DVD containing all the data files you want to save. When you are done, remove the backup disc from the disc slot.



CAUTION: All data on the hard disk drive will be deleted. You will lose data if it is not backed up.

- 2 Insert recovery disc #1 into the disc slot.
- 3 If the computer works, click the **Windows Vista start button**, click the **Arrow** button next to the **Lock** button, and then click **Shut Down**.
Or
If the computer is not responding, press and hold the On button for approximately 5 seconds, or until the computer turns off.
- 4 Disconnect all peripheral devices from the computer, except the monitor, keyboard, and mouse.
- 5 Press the On button to turn on the computer.
- 6 A window may open, prompting you to choose between running system recovery from the discs or from your hard drive.
- 7 Choose to run from the recovery discs, and then click **Next**.
- 8 In the Recovery Manager Welcome window, click the **Advanced options** button.
- 9 Click **Recover your computer to its original factory condition**, and then click **Next**.
- 10 If you are prompted to back up files, and you have already done so, click **No**, and then click **Next**.
- 11 If you are prompted to insert the next recovery disc, do so.
- 12 When the Recovery Manager is finished, remove the last recovery disc.
- 13 Click **Finish** to restart the computer.

Performing the post-recovery procedure

- 1** At the Welcome to Microsoft Windows screen, follow the onscreen setup instructions, and then click **Start** in the last screen to display the Windows desktop.
- 2** Configure your Internet connection.
- 3** Use Windows Update to get critical updates from Microsoft:
 - Click the **Windows Vista start button**, and then click **Control Panel**.
 - Under Security, click the **Check for Updates** button.
 - Click **Install Updates**.
 - Restart your computer. (Some updates will not finish installing until you restart.)
- 4** Use HP Update to get critical updates from HP:
 - Click the **Windows Vista start button**, **All Programs**, the **HP** folder, and then click **HP Update**.
 - Follow the onscreen instruction to download driver and software updates.
- 5** Turn off your computer, reconnect all peripheral devices that were originally connected to it, and then turn the computer back on.
- 6** Reinstall software that originally came in the box with your computer, and also any additional software you purchased.
 - The system recovery software might have already installed some of the software that came in the box.
 - If you installed updates to any software programs, reinstall those as well. You can typically download these updates from the software manufacturer's Web site.
- 7** If you performed a backup before the system recovery, copy the backup data files from the backup media to your hard disk drive.
- 8** Ensure your system is running up-to-date security software.



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DECLARATION OF CONFORMITY

according to ISO/IEC 17050-1 and EN 17050-1

Supplier's Name: Hewlett-Packard Company
Supplier's Address: Hewlett-Packard Company
 10955 Tantau Ave
 Cupertino, CA 95014

declares, that the product(s)

Product: Personal computer
Model Number(s): 900
 a000, a1000, a5000, a6000
 CPT-001 P, CPT-001 R, CPT-002 P, CPT-002 R, CPT-003 P, CPT-003 R
 d1000, d4000, dx2000, d5000
 g2000, g3000
 m000, m1000, m5000, m7000, m8000, m9000
 s0000, s3000, s7000
 SR1000, SR2000, SR5000, SA4000, SV2000, SV7000, SG2000, SG3000
 t000, t3000
 u6000
 v2000, v7000
 w1000, w5000
 x5000, z500, z6000, IQ500, IQ700, IQ800 series

Product Options: Modem card: RD01-D850, CX-9Z-NR0134
 Bluetooth: BM-GP-BR-51
 TV Tuner card: 71xxx, 74xxx, 78xxx, 26xxx, 25xxx, JayHawk, Fennec, Twolf
 Keyboard: 51xx, KB-06xx, KB-09xx, KM713K, SK29xx, I101-P01, PR11-01, 9131URF, 5189URF
 Mouse: KM713K, M389, M889, MOBJKC, MOBJKO, MOBLUL, M-SBQ133, M-SBP133,
 M-SBF96, M60PB, N17RBP, N17ROPKYE, 9131URF, 5189URF, MORFB1UO

conforms to the following Product Specifications:

Safety: IEC 60950-1:2001 / EN60950-1: 2001
 EN 60825-1: 1994 + A1: 2002 + A2: 2001, Class 1 (Laser/LED)

EMC: CISPR 22: 1997 / EN 55022: 1998 +A1:2000 +A2:2003, Class B/ EN 55022:2006, Class B
 CISPR 24: 1997 / EN 55024:+1998 +A1:2001 +A2:2003
 EN 55020:1995/ EN 55020:2002 +A1:2002 + A2:2005
 EN 55013:2001 +A1:2003
 EN 61000-3-2: 2006, Class D
 EN 61000-3-3: 1995 + A1: 2001+ A2:2005
 FCC Title 47 CFR, Part 15 Class B / ICES-003
 AS/NZS CISPR 22: 2004/ AS/NZS CISPR 22: 2006

Telecom: TBR 21: 1998
 EN 300328: V.1.6.1

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EEC and the R&TTE Directive 99/5/EC and carries the "CE Marking" accordingly.
 This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Cupertino, CA USA February 7, 2008

For regulatory compliance information only, contact:

Australia Contact: Product Regulations Manager, Hewlett-Packard Australia Pty Ltd., 31-41 Joseph Street, Blackburn, Victoria 3130
 European Contact: Hewlett-Packard GmbH, HQ-TRE, Herrenberger Straße 140, 71034 Böblingen, Germany
 North America Contact: Hardware Quality Eng. Manager, Hewlett-Packard, CPC, 10955 Tantau Ave., Cupertino, CA 95014

Operating Specifications

Electrical ratings:	AC INPUT	100–127V $\sqrt{}$, 3A or 4A or 6A* 200–240V $\sqrt{}$, 2A or 3A*
		50/60 Hz
Operating temperature:		5° to 35° C
Storage temperature:		–30° to 65° C
Operating humidity:		15 to 80% @ 26° C
Operating altitude:		0–2000 m
Storage altitude:		0–4572 m

* Refer to your computer's ratings label located on the back of the computer to determine exact electrical rating.

Regulatory and Safety Information



WARNING: Text set off in this manner indicates that failure to follow directions could result in damage to equipment, loss of information, bodily harm, or loss of life.



WARNING: Energized and moving parts inside. Disconnect power to the equipment before removing the enclosure.

Replace and secure the enclosure before re-energizing the equipment.



WARNING: The computer is heavy; be sure to use ergonomically correct lifting procedures when moving the computer.



WARNING: Please read the "Additional Safety Information" located later in this document before installing and connecting your computer to the electrical power system.

Batteries are delivered with this product. When empty, do not throw them away but collect as small chemical waste.

Bij dit product zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als Klein Chemisch Afval (KCA).



Chemical Substances

HP is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (*Regulation EC No 1907/2006 of the European Parliament and the Council*). A chemical information report for this product can be found at: <http://www.hp.com/go/reach>

Important Information About ENERGY STAR

HP computers marked with the ENERGY STAR[®] Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR specifications for computers. The EPA ENERGY STAR Logo does not imply endorsement by the EPA. As an ENERGY STAR Partner, Hewlett-Packard Company has determined the products marked with the ENERGY STAR Logo are ENERGY STAR qualified as per the applicable ENERGY STAR guidelines for energy efficiency. The following logo will appear on all ENERGY STAR qualified computers:



The ENERGY STAR Computers Program was created by the EPA to promote energy efficiency and reduce air pollution through more energy-efficient equipment in homes, offices, and factories. One way products achieve this is by reducing power consumption when not being used through the Microsoft Windows[®] Power Management feature.

The Power Management feature allows the computer to enter into a low-power or "sleep" mode after a period of user inactivity. When used with an external ENERGY STAR compliant monitor, this feature will also support similar power management features of the monitor. To take advantage of this energy savings:

- The Power Management feature has been preset to power down the computer after 20 minutes of user inactivity.
- The Power Management feature has been preset to power down the monitor after 15 minutes of user inactivity.

Both the computer and monitor can be woken from “sleep” mode through user interaction with any of the computer’s input devices (ex: mouse, keyboard, etc). When configured with Wake On LAN (WOL) enabled, the computer can also be awoken by a network signal.

More information on the energy and financial savings potential of the Power Management Feature can be found at the EPA’s ENERGY STAR Power Management Web site:

www.energystar.gov/powermanagement

More information on the ENERGY STAR program and its environmental benefits are available by visiting the EPA’s ENERGY STAR Web site address: **www.energystar.gov**



CAUTION: Using the Energy Save Monitor feature with non-ENERGY STAR compliant monitors may cause video distortion when the Energy Save timeout occurs.

Disposal of Waste Equipment by Users in Private Household in the European Union (European Union Only)

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



Audio volume statement

Listening to music at high volume levels and for extended durations may damage one’s hearing. In order to reduce the risk of damage to hearing, one should lower the volume to a safe, comfortable level, and reduce the amount of time listening at high levels.

- For your own safety, before using headsets or earphones, always reset the volume. Some headphones are louder than other headphones, even if the volume control setting is the same.
- Changing the default audio or equalizer settings might lead to higher volume and should only be done with caution.

- If one HP product number includes a computer along with a headset or earphone, this combination is in compliance with EN 50332-1.
- In general, audio line-out I/F is not intended to be used with a headset or earphone.

EMI Statement (European Union Only)

This is a class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

European Telephone Network Declaration (European Union Only)

The product herewith complies with the requirements of the R&TTE Directive 1999/5/EC (Annex II) and carries the CE marking accordingly. However, due to differences between the individual PSTNs provided in different countries/regions, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point. In the event of problems, you should contact your equipment supplier in the first instance.

European Network Compatibility Declarations (European Union Only)

This equipment has been designed to work with analogue DTMF Networks (TBR-21 compliant).

This equipment may have internetworking difficulties in PSTN networks that only support Pulse Dialing. Please consult with your network operator for further assistance.

UK Compliance Information

This modem is approved by the Secretary of State at the Department of Trade and Industry for connection to a single exchange line of the public switch telephone network run by certain licensed public telecommunication operators or systems connected thereto. (Direct exchange lines only, not shared service or 1-1 carrier systems.)

This modem is also suitable for connection to Private Automatic Branch Exchanges (PABXs) which return secondary proceed indication.

If this modem is to be used with a PBX which returns secondary proceed indication, no more than two pauses of four seconds duration each should be inserted between the initial PSTN access digit and the number to be dialed. This is to avoid interference to the PTO network.

If this modem is to be used with a PBX which has extension wiring owned by BT, connection of the modem to the PBX can only be carried out by BT; or, by the authorized maintainer of the PBX unless the authorized maintainer has been given 14 days written notice that the connection is to be made by another person, and that period of notice has expired.

This modem is suitable for use only on telephone lines provided with Loop-Disconnect or Multi-Frequency Dialing facilities.

Users of this modem are advised that the approval is for connection to the PSTN via the telephone line interface supplied with it. Connection of a modem to the PSTN by any other means will invalidate the approval.

There is no guarantee of correct working in all circumstances. Any difficulties should be referred to your supplier.

Some network operators require that intended users of their network request permission to connect and for the installation of an appropriate socket.

Ringer Equivalence Number

The Ringer Equivalence Number (REN) of this modem is 1. REN is a guide to the maximum number of apparatuses that can be simultaneously connected to one telephone line. The REN value of each apparatus is added together, and should not exceed 4. Unless otherwise marked, a telephone can be assumed to have a REN value of 1.

Approved Usage

This modem is approved only for the following:

- Storage of telephone numbers for retrieval by a predetermined code
- Detection of initial proceed indication
- Automatic calling/Automatic answering
- Tone detection
- Operation in the absence of a secondary proceed indication
- Loudspeaking facility

This modem is NOT suitable for use as an extension to a payphone.

This modem is not approved for connection to UK private speechband services.

This modem does not support the automatic redial function.

Any other usage will invalidate the approval of your modem, if, as a result, it then ceases to conform to the standards against which approval was granted.

The approval of this modem is INVALIDATED if the apparatus is subject to modification in any material way not authorized by the BABT or if it is used with or connected to external software that has not been formally accepted by BABT.

Storage of Numbers

It is advisable to check the telephone numbers stored in your modem immediately after programming.

In order to prevent the misdirection of class and network interference, please ensure that all manually programmed telephone numbers are correctly entered.

The number you enter to dial may optionally contain a PAUSE character (a comma) to allow this modem to operate with a PABX. Each comma gives a two-second delay.



WARNING: When using this device, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

- Do not use this product near water; for example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
- Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use this product to report a gas leak in the vicinity of the leak.
- Always disconnect the modem cable before opening the equipment enclosure or touching an uninsulated modem cable, jack, or internal components.
- If this product was not provided with a telephone line cord, use only No. 26 AWG or larger telecommunication line cord in order to reduce the risk of fire.
- Do not plug a modem or telephone cable into the Network Interface Card (NIC) receptacle.

SAVE THESE INSTRUCTIONS

Additional Safety Information

This product has not been evaluated for connection to an "IT" power system (an AC distribution system with no direct connection to earth, according to IEC 60950).

AC Power Safety Warning



Proper Electrical Connection (Norway and Sweden only)

Advarsel: Apparatet må kun tilkoples jordet stikkontakt.

Varning! Apparatet skall anslutas till jordat uttag när den ansluts till ett nätverk.



WARNING: Install the computer near an AC outlet. The AC power cord is your computer's main AC disconnecting device and must be easily accessible at all times. For your safety, the power cord provided with your computer has a grounded plug. Always use the power cord with a properly grounded wall outlet, to avoid the risk of electrical shock.



WARNING: Your computer is provided with a voltage select switch for use in a 115 or 230V[~] power system. The voltage select switch has been pre-set to the correct voltage setting for use in the particular country/region where it was initially sold. Changing the voltage select switch to the incorrect position can damage your computer and void any implied warranty.



WARNING: To reduce the possibility of an electric shock from the telephone network, plug your computer into the AC outlet before connecting it to the telephone line. Also, disconnect the telephone line before unplugging your computer from the AC power outlet.



WARNING: Always disconnect the modem cord from the telephone system before installing or removing your computer cover.



WARNING: Do not operate the computer with the cover removed.



WARNING: For your safety, always unplug the computer from its power source and from any telecommunications systems (such as telephone lines), networks, or modems before performing any service procedures. Failure to do so may result in personal injury or equipment damage. Hazardous voltage levels are inside the power supply and modem of this product.

Lithium Battery Caution



WARNING: The computer uses a lithium battery, type CR2032. There is danger of an explosion if the battery is incorrectly replaced. Replace only with the same, or equivalent, type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Laser Safety Statement Class 1 LED Product

The CD and DVD drives contain a laser system and are classified as a "Class 1 Laser Product" under a U.S. Department of Health and Human Services (DHHS) Radiation Performance standard according to the Radiation Control for Health and Safety Act of 1968.

Should the unit ever require maintenance, contact an authorized service location.



WARNING: Use of controls, adjustments, or performance procedures other than those specified in the *Upgrading and Servicing Guide* may result in hazardous radiation exposure. To prevent direct exposure to laser beam, do not try to open the enclosure of the CD or DVD drives.

Laser Product Label

The following label or equivalent is located on the surface of laser products:



This label indicates that the product is classified as a CLASS 1 LASER PRODUCT. This label appears on a laser device installed in your product.

Note to CATV System Installer

This reminder is provided to call the CATV systems installer's attention to section 820-93 of the National Electric Code, which provides guidelines for proper grounding and in particular, specifies that the Coaxial cable shield shall be connected to grounding system of the building, as close to the point of cable entry as practical.

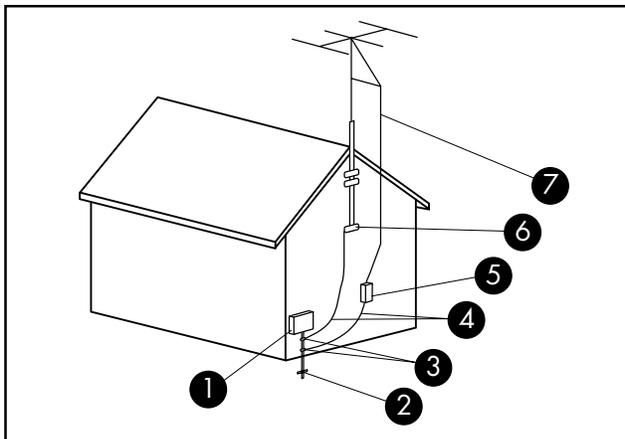
TV Antenna Connectors Protection

External Television Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is electrically grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper electrical grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Lightning Protection

For added protection of any product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug the product from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product from lightning and power line surges.



Antenna Grounding

Antenna Grounding

Reference	Grounding Component
①	Electric Service Equipment
②	Power Service Grounding Electrode System (NEC Art 250, Part H)
③	Ground Clamps
④	Grounding Conductors (NEC Section 810-21)
⑤	Antenna Discharge Unit (NEC Section 810-20)
⑥	Ground Clamp
⑦	Antenna Lead in Wire

Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits.



WARNING: When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them could be fatal.

The information contained herein is subject to change without notice.



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