

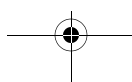
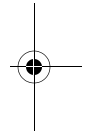
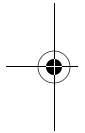


A

Notebook tour



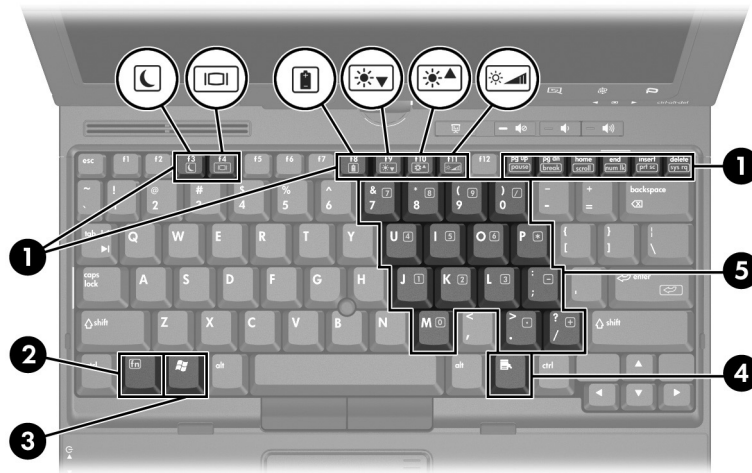
Components included with the computer may vary by region and by model. The illustrations in this appendix identify the standard features included on most computer models.



*Notebook tour***Top components****Components**

❶ Caps lock light	❺ Volume down button
❷ Presentation button	❻ Volume up button
❸ Volume mute light	❼ Num lock light
❹ Volume mute button	

Keys



Components

- | | |
|---------------------------------|-------------------------------------|
| ❶ Function keys (6) | ❷ Windows application key |
| ❸ fn key | ❹ Embedded numeric keypad keys (15) |
| ❹ Microsoft ® Windows® logo key | |

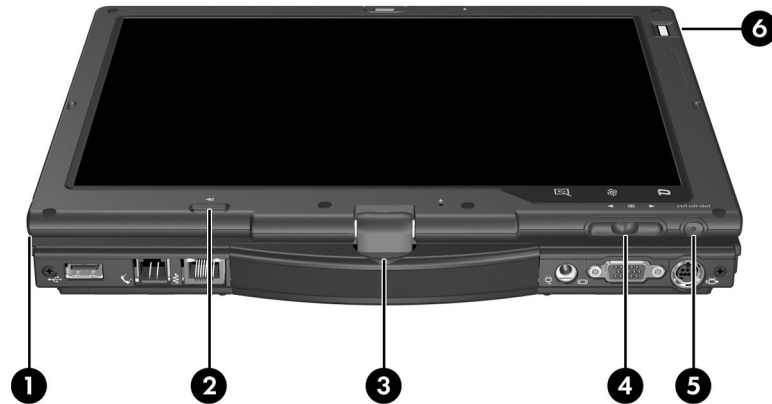
Pointing devices



Components

❶	Pointing stick	❺	Right TouchPad button
❷	Left pointing stick button	❻	TouchPad scroll zone
❸	TouchPad	❼	Right pointing stick button
❹	Left TouchPad button		

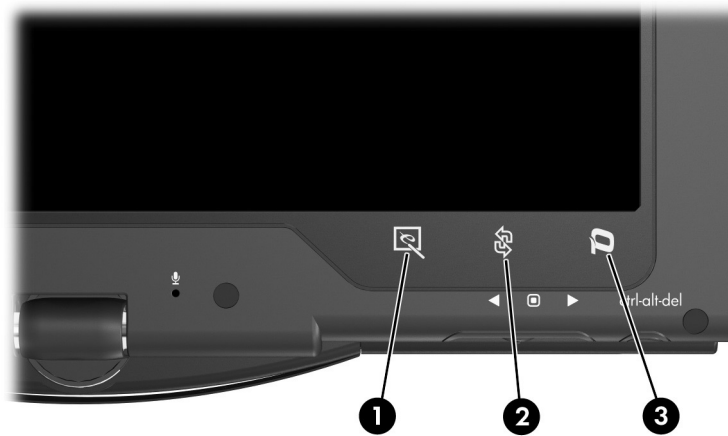
Display components



Components	
❶ Pen holder	❷ Jog dial
❸ Pen eject button	❹ Windows Security button
❺ Rotating hinge	❻ Fingerprint reader

Notebook tour

Pen-activated buttons



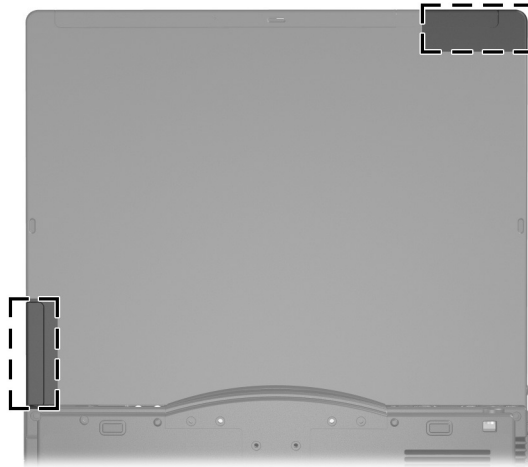
Components

- ❶ Tablet PC Input Panel launch button
- ❷ Rotate button
- ❸ Q Menu button

Wireless antennae

Two wireless antennae send and receive wireless device signals. These antennae are not visible from the outside of the computer.

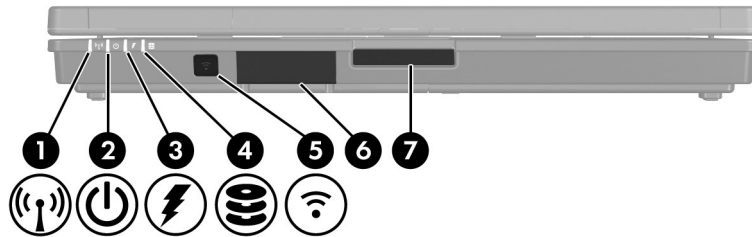
For wireless regulatory notices pertaining to your region, refer to the *Regulatory, Safety and Environmental Notices* located in the Help and Support Center.



For optimal transmission, keep the area immediately around the antennae free from obstructions.

Notebook tour

Front components



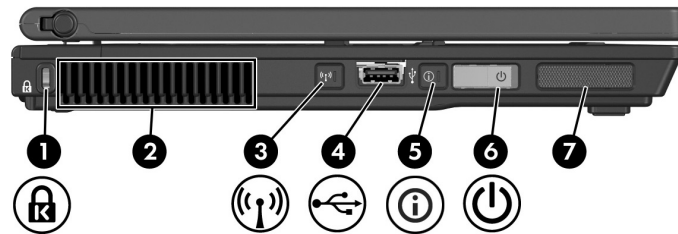
Rear components



Components

❶ Wireless light	❸ USB port
❷ Power/standby light	❹ RJ-11 (modem) jack
❸ Battery light	❺ RJ-45 (network) jack
❹ Drive light	❻ Power connector
❺ Infrared port	❼ External monitor port
❻ Bluetooth® module	❼ S-Video-out jack
❼ Display release button	

Left-side components



Right-side components

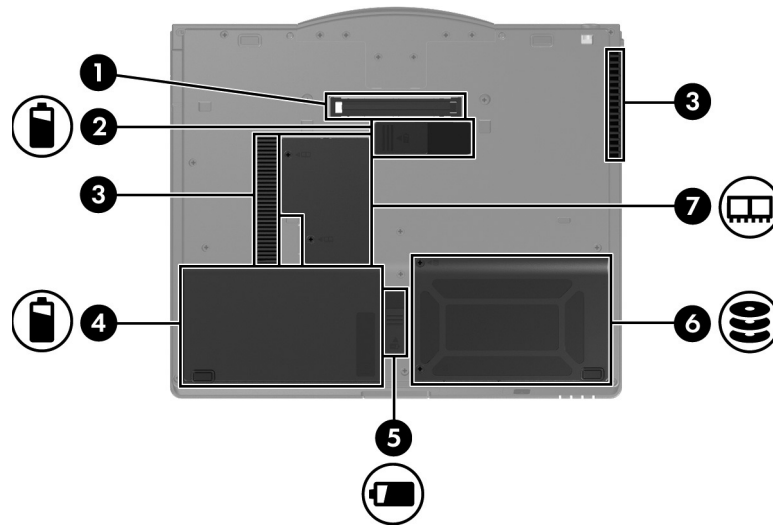


Components

❶ Security cable slot	❷ Speaker
❸ Vent*	❸ Audio-out (headphone) jack
❹ Wireless button (select models only)	❹ Audio-in (microphone) jack
❺ USB port	❺ Powered USB port
❻ Info Center button	❻ PC Card slot or optional smart card reader
❼ Power switch	❼ Digital Media Slot

*Depending on computer model, vents vary in number and location.

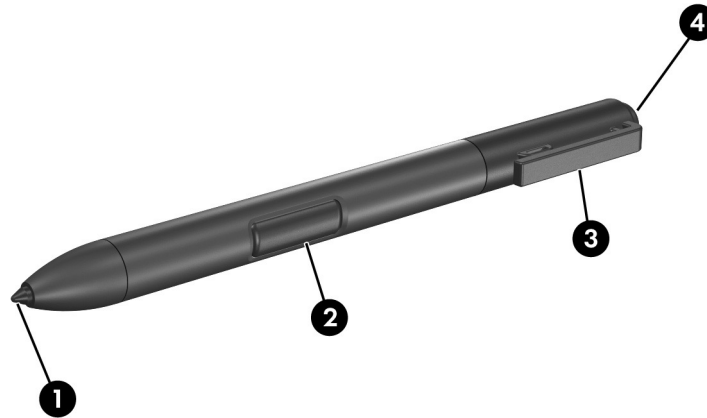
Bottom components



Components

❶ Docking connector	❺ Primary battery pack release latch
❷ Accessory battery connector	❻ Hard drive bay
❸ Vents (2)	❼ Expansion memory module compartment
❹ Primary battery bay	

Pen components

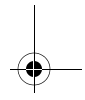
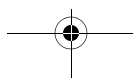
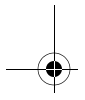
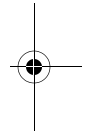
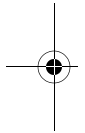
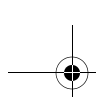


Components

- ① Pen tip
- ② Pen button
- ③ Pen tether eyelet
- ④ Pen eraser



367427-002.book Page 12 Tuesday, February 7, 2006 9:33 AM



B

Connect to the Internet from your home

The computer includes hardware and software that allows you to connect to the Internet. Before you can access the Internet, you must

- Choose an Internet service provider (ISP).
- Choose the type of Internet connection you want, such as broadband, wireless, or dial-up, and connect the hardware.



Internet hardware and software features vary depending on the computer model and your location.

Choose an ISP

You must set up Internet service before you can connect to the Internet. The New Connection Wizard helps you set up a new Internet account or configure the computer to use an existing account.

Connect to the Internet from your home

Use the New Connection Wizard

You can use the New Connection Wizard to connect to the Internet

- If you already have an account with an ISP.
- If you have a disc from an ISP.
- If you do not have an Internet account and would like to select an ISP from the list provided within the wizard.
- If you have selected an unlisted ISP and the ISP has provided you with such information as a specific IP address, POP3 and SMTP settings.

To access the New Connection Wizard and instructions for using the wizard:

» Select **Start > Help and Support**.



If you are prompted within the wizard to choose between enabling or disabling Windows Firewall, choose to enable the firewall.

Choose the type of Internet connection

There are 3 basic types of Internet connection:

■ **Broadband:** High-speed Internet access is available through

- ☐ Cable modem
- ☐ Digital Subscriber Line (DSL)
- ☐ Satellite
- ☐ Other services

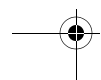
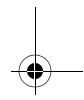
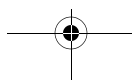
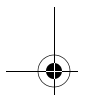
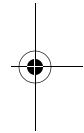
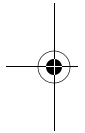
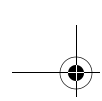
For broadband access, additional hardware and/or software must be provided by your ISP.

■ **Wireless:** For high-speed mobile Internet access, you can use a wireless connection. A wireless network set up at home requires a wireless router, purchased separately. To learn about setting up wireless access, visit <http://www.hp.com/go/wireless> (English only).

■ **Dial-up:** You can access the Internet by dialing into a service provider using a modem cable connected to an RJ-11 (modem) jack.



367427-002.book Page 4 Tuesday, February 7, 2006 9:33 AM



C

Backup and recovery

The HP Backup and Recovery Manager provides several ways to back up the system and to recover optimal system functionality.



HP installed drivers, utilities, and applications can be copied to a CD or to a DVD using the HP Backup and Recovery Manager.



To copy software to a disc on this computer, the computer must be connected to an optional external MultiBay device with an optical drive.

Safeguard your data

Software or devices added to the computer can cause your system to become unstable. To safeguard your documents, store personal files in the My Documents folder and periodically create a backup copy of the folder.

Backup and recovery

Back up the system

Using HP Backup and Recovery Manager, you can

- Back up specific files and folders.
- Back up the entire system.
- Back up modifications since your last backup, using HP system recovery points.
- Schedule backups.

Back up specific files or folders

You can back up specific files or folders to the hard drive, to an optional external hard drive, or to discs.

To back up specific files or folders:

1. Select **Start > All Programs > HP Backup & Recovery Manager > HP Backup and Recovery Manager**.
The HP Backup and Recovery Manager opens.
2. Click **Next**.
3. Click **Backup to protect system settings and important data files**, and then click **Next**.
4. Click **Backup individual files and folders**, and then click **Next**.

The Backup Wizard opens.

5. Click **Backup selected files from most common locations (Recommended)**.

– or –

Click **Advanced Backup (Experienced users)** to access advanced filtering techniques.

6. Click **Next**.

7. Follow the on-screen instructions to back up specific files or folders.

This process may take several minutes depending on the file size and speed of the computer.



If you are backing up your information onto a disc, you will be prompted to insert a blank disc into the optical drive.

Back up the entire system

When you perform a complete system backup, you are saving the full factory image, including the Windows operating system, software applications, and all personal files and folders.



A copy of the entire hard drive image can be stored on another hard drive, on a network drive, or on recovery discs that you create.

To back up the entire system:

1. Select **Start > All Programs > HP Backup & Recovery Manager > HP Backup and Recovery Manager**.

The HP Backup and Recovery Manager opens.

2. Click **Next**.

Backup and recovery

3. Click **Backup to protect system settings and important data files**, and then click **Next**.

4. Click **Backup entire hard drive**, and then click **Next**.

The Entire Drive Backup Manager opens.

5. Click **Next**.

6. Select where you want to back up your entire drive.

You can back up to one of the following locations:

- ☐ **On my PC:** This option backs up your information to the computer hard drive.
- ☐ **On another drive:** This option backs up your information to an optional external hard drive.
- ☐ **On a network:** This option backs up your information to a mapped network drive.

7. Select the **Protect data access with password** check box, and type your password in the **Password** box.

 This step is optional. If you do not want to password protect your data access, clear the Protect data access with password check box.

8. Click **Next** to back up your entire hard drive.

 This process may take over an hour, depending on the computer speed and the amount of information being stored.

Back up modifications made to the system

When you back up modifications made to the system, you are creating system recovery points. A system recovery point allows you to save and name a snapshot of your hard drive at a specific point in time. You can then recover back to that point if you want to reverse subsequent changes made to the system.



By default, the first system recovery point, a snapshot of the entire image, is automatically created the first time you perform a backup. Subsequent recovery points make a copy of changes made after that time.

HP recommends that you create recovery points

- Before you add or extensively modify software or hardware.
- Periodically, whenever the system is performing optimally.



Recovering to an earlier recovery point does not affect data files or e-mails created since that last recovery point.

After you create a recovery point, you are prompted to schedule subsequent recovery points. You can schedule recovery points for a specific time or event in the system.

To create and schedule a system recovery point:

1. Select **Start > All Programs > HP Backup & Recovery Manager > HP Backup and Recovery Manager**.

The HP Backup and Recovery Manager opens.

2. Click **Expert Mode**.
3. Click **Create or manage recovery points**, and then click **Next**.

The Recovery Point Manager opens.

4. Follow the on-screen instructions to create or manage recovery points.

Schedule backups

To schedule backups:

1. Select **Start > All Programs > HP Backup & Recovery Manager > HP Backup and Recovery Manager**.

The Backup and Recovery Manager opens.

2. Click **Expert Mode**.
3. Click **Schedule Backups**.
4. Click **Next**.

The Backup Scheduler opens.

5. Click **Next**.
6. Schedule recovery points at specific intervals (daily, weekly) or at specific events, such as at system start or when you dock to a docking station. Click **Next** to further define the settings.

A summary of your recovery point settings is displayed.

7. Click **Next** to finalize these settings.
8. Click **Finish** to exit.

Recover the system

HP Backup and Recovery Manager analyzes the hard drive and creates a dedicated hard drive recovery partition on the hard drive large enough to store a copy of the full factory image. You choose whether you want to store that copy on the recovery partition, on another drive, or on external recovery discs.

 Before using HP Backup and Recovery Manager, try repairing the system by running Microsoft Windows System Restore. For more information, select **Start > Help and Support**, and then search for “System Restore.”

The HP Backup and Recovery Manager allows you to

- **Create recovery discs (recommended).** The recovery discs are used to boot the computer and to restore the full factory image (operating system and software) in case of system failure or instability.

 To create recovery discs or boot this computer using recovery discs, the computer must be connected to an optional external MultiBay device with an optical drive.

 If you don't have a CD or DVD burner, a copy of the entire hard drive image can be stored on another hard drive or on a network drive.

- **Perform a recovery.** You can perform a full system recovery or recover important files from a recovery partition on the hard drive or from recovery discs that you create.

Create recovery discs (recommended)

After setting up the computer for the first time, you can create a set of recovery discs of your full factory image using HP Backup and Recovery Manager. The recovery discs are used to start up (boot) the computer and restore the operating system and software applications to factory settings in case of system failure or instability.



CAUTION: After you create the recovery discs, you can increase the amount of space on the hard drive by deleting the recovery partition. However, doing this is **not** recommended. If you delete this partition, you will lose any information that is on the partition.



Only one set of recovery discs can be created for this computer.

Before creating recovery discs:

- Connect the computer to an optional external MultiBay device with an optical drive.
- Use high-quality CD-R, DVD-R, or DVD+R media. (purchase separately)



DVD±RW/R and double-layer DVD±RW are not compatible with the HP Backup and Recovery Manager software.

- Number each disc before inserting it into the external MultiBay device optical drive.
- If necessary, you can exit the program before you have finished creating the recovery discs. The next time you open the program, you will be prompted to continue the disc creation process where you left off.

To create a set of recovery discs:

1. Select **Start > All Programs > HP Backup & Recovery Manager > HP Backup and Recovery Manager**.

The HP Backup and Recovery Manager opens.

2. Click **Next**.
3. Click **Create recovery CDs and DVDs to recover the system (recommended)**.
4. Click **Next**.

The Recovery Media Creator Wizard opens.

5. Click **Next**.
6. Click **Write to CD/DVD**, and then click **Next**.
7. Click **Factory image recovery discs**, and then click **Next**.



If you are operating the computer on battery power, you will be prompted to connect to AC power before you can go to the next step.

8. Select the type of discs you want to use, and then click **Next**.



The software examines the image and displays the number of blank discs needed to create your recovery discs.

9. Insert the first disc and follow the on-screen instructions to complete the creation of the recovery discs.

Perform a recovery

Performing a recovery from the recovery discs

To perform a recovery from the recovery discs:

1. Back up all personal files.
2. Insert the first recovery disc into the optional external MultiBay device optical drive and restart the computer.
3. Follow the on-screen instructions.

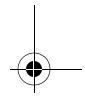
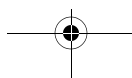
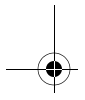
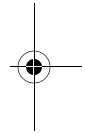
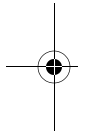
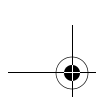
Performing a recovery from the hard drive

Start the full system recovery from either the Start button or **f11**.

1. From the **Start** menu:
 - a. Select **Start > All Programs > HP Backup & Recovery Manager > HP Backup and Recovery Manager**.
The HP Backup and Recovery Manager opens.
 - b. Click **Expert Mode**.
 - c. Click **Start PC Recovery**, and then click **Next**.
 - d. Click **Next** again to restart the computer.
PC Recovery opens.
 - e. Continue to step 2 to complete the recovery process.
- or –

From **f11**:

- a. Restart the computer.
 - b. Press **f11** while the “Press <F11> for recovery” message is displayed on the screen.
 - c. Continue to step 2 to complete the recovery process.
2. Choose one of the following options:
- ☐ **Recover PC to a specific point in time:** Allows you to recover from a previous recovery point.
 - ☐ **Recover PC’s original factory installation and backup data:** Backs up your information and then performs a full system recovery.
 - ☐ **Recover PC’s factory installation:** Formats the hard drive and performs a full system recovery.
 - △ This option does *not* perform a backup; your information will be erased.
 - ☐ **Back up files:** Allows you to back up your files on the hard drive.
3. Click **Next**.
- The system prepares your hard drive and begins the recovery process.
4. Follow the on-screen instructions to complete the recovery.



D

Specifications

The following sections provide information on the operating environment specifications and power specifications.

Operating environment

The operating environment information in the following table might be helpful if you plan to use or transport the computer in extreme environments.

Factor	Metric	U.S.
Temperature		
Operating (not writing to optical disc)	0°C to 35°C	32°F to 95°F
Operating (writing to optical disc)	5°C to 35°C	41°F to 95°F
Nonoperating	-20°C to 60°C	-4°F to 140°F
Relative humidity (noncondensing)		
Operating	10% to 90%	10% to 90%
Nonoperating	5% to 95%	5% to 95%
Maximum altitude (unpressurized)		
Operating (14.7 to 10.1 psia*)	-15 m to 3,048 m	-50 ft to 10,000 ft
Nonoperating (14.7 to 4.4 psia*)	-15 m to 12,192 m	-50 ft to 40,000 ft
*Pounds per square inch absolute (psia) is another unit of measurement for altitude.		

Specifications

Rated input power

The power information in this section might be helpful if you plan to travel internationally with the computer.

The computer operates on DC power, which can be supplied by battery or an AC-to-DC adapter. Although the computer can be powered from a standalone DC power source, it should be powered only with an AC adapter or a DC power source supplied and approved by HP for use with this HP computer.

The computer is capable of accepting DC power within the following specifications.

Input power	Rating
Operating voltage	18.5 V dc @ 3.5 A - 65 W
Operating current	3.5 A

This product is designed for IT power systems in Norway with phase-to-phase voltage not exceeding 240 V rms.

Index

A

- AC adapter
 - connecting 1–5
 - identifying 1–2
- accessory battery connector A–10
- altitude specifications D–1
- antennae, wireless A–7
- antivirus software 2–3
- audio-in (microphone) jack A–9
- audio-out (headphone) jack A–9

B

- backing up files C–2
- backup and recovery
 - recovering the system C–7
- battery bay, primary A–10
- battery connector, accessory A–10
- battery light 1–6, A–8
- battery pack
 - charging 1–6
 - inserting 1–4
- battery pack release latch A–10

- Bluetooth module, location A–8

- bottom components A–10

- buttons
 - display release 1–7, A–8
 - Info Center A–9
 - left pointing stick A–4
 - left TouchPad A–4
 - mute A–2
 - pen eject A–5
 - presentation A–2
 - Q Menu A–6
 - right pointing stick A–4
 - right TouchPad A–4
 - Rotate A–6
 - Tablet PC Input Panel
 - launch A–6
 - volume control A–2
 - Windows Security A–5
 - wireless A–9

C

- cables, modem 2–4
- caps lock light A–2
- CDs, ISP B–2
- components
 - bottom A–10
 - display A–5

Index

- front A-8
- keys A-3
- left-side A-9
- pen A-11
- pen-activated buttons A-6
- pointing devices A-4
- rear A-8
- right-side A-9
- top A-2
- computer
 - turning off 2-8
 - turning on 1-7
- computer setup 1-3
- connectors
 - docking A-10
 - power A-8
- cord, power
 - surge protection 2-4
- customer support 3-7, 3-8
- D**
 - devices, external
 - drivers 3-6
 - troubleshooting 3-6
 - diagnostic features 3-7
 - Digital Media slot A-9
 - display components A-5
 - display release button 1-7, A-8
 - opening the display 1-7
 - docking connector A-10
 - drive light A-8
 - drivers
 - obtaining 3-6
- E**
 - electrical storm, safety issues 2-4
 - embedded numeric keypad
 - keys A-3
 - emergency shutdown
 - procedures 2-8
 - environment
 - altitude D-1
 - humidity D-1
 - operating D-1
 - temperature D-1
 - eraser, pen A-11
 - external devices
 - drivers 3-6
 - troubleshooting 3-6
 - external monitor port A-8
- F**
 - fingerprint reader A-5
 - firewalls 2-4
 - fn** key A-3
 - front components A-8
 - Function keys A-3
- H**
 - hard drive bay A-10
 - hard drive light A-8
 - headphone jack A-9
 - Help and Support Center 3-7
 - hibernation 3-3
 - HP Smart AC Adapter 1-2
 - humidity specifications D-1
- I**
 - IEC 60950 compliance 2-5
 - Info Center button A-9

infrared port A-8
installing software 2-2
Internet Connection Firewall
2-4

J

jacks
 audio-in (microphone) A-9
 audio-out (headphone) A-9
 RJ-11 (modem) A-8
 RJ-45 (network) A-8
jog dial A-5

K

keys
 embedded numeric keypad
 A-3
 fn A-3
 function A-3
 Microsoft Windows logo
 A-3
 Windows application A-3

L

labels, service tag 3-8
LAN (local area network) 2-6
left pointing stick button A-4
left TouchPad button A-4
left-side components A-9
lights
 battery 1-6, A-8
 caps lock A-2
 drive A-8
 mute A-2
 num lock A-2
 power/standby 1-11, A-8
 wireless A-8

M

memory module compartment
 A-10
microphone jack A-9
Microsoft Windows logo key
 A-3
model number 3-7
modem
 surge protection 2-4
 virus protection 2-3
modem cable 2-4
modem, internal 2-6
monitor, external 3-6
mute button A-2
mute light A-2

N

Norton Internet Security 2-3
num lock light A-2

O

opening the computer 1-7
operating system
 displaying version number
 3-8
 finding tours and tutorials
 3-7
 Help and Support Center
 3-7
 Internet Connection wizard
 B-2
 updating 2-4
Operating System disc C-1
operating voltage D-2
overheating 2-5, 3-5

Index

P

- PC card slot A-9
- pen button A-11
- pen components A-11
- pen eject button A-5
- pen eraser A-11
- pen holder A-5
- pen tether eyelet A-11
- pen tip A-11
- pointing stick A-4
- ports
 - external monitor A-8
 - infrared A-8
 - USB A-8, A-9
- power
 - connecting the computer to
 - external 1-5
 - surge protection 2-4
 - turning off 2-8
 - turning on 1-11
- power connector A-8
- power cord
 - securing 3-2
 - surge protection 2-4
- power information, traveling
 - D-2
- power problems,
 - troubleshooting 3-2
- power switch
 - location A-9
 - turning on 1-11
- power/standby light 1-11,
 - A-8
- powered USB port A-9
- presentation button A-2
- printer 3-6

- privacy protection features
 - 2-4

- Product Id 3-8

- product number 3-8

Q

- Q Menu button A-6

- Quick troubleshooting 3-2

R

- rated input power

- specifications D-2

- reader, fingerprint A-5

- rear components A-8

- recovery, system C-1

- registration

- displaying operating

- system registration

- number 3-8

- regulatory information

- notices 2-6

- right pointing stick button A-4

- right TouchPad button A-4

- right-side components A-9

- RJ-11 (modem) jack A-8

- RJ-45 (network) jack A-8

- Rotate button A-6

- rotating hinge A-5

- rotating the display 1-7

- notebook mode 1-9

- tablet PC mode 1-8

S

- safeguarding data C-1

- Safety and Comfort Guide* 2-5

- security cable slot A-9

- serial number 3-7, 3-8

- service tag 3–8
- shutting down 2–8
- slots
 - Digital Media A–9
 - PC card A–9
- software
 - firewall 2–4
 - Help and Support Center 3–7
 - Norton Internet Security 2–3
 - updating 2–7
- speaker A–9
- specifications 3–7
- standby 3–3
- standby/power light A–8
- S-Video-out jack A–8
- system recovery C–1
- T**
- Tablet PC Input Panel launch button A–6
- technical support 3–7, 3–8
- temperature
 - safety considerations 2–5
 - troubleshooting 3–5
- temperature specifications D–1
- TouchPad
 - left TouchPad button A–4
 - location A–4
 - right TouchPad button A–4
 - scroll zone A–4
- tours, product information 3–7
- traveling with your computer, environmental factors D–1
- troubleshooting procedures
 - external device problems 3–6
 - hibernation or standby problems 3–3
 - overheating problems 3–5
 - power problems 3–2
 - software problems 3–4
 - virus problems 3–4
 - wireless network problems 3–6
- troubleshooting resources, Help and Support Center 3–7
- turning off the computer 2–8
- turning on the computer 1–11
- tutorials, tours 3–7
- U**
- updates, software 2–7
- USB ports A–8, A–9
 - powered A–9
- V**
- vents 3–5, A–9, A–10
- viruses, computer 2–3, 3–4
- volume
 - controls A–2
 - mute light A–2
- W**
- Windows A–5
- Windows application key A–3
- Windows firewall 2–4
- Windows logo key A–3
- Windows Security button A–5
- wireless antennae A–7
- wireless button A–9



Index

wireless light A-8

Wireless Regulatory Notices

2-6

WLAN (wireless local area
network) 2-6

