### How to Copy a CD or DVD

NOTE: Most commercial DVDs have copyright protection and cannot be copied using Roxio Creator Plus.

- 1 Click Start 🚱 All Programs Roxio Creator DE Projects Copy.
- 2 Under the Copy tab, click Copy Disc.
- **3** To copy the CD or DVD:
  - If you have one optical drive, insert the source disc into the drive, ensure that the settings are correct, and then click the **Copy Disc** button to continue. The computer reads your source disc and copies the data to a temporary folder on your computer hard drive.

When prompted, insert a blank disc into the drive and click **OK**.

• *If you have two optical drives*, select the drive into which you have inserted your source disc and click the **Copy Disc** button to continue. The computer copies the data from the source disc to the blank disc.

Once you have finished copying the source disc, the disc that you have created automatically ejects.

### **Using Blank CD and DVD Media**

DVD-writable drives can write to both CD and DVD recording media.

Use blank CD-Rs to record music or permanently store data files. After creating a CD-R, you cannot write to that CD-R again (see the Sonic documentation for more information). Use a blank CD-RW if you plan to erase, rewrite, or update information on that disc later.

Blank DVD+/-R media can be used to permanently store large amounts of information. After you create a DVD+/-R, you may not be able to write to that disc again if the disc is *finalized* or *closed* during the final stage of the disc creation process. Use blank DVD+/-RW media if you plan to erase, rewrite, or update information on that disc later.

**CD-Writable Drives** 

Media Type	Read	Write	Rewritable
CD-R	Yes	Yes	No
CD-RW	Yes	Yes	Yes

Using Multimedia | 51

### **DVD-Writable Drives**

Media Type	Read	Write	Rewritable
CD-R	Yes	Yes	No
CD-RW	Yes	Yes	Yes
DVD+R	Yes	Yes	No
DVD-R	Yes	Yes	No
DVD+RW	Yes	Yes	Yes
DVD-RW	Yes	Yes	Yes
DVD+R DL	Yes	Yes	No
DVD-R DL	Yes	Yes	No

### **Helpful Tips**

- Use Microsoft<sup>®</sup> Windows<sup>®</sup> Explorer to drag and drop files to a CD-R or CD-RW only after you start Roxio Creator and open a Creator project.
- Do not burn a blank CD-R or CD-RW to its maximum capacity; for example, do not copy a 650-MB file to a blank 650-MB CD. The CD-RW drive needs 1–2 MB of the blank space to finalize the recording.
- Use CD-Rs to burn music CDs that you want to play in regular stereos. CD-RWs do not play in most home or car stereos.
- Music MP3 files can be played only on MP3 players or on computers that have MP3 software installed.
- Use a blank CD-RW to practice CD recording until you are familiar with CD recording techniques. If you make a mistake, you can erase the data on the CD-RW and try again. You can also use blank CD-RWs to test music file projects before you record the project permanently to a blank CD-R.
- You cannot create audio DVDs with Roxio Creator.
- Commercially available DVD players used in home theater systems may not support all available DVD formats. For a list of formats supported by your DVD player, see the documentation provided with your DVD player or contact the manufacturer.
- See the Roxio website at www.sonic.com.

### 52 | Using Multimedia

book.book Page 53 Wednesday, May 9, 2007 7:16 PM

# **Adjusting the Volume**

**NOTE:** When the speakers are muted, you do not hear the media playing.

- **1** Right-click the volume icon in the notification area.
- 2 Click Open Volume Mixer.
- 3 Click and drag the bar to slide it up or down to increase or decrease the volume.

For more information on volume control options, click **Help** in the **Volume Mixer** window.

The Volume Meter displays the current volume level, including mute, on your computer. Either click the QuickSet icon in the notification area and select or deselect **Disable On Screen Volume Meter**, or press the volume control buttons to enable or disable the Volume Meter on the screen.

# **Adjusting the Picture**

If an error message notifies you that the current resolution and color depth are using too much memory and preventing media playback, adjust the display properties:

- 1 Click Start 🚳 →Control Panel →Appearance and Personalization.
- 2 Under Personalization, click Adjust screen resolution.
- **3** On **Display Settings**, click and drag the bar to reduce the resolution setting.
- **4** In the drop-down menu under **Color quality**, click **Medium** (16 bit).
- 5 Click OK.

## Using Dell MediaDirect<sup>™</sup>

Dell MediaDirect is an instant-on multimedia playback mode for digital media. Press the Dell MediaDirect button, located on the hinge cover, to launch Dell MediaDirect. When your computer is turned off or in Sleep state, you can press the Dell MediaDirect button to start the computer and automatically launch the Dell MediaDirect application. book.book Page 54 Wednesday, May 9, 2007 7:16 PM



### 1 Dell MediaDirect button

NOTE: You cannot reinstall Dell MediaDirect if you voluntarily reformat the hard drive. You need the installation software to reinstall Dell MediaDirect. Contact Dell for assistance (see "Contacting Dell" on page 152).

For more information on using Dell MediaDirect, use the **Help** menu in the Dell MediaDirect application.

# Connecting Your Computer to a TV or Audio Device

**NOTE:** Video and audio cables for connecting your computer to a TV or other audio device may not be included with your computer. Cables and TV/digital audio adapter cables are available for purchase from Dell.

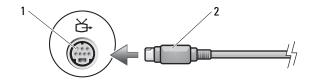
Your computer has an S-video TV-out connector that, together with a standard S-video cable, a composite video adapter cable, or a component video adapter cable (available from Dell), enable you to connect the computer to a TV.

Your TV has either an S-video input connector, a composite video-input connector, or a component video-input connector. Depending on what type of connector is available on your TV, you can use a commercially available S-video cable, composite video cable, or component video cable to connect your computer to your TV.

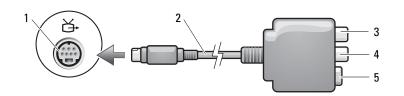
54 | Using Multimedia

۲ book.book Page 55 Wednesday, May 9, 2007 7:16 PM

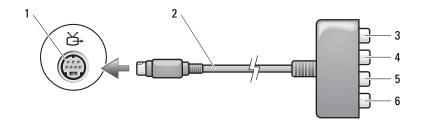
 $( \blacklozenge )$ 



2 1 S-video TV-out connector S-video connector



- 1 S-video TV-out connector
- 3 S/PDIF digital audio connector
- S-video connector
- 2 composite video adapter
- 4 composite video-output connector
- 5



S-video TV-out connector 1

5

- 3 S/PDIF digital audio connector
- 2 component video adapter
- 4 Pr (red) component video-output connector
- Pb (blue) component video-output 6 connector
- Y (green) component video-output connector

55 Using Multimedia T

book.book Page 56 Wednesday, May 9, 2007 7:16 PM

If you want to connect your computer to a TV or audio device, it is recommended that you connect video and audio cables to your computer in one of the following combinations:

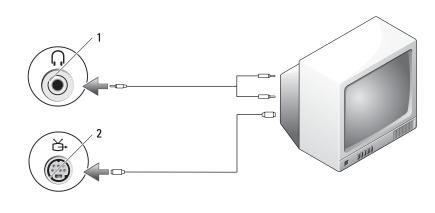
- ٠ S-video and standard audio
- ٠ Composite video and standard audio
- Component-out video and standard audio ٠

¢

NOTE: See the diagrams at the beginning of each subsection to help you determine which method of connection you should use.

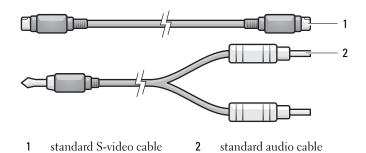
When you finish connecting the video and audio cables between your computer and your TV, you must enable your computer to work with the TV. See "Enabling the Display Settings for a TV" on page 68 to ensure that the computer recognizes and works properly with the TV. Additionally, if you are using S/PDIF digital audio, see "Enabling S/PDIF Digital Audio" on page 68.

### **S-Video and Standard Audio**



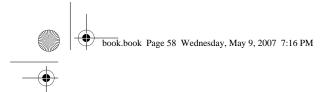
S-video TV-out connector 1 audio connector 2

56 Using Multimedia book.book Page 57 Wednesday, May 9, 2007 7:16 PM

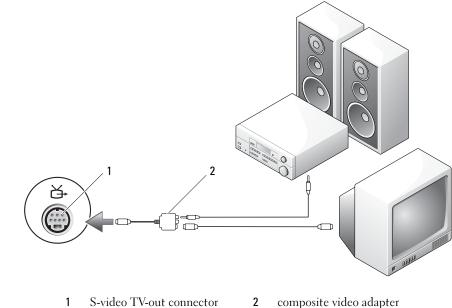


- 1 Turn off the computer and the TV and/or audio device that you want to connect.
- **NOTE:** If your TV or audio device supports S-video but not S/PDIF digital audio, you can connect an S-video cable directly to the S-video TV-out connector on the computer (without the TV/digital audio adapter cable).
- **2** Plug one end of the S-video cable into the S-video output connector on the computer.
- **3** Plug the other end of the S-video cable into the S-video input connector on your TV.
- **4** Plug the single-connector end of the audio cable into the headphone connector on your computer.
- 5 Plug the two RCA connectors on the other end of the audio cable into the audio input connectors on your TV or other audio device.
- **6** Turn on the TV and any audio device that you connected (if applicable), and then turn on the computer.
- 7 See "Enabling the Display Settings for a TV" on page 68 to ensure that the computer recognizes and works properly with the TV.

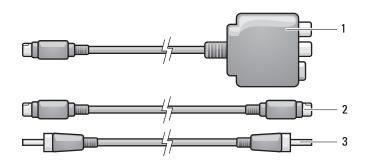
Using Multimedia | 57



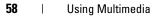
### S-Video and S/PDIF Digital Audio



S-video TV-out connector composite video adapter 2

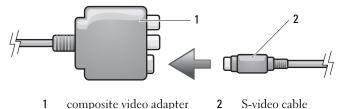


composite video adapter **2** S-video cable 3 S/PDIF digital audio cable 1



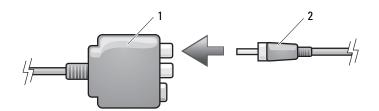
book.book Page 59 Wednesday, May 9, 2007 7:16 PM

- 1 Turn off the computer and the TV and/or the audio device that you want to connect.
- Connect the composite video adapter to the S-video TV-out connector on 2 your computer.
- **3** Plug one end of the S-video cable into the S-video output connector on the composite video adapter.



composite video adapter 2 S-video cable

- 4 Plug the other end of the S-video cable into the S-video input connector on the TV.
- Plug one end of the S/PDIF digital audio cable into the digital audio 5 connector on the composite video adapter cable.



S/PDIF digital audio cable 1 composite video adapter 2

- 6 Plug the other end of the S/PDIF digital audio cable into the audio input connector on your TV or audio device.
- 7 Turn on the TV, turn on any audio device that you connected (if applicable), and then turn on the computer.
- See "Enabling the Display Settings for a TV" on page 68 to ensure that the 8 computer recognizes and works properly with the TV.

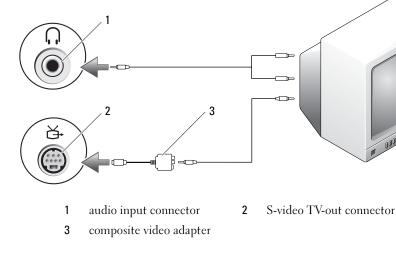
59 Using Multimedia 

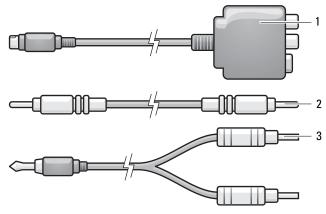
book.book Page 60 Wednesday, May 9, 2007 7:16 PM

۲

۲

### **Composite Video and Standard Audio**





1 composite video adapter 2 composite video cable

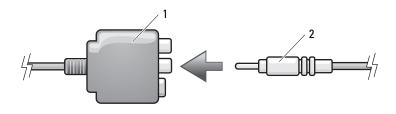
P 10110

3 standard audio cable

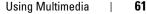
60 Using Multimedia 

book.book Page 61 Wednesday, May 9, 2007 7:16 PM

- 1 Turn off the computer and the TV and/or audio device that you want to connect.
- **2** Connect the composite video adapter to the S-video TV-out connector on your computer.
- **3** Plug one end of the composite video cable into the composite videooutput connector on the composite video adapter.



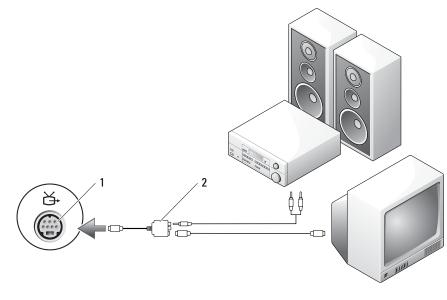
- 1 composite video adapter 2 composite video cable
- **4** Plug the other end of the composite video cable into the composite videoinput connector on the TV.
- **5** Plug the single-connector end of the audio cable into the headphone connector on the computer.
- 6 Plug the two RCA connectors on the other end of the audio cable into the audio input connectors on your TV or other audio device.
- 7 Turn on the TV, turn on any audio device that you connected (if applicable), and then turn on the computer.
- 8 See "Enabling the Display Settings for a TV" on page 68 to ensure that the computer recognizes and works properly with the TV.



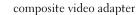
۲ book.book Page 62 Wednesday, May 9, 2007 7:16 PM

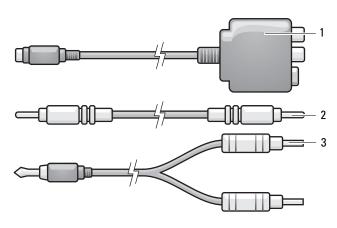
۲

### **Composite Video and S/PDIF Digital Audio**

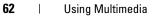


1 S-video TV-out connector 2





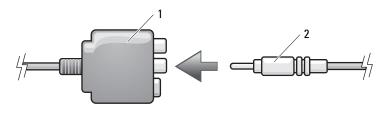
- composite video adapter 2 composite video cable
- 3 standard audio cable



1

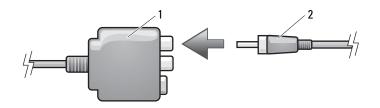
book.book Page 63 Wednesday, May 9, 2007 7:16 PM

- 1 Turn off the computer and the TV and/or audio device that you want to connect.
- Connect the composite video adapter to the S-video TV-out connector on the computer.
- **3** Plug one end of the composite video cable into the composite video-input connector on the composite video adapter.



1 composite video adapter 2 composite video cable

- **4** Plug the other end of the composite video cable into the composite videoinput connector on the TV.
- **5** Plug one end of the S/PDIF digital audio cable into the S/PDIF audio connector on the composite video adapter.



1 composite video adapter 2 S/PDIF digital audio cable

- **6** Plug the other end of the digital audio cable into the S/PDIF input connector on your TV or other audio device.
- 7 Turn on the TV, turn on any audio device that you connected (if applicable), and then turn on the computer.
- **8** See "Enabling the Display Settings for a TV" on page 68 to ensure that the computer recognizes and works properly with the TV.

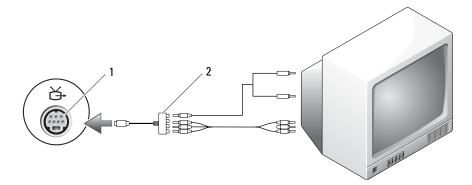
Using Multimedia | 63

book.book Page 64 Wednesday, May 9, 2007 7:16 PM

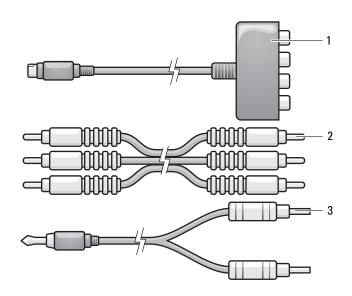
۲

۲

### **Component Video and Standard Audio**



1 S-video TV-out connector 2 component video adapter

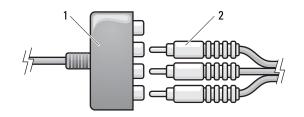


- 1 component video adapter 2 component video cable
- 3 standard audio cable



book.book Page 65 Wednesday, May 9, 2007 7:16 PM

- 1 Turn off the computer and the TV and/or audio device that you want to connect.
- Connect the component video adapter to the S-video TV-out connector on your computer.
- **3** Plug all three ends of the component video cable into the component video-output connectors on the component video adapter. Make sure that the red, green, and blue colors of the cable match the corresponding adapter ports.

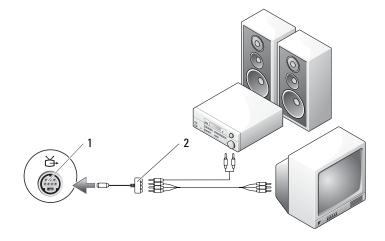


- 1 component video adapter 2 component video cable
- **4** Plug all three connectors from the other end of the component video cable into the component video-input connectors on the TV. Make sure that the red, green, and blue colors of the cable match the colors of the TV input connectors.
- **5** Plug the single-connector end of the audio cable into the headphone connector on the computer.
- 6 Plug the two RCA connectors on the other end of the audio cable into the audio input connectors on your TV or audio device.
- 7 Turn on the TV, turn on any audio device that you connected (if applicable), and then turn on the computer.
- 8 See "Enabling the Display Settings for a TV" on page 68 to ensure that the computer recognizes and works properly with the TV.

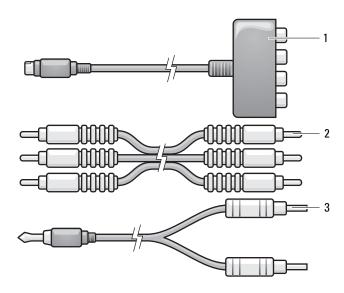
book.book Page 66 Wednesday, May 9, 2007 7:16 PM

۲

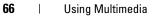
### **Component Video and S/PDIF Digital Audio**



1 S-video TV-out connector 2 component video adapter

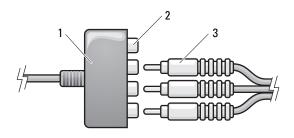


- 1 component video adapter 2 component video cable
- **3** standard audio cable



book.book Page 67 Wednesday, May 9, 2007 7:16 PM

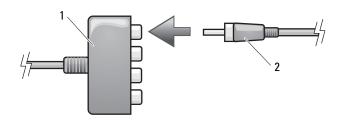
- 1 Turn off the computer and the TV and/or audio device that you want to connect.
- **2** Connect the component video adapter to the S-video TV-out connector on the computer.
- **3** Plug all three ends of the component video cable into the component video-output connectors on the component video adapter. Make sure that the red, green, and blue colors of the cable match the corresponding adapter ports.



- 1 component video adapter 2 component video-output connectors
- **3** component video cable

1

- **4** Plug all three connectors from the other end of the component video cable into the component video-input connectors on the TV. Make sure that the red, green, and blue colors of the cable match the colors of the TV input connectors.
- **5** Plug one end of the S/PDIF digital audio cable into the S/PDIF audio connector on the component video adapter.



component video adapter 2 S/PDIF digital audio cable

Using Multimedia | 67

book.book Page 68 Wednesday, May 9, 2007 7:16 PM

- **6** Plug the other end of the digital audio cable into the S/PDIF input connector on your TV or other audio device.
- 7 Turn on the TV, turn on any audio device that you connected (if applicable), and then turn on the computer.
- 8 See "Enabling the Display Settings for a TV" on page 68 to ensure that the computer recognizes and works properly with the TV.

### **Enabling S/PDIF Digital Audio**

- 1 Double-click the speaker icon in the Windows notification area.
- 2 Click the Options menu and then click Advanced Controls.
- **3** Click Advanced.
- 4 Click S/PDIF Interface.
- 5 Click Close.
- 6 Click OK.

### **Enabling the Display Settings for a TV**

**NOTE:** To ensure that the display options appear correctly, connect the TV to the computer before you enable the display settings.

- 1 Click Start 😨, click Control Panel, and then click Appearance and Personalization.
- 2 Under Personalization, click Adjust Screen Resolution.

The Display Properties window appears.

- 3 Click Advanced.
- **4** Click the tab for your video card.

■ NOTE: To determine the type of video card installed in your computer, see Windows Help and Support. To access Help and Support, click Start →Help and Support. Under Pick a Task, click Use Tools to view your computer information and diagnose problems. Then, under My Computer Information, select Hardware.

**5** In the display devices section, select the appropriate option for using either a single display or multiple displays, ensuring that the display settings are correct for your selection.

68 | Using Multimedia

book.book Page 69 Wednesday, May 9, 2007 7:16 PM

# **Using Cards**

# **ExpressCards**

ExpressCards provide additional memory, wired and wireless communications, multimedia and security features. For example, you can add an ExpressCard to make wireless wide area network (WWAN) connectivity available on your computer.

ExpressCards support two form factors:

• ExpressCard/34 (34 mm wide)

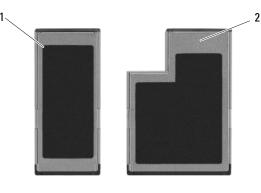
1

• ExpressCard/54 (54 mm wide in an L-shape with a 34 mm connector)

The 34 mm card fits into both the 34 mm and 54 mm card slots. The 54 mm card only fits into a 54 mm card slot.

See "Specifications" on page 153 for information on supported ExpressCards.

**NOTE:** An ExpressCard is not a bootable device.



ExpressCard/34 2 ExpressCard/54



book.book Page 70 Wednesday, May 9, 2007 7:16 PM

### **ExpressCard Blanks**

Your computer shipped with a plastic blank installed in the ExpressCard slot. Blanks protect unused slots from dust and other particles. Save the blank for use when no ExpressCard is installed in the slot; blanks from other computers may not fit your computer.

Remove the blank before installing an ExpressCard. To remove the blank, see "Removing an ExpressCard or Blank" on page 71.

### Installing an ExpressCard

You can install an ExpressCard while the computer is running. The computer automatically detects the card.

ExpressCards are generally marked with a symbol (such as a triangle or an arrow) or a label to indicate which end to insert into the slot. The cards are keyed to prevent incorrect insertion. If card orientation is not clear, see the documentation that came with the card.

# CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

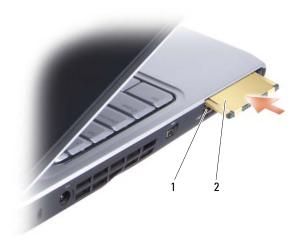
To install an ExpressCard:

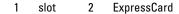
- 1 Hold the card with the top side of the card facing up.
- **2** Slide the card into the slot until the card is completely seated in its connector.

If you encounter too much resistance, do not force the card. Check the card orientation and try again.

70 | Using Cards

book.book Page 71 Wednesday, May 9, 2007 7:16 PM





The computer recognizes the ExpressCard and automatically loads the appropriate device driver. If the configuration program tells you to load the manufacturer's drivers, use the media that came with the ExpressCard.

### **Removing an ExpressCard or Blank**

# CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Press the latch and remove the card or blank. For some latches, you must press the latch twice, once to pop the latch out, and then a second time to pop the card out.

Save a blank to use when no ExpressCard is installed in a slot. Blanks protect unused slots from dust and other particles.

book.book Page 72 Wednesday, May 9, 2007 7:16 PM



1 release button

# **Memory Card Reader**

The memory card reader provides a fast and convenient way to view and share digital photos, music, and videos stored on a memory card.

### **NOTE:** A memory card is not a bootable device.

The 8-in-1 memory card reader reads the following memory cards:

- Secure Digital (SD)
- SDIO
- MultiMediaCard (MMC)
- Memory Stick
- Memory Stick PRO
- xD-Picture Card
- Hi Speed-SD
- Hi Density-SD



book.book Page 73 Wednesday, May 9, 2007 7:16 PM

### **Memory Card Blanks**

Your computer shipped with a plastic blank installed in the memory card reader. Blanks protect unused slots from dust and other particles. Save the blank for use when no media memory card is installed in the slot; blanks from other computers may not fit your computer.

Remove the blank before installing a media memory card. To remove the blank, see "Removing a Memory Card or Blank" on page 74.

### **Installing a Memory Card**

You can install a media memory card in the computer while the computer is running. The computer automatically detects the card.

Memory cards are generally marked with a symbol (such as a triangle or an arrow) or a label to indicate which end to insert into the slot. The cards are keyed to prevent incorrect insertion. If card orientation is not clear, see the documentation that came with the card.

CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the Product Information Guide.

To install a memory card:

- 1 Hold the card with the top side of the card facing up.
- 2 Slide the card into the slot until the card is completely seated in its connector.

If you encounter too much resistance, do not force the card. Check the card orientation and try again.



book.book Page 74 Wednesday, May 9, 2007 7:16 PM

The computer recognizes the memory card and automatically loads the appropriate device driver. If the configuration program tells you to load the manufacturer's drivers, use the media that came with the memory card, if applicable.

### **Removing a Memory Card or Blank**



♥

CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

• NOTICE: Use the memory card configuration utility (click the size icon in the notification area) to select a card and stop it from functioning before you remove it from the computer. If you do not stop the card in the configuration utility, you could lose data.

Press the card into the slot to release it from the card reader. When it is partially ejected, remove the card.

74 Using Cards book.book Page 75 Wednesday, May 9, 2007 7:16 PM

# Setting Up and Using Networks

Setting up a computer network provides connectivity between your computer and the Internet, another computer, or a network. For example, with a network set up in a home or small office you can print to a shared printer, access drives and files on another computer, browse other networks, or access the Internet. You can set up a local area network (LAN) using a network or broadband modem cable or set up a wireless LAN (WLAN).

The Windows Vista<sup>™</sup> operating system provides a wizard to help guide you through the process of networking computers. For more information about Networking, access Windows Help and Support (click Start 🧐 and then click Help and Support).

# **Connecting a Network or Broadband** Modem Cable

Before you connect your computer to a network, the computer must have a network adapter installed and a network cable connected to it.

- Connect the network cable to the network adapter connector on the back 1 of your computer.
  - **NOTE:** Insert the cable connector until it clicks into place, and then gently pull on the cable to ensure that it is securely attached.
- 2 Connect the other end of the network cable to a network connection device or a network wall connector.



**NOTE:** Do not use a network cable with a telephone wall connector.



# **Setting Up a Network**

- 1 Click Start 🧐, and then click Connect To.
- 2 Click Set up a connection or network.
- **3** Select an option under Choose a connection option.
- 4 Click Next, and then follow the instructions in the wizard.

## Wireless Local Area Network

A wireless local area network (WLAN) is a series of interconnected computers that communicate with each other over the air waves rather than through a network cable connected to each computer. In a WLAN, a radio communications device called an access point or wireless router connects network computers and provides Internet, or network access. The access point or wireless router and the wireless network card in the computer communicate by broadcasting data from their antennas over the air waves.

### What You Need to Establish a WLAN Connection

Before you can set up a WLAN, you need:

- High-speed (broadband) Internet access (such as cable or DSL)
- A broadband modem that is connected and working
- A wireless router or access point
- A wireless network card for each computer that you want to connect to your WLAN

### **Checking Your Wireless Network Card**

Depending on what you selected when you purchased your computer, the computer has a variety of configurations. To confirm that your computer has a wireless network card and to determine the type of card:

- Use the Device Manager
- Check the order confirmation for your computer

### 76 | Setting Up and Using Networks

book.book Page 77 Wednesday, May 9, 2007 7:16 PM

### **Device Manager**

- 1 Click Start 🚱, and then click Control Panel.
- 2 Click Classic View on the menu on the left side of the Control Panel.
- **3** Double-click Device Manager.

**NOTE:** The User Account Control window may open.

- 4 Click Continue on the User Account Control window if it opens.
- 5 Click the + next to Network adapters to list the utility that manages your wireless network card.

If a network adapter is not listed, you may not have a wireless network card.

If a network adapter is listed, you have a wireless network card. To view detailed information about the wireless network card:

- **1** Right-click the name of the network adapter.
- 2 Click Properties.

### The Order Confirmation for Your Computer

The order confirmation that you received when you ordered your computer lists the hardware and software that shipped with your computer.

### Setting Up a New WLAN Using a Wireless Router and a Broadband Modem

- 1 Contact your Internet service provider (ISP) to obtain specific information about the connection requirements for your broadband modem.
- 2 Ensure that you have wired Internet access through your broadband modem before you attempt to set up a wireless Internet connection (see "Connecting a Network or Broadband Modem Cable" on page 75).
- **3** Install any software required for your wireless router. Your wireless router may have been shipped with installation media. Installation media usually contains installation and troubleshooting information. Install the required software according to the instructions provided by the router manufacturer.
- 4 Shut down your computer and any other wireless-enabled computers in the vicinity through the Windows Vista Start button 😨.
- **5** Disconnect your broadband modem power cable from the electrical outlet.

Setting Up and Using Networks | 77

- 6 Disconnect the network cable from the computer and the modem.
- 7 Disconnect the AC adapter cable from your wireless router to ensure that there is no power connected to the router.

**NOTE:** Wait for a minimum of 5 minutes after disconnecting your broadband modem before continuing with the network setup.

- **8** Insert a network cable into the network (RJ-45) connector on the unpowered broadband modem.
- **9** Connect the other end of the network cable into the Internet network (RJ-45) connector on the unpowered wireless router.

**10** Ensure that no network or USB cables, other than the network cable connecting the modem and the wireless router, are connected to the broadband modem.

**NOTE:** Restart your wireless equipment in the order described below to prevent a potential connection failure.

- **11** Turn on *only* your broadband modem and wait for at least 2 minutes for the broadband modem to stabilize. After 2 minutes, proceed to step 12.
- **12** Turn on your wireless router and wait for at least 2 minutes for the wireless router to stabilize. After 2 minutes, proceed to the step 13.
- **13** Start your computer and wait until the boot process completes.
- **14** See the documentation that came with your wireless router to do the following in order to set up the wireless router:
  - Establish communication between your computer and your wireless router.
  - Configure your wireless router to communicate with your broadband router.
  - Find out your wireless router's broadcast name. The technical term for the name of your router's broadcast name is Service Set Identifier (SSID) or network name.
- **15** If necessary, configure your wireless network card to connect to the wireless network (see "Connecting to a WLAN" on page 79).

78 | Setting Up and Using Networks

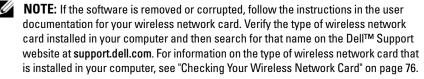
### **Connecting to a WLAN**

NOTE: Before you connect to a WLAN, ensure that you have followed the instructions in "Wireless Local Area Network" on page 76.

**NOTE:** The following networking instructions do not apply to internal cards with Bluetooth<sup>®</sup> wireless technology or cellular products.

This section provides general procedures for connecting to a network using wireless technology. Specific network names and configuration details vary. See "Wireless Local Area Network" on page 76 for more information about how to prepare for connecting your computer to a WLAN.

Your wireless network card requires specific software and drivers for connecting to a network. The software is already installed.



When you turn on your computer and a network (for which your computer is not configured) is detected in the area, a pop-up appears near the network icon in the Windows notification area.

To connect to the network:

- 1 Click Start 🚳, and then click Network.
- 2 Click Network and Sharing on the navigation bar at the top of the Network folder.
- 3 Click Connect to a network under Tasks.
- 4 Select your network from the list and click Connect.

Once you have configured your computer for a wireless network, another pop-up notifies you that your computer is connected to that network.

Thereafter, whenever you log on to your computer within the range of the wireless network that you selected, the same pop-up notifies you of the wireless network connection.

**NOTE:** If you select a secure network, you must enter a WEP or WPA key when prompted. Network security settings are unique to your network. Dell cannot provide this information.

**NOTE:** Your computer can take up to 1 minute to connect to the network.

Setting Up and Using Networks | 79

book.book Page 80 Wednesday, May 9, 2007 7:16 PM

### Monitoring the Status of the Wireless Network Card Through Dell QuickSet

The wireless activity indicator provides you with an easy way to monitor the status of your computer's wireless devices. To turn the wireless activity indicator on or off, click the QuickSet icon in the taskbar and select Hotkey Popups. If Wireless Activity Indicator Off is not checked, the indicator is on. If Wireless Activity Indicator Off is checked, the indicator is off.

The wireless activity indicator displays whether your computer's integrated wireless devices are enabled or disabled. When you turn the wireless networking function on or off, the wireless activity indicator changes to display the status.

For more information about the Dell QuickSet wireless activity indicator, right-click the QuickSet icon in the taskbar, and then select Help.

# Mobile Broadband (or Wireless Wide Area Network)

A Mobile Broadband network, also known as a Wireless Wide Area Network (WWAN), is a high-speed digital cellular network that provides Internet access over a much wider geographical area than a WLAN, which typically covers only from 100 to 1000 feet. Your computer can maintain Mobile Broadband network access as long as the computer is within a cellular-data coverage zone. Contact your service provider for coverage of a high-speed digital cellular network.



**NOTE:** Even if you are able to make a call from your cellular phone in a specific geographical location, that location may not necessarily be within a cellular-data coverage zone.

### What You Need to Establish a Mobile Broadband Network Connection

**NOTE:** Depending on your computer, you can use either a Mobile Broadband ExpressCard or Mini Card, but not both, to establish a Mobile Broadband network connection.

To set up a Mobile Broadband network connection, you need:

A Mobile Broadband ExpressCard or Mini Card (depending on your computer's configuration)

**NOTE:** For instructions on using ExpressCards, see "ExpressCards" on page 69.

80 Setting Up and Using Networks book.book Page 81 Wednesday, May 9, 2007 7:16 PM

- An activated Mobile Broadband ExpressCard or activated Subscriber Identity Module (SIM) for your service provider
- The Dell Mobile Broadband Card Utility (already installed on your computer if you purchased the card when you purchased your computer, or on the media that accompanied your card if purchased separately from your computer)

If the utility is corrupted or deleted from your computer, see the Dell Mobile Broadband Card Utility user's guide in Windows Help and Support (click **Start** (2), and then click **Help and Support**) or on the media that accompanied your card if you purchased it separately from your computer.

### **Checking Your Dell Mobile Broadband Card**

Depending on what you selected when you purchased your computer, the computer has a variety of configurations. To determine your computer configuration, see one of the following:

- Your order confirmation
- Microsoft Windows Help and Support

To check your Mobile Broadband card in Windows Help and Support:

- 1 Click Start 😨 Help and Support— Use Tools to view your computer information and diagnose problems.
- 2 Under Tools, click My Computer Information—Find information about the hardware installed on this computer.

On the My Computer Information - Hardware screen, you can view the type of Mobile Broadband card installed in your computer as well as other hardware components.



**NOTE:** The Mobile Broadband card is listed under **Modems**.

Setting Up and Using Networks | 81

book.book Page 82 Wednesday, May 9, 2007 7:16 PM

### **Connecting to a Mobile Broadband Network**

NOTE: These instructions only apply to Mobile Broadband ExpressCards or Mini-Cards. They do not apply to internal cards with wireless technology.

**NOTE:** Before you connect to the Internet, you must activate Mobile Broadband service through your cellular service provider. For instructions and for additional information about using the Dell Mobile Broadband Card Utility, see the user's guide available through Windows Help and Support (click Start ), and then click Help and Support). The user's guide is also available on the Dell Support website at support.dell.com and on the media included with your Mobile Broadband card if you purchased the card separately from your computer.

Use the Dell Mobile Broadband Card Utility to establish and manage a Mobile Broadband network connection to the Internet:

- 1 Click the Dell Mobile Broadband Card Utility icon in the Windows notification area to run the utility.
- 2 Click Connect.

### **NOTE:** The Connect button changes to the Disconnect button.

**3** Follow the instructions on the screen to manage the network connection with the utility.

or

- 1 Click Start 😨 All Programs Dell Wireless.
- 2 Click Dell Wireless Broadband and follow the instructions on the screen.

### Enabling/Disabling the Dell Mobile Broadband Card

**NOTE:** If you are unable to connect to a Mobile Broadband network, ensure that you have all the components for establishing a Mobile Broadband connection (see "What You Need to Establish a Mobile Broadband Network Connection" on page 80), and then verify that your Mobile Broadband card is enabled by verifying the setting of the wireless switch.

You can turn your Mobile Broadband card on and off using the wireless switch on your computer.

You can turn your computer's wireless devices on and off with the wireless switch on the front side of the computer (see "Front View" on page 20).

82 | Setting Up and Using Networks

book.book Page 83 Wednesday, May 9, 2007 7:16 PM

If the switch is in the *on* position, move the switch to the *off* position to disable the switch and the Mobile Broadband card. If the switch is in the *off* position, move the switch to the *on* position to enable the switch and the Dell Mobile Broadband card. For information about the wireless switch positions.

To monitor the status of your wireless device, see "Monitoring the Status of the Wireless Network Card Through Dell QuickSet" on page 80.

## Dell Wi-Fi Catcher<sup>™</sup> Network Locator

The wireless switch on your Dell computer uses the Dell Wi-Fi Catcher Network Locator to scan specifically for wireless networks in your vicinity.

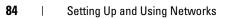
To scan for a wireless network, slide and hold the wireless switch in the momentary position for a few seconds. The Wi-Fi Catcher Network Locator functions regardless of whether your computer is turned on or off, or in Sleep state, as long as the switch is configured through Dell QuickSet or the BIOS (system setup program) to control WiFi network connections.

Because the Wi-Fi Catcher Network Locator is disabled and not configured for use when your computer is shipped to you, you must first use Dell QuickSet to enable and configure the switch to control WiFi network connections. For more information on the Wi-Fi Catcher Network Locator and to enable the feature through Dell QuickSet, right-click the QuickSet icon in the notification area, and then select **Help**. book.book Page 84 Wednesday, May 9, 2007 7:16 PM

۲

•

€



۲

book.book Page 85 Wednesday, May 9, 2007 7:16 PM

# **Securing Your Computer**

# **Security Cable Lock**

**NOTE:** Your computer does not ship with a security cable lock.

A security cable lock is a commercially available antitheft device. To use the lock, attach it to the security cable slot on your Dell computer. For more information, see the instructions included with the device.

NOTICE: Before you buy an antitheft device, ensure that it will work with the security cable slot on your computer.



## Passwords

Passwords prevent unauthorized access to your computer. When you first start your computer, you must assign a primary password at the prompt. If you do not enter a password within 2 minutes, the computer returns to its previous operating state.

When using passwords, observe the following guidelines:

- Choose a password that you can remember, but not one that is easy to guess. For example, do not use the names of family members or pets for passwords.
- It is recommended that you do not write down your password. If you do write it down, however, ensure that the password is stored in a secure location.

Securing Your Computer | 85

book.book Page 86 Wednesday, May 9, 2007 7:16 PM

- Do not share your password with other people.
- Ensure that people are not watching you when you type your password.

NOTICE: Passwords provide a high level of security for data in your computer or hard drive. However, they are not foolproof. If you require more security, obtain and use additional forms of protection such as data encryption programs.

Use the **User Accounts** option in the Control Panel in the Microsoft<sup>®</sup> Windows<sup>®</sup> operating system to create user accounts or to change passwords. Once you create a user password, you must enter it each time you turn on or unlock your computer. If you do not enter a password within 2 minutes, the computer returns to its previous operating state. For more information, see your Windows documentation.

If you forget any of your passwords, contact Dell (see "Contacting Dell" on page 152). For your protection, Dell technical support staff will ask you for proof of your identity to ensure that only an authorized person can use the computer.

# If Your Computer Is Lost or Stolen

- Call a law enforcement agency to report the lost or stolen computer. Include the Service Tag in your description of the computer. Ask that a case number be assigned and write down the number, along with the name, address, and phone number of the law enforcement agency. If possible, obtain the name of the investigating officer.
- **NOTE:** If you know where the computer was lost or stolen, call a law enforcement agency in that area. If you do not know, call a law enforcement agency where you live.
- If the computer belongs to a company, notify the security office of the company.
- Contact Dell customer service to report the missing computer. Provide the computer Service Tag, the case number, and the name, address, and phone number of the law enforcement agency to which you reported the missing computer. If possible, give the name of the investigating officer.

The Dell customer service representative will log your report under the computer Service Tag and record the computer as missing or stolen. If someone calls Dell for technical assistance and gives your Service Tag, the computer is identified automatically as missing or stolen. The representative will attempt to get the phone number and address of the caller. Dell will then contact the law enforcement agency to which you reported the missing computer.

86 | Securing Your Computer

book.book Page 87 Wednesday, May 9, 2007 7:16 PM



۲

•)

۲

book.book Page 87 Wednesday, May 9, 2007 7:16 PM

# Troubleshooting

## **Dell Technical Update Service**

The Dell Technical Update service provides proactive e-mail notification of software and hardware updates for your computer. The service is free and can be customized for content, format, and how frequently you receive notifications.

To enroll for the Dell Technical Update service, go to **support.dell.com/technicalupdate**.

## **Dell Diagnostics**

CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

#### When to Use the Dell Diagnostics

If you experience a problem with your computer, perform the checks in "Lockups and Software Problems" on page 103 and run the Dell Diagnostics before you contact Dell for technical assistance.

It is recommended that you print these procedures before you begin.

**NOTE:** The Dell Diagnostics only operate on Dell computers.

Enter system setup, review your computer's configuration information, and ensure that the device you want to test displays in system setup and is active (see "Using the System Setup Program" on page 161).

Start the Dell Diagnostics from your hard drive or from your *Drivers and Utilities* media (see "Drivers and Utilities Media" on page 13).

#### **Starting the Dell Diagnostics From Your Hard Drive**

The Dell Diagnostics is located on a hidden diagnostic utility partition on your hard drive.



**NOTE:** If your computer cannot display a screen image, contact Dell (see "Contacting Dell" on page 152).

- **1** Ensure that the computer is connected to an electrical outlet that is known to be working properly.
- **2** Turn on (or restart) your computer.
- **3** Start the Dell Diagnostics in one of the following two ways:
  - a When the DELL<sup>™</sup> logo appears, press <F12> immediately. Select Diagnostics from the boot menu, and then press <Enter>.
  - **NOTE:** If you wait too long and the operating system logo appears, continue to wait until you see the Microsoft<sup>®</sup> Windows<sup>®</sup> desktop, then shut down your computer and try again.
  - **NOTE:** Before attempting option B, the computer must be powered down completely.
  - **b** Press and hold the <Fn> key while powering the computer on.
  - **NOTE:** If you see a message stating that no diagnostics utility partition has been found, run the Dell Diagnostics from your *Drivers and Utilities* media.

The computer runs the Pre-boot System Assessment, a series of initial tests of your system board, keyboard, hard drive, and display.

- During the assessment, answer any questions that appear.
- If a failure is detected, the computer stops and beeps. To stop the assessment and restart the computer, press <n>; to continue to the next test, press <y>; to retest the component that failed, press <r>.
- If failures are detected during the Pre-boot System Assessment, write down the error code(s) and contact Dell.

If the Pre-boot System Assessment completes successfully, you receive the message Booting Dell Diagnostic Utility Partition. Press any key to continue.

**4** Press any key to start the Dell Diagnostics from the diagnostics utility partition on your hard drive.

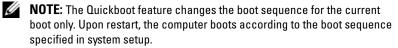
#### Starting the Dell Diagnostics From the Drivers and Utilities Media

- 1 Insert your Drivers and Utilities media.
- **2** Shut down and restart the computer.
- **3** When the DELL logo appears, press <F12> immediately.

book.book Page 89 Wednesday, May 9, 2007 7:16 PM

**NOTE:** Keyboard failure may result when a key on the keyboard is held down for extended periods of time. To avoid possible keyboard failure, press and release <F12> in even intervals until the boot device menu appears.

4 At the boot device menu, use the up- and down-arrow keys to highlight CD/DVD/CD-RW, and then press <Enter>.



- **5** Select the **Boot from CD-ROM** option from the menu that appears, and then press <Enter>.
- 6 Type 1 to start the *Drivers and Utilities* menu, and then press <Enter>.
- 7 Select Run the 32 Bit Dell Diagnostics from the numbered list. If multiple versions are listed, select the version appropriate for your computer.
- 8 At the Dell Diagnostics Main Menu, select the test you want to run.
  - **NOTE:** Write down any error codes and problem descriptions exactly as they appear and follow the instructions on the screen.
- **9** After all tests have completed, close the test window to return to the Dell Diagnostics Main Menu.
- **10** Remove your *Drivers and Utilities* media, then close the **Main Menu** window to exit the Dell Diagnostics and restart the computer.

#### **Dell Diagnostics Main Menu**

After the Dell Diagnostics loads and the Main Menu screen appears, click the button for the option you want.

**NOTE:** It is recommended that you select Test System to run a complete test on your computer.

Option	Function
Test Memory	Run the stand-alone memory test
Test System	Run System Diagnostics
Exit	Exit the Diagnostics

book.book Page 90 Wednesday, May 9, 2007 7:16 PM

After you have selected the Test System option from the main menu, the following menu appears.

**NOTE:** It is recommended that you select Extended Test from the menu below to run a more thorough check of the devices in the computer.

Option	Function
Express Test	Performs a quick test of system devices. The test typically takes 10 to 20 minutes and requires no interaction on your part. Run Express Test first to increase the possibility of tracing the problem quickly.
Extended Test	Performs a thorough check of system devices. The test typically takes an hour or more and periodically requires your input to answer specific questions.
Custom Test	Tests a specific device in the system and can be used to customize the tests you want to run.
Symptom Tree	Lists a number of common symptoms and allows you to select a test based on the symptom of the problem you are having.

For any problem encountered during a test, a message appears with an error code and a description of the problem. Write down the error code and problem description exactly as it appears and follow the instructions on the screen. If you cannot resolve the problem, contact Dell (see "Contacting Dell" on page 152).

U **NOTE:** The Service Tag for your computer is located at the top of each test screen. When contacting Dell support, have your Service Tag ready.

The following tabs provide additional information for tests run from the Custom Test or Symptom Tree option:

book.book Page 91 Wednesday, May 9, 2007 7:16 PM

 $(\mathbf{\Phi})$ 

Tab	Function
Results	Displays the results of the test and any error conditions encountered.
Errors	Displays error conditions encountered, error codes, and the problem description.
Help	Describes the test and any requirements for running the test.
Configuration	Displays your hardware configuration for the selected device.
	The Dell Diagnostics obtains configuration information for all devices from system setup, memory, and various internal tests, and it displays the information in the device list in the left pane of the screen. The device list may not display the names of all the components installed on your computer or all devices attached to your computer.
Parameters	Allows you to customize the test by changing the test settings.

## **Dell Support Utility**

The Dell Support Utility is customized for your computing environment. This utility provides self-support information, software updates, and health scans for your computer. Use this utility to do the following:

- Check your computing environment
- View the Dell Support Utility settings
- Access the help file for the Dell Support Utility
- View frequently asked questions
- Learn more about the Dell Support Utility
- Turn the Dell Support Utility off

book.book Page 92 Wednesday, May 9, 2007 7:16 PM

For more information about the Dell Support Utility, click the question mark (?) at the top of the Dell Support window.

To access the Dell Support Utility:

Click the Dell Support icon <u>Solution</u> in the notification area.

**NOTE:** The **icon** functions vary when clicking, double-clicking, or right-clicking.

Or

Click the Start 🚱 —All Programs —Dell Support —Dell Support Settings. Ensure that the Show icon on the taskbar option is checked.

**NOTE:** If the Dell Support Utility is not available from the **Start** menu, go to **support.dell.com** and download the software.

### **Drive Problems**

CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Fill out the "Diagnostics Checklist" on page 151 as you complete these checks.

#### ENSURE THAT MICROSOFT<sup>®</sup> WINDOWS<sup>®</sup> RECOGNIZES THE DRIVE —

If the drive is not listed, perform a full scan with your antivirus software to check for and remove viruses. Viruses can sometimes prevent Windows from recognizing the drive.

#### TEST THE DRIVE

- Insert another floppy disk, CD, or DVD to eliminate the possibility that the original media is defective.
- Insert a bootable floppy disk and restart the computer.

**CLEAN THE DRIVE OR DISK** — See "Cleaning Your Computer" on page 164.

### ENSURE THAT THE CD OR DVD MEDIA IS SNAPPED ONTO THE SPINDLE

#### CHECK THE CABLE CONNECTIONS

**CHECK FOR HARDWARE INCOMPATIBILITIES** — See "Troubleshooting Software and Hardware Problems" on page 118.

**RUN THE DELL DIAGNOSTICS** — See "Dell Diagnostics" on page 87.

#### **Optical drive problems**

**NOTE:** High-speed optical drive vibration is normal and may cause noise, which does not indicate a defect in the drive or the media.



**NOTE:** Because of different regions worldwide and different disc formats, not all DVD titles work in all DVD drives.

#### Problems writing to a CD-RW or DVD+/-RW drive

**CLOSE OTHER PROGRAMS** — CD-RW and DVD+/-RW drives must receive a steady stream of data when writing. If the stream is interrupted, an error occurs. Try closing all programs before you write to the drive.

#### TURN OFF SLEEP STATE IN WINDOWS BEFORE WRITING TO A CD/DVD DISC -

See "Using the Sleep Power State" on page 43 for information on Sleep state.

**CHANGE THE WRITE SPEED TO A SLOWER RATE** — See the help files for your CD or DVD creation software.

#### The drive tray cannot eject

- **1** Ensure that the computer is shut down.
- **2** Straighten a paper clip and insert one end into the eject hole at the front of the drive, then push firmly until the tray is partially ejected.
- **3** Gently pull out the tray until it stops.

#### The drive makes an unfamiliar scraping or grinding sound

- Ensure that the sound is not caused by the program that is running.
- Ensure that the disc is inserted properly.



book.book Page 94 Wednesday, May 9, 2007 7:16 PM

#### Hard drive problems

**ALLOW THE COMPUTER TO COOL BEFORE TURNING IT ON** — A hot hard drive may prevent the operating system from starting. Try allowing the computer to return to room temperature before turning it on.

#### RUN CHECK DISK —

- 1 Click Start 🚳 Computer.
- 2 Right-click Local Disk (C:).
- 3 Click Properties→Tools→Check Now.

**NOTE:** The User Account Control window may appear. If you are an administrator on the computer, click Continue; otherwise, contact your administrator to continue the desired action.

4 Click to check Scan for and attempt recovery of bad sectors, and then click Start.

### **E-Mail and Internet Problems**

CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

**NOTE:** Connect the modem to an analog telephone jack only. The modem does not operate while it is connected to a digital telephone network.

**CHECK THE MICROSOFT OUTLOOK® EXPRESS SECURITY SETTINGS** — If you cannot open your e-mail attachments:

- 1 In Outlook Express, click Tools, click Options, and then click Security.
- 2 Click Do not allow attachments to remove the checkmark.

CHECK THE TELEPHONE LINE CONNECTION CHECK THE TELEPHONE JACK Connect the modem directly to the telephone wall jack

#### **USE A DIFFERENT TELEPHONE LINE**

- Verify that the telephone line is connected to the jack on the modem (the jack has either a green label or a connector-shaped icon next to it).
- Ensure that you hear a click when you insert the telephone line connector into the modem.

book.book Page 95 Wednesday, May 9, 2007 7:16 PM

- Disconnect the telephone line from the modem and connect it to a telephone, then listen for a dial tone.
- If you have other telephone devices sharing the line, such as an answering machine, fax machine, surge protector, or line splitter, then bypass them and connect the modem directly to the telephone wall jack. If you are using a line that is 3 m (10 ft) or more in length, try a shorter one.

**ENSURE THAT YOU ARE CONNECTED TO THE INTERNET** — Ensure that you have subscribed to an Internet service provider. With the Outlook Express e-mail program open, click **File**. If **Work Offline** has a checkmark next to it, click the checkmark to remove it, and then connect to the Internet. For help, contact your Internet service provider.

**SCAN THE COMPUTER FOR SPYWARE** — If you are experiencing slow computer performance, you frequently receive pop-up advertisements, or you are having problems connecting to the Internet, your computer might be infected with spyware. Use an anti-virus program that includes anti-spyware protection (your program may require an upgrade) to scan the computer and remove spyware. For more information, go to **support.dell.com** and search for the keyword *spyware*.



## **Error Messages**

Fill out the "Diagnostics Checklist" on page 151 as you complete these checks.

## **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

If the message is not listed, see the documentation for the operating system or the program that was running when the message appeared.

**AUXILIARY DEVICE FAILURE** — The touch pad or external mouse may be faulty. For an external mouse, check the cable connection. Enable the **Pointing Device** option in the system setup program (see "Using the System Setup Program" on page 161). If the problem persists, contact Dell (see "Contacting Dell" on page 152).

**BAD COMMAND OR FILE NAME** — Ensure that you have spelled the command correctly, put spaces in the proper place, and used the correct pathname.

**CACHE DISABLED DUE TO FAILURE** — The primary cache internal to the microprocessor has failed. Contact Dell (see "Contacting Dell" on page 152).

**CD DRIVE CONTROLLER FAILURE** — The CD drive does not respond to commands from the computer (see "Drive Problems" on page 92).

**DATA ERROR** — The hard drive cannot read the data (see "Drive Problems" on page 92).

**DECREASING AVAILABLE MEMORY** — One or more memory modules may be faulty or improperly seated. Reinstall the memory modules and, if necessary, replace them (see "Memory" on page 128).

**DISK C:** FAILED INITIALIZATION — The hard drive failed initialization. Run the hard drive tests in the Dell Diagnostics (see "Dell Diagnostics" on page 87).

**DRIVE NOT READY** — The operation requires a hard drive in the bay before it can continue. Install a hard drive in the hard drive bay (see "Hard Drive" on page 125).

**ERROR READING PCMCIA CARD** — The computer cannot identify the ExpressCard. Reinsert the card or try another card (see "ExpressCards" on page 69).

**EXTENDED MEMORY SIZE HAS CHANGED** — The amount of memory recorded in NVRAM does not match the memory installed in the computer. Restart the computer. If the error appears again, contact Dell (see "Contacting Dell" on page 152).

book.book Page 97 Wednesday, May 9, 2007 7:16 PM

**THE FILE BEING COPIED IS TOO LARGE FOR THE DESTINATION DRIVE** — The file that you are trying to copy is too large to fit on the disk, or the disk is full. Try copying the file to a different disk or use a larger capacity disk.

**GATE A20 FAILURE** — A memory module may be loose. Reinstall the memory modules and, if necessary, replace them (see "Memory" on page 128).

**GENERAL FAILURE** — The operating system is unable to carry out the command. The message is usually followed by specific information—for example, Printer out of paper. Take the appropriate action.

**HARD-DISK DRIVE CONFIGURATION ERROR** — The computer cannot identify the drive type. Shut down the computer, remove the hard drive (see "Hard Drive" on page 125), and boot the computer from a CD. Then, shut down the computer, reinstall the hard drive, and restart the computer. Run the Hard Disk Drive tests in the Dell Diagnostics (see "Dell Diagnostics" on page 87).

**HARD-DISK DRIVE CONTROLLER FAILURE 0** — The hard drive does not respond to commands from the computer. Shut down the computer, remove the hard drive (see "Hard Drive" on page 125), and boot the computer from a CD. Then, shut down the computer, reinstall the hard drive, and restart the computer. If the problem persists, try another drive. Run the Hard Disk Drive tests in the Dell Diagnostics (see "Dell Diagnostics" on page 87).

**HARD-DISK DRIVE FAILURE** — The hard drive does not respond to commands from the computer. Shut down the computer, remove the hard drive (see "Hard Drive" on page 125), and boot the computer from a CD. Then, shut down the computer, reinstall the hard drive, and restart the computer. If the problem persists, try another drive. Run the Hard Disk Drive tests in the Dell Diagnostics (see "Dell Diagnostics" on page 87).

**HARD-DISK DRIVE READ FAILURE** — The hard drive may be defective. Shut down the computer, remove the hard drive (see "Hard Drive" on page 125), and boot the computer from a CD. Then, shut down the computer, reinstall the hard drive, and restart the computer. If the problem persists, try another drive. Run the Hard Disk Drive tests in the Dell Diagnostics (see "Dell Diagnostics" on page 87).

**INSERT BOOTABLE MEDIA** — The operating system is trying to boot to nonbootable media, such as a floppy disk or CD. Insert bootable media.

INVALID CONFIGURATION INFORMATION-PLEASE RUN SYSTEM SETUP

book.book Page 98 Wednesday, May 9, 2007 7:16 PM

**PROGRAM** — The system configuration information does not match the hardware configuration. The message is most likely to occur after a memory module is installed. Correct the appropriate options in the system setup program (see "Using the System Setup Program" on page 161).

**KEYBOARD CLOCK LINE FAILURE** — For external keyboards, check the cable connection. Run the Keyboard Controller test in the Dell Diagnostics (see "Dell Diagnostics" on page 87).

**KEYBOARD CONTROLLER FAILURE** — For external keyboards, check the cable connection. Restart the computer, and avoid touching the keyboard or the mouse during the boot routine. Run the Keyboard Controller test in the Dell Diagnostics (see "Dell Diagnostics" on page 87).

**KEYBOARD DATA LINE FAILURE** — For external keyboards, check the cable connection. Run the Keyboard Controller test in the Dell Diagnostics (see "Dell Diagnostics" on page 87).

**KEYBOARD STUCK KEY FAILURE** — For external keyboards or keypads, check the cable connection. Restart the computer, and avoid touching the keyboard or keys during the boot routine. Run the Stuck Key test in the Dell Diagnostics (see "Dell Diagnostics" on page 87).

**LICENSED CONTENT IS NOT ACCESSIBLE IN MEDIADIRECT** — Dell MediaDirect<sup>™</sup> cannot verify the Digital Rights Management (DRM) restrictions on the file, so the file cannot be played (see "Dell MediaDirect problems" on page 104).

MEMORY ADDRESS LINE FAILURE AT ADDRESS, READ VALUE EXPECTING VALUE —

A memory module may be faulty or improperly seated. Reinstall the memory modules and, if necessary, replace them (see "Memory" on page 128).

**MEMORY ALLOCATION ERROR** — The software you are attempting to run is conflicting with the operating system, another program, or a utility. Shut down the computer, wait 30 seconds, and then restart it. Try to run the program again. If the error message still appears, see the software documentation.

**MEMORY DATA LINE FAILURE AT ADDRESS, READ VALUE EXPECTING VALUE** — A memory module may be faulty or improperly seated. Reinstall the memory modules and, if necessary, replace them (see "Memory" on page 128).

**MEMORY DOUBLE WORD LOGIC FAILURE AT ADDRESS, READ VALUE EXPECTING VALUE** — A memory module may be faulty or improperly seated. Reinstall the memory modules and, if necessary, replace them (see "Memory" on page 128).

MEMORY ODD/EVEN LOGIC FAILURE AT ADDRESS, READ VALUE EXPECTING

book.book Page 99 Wednesday, May 9, 2007 7:16 PM

**VALUE** — A memory module may be faulty or improperly seated. Reinstall the memory modules and, if necessary, replace them (see "Memory" on page 128).

**MEMORY WRITE/READ FAILURE AT ADDRESS, READ VALUE EXPECTING VALUE** — A memory module may be faulty or improperly seated. Reinstall the memory modules and, if necessary, replace them (see "Memory" on page 128).

**NO BOOT DEVICE AVAILABLE** — The computer cannot find the hard drive. If the hard drive is your boot device, ensure that the drive is installed, properly seated, and partitioned as a boot device.

**NO BOOT SECTOR ON HARD DRIVE** — The operating system may be corrupted. Contact Dell (see "Contacting Dell" on page 152).

**NO TIMER TICK INTERRUPT** — A chip on the system board may be malfunctioning. Run the System Set tests in the Dell Diagnostics (see "Dell Diagnostics" on page 87).

NOT ENOUGH MEMORY OR RESOURCES. EXIT SOME PROGRAMS AND TRY AGAIN -

You have too many programs open. Close all windows and open the program that you want to use.

**OPERATING SYSTEM NOT FOUND** — Reinstall the hard drive (see "Hard Drive" on page 125). If the problem persists, contact Dell (see "Contacting Dell" on page 152).

**OPTIONAL ROM BAD CHECKSUM** — The optional ROM has failed. Contact Dell (see "Contacting Dell" on page 152).

**A REQUIRED .DLL FILE WAS NOT FOUND** — The program that you are trying to open is missing an essential file. Remove and then reinstall the program.

- 1 Click Start 🚳 Control Panel.
- 2 Under Programs, click Uninstall a Program.
- **3** Select the program you want to remove.
- 4 Click Uninstall and follow the prompts on the screen.
- **5** See the program documentation for installation instructions.