











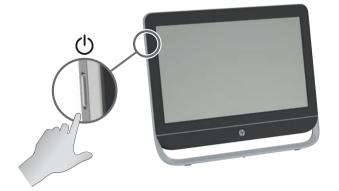








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#### Product notice

This guide describes features that are common to most models. Some features may not be available on your computer.

#### Warranty Print on Demand Statement

You can find the expressly provided HP Limited Warranty applicable to your product located with the user guides on your computer and/or on the CD/DVD provided in the box. In some countries/regions, HP may provide a printed HP Limited Warranty in the box. For some countries/regions where the warranty is not provided in printed format, you may request a printed copy from hp.com/go/orderdocuments or write to:

North America: Hewlett-Packard, MS POD, 11311 Chinden Blvd., Boise, ID 83714, USA

Europe, Middle East, Africa: Hewlett-Packard, POD, Via G. Di Vittorio, 9, 20063 Cernusco s/ Naviglio (MI). Italy

Asia Pacific: Hewlett-Packard, POD, P.O. Box 200, Alexandra Post Office, Singapore 911507

When you request a printed copy of your warranty, please include your product number, warranty period (found on your service label), name, and postal address.

**IMPORTANT!** Do NOT return your HP product to the addresses above. For U.S. products, go to <a href="http://www.hp.com/go/contactHP">http://www.hp.com/go/contactHP</a>. For worldwide support, go to <a href="http://welcome.hp.com/country/us/en/">http://welcome.hp.com/country/us/en/</a> wwcontact us.html.

# 1 Getting information

Type of information	on	Where to find
Set up your co	omputer.	Quick Setup (this Guide)
Use the comp	uter.	Quick Setup (this Guide)
Connect to the	e Internet.	
Recover facto	ry settings.	Troubleshooting and Maintenance Guide on your computer. Select the HP Support Assistant app on the Start screen, select My computer, and then select User guides.
See how-to viousing the feature computer.		Visit http://www.hp.com/supportvideos (English only)
Learn how to		Help and Support
system.  • Find Windows information.	dows operating s password	From the Start screen, type h, and then select <b>Help and Support</b> . For U.S. support, go to <a href="http://www.hp.com/go/contactHP">http://www.hp.com/go/contactHP</a> . For worldwide support, go to <a href="http://welcome.hp.com/country/us/en/wwcontact_us.html">http://welcome.hp.com/country/us/en/wwcontact_us.html</a> .
Find links to d	river undates	Windows troubleshooting tools
Read frequent	·	1. From the Start screen, type ${\tt c}$ , and then select Control Panel.
questions.	-,	2. Select System and Security, and then under Action Center, select Troubleshoot common computer problems.
Troubleshoot common compand software in and software in a software in the	puter hardware	Troubleshooting and Maintenance Guide on your computer. Select the HP Support Assistant app on the Start screen, select My computer, and then select User guides.
Find electronic and specificat computer mod	ions for your	HP Support website: http://www.hp.com/go/contactHP
<ul> <li>Order parts ar additional trou help.</li> </ul>		
Upgrade or re		Upgrading and Servicing Guide
components o computer.	or your	HP Support website: <a href="http://www.hp.com/go/contactHP">http://www.hp.com/go/contactHP</a>
Find computer information.	r warranty	HP Worldwide Limited Warranty and Technical Support included with your computer.
		Select the <b>HP Support Assistant</b> app on the Start screen, select <b>My computer</b> , and then select <b>User guides</b> .
Get up-to-date and help from community.		http://www.hp.com/support/consumer-forum

Type of information	Where to find
Connect to a TV.	Watching and Recording TV
	Select the <b>HP Support Assistant</b> app on the Start screen, select <b>My computer</b> , and then select <b>User guides</b> .
	If the guide is not available there, visit <a href="http://www.hp.com/go/contactHP">http://www.hp.com/go/contactHP</a> .
Maintain your computer.	HP Support Assistant — Maintains your computer performance and resolves problems faster by using automated updates, on-board diagnostics, and guided assistance.
	Select the HP Support Assistant app on the Start screen.
	Troubleshooting and Maintenance Guide
	Select the <b>HP Support Assistant</b> app on the Start screen, select <b>My computer</b> , and then select <b>User guides</b> .
	Maintaining Your Computer (this Guide)
Find safety and regulator	ry Regulatory, Safety and Environmental Notices
notices.	Select the <b>HP Support Assistant</b> app on the Start screen, select <b>My computer</b> , and then select <b>User guides</b> or visit <a href="http://www.hp.com/go/contactHP">http://www.hp.com/go/contactHP</a> .
<ul> <li>Find ergonomic informat</li> </ul>	ion. Safety & Comfort Guide
	Select the <b>HP Support Assistant</b> app on the Start screen, select <b>My computer</b> , and then select <b>User guides</b> or visit <a href="http://www.hp.com/ergo">http://www.hp.com/ergo</a> .

## 2 Setting up your computer

MARNING! To reduce the risk of electrical shock or damage to your equipment:

- Place the computer in a location away from water, dust, moisture, and soot. These can increase the inside temperature, or can cause fire or electrocution
- Do not disable the power cord grounding plug. The grounding plug is an important safety feature.
- Plug the power cord in a grounded (earthed) outlet that is easily accessible at all times
- Disconnect power from the equipment by unplugging the power cord from the electrical outlet. To prevent direct exposure to laser beam, do not try to open the enclosure of the CD or DVD drives.
- The power supply is preset for the country/region in which you purchased your computer. If you move, check the voltage requirements for your new location before plugging the computer into an AC power outlet.

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

To reduce the risk of serious injury read the *Safety & Comfort Guide*. The guide is located on the web at http://www.hp.com/ergo.

- 1. Place the computer so that all ventilation openings are unobstructed and cabling is not in a walkway or where it can be stepped on or damaged by placing furniture on it.
- 2. Connect all power cords from the monitor, computer, and accessories to a power surge protection device that is specifically labeled as having surge protection, an uninterruptible power supply (UPS), or a similar device. If the computer has a television tuner, or a modem or telephone connection, protect the computer by using surge protection with these signal inputs as well. Connect the television cable or the telephone line cord to the surge protection device, and then connect the device to the computer.
- 3. Download and install operating system updates.

- Find out what operating system and version your computer is currently running.
  - (From the Start screen, type c, select **Control Panel**, select **System and Security**, and then select **System**. The operating system and version are shown under Specifications.)
- **b.** Open your internet browser and go to <a href="http://www.hp.com/go/contactHP">http://www.hp.com/go/contactHP</a>.
- Select your country and language, if necessary, and click Support & Drivers.
- d. Select Download drivers and software (and firmware), type your computer model name and number in the product field, and press Enter.
- e. If necessary, select your computer model from **Product search** results
- f. Select your computer operating system.
- g. Click **Download** next to each update you wish to download.
- Follow the on-screen instructions to install each downloaded update.
- **4.** Look in the computer box for additional printed details or updates.
- Read the Regulatory, Safety and Environmental Notices included with your computer. Select the HP Support Assistant app on the Start screen, select My computer, and then select User guides.
- 6. Read the Safety & Comfort Guide for proper workstation setup, posture, health and work habits, and electrical and mechanical safety information. Select the HP Support Assistant app on the Start screen, select My computer, and then select User guides or visit <a href="http://www.hp.com/ergo">http://www.hp.com/ergo</a>.

After you complete the initial computer setup, you might want to install additional software programs or hardware devices. Check the operating system, memory, and other requirements listed before purchasing new software or hardware for your computer. Follow the software manufacturer's directions to install the new software.

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**NOTE:** Use only licensed original software. Installing copied software could result in an unstable installation, infect the computer with a virus, or be illegal.

Security solutions can deter theft, mishandling, and software attacks, but cannot prevent them.

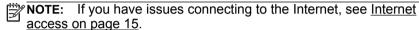
### Connecting to the Internet

Steps to connect to the Internet:

- 1. Connect the hardware as shown on the setup view.
- Get Internet service.

Sign up with an Internet Service Provider (ISP). If you already have an account with an ISP, skip this step and follow the instructions provided by the ISP.

Using your Internet connection through your ISP, open a web browser and browse the Internet.



## 3 Setting up additional features

### Using Beats Audio™ (select models only)

Your HP TouchSmart PC features audio connectors (headphone and Audio Out ) that are optimized for Beats Audio™ headphones and external audio systems (purchased separately). Select HP TouchSmart PC models also include four Beats-optimized internal speakers and a Beats toggle button ● on the keyboard.

Your computer comes ready for you to experience music with Beats enabled. To disable Beats, press the Beats toggle button; the Beats off icon appears on the screen. To turn Beats on, press the Beats toggle button again. If your keyboard does not contain the Beats toggle button, press Fn+B to enable and disable Beats. To view the Beats user interface, from the Start screen, type b, and then select **HP Beats Audio**.

All you need to do is plug the Beats Audio headphones into the side headphone connector to experience crisp and clear sound separation. To experience the full capability of BEATS audio using the internal speakers, HP recommends connecting a matching HP subwoofer to the Sub connector on the back panel. If you are using an external audio system, plug it into the Audio Out connector on the back panel.

### Using the HDMI port controls (select models only)

The right side of your computer may contain an HDMI port and volume control buttons. Unless a device is plugged into the HDMI port, the volume controls have no functionality. The HDMI controls are only intended to control the settings of the device plugged into that port, and do not control any other media devices on the system.

To use the HDMI port controls, plug a device into the HDMI port. Press the menu button (the top button displayed). A new on-screen menu displays. Using the +/- buttons, select brightness, volume, contrast, or color balance



When a device is plugged into the HDMI port, the volume on the computer is muted. Pressing the +/- buttons on the side panel does not change the volume of the computer.

## 4 Maintaining your computer

### Cleaning procedures

Keeping your computer system free of dust, dirt, and heat will prolong its life.

- Dust, pet hair, and other particles can build up, creating a blanket effect; as a result, components can overheat or, in the case of the keyboard and mouse, not work smoothly and effectively.
- Check your system once a month for visible signs of dust and debris, and clean it about once every three
  months
- Visit www.hp.com/qo/contactHP for additional cleaning instructions.

## Cleaning the computer vents

Air vents keep the computer cool. Keep these vents clean by using a small, battery-powered vacuum cleaner. (A battery-powered vacuum cleaner eliminates the risk of electric shock.)

- 1. Vacuum the vents on the computer case.
- Remove any debris that has accumulated in and around the computer connectors (for example, the Ethernet and USB connectors).

## Cleaning the keyboard and mouse

When cleaning the keyboard keys, use a low setting on a battery-powered vacuum cleaner, to avoid removing key caps and springs.

- 1. Vacuum between the keys of the keyboard and along the grooves
- Use a clean, dry cloth and isopropyl (rubbing) alcohol to clean buildup on the keyboard keys and along its edges.
- 3. Wipe the body of the mouse and the mouse cord by using cleaning wipes.

If you have a roller-ball mouse, clean the ball and rollers inside:

- Turn the mouse upside down, and rotate the ball-cover ring counterclockwise to remove the ring and release the roller ball.
- 2. Rinse the roller ball with soap and warm water.
- Clean the rollers inside the mouse with a cotton swab dampened with isopropyl (rubbing) alcohol.
- After the roller ball and rollers are completely dry, replace the ball and ballcover ring.

## Cleaning the screen (AiO models only)

Follow these steps to clean the screen:

- Turn off the computer. From the Start screen, move your cursor to the lowerright corner of the screen to display the charms toolbar, and then select Settings. Select the Power icon, and then select Shut down.
- 2. Disconnect the power cord from the wall.
- Spray a small amount of mild glass cleaner on a soft cloth to clean the screen.
- Wipe the surface and left and right side of the screen to remove any dirt, fingerprints, or other debris.

**CAUTION:** Do not spray or place the cleaner directly on the screen; spray the cleaner into the cloth, and then wipe the sides and surface of the screen.

Do not use an abrasive cleaner or cloth when cleaning the sides or the surface of the screen, because this could cause damage to the screen.

## 5 Troubleshooting

Refer to the documentation provided by the product manufacturer for information about peripheral-specific problems, such as issues with a monitor or a printer. The following tables present some issues you might encounter while installing, starting up, or using your computer and possible solutions.

For more information or for additional troubleshooting options, see Getting information on page 1.

### Computer does not start

Symptom	Possible solution		
Error message:	Restart the computer.		
Hard disk drive error.	1. Press the Ctrl+Alt+Delete keys on the keyboard simultaneously.		
	2. Select the <b>Power</b> icon, and then select <b>Restart</b> .		
	Or, press and hold the <b>Power</b> button on the computer for 5 or more seconds to turn off the computer, and then press the <b>Power</b> button to restart the computer.		
	3. If Windows opens, immediately back up all important data to a backup hard disk drive.		
	4. Contact Support, whether it was possible or not to start up Windows.		
	Either the hard disk drive or the system board may need to be replaced.		
Computer will not turn on or start.	Ensure that the cables connecting the computer to the external power source are plugged in properly. When the cables connecting the computer to the external power source are plugged in properly, and the wall outlet is functioning, the green power supply light on the back of the computer should be on; if it is not, contact Support.		
	Test the wall outlet by connecting a different electrical device to it.		

Symptom	Possible solution		
Computer	Use the Task Manager to close any programs not responding, or restart the computer:		
seems to be locked up and is	1. Press the Ctrl+Alt+Delete keys on the keyboard simultaneously.		
not responding.	2. Select Task Manager.		
	3. Select the program that is not responding, and then select <b>End task</b> .		
	If closing programs does not work, restart the computer:		
	1. Press the Ctrl+Alt+Delete keys on the keyboard simultaneously.		
	2. Select the <b>Power</b> icon, and then select <b>Restart</b> .		
	<i>Or</i> , press and hold the Power button on the computer for 5 or more seconds to turn off the computer, and then press the Power button to restart the computer.		
Error message: Invalid system disk or Non- System disk or Disk error.	When drive activity stops, remove the disc and press the spacebar on the keyboard. The computer should start up.		

### Power

Symptom	Possible solution	
Computer does not turn off when the Power button is pressed.	Press and hold the Power button until the computer turns off. Check Power Settings.	
Computer shuts	The computer might be in an exceedingly hot environment. Let it cool down.	
down automatically.	<ul> <li>Ensure that computer air vents are not blocked and that the internal fan is running — see <u>Cleaning procedures on page 8</u>. (Your computer might not have an internal fan.)</li> </ul>	

## Display (monitor)

Symptom	Possible solution	
Screen is blank.	Press the space bar on the keyboard or move the mouse to make the screen display visible again.	
	Press the Sleep button (select models only), or Esc on the keyboard, to resume from Sleep mode.	
	Press the Power button to turn on the computer.	

## Keyboard and mouse (general)

Symptom	Possible solution		
Keyboard commands and typing are not recognized by the computer.	se the mouse to turn off the computer, unplug and reconnect the keyboard to the back your computer, and then restart your computer.		
Mouse (with cable)	Unplug and reconnect the mouse cable to your computer.		
not detected.	If the mouse is still not detected, turn off the computer, unplug and reconnect the mouse cable, and then restart the computer.		
Cursor does not move using the arrow keys on the number keypad.	Press Num Lock on the keyboard to turn off Num Lock, so that the arrow keys on the number keypad can be used.		
Cursor does not	Use the keyboard to save changes in all open programs, and then restart your computer:		
respond to mouse movement.	1. Press the Alt+Tab keys simultaneously to navigate to an open program.		
	2. Press Ctrl+S simultaneously to save your changes in the selected program (Ctrl+S is the keyboard shortcut for Save on most—not all—programs).		
	3. Repeat step 1 and step 2 to save changes in all open programs.		
	<b>4.</b> After saving changes in all open programs, press the Power button to turn off the computer.		
	<b>5.</b> After the shutdown is complete, unplug and reconnect the mouse connector to the back of your computer, and then restart your computer.		

### **Keyboard and mouse (wireless)**

#### Symptom

#### Possible solution

Wireless keyboard or mouse does not work or is not detected

- Ensure that you are using the wireless keyboard or wireless mouse within range of the receiver, approximately 3 meters (10 feet) for normal use, and within 30 cm (12 inches) during initial setup or for re-synchronization.
- Ensure that the mouse is not in Suspend mode, which occurs after 20 minutes of inactivity. Click the left mouse button to reactivate it.
- Replace the batteries in the keyboard and mouse.
- Re-synchronize the keyboard and mouse to the receiver using the following steps.

The receiver, wireless keyboard, and wireless mouse shown in the following illustrations are examples; your models might vary. **IMPORTANT:** During these steps, place the wireless keyboard and wireless mouse on the same level as the receiver, within 30 cm (12 inches) of the receiver, and away from interference from other devices.

 Unplug the receiver from a USB connector on the computer, and then reconnect it. Your computer model might have a connector dedicated to the receiver. If you have a choice, use a USB connector on the front of the computer.



2. Check that the mouse is on (A), and push and hold the Connect button (B) on the underside of the mouse for 5 to 10 seconds until the LED on the receiver lights or stops flashing. The receiver connection session times out after 60 seconds. To ensure that the connection was established, and that the receiver did not time out instead, move the mouse and check for response on the screen.



- After the mouse connection is established, continue by using the steps that follow to repeat the procedure for the keyboard.
- Push and hold the Connect button (C) on the underside of the keyboard for 5 to 10 seconds until the LED on the receiver lights or stops flashing.



## Speakers and sound

Symptom	Possible solution			
No sound is produced.	1. From the Start screen, type c, select Control Panel, and then select System and Security.			
	2. Under Action Center, select Troubleshoot common computer problems, and then select Troubleshoot audio playback.			
	If you are using built-in monitor speakers, use the monitor front-panel Volume button to adjust volume. Use the front-panel buttons to enter the on-screen display (OSD) and ensure that audio is enabled and that the volume is set appropriately.			
	Ensure that you connected powered (active) speakers and that they are turned on.  Turn off your computer, and then unplug and reconnect the speakers. Ensure that the speakers are connected to an audio connector, not a Line In or headphone connector.  To resume from Sleep mode, press the <b>Sleep</b> button (select models only), or press Esc.			
	Unplug headphones if they are connected to your computer (or speaker system).			
Volume is very low or unsatisfactory.	Ensure that you connected the speakers to the Audio Out (lime green) connector on the back of the computer. (Additional audio connectors are used for multiple-channel speakers.) Detached non-powered speakers (speakers without a separate power source, such as batteries or a power cord) do not produce satisfactory sound. Replace the non-powered speakers with powered speakers.			

### Internet access

Symptom	Possible solution
Internet programs do not start automatically.	Log in to your ISP, and start the desired program.

#### Symptom

#### Possible solution

## I cannot connect to the Internet

- 1. From the Start screen, type c, and then select Control Panel.
- 2. Under Network and Internet, select Connect to the Internet.

Verify that you are using the proper cables for your Internet connection type. Your computer might have a dial-up modem and an Ethernet network adapter (also called a network interface card, or NIC). A modem uses a standard telephone cable, whereas the network adapter uses a network cable, to connect to a local area network (LAN). Do not connect a telephone cable to the network adapter, and do not plug a network cable into a telephone service line; doing so might damage the network adapter.

#### Run the wireless setup wizard:

- From the Start screen, type c, select Control Panel, select Network and Internet, and then select Network and Sharing Center.
- In the Network and Sharing Center window, select Set up a new connection or network to open the wizard, and then follow the on-screen instructions.

If your system has an external antenna, try to move the antenna to a better position. If the antenna is internal, try to move the computer.

Try to connect again later, or contact your Internet service provider (ISP) for assistance.

### Software troubleshooting

#### To repair software problems, try

- Turn the computer off completely and then turn it on again. This is the easiest (and sometimes the best) way.
- Update the drivers (see Updating device drivers, following).
- Use Microsoft System Restore Software program and hardware driver reinstallation (see Microsoft System Restore, later in this table). — Restores your computer to a configuration that was in use before the software was installed.
- Reinstall the software program or hardware driver (see Software program and hardware driver reinstallation, later in this table). — Restores the software (if it came with the product) or hardware driver to factory defaults.
- System Recovery (see Troubleshooting and Maintenance Guide on your computer. Select the HP Support Assistant app on the Start screen, select My computer, and then select User guides). — Erase and reformat the hard disk drive, and then reinstall the operating system, programs, and drivers. This erases all data files you have created

## Updating device

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. From the Start screen, type c and then select Control Panel.
- 2. Select System and Security, and then in the System area, select Device Manager.
- Select the arrow to expand the type of device you want to update or roll back. (For example, DVD/CD-ROM drives).
- 4. Double-click the specific item (for example, HP DVD Writer 640b).
- 5. Select the Driver tab.
- To update a driver, select Update Driver, and then follow the on-screen instructions.

Or, to revert to an earlier version of a driver, select **Roll Back Driver**, and then follow the on-screen instructions.

#### Microsoft System Restore

If you have a problem that might be due to software that was installed on your computer, use System Restore to return the computer to a previous restore point. You can also set restore points manually.

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

To start a system restore or to add restore points manually:

- 1. Close all open programs.
- 2. From the Start screen, type c, and then select Control Panel.
- 3. Select System and Security, select System, and then select System protection.
- 4. Select the **System protection** tab on the System Properties screen.
- Follow the on-screen instructions.

Software program and hardware driver reinstallation

If any of your factory-installed software programs or hardware drivers are damaged, you can reinstall them 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 to be sure that it is still available from where you initially installed it (for example, discs or the Internet). Or check to be sure 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:

- From the Start screen, type r, and then select Recovery Manager. If prompted, select Yes to allow the program to continue.
- 2. Under I need help immediately, select Software Program Reinstallation.
- Select Next at the Welcome screen. A list of programs opens. Check whether your program is there.

To reinstall a program using the Recovery Manager:

- 1. From the Start screen, type r, and then select Recovery Manager.
- Select Software Program Reinstallation, and then select Next at the Welcome screen.
- Choose the program you want to install, select Next, and follow the on-screen instructions
- 4. When you have finished reinstalling, restart the computer. Do not skip this last step. You must restart the computer after recovering software programs or hardware drivers.

To uninstall a program:

- 1. Close all software programs and folders.
- 2. From the Start screen, type c, and then select Control Panel.
- 3. Under Programs, select Uninstall a program.
- 4. Select the program you want to remove, and then select Uninstall.

## 6 Support information

### Ways to get help

Easy to reach. Easy to use. Award-winning HP Customer Support is our promise to help you get the most from your computer. Whether with tools located on your computer, from information on the web, by phone, or through your local retailer, you'll find what you need.

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

- Model number
- Product number
- Serial number
- Software build number
- Operating system
- Purchase date

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 using HP Support Information. From the Start screen, type s, and then select **HP Support Information** 

Don't forget to register!

Go to: http://www.hp.com/apac/register.

### Where to get help

- Use Windows Help and Support for help with hardware and software questions. From the Start screen, type h, and then select Help and Support.
- 2. Use Support Assistant. From the Start screen, type h, and then select **HP Support Assistant**. The HP Support Assistant provides useful troubleshooting and diagnostics information and includes the following:
  - E-mail support
  - HP Real Time Chat with qualified support specialists
  - Support phone numbers
- 3. For help online, go to the HP Customer Care Center website at http://www.hp.com/go/contactHP.

Phone assistance to get you up and running is covered for thirty (30) days from the time you purchased your computer. After thirty (30) days. there may be a charge, but the helpful support is still available.

### **Customer support for repairs**

If your computer needs to be repaired or to have parts replaced, you have two choices:

- You can easily replace many of your computer parts that are considered consumer replaceable. This is the fastest method of repair, as many times we can send the part directly to your home or business in a few days. (This option may not be available in all countries/regions.)
- If a repair is necessary, the HP Customer Care Center will make arrangements to fix your computer.

These services are covered during the warranty period.

There are a few limitations and exclusions to the warranty (as well as some important details), which are described in the *HP Worldwide Limited Warranty and Technical Support* guide.

### Before upgrading your hardware

Any hardware upgrades that you intend to do should only be done after you have completely set up your new computer. Refer to the setup instructions in the beginning of this Guide for help with setting up. If you have any problems setting up your system and turning it on, immediately contact the HP Customer Care Center listed earlier in this guide, and an HP Customer Representative will assist you. This must be done first before attempting to upgrade your system.

By breaking the security seal on the back of the computer, you are confirming that the computer was working properly before you attempted to upgrade your system. Once the security seal has been broken, your computer is then, to the extent allowed by local law, covered under the terms and conditions listed in the *HP Worldwide Limited Warranty and Technical Support* guide.

## The power to make a change

Thank you for your purchase. HP is dedicated to producing the highest quality, best performing, and easiest to use computers in the world. HP also designed this product with the environment in mind.

But to reduce its impact even further, we need your help.

Let's work together to make a change.

How you can help	What we do
Recycle your old computer.	We design with the environment in mind.
Disposing of electronic waste responsibly has been an HP priority for more than 20 years. If this computer is a replacement for an older computer you no longer need, go to <a href="https://www.hp.com/go/recycle">www.hp.com/go/recycle</a> to find out if HP can help you dispose of your old computer with minimum impact on the planet.	While we want you to enjoy this computer for many years to come, we recognize that you will eventually dispose of it. We have designed it so it can be easily dismantled and recycled as much as possible. The packaging that came with your computer is also designed for maximum recyclability.
Don't use a screen saver.	We design to be more energy efficient.
Screen savers can prevent your HP computer from going to sleep and thereby waste power. Screen savers can also reduce the life of your monitor by increasing the number of hours the LCD backlight is on.	This computer has HP Power Management Technology, which can reduce computer energy use up to 45% compared to computers without power management. HP computers keep energy needs to a minimum, saving you money and reducing your carbon footprint.
Don't disable the power settings.  The power management tools on this computer are	We design our products to use better and fewer materials.
set to minimize energy use without impacting performance. Please do not disable them.	Ensuring the health of you, your family, and our planet is a key priority at HP. We are committed to using the safest materials in the production of this and all our other products.

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