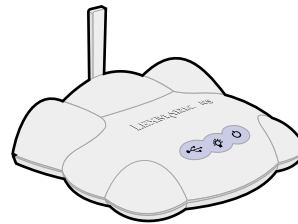




*Getting Started*



**N5 Wireless  
Adapter**

**Edition: August 2002**

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#### **Federal Communications Commission (FCC) compliance information statement**

The Lexmark N5 Wireless Adapter has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The FCC Class B limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by unplugging the equipment and then plugging it back in, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your point of purchase or service representative for additional suggestions.

A minimum separation of 20 cm ( 8 inches ) must be maintained between the antenna and any persons for this device to satisfy the RF exposure requirements of the FCC.

The manufacturer is not responsible for any radio or television interference caused by using other than recommended cables or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate this equipment.

**Note:** To assure compliance with FCC regulations for a Class B computing device, use a properly shielded and grounded cable such as Lexmark part number 12A2405 for USB attach. Use of a substitute cable not properly shielded and grounded may result in a violation of FCC regulations.

Any questions regarding this compliance information statement should be directed to Director of Lexmark Technology and Services, Lexmark International, Inc., 740 West New Circle Road, Lexington, KY 40550, (859) 232-3000.

#### **Industry Canada compliance statement**

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

This device complies with Industry Canada specification RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF fields in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's Web site [www.hc-sc.gc.ca/rpb](http://www.hc-sc.gc.ca/rpb).

#### **Avis de conformité aux normes d'Industrie Canada**

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

This device complies with Industry Canada specification RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF fields in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's Web site [www.hc-sc.gc.ca/rpb](http://www.hc-sc.gc.ca/rpb).

#### **European Community (EC) directives conformity**

This product is in conformity with the protection requirements of EC Council directives 89/336/EEC, 73/23/EEC, and 1999/5/EC on the approximation and harmonization of the laws of the Member States relating to electromagnetic compatibility and safety of electrical equipment designed for use within certain voltage limits and on radio equipment and telecommunications terminal equipment.

A declaration of conformity with the requirements of the directives has been signed by the Director of Manufacturing and Technical Support, Lexmark International, S.A., Boigny, France.

This product satisfies the Class B limits of EN 55022 and safety requirements of EN 60950.

**The United Kingdom Telecommunications Act 1984**

This apparatus is approved under the approval number NS/G/1234/J/100003 for the indirect connections to the public telecommunications systems in the United Kingdom.

**Safety information**

- Use only the Lexmark power supply provided with this product or an authorized Lexmark replacement power supply.
- Connect the power cord to an electrical outlet that is near the product and easily accessible.
- Refer service or repairs, other than those described in the manual, to a professional service person.

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# Introduction

Thank you for purchasing the Lexmark™ N5 Wireless Adapter!

The adapter makes it easy for you to:

- Share your printer between two or more network computers.
- Locate your printer anywhere in your home or office.

You no longer need to locate the printer next to a host computer or make sure a host computer is powered on before sending your print job from a remote location.

- Quickly transfer information.

Your new adapter has the capability to transfer information at up to 11Mbps.

# Setup

For setup, you need:

- The Lexmark N5 Wireless Adapter
- An existing 802.11b Wireless Ethernet network
- A network-capable Lexmark printer

To find out if your printer is network-capable or for other printer-specific information, refer to the documentation that came with your printer or visit our Web site at [www.lexmark.com](http://www.lexmark.com).

- The Lexmark Printer Adapter software CD
- The printer software CD that came with your printer
- A computer with a CD-ROM drive

The computer must be connected to the network, have TCP/IP active and running, and have one of the following operating systems:

- Windows 98
- Windows Me
- Windows 2000
- Windows XP



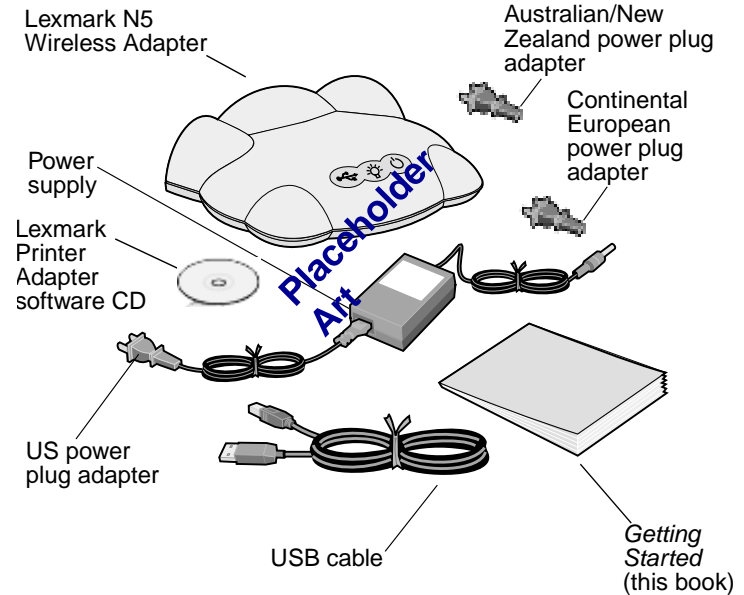
## Step 1: Select a location for your adapter

Choosing the correct location for your new adapter is vital to ensuring that it provides you with the quality of service you expect.

Make sure the location is:

- Firm, level, and stable
- Within the appropriate range for your access point if your network has an infrastructure configuration
- Large enough to accommodate a printer attached to the adapter
- Away from the direct airflow of air conditioners, heaters, or ventilators
- Free of temperature or humidity extremes and fluctuations
- Clean, dry, and free of dust
- Away from direct sunlight

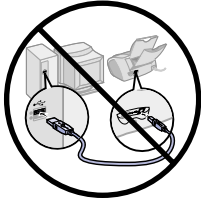
## Step 2: Unpack your adapter



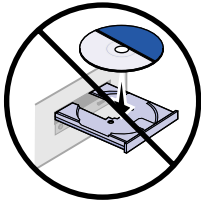
If any items are missing or you need a different power plug adapter for your geography, contact Lexmark (see page 31).

## Step 3: Prepare your printer

- 1 Unpack and set up your printer. For help, refer to the instructions that came with your printer.
- 2 To help configure your printer on the network:
  - Do *not* connect your printer to your computer; however, if you have already done so, disconnect the USB or parallel cable.



- Do *not* install the printer software; however, if you have already done so, you do *not* need to uninstall it.



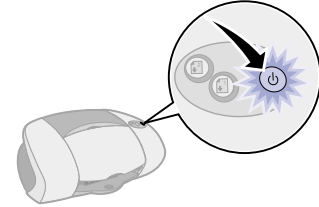
3

Place the printer next to your adapter.

**Note:** If necessary, disconnect the printer power supply, and then reconnect it at its new location.

4

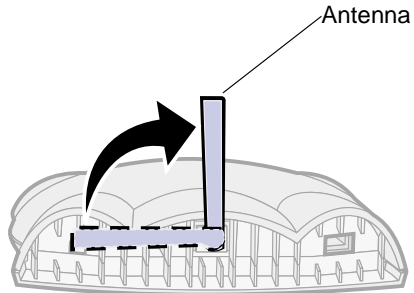
Make sure the printer power light is on.



**Note:** Your printer may look different from the one shown.

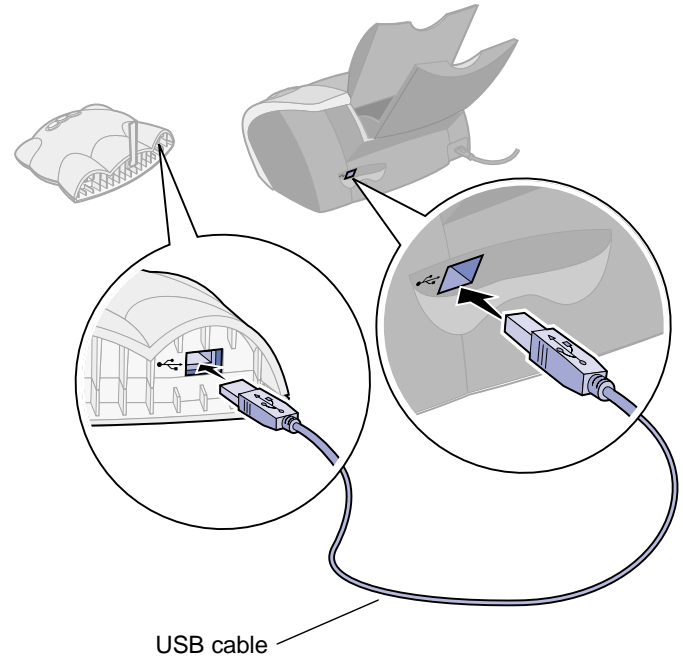


## Step 4: Raise the adapter antenna



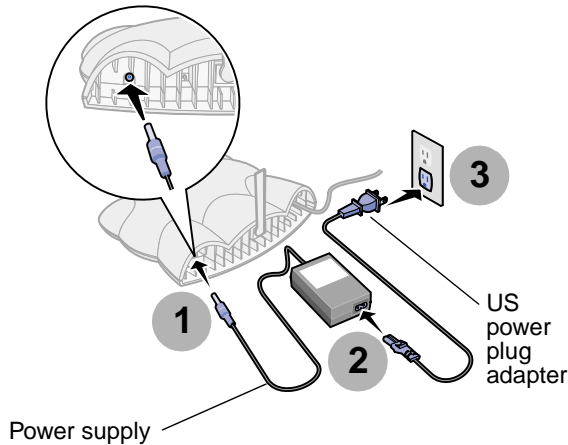
**Note:** Rotate the antenna clockwise from the back.

## Step 5: Connect your adapter to your printer



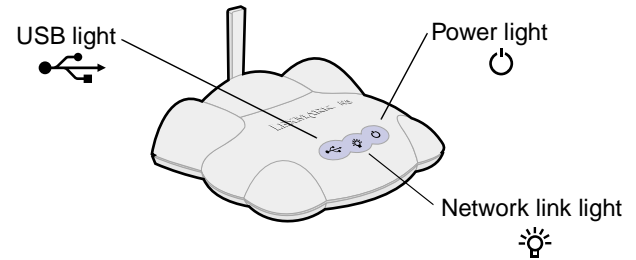
**Note:** Your printer may look different from the one shown.

## Step 6: Connect your adapter power supply



If necessary, replace the US power plug adapter with the correct power plug adapter for your geography.

## Step 7: Make sure all indicator lights are on



If, after 30 seconds, one or more of the indicator lights are not on or blinking, see page 22.

**Note:** The Network link light blinks to indicate any network activity in the area.

## Step 8: Turn on your computer



Windows 98  
Windows Me  
Windows 2000  
Windows XP

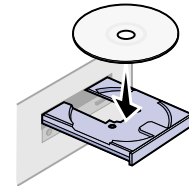


## Step 9: Set up your adapter on the network

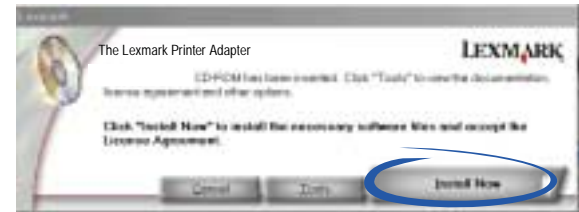
Your adapter must establish communication with either a remote host if your network has an ad hoc configuration or an access point if your network has an infrastructure configuration.

If you have any questions about the software screens and messages that appear during setup, see [Troubleshooting](#), beginning on page 21, or click Help on the software screen.

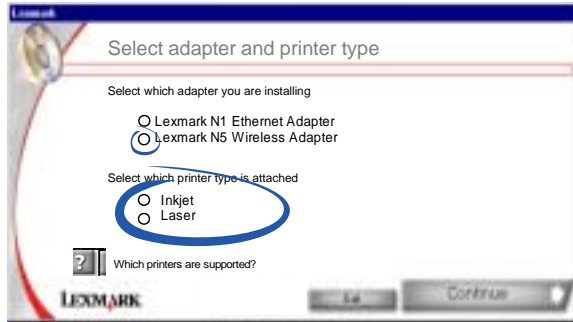
- 1 Insert the Lexmark Printer Adapter software CD as shown.



- 2 When the software installation screen appears, click **Install Now**.



- 3 Select **Lexmark N5 Wireless Adapter** and the type of printer you connected the adapter to in Step 5 on page 4.



- 4 Click **Continue**.



- 5 Follow the instructions on your screen to reset your adapter to the factory defaults.



**Note:** When the USB light goes out momentarily, the adapter has been properly reset to the factory defaults.

- 6 Click **Continue**.

- 7 Follow the instructions on your screen to change the values of your computer's wireless adapter network settings.



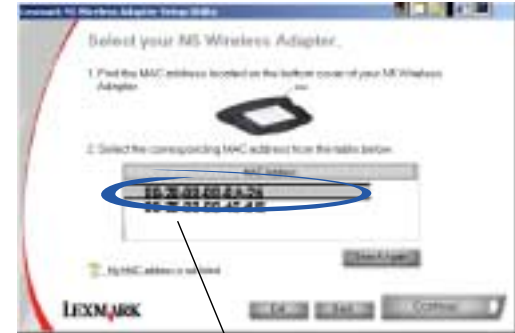
Do *not* exit the Lexmark Printer Adapter software. You need to have both utilities active at this time.

- 8 Use the space below to write down the current values of the network settings. You may need to refer to them later.

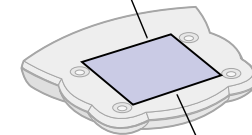
SSID/Network name \_\_\_\_\_  
 Mode \_\_\_\_\_  
 Channel \_\_\_\_\_  
 WEP/Authentication \_\_\_\_\_  
 Key \_\_\_\_\_

- 9 Return to the Lexmark Printer Adapter software *after* all settings have been changed and the configuration utility for your computer's wireless adapter has been closed.

- 10 If there is only one printer adapter on your network, continue with step 12 on page 9. If there are two or more printer adapters on your network, select your adapter from the list of available network devices.



Your adapter is the device whose MAC address matches the MAC address on the bottom cover of your adapter.

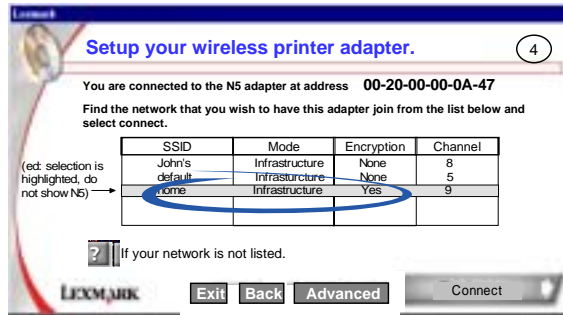


MAC address

11 Click **Continue**.

12 Select the network to which you want to connect your printer.

**Note:** If the network to which you want to connect your printer is the same network to which your computer was connected, you may want to refer to the values you wrote down in step 7 on page 8.



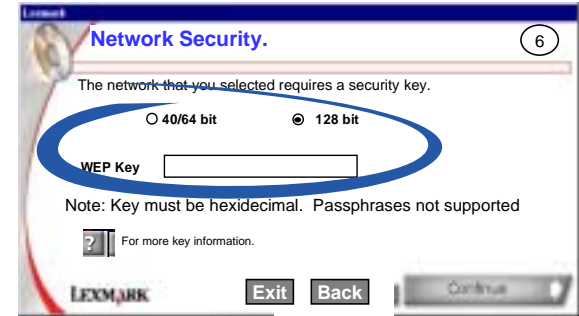
**Note:** If your network is not listed, click **Advanced** to manually select your network settings.

11 Click **Connect**.



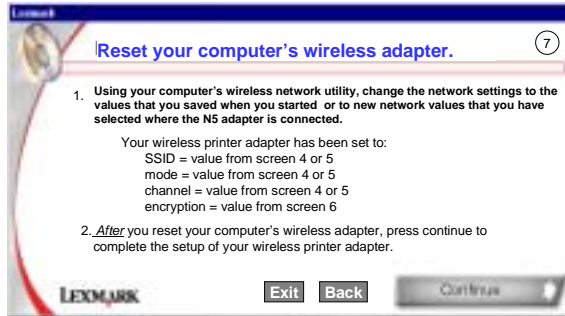
13 If you do not have WEP security enabled for your network, continue with step 15 on page 10.

If your network is secured, select the encryption bit and enter the WEP Key on the Network Security screen.



14 Click **Continue**.

- 15 Follow the instructions on your screen to restore the original network settings.



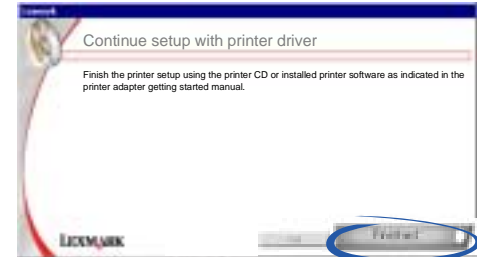
Do *not* exit the Lexmark Printer Adapter software. You need to have both utilities active at this time.

- 16 Return to the Lexmark Printer Adapter software *after* all settings have been restored and the configuration utility for your computer's wireless adapter has been closed.

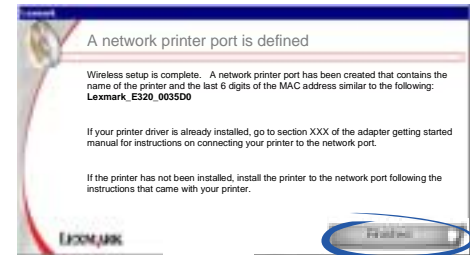
- 17 Click **Continue**.

- 18 You are finished setting up your adapter on the network.

- If you connected your adapter to an inkjet printer, click **Finished**, and then continue with **Configure your Lexmark inkjet printer** on page 11.



- If you connected your adapter to a laser printer, a network port for your laser printer is created. Click **Finished**, and then continue with **Configure your Lexmark laser printer** on page 16.



## Step 10: Configure your Lexmark inkjet printer

Use the printer software to help configure your network inkjet printer. If you have not already installed this software, locate the CD that came with your printer now.

Choose a procedure from the following table to install your printer software and configure your network printer.

If you have questions about the software screens and messages that appear during installation, see **Troubleshooting** beginning on page 21.

Procedure	Printer software previously installed?	Page
Inkjet 1	No	11
Inkjet 2	Yes	13

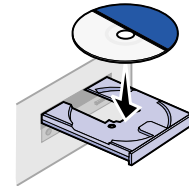
**Note:** Your screens may look different from the ones shown in this book.



## Inkjet 1 (software not previously installed)

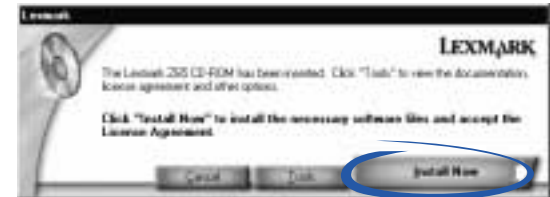
1

Insert the printer software CD as shown.



2

When the Lexmark printer software installation screen appears, click **Install Now**.





3

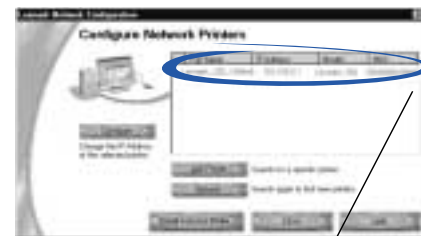
From the Results: No Printer Attached screen, click **Network**.



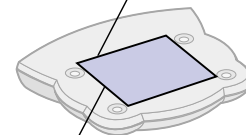
**Note:** If the Results: No Printer Attached screen does not appear, continue with step 6 on page 12.

4

From the Network Configuration screen, select your network printer from the list of available printers.



Your network printer is the one whose MAC address matches the MAC address on the bottom cover of your adapter.



MAC address

**Note:** If your network printer is <Unconfigured>, see **Manually configure the network printer** on page 28, and then continue with step 5.

5

Click **Install Selected Printer**.

6

Follow the instructions on your screen to complete software installation.

You are finished setting up your computer to work with your network inkjet printer; however, the printer software must be installed on *each* computer that uses the network printer.

To set up other computers on your network, continue with the following instructions:

**1** Insert the printer software CD.

**2** When the Lexmark printer software installation screen appears, click **Install** or **Install Now**.

If the printer software was previously installed on this computer, you are prompted to update the existing driver or install another copy of the driver. Select **Install another copy of the driver** only if you plan to print to multiple printers of the same model. For example, you might have a Lexmark Z65 locally attached and another Lexmark Z65 on your network. If you choose to Install another copy of the driver, make sure you change your printer selection whenever you want to print to the network printer.

**3** Continue with step 3 on page 12.

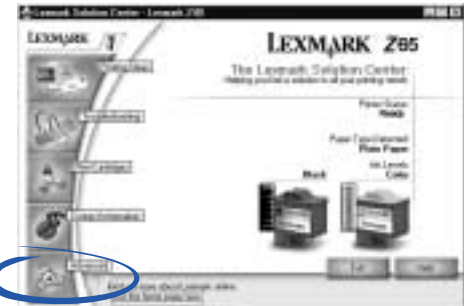
## Inkjet 2 (software previously installed)

**1** From your desktop, double-click the **Lexmark Solution Center** icon.

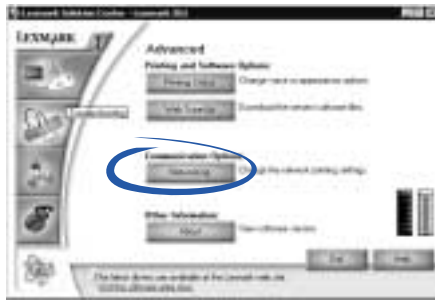


**Note:** If the icon is not on your desktop, click Start ▶ Programs or All Programs ▶ *the name of your Lexmark printer* ▶ Lexmark Solution Center.

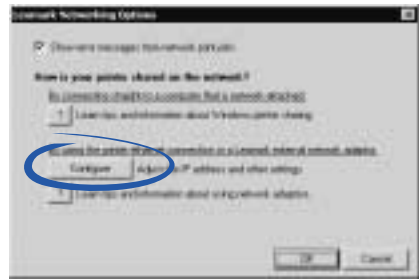
**2** From the Lexmark Solution Center screen, click the Advanced tab.



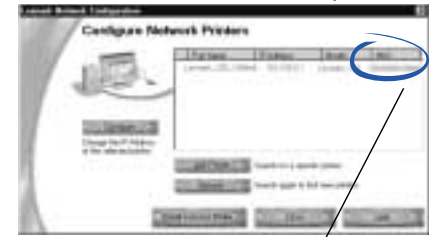
3 From the Advanced window, click **Networking**.



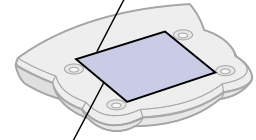
4 From the Networking Options screen, click **Configure**.



5 On the Network Configuration screen, find your network printer in the list of available printers.

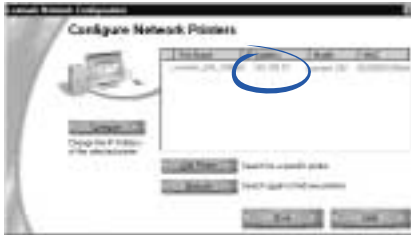


Your network printer is the one whose MAC address matches the MAC address on the bottom cover of your adapter.



MAC address

- 6** Verify that an IP address is listed for your network printer.



**Note:** If there is not an IP address listed or your network printer is <Unconfigured>, see **Manually configure the network printer** on page 28, and then continue with step 7.

- 7** Click **Close**.

From the Networking Options screen, click **8 Cancel**.

- 9** Exit the Lexmark Solution Center.

- 10** Select the network printer port.

### **Windows 98/Me/2000**

- a** From the Start menu, click Settings ▶ Printers.
- b** Right-click the icon for your network printer.

- c** Make sure Set as Default is selected and Use Printer Offline is *not* selected, and then click **Properties**.
- d** Click the Details or Port tab.
- e** From the Print to the following port: menu, select the printer port that consists of the printer name followed by the last six characters of the adapter MAC address (for example, Lexmark\_Z65\_1008e8).
- f** Click **OK**.

### **Windows XP**

- a** From the Start menu, click Control Panel ▶ Printers and Other Hardware ▶ Printers and Faxes.
- b** Click the Ports tab.
- c** From the list of ports, select the one that consists of the printer name followed by the last six characters of the adapter MAC address (for example, Lexmark\_Z65\_1008e8).
- d** Click **Apply**.
- e** Click **OK**.

You are finished setting up your computer to work with your network inkjet printer; however, the printer software must be installed on *each* computer that uses the network printer.

To set up other computers on your network, continue with the following instructions:

**1** Insert the printer software CD.

**2** When the Lexmark printer software installation screen appears, click **Install** or **Install Now**.

If the printer software was previously installed on this computer, you are prompted to update the existing driver or install another copy of the driver. Select **Install another copy of the driver** only if you plan to print to multiple printers of the same model. For example, you might have a Lexmark Z65 locally attached and another Lexmark Z65 on your network. If you choose to Install another copy of the driver, make sure you change your printer selection whenever you want to print to the network printer.

**3** Continue with step 3 on page 12.

## Step 10: Configure your Lexmark laser printer

Use the printer software to help configure your network laser printer. If you have not already installed this software, locate the CD that came with your printer now.

Choose a procedure from the following table to install your printer software and configure your network printer.

Procedure	Printer software previously installed?	Page
Laser 1	No	17
Laser 2	Yes	19

## Laser 1 (software not previously installed)

Follow the instructions for your operating system.

### Windows 98/Me

- 1 Launch the drivers CD that shipped with your printer.
- 2 Click **Printer Software**.
- 3 Click **Agree** on the License Agreement.
- 4 Select your network printer from the list and LPT1 from the pull-down menu.
- 5 Click **Finish**.
- 6 When installation completes, click **OK**.
- 7 Restart the computer.
- 8 From the Start menu, click Settings ► Printers.
- 9 Right-click the icon for your network printer.
- 10 Make sure Set as Default is selected and Use Printer Offline is *not* selected, and then click **Properties**.
- 11 From the Details tab, select the printer port that consists of the printer name followed by the last six characters of the adapter MAC address (for example, Lexmark\_Z65\_1008e8).

**Note:** If there is not a printer port that corresponds to the adapter MAC address, see **Manually configure the network printer** on page 28.

12 Click **Apply**.

13 Click **Spool Settings**.

14 Make sure the selection for bi-directional support is *not* selected.

15 Click **OK**.

You are finished setting up your computer to work with your network laser printer; however, the printer software must be installed on *each* computer that uses the network printer.

To set up other computers on your network, repeat step 1 through step 15 on each computer.

**Note:** If the printer software was previously installed on the computer, you are prompted to update the existing driver or install another copy of the driver. Select **Install another copy of the driver** only if you plan to print to multiple printers of the same model. For example, you might have a Lexmark Z65 locally attached and another Lexmark Z65 on your network. If you choose to Install another copy of the driver, make sure you change your printer selection whenever you want to print to the network printer.


## Windows 2000/XP

- 1 Launch the drivers CD that shipped with your printer.
- 2 Click **Printer Software**.
- 3 Click **Agree** on the License Agreement.
- 4 Select your network printer from the list and LPT1 from the pull-down menu.
- 5 Click **Finish**.
- 6 When installation completes, click **OK**.
- 7 Restart the computer.
- 8 From the Start menu, click Settings ► Printers.
- 9 Right-click the icon for your network printer.
- 10 Make sure Set as Default is selected and Use Printer Offline is *not* selected, and then click **Properties**.
- 11 From the Ports tab, select the printer port that consists of the printer name followed by the last six characters of the adapter MAC address (for example, Lexmark\_Z65\_1008e8).

**Note:** If there is not a printer port that corresponds to the adapter MAC address, see **Manually configure the network printer** on page 28.

- 12 Make sure the selection for bi-directional support is *not* selected.
- 13 Click **OK**.

You are finished setting up your computer to work with your network laser printer; however, the printer software must be installed on *each* computer that uses the network printer.

To set up  printer computers on your network, repeat step 1 through step 13 for each computer.

**Note:** If the printer software was previously installed on the computer, you are prompted to update the existing driver or install another copy of the driver. Select **Install another copy of the driver** only if you plan to print to multiple printers of the same model. For example, you might have a Lexmark Z65 locally attached and another Lexmark Z65 on your network. If you choose to Install another copy of the driver, make sure you change your printer selection whenever you want to print to the network printer.


## Laser 2 (software previously installed)

Follow the instructions for your operating system.



### Windows 98/Me

- 1 From the Start menu, click Settings ▶ Printers.
- 2 Right-click the icon for your network printer.
- 3 Make sure Set as Default is selected and Use Printer Offline is *not* selected, and then click **Properties**.
- 4 From the Details tab, select the printer port that consists of the printer name followed by the last six characters of the adapter MAC address (for example, Lexmark\_Z65\_1008e8).

**Note:** If there is not a printer port that corresponds to the adapter MAC address, see **Manually configure the network printer** on page 28.

- 5 Click **Apply**.
- 6 Click **Spool Settings**.
- 7 Make sure the selection for bi-directional support is *not* selected. 
- 8 Click **OK**.

You are finished setting up your computer to work with your network laser printer; however, the printer software must be installed on *each* computer that uses the network printer.

To set up other  computers on your network, repeat step 1 through step 15  page 17 for each computer.

**Note:** If the printer software was previously installed on the computer, you are prompted to update the existing driver or install another copy of the driver. Select **Install another copy of the driver** only if you plan to print to multiple printers of the same model. For example, you might have a Lexmark Z65 locally attached and another Lexmark Z65 on your network. If you choose to Install another copy of the driver, make sure you change your printer selection whenever you want to print to the network printer.




## Windows 2000/XP

- 1 From the Start menu, click Settings ▶ Printers.
- 2 Right-click the icon for your network printer.
- 3 Make sure Set as Default is selected and Use Printer Offline is *not* selected, and then click **Properties**.
- 4 From the Ports tab, select the printer port that consists of the printer name followed by the last six characters of the adapter MAC address (for example, Lexmark\_Z65\_1008e8).

**Note:** If there is not a printer port that corresponds to the adapter MAC address, see **Manually configure the network printer** on page 28.

- 5 Make sure the selection for bi-directional support is *not* selected. 
- 6 Click **OK**.

You are finished setting up your computer to work with your network laser printer; however, the printer software must be installed on *each* computer that uses the network printer.

To set up other computers on your network, repeat steps 1 through 13  page 18 for each computer.

**Note:** If the printer software was previously installed on the computer, you are prompted to update the existing driver or install another copy of the driver. Select **Install another copy of the driver** only if you plan to print to multiple printers of the same model. For example, you might have a Lexmark Z65 locally attached and another Lexmark Z65 on your network. If you choose to Install another copy of the driver, make sure you change your printer selection whenever you want to print to the network printer.

# Troubleshooting

For this problem:	See page:
An indicator light is not on or blinking	22
The Lexmark Printer Adapter software installation screen does not appear	22
I can not find the network settings of my computer's wireless adapter	23
My MAC address is not listed on the Select your N5 Wireless Adapter screen	23
My network is not listed on the Connect to the network (automatic) screen	23
I do not know the hexadecimal format of my WEP key	23
Setup was not successful (My printer was not found on the network)	24
The Lexmark printer software installation screen does not appear	24
An error message appears	24
There is not a Network button on the Results: No Printer Attached screen	24

For this problem:	See page:
My network printer does not appear in the list of available printers	25
There is not an Install Selected Printer button on the Network Configuration screen	25
My network printer does not print	26

## An indicator light is not on

If this indicator light is not on:	Make sure the:
Power	Adapter power supply is connected properly.
USB	USB cable connecting the adapter to the printer is secure and the printer is on. <b>Note:</b> This light blinks to indicate USB activity.
Network link	<ul style="list-style-type: none"> <li>• Access point is powered on.</li> <li>• Access point is configured for your adapter.</li> <li>• Adapter is within the appropriate range for your access point.</li> <li>• Network is operating properly. For additional help, refer to your network documentation or contact your network administrator.</li> </ul> <b>Note:</b> This light blinks to indicate any wireless network activity detected by the adapter.

**Note:** See page 5 to locate the indicator lights.

## The Lexmark Printer Adapter software installation screen does not appear

- 1 Close all open software applications.
- 2 Restart your computer.
- 3 Reinsert the Lexmark Printer Adapter software CD.
  - If the software installation screen appears, continue with step 2 on page 6.
  - If not, continue with the following steps:
    - a From your desktop, double-click **My Computer**.
    - b Double-click the CD-ROM drive icon.
    - c If necessary, double-click **setup.exe**.
    - d Continue with step 2 on page 6.

## I can not find the network settings of my computer's wireless adapter

A wireless adapter configuration utility is provided with your computer's wireless adapter hardware. You can use this utility to select the wireless communication data for your network.

Generally, an icon for the utility can be found in the toolbar or selected from the Start menu.

Once the utility is launched, click on the the appropriate tab to view or change the wireless communication settings.

**Note:** Many wireless adapter configuration utilities have a search feature to simplify network selection.

## My MAC address is not listed on the Select your N5 Wireless Adapter screen

- Verify that all three lights on the adapter are on.
- Verify that you pressed the Reset button on the back of the adapter, and waited until the USB light stopped blinking.
- If you manually entered the SSID, verify the value **Lexmark-N5** was entered correctly. The SSID is case-sensitive, and there should be no extraneous spaces.

- Click **Search Again** or **Back** to return to the previous screen and re-enter the data.

## My network is not listed on the Connect to the network (automatic) screen

- The network settings of some ad hoc or closed system wireless networks may not display. Click **Advanced** to manually select the network settings.
- Make sure the network is operating properly. For help, refer to your network documentation or contact your network administrator.

## I do not know the hexadecimal format of my WEP key

- Go to another device on your network and note the selections for key and number of bits.
- 40/64 bit keys contain 5 alphanumeric characters (0 through 9, A through F) and 128 bit keys contain 10.
- If your network uses a pass-phrase, refer to the documentation that came with your access point.

## Setup was not successful (My printer was not found on the network)

- Verify the network status of your computer's wireless adapter. If the network is not active, you did not reconnect to the network. Click **Back** to return to the previous screen.
- If the computer appears on the network, but the printer does not, go to step 9 on page 6, and repeat the install process.
- If you can see the Lexmark-N5 network using the wireless search feature, it is likely the printer adapter never connected with your network. Go to step 9 on page 6, and repeat the install process.

## The Lexmark printer software installation screen does not appear

- 1 Close all open software applications.
- 2 Restart your computer.
- 3 Reinsert the printer software CD.
  - If the Lexmark printer software installation screen appears, continue with step 3 on page 12.
  - If not, continue with the following steps:
    - a From your desktop, double-click **My Computer**.

- a Double-click the CD-ROM drive icon.
- b If necessary, double-click **setup.exe**.
- c Continue with step 3 on page 12.

## An error message appears

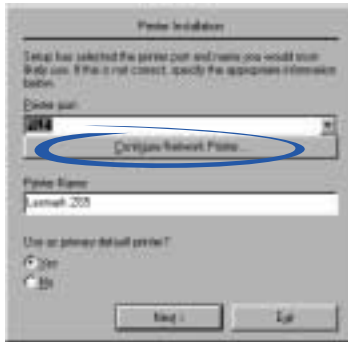
Follow the instructions on any error message that appears on your computer screen. Click the ? or Help button for additional information.

## There is not a Network button on the Results: No Printer Attached screen

- 1 From the Search Results: No Printer Attached screen, click **Select**.



- From the Printer Installation screen, click **Configure Network Printer**.



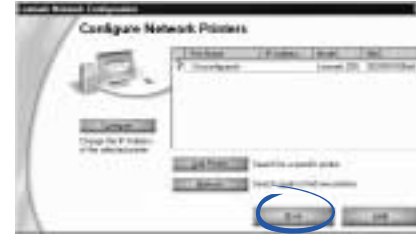
- Continue with step 4 on page 12.

## My network printer does not appear in the list of available printers

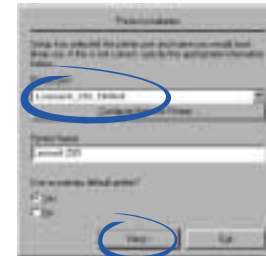
- Unplug the adapter power supply, and then plug it in again.
- Make sure all cables to the printer, adapter, electrical outlet, and network connection are secure (pages 4 through 5).
- Click **Refresh**.
- If your network printer is on a remote subnet, click **Add Printer**, and then follow the instructions on your screen.
- Restart the computer.

## There is not an Install Selected Printer button on the Network Configuration screen

- From the Network Configuration screen, click **Close**.



- From the Printer Installation screen, select your printer port from the pull-down menu, and then click **Next**.



- Follow the instructions on your screen to complete software installation.

## My network printer does not print

- Make sure all cables to the printer, adapter, electrical outlet and network connection are secure (pages 4 through 5).
- Make sure all indicator lights are on (page 5).
- Check the printer status (page 30).
- Make sure the network is operating properly.

Refer to your network documentation or contact your network administrator.

- Make sure the printer software is installed on the computer you are sending the print job from (page 11 (inkjet) or page 16 (laser)).

**Note:** You must install the printer software on each computer that uses the network printer.

- Make sure your network printer has been assigned an IP address.
  - If your adapter is connected to an inkjet printer, check the Network Configuration screen to verify an IP address is listed. For help accessing the Network Configuration screen, follow steps 1 through 4 on pages 13 and 14.

If there is not an IP address listed for your network printer, see **Manually configure the network printer** on page 28.

- If your adapter is connected to a laser printer, run the Laser Configuration Utility on the Lexmark Printer Adapter software CD that shipped with your adapter. For help, see **Laser printers** on page 29.
- Make sure you have selected the correct printer port for the network printer. For help selecting the network printer port, see page 30.
- Restart the computer.
- Make sure there is not a problem with the printer itself.
  - a Disconnect the printer from the adapter.
  - b Attach the printer directly to your computer with a USB or parallel cable.

If you are able to print when the printer is directly attached, there may be a problem with your network. Refer to your network documentation or contact your network administrator.

- Uninstall and then reinstall the printer software. (page 27)

If the printer still does not print, refer to your printer documentation for help.

# How Do I...?

Use this chapter to find out how to perform common tasks related to your adapter and network printer.

To find out how to:	See page:
Change the computer's network settings	27
Print a test page	27
Uninstall the printer software	27
Manually configure the network printer	28
Select the network printer port	30
Check the printer status	30
Reset the adapter	31
Contact Lexmark	31

## Change the computer's network settings

A wireless adapter configuration utility is provided with your computer's wireless adapter hardware. You can use this utility to select the wireless communication data for your network.

Generally, an icon for the utility can be found in the toolbar or selected from the Start menu.

Once the utility is launched, click on the the appropriate tab to view or change the wireless communication settings.

**Note:** Many wireless adapter configuration utilities have a search feature to simplify network selection.

## Print a test page

- 1 From the Start menu, click Settings ► Printers.
- 2 From the **Printers** folder, right-click the icon for your network printer.
- 3 Select **Properties** from the sidebar menu.
- 4 From the General tab, click **Print Test Page**.



## Uninstall the printer software

### Inkjet printers

- 1 From the Start menu, click Programs or All Programs ▶ *the name of your Lexmark printer* ▶ Lexmark Uninstall.
- 2 Follow the instructions on your screen.

**Note:** To reinstall the printer software, restart your computer, and then follow the instructions on page 11.

### Laser printers

Refer to the instructions that came with your printer.

**Note:** To reinstall the printer software, restart your computer, and then follow the instructions on page 17.

## Manually configure the network printer

Your printer software automatically configures your network printer. However, following are some instances when you may need to configure it manually.

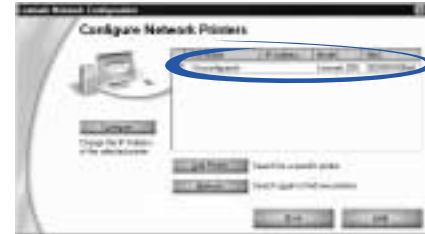
- Your network printer is <Unconfigured>.
- There is not an IP address listed for your network printer on the screen that lists the available printers.

- You manually assigned IP addresses for other network devices.
- You want to assign a specific IP address.
- You want to use your network printer on a remote subnet.

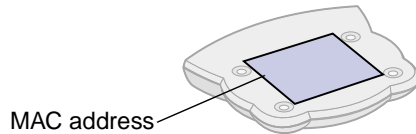
Follow the instructions for your printer type.

### Inkjet printers

- 1 From the Network Configuration screen, select your <Unconfigured> network printer.



Your network printer is the one whose MAC address matches the MAC address on the bottom cover of your adapter.



**Note:** If you want to print to a network printer on a remote subnet, click **Add Printer** and follow the instructions on your screen.

- 2 Click **Refresh**.
- 3 Click **Configure**.
- 4 Enter an IP address that is valid for your network.

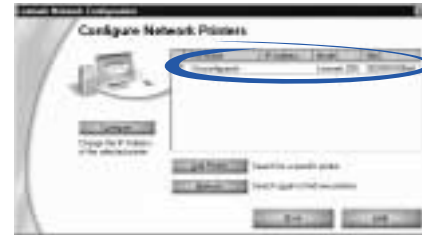


For help, refer to your network documentation or contact your network administrator.

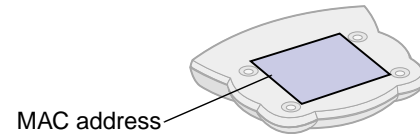
- 5 Click **OK**.
- 6 Continue with step 5 on page 12 (*software not previously installed*) or step 7 on page 15 (*software previously installed*).

## Laser printers

- 1 From the Start menu, click Programs ▶ Lexmark Printer Adapter ▶ Laser Configuration Utility.
- 2 From the Network Configuration screen, select your <Unconfigured> network printer.



Your network printer is the one whose MAC address matches the MAC address on the bottom cover of your adapter.



**Note:** If you want to print to a network printer on a remote subnet, click **Add Printer** and follow the instructions on your screen.

- 3 Click **Refresh**.
- 4 Click **Configure**.

- 5 Enter an IP address that is valid for your network.



For help, refer to your network documentation or contact your network administrator.

- 6 Click **OK**.
- 7 Click **Close**.
- 8 Select the network printer port. For help, see page 30.

## Select the network printer port

### Windows 98/Me/2000

- 1 From the Start menu, click **Settings** ▶ **Printers**.
- 2 From the Printers folder, right-click the icon for your network printer.
- 3 Click **Properties**.
- 4 Click the Details or Port tab.
- 5 From the pull-down menu labeled Print to the following port:, select the printer port that consists of the printer name followed by the last six characters of the adapter MAC address (for example, Lexmark\_Z65\_1008e8).

- 6 Click **OK**.

### Windows XP

- 1 From the Start menu, click Control Panel ▶ Printers and Other Hardware ▶ Printers and Faxes.
- 2 Click the Ports tab.
- 3 From the list of ports, select the one that consists of the printer name followed by the last six characters of the adapter MAC address (for example, Lexmark\_Z65\_1008e8).
- 4 Click **Apply**.
- 5 Click **OK**.

## Check the printer status

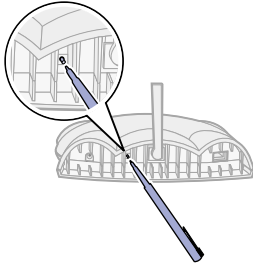
- 1 From the Start menu, click Settings ▶ Printers.
- 2 From the Printers folder, right-click the icon for your network printer.
- 3 Make sure Set as Default is selected and Use Printer Offline is *not* selected.

## Reset the adapter

If you encounter problems during setup or later decide to move your adapter to a different network, you may need to reset the adapter.

To reset the adapter:

- 1 Verify all indicator lights are on (page 5).
- 2 Press the Reset button using a pen or pencil.



- 3 Verify the USB light goes out momentarily.

## Contact Lexmark

Visit our Web site at [www.lexmark.com](http://www.lexmark.com) to:

- Receive technical support.
- Register your adapter.

Other ways to contact our Customer Support Center:

- From the Lexmark Solution Center, click Contact Information ▶ Customer Support.
- Insert the printer software CD that came with your printer into your CD-ROM drive, and then click Contact Lexmark ▶ Technical Support.
- Insert the Lexmark N5 Adapter Setup Utility software CD into your CD-ROM drive, and then click Contact Lexmark ▶ Technical Support.

# Glossary

**Ad hoc:** An 802.11b networking framework in which devices or stations communicate directly with each other, without the use of an access point (AP). Ad-hoc mode is also referred to as peer-to-peer mode or an Independent Basic Service Set (IBSS).

**Authentication:** The process of identifying an individual, usually based on a username and password. Also, one of your computer's wireless adapter network settings.

**Channel:** A communications path between two computers or devices. Also, one of your computer's wireless adapter network settings.

**DHCP:** Dynamic Host Configuration Protocol, a protocol for assigning dynamic IP addresses to devices on a network. With dynamic addressing, a device can have a different IP address every time it connects to the network. This means that a new device can be added to a network without the hassle of manually assigning it a unique IP address.

**Infrastructure:** An 802.11b networking framework in which devices communicate with each other by first going through an Access Point (AP). In infrastructure mode, wireless devices can communicate with each other or can communicate with a wired network.

**IP address:** A number that identifies each device connected to the network. For example, 157.184.0.1.

**Key:** A password needed to decipher encoded data. Also, one of your computer's wireless adapter network settings.

**MAC address:** A 12-character identifier that is unique for each network hardware device. For example, 00.02.00.10.08.e8.

**Mode:** The particular networking framework (Ad hoc or Infrastructure) that your network devices are operating in. Also, one of your computer's wireless adapter network settings.

**network-capable printer:** A Lexmark printing device that does not need to be locally attached to a computer. When connected to a network it can be accessed by any computer on the same network.

**Network name:** see **SSID**.

**printer port:** Windows terminology for a physical or logical connection to a printer. For example:

- LPT1 indicates the printer is attached to a physical parallel port with a parallel cable.
- USB001 indicates the printer is attached to a physical USB port with a USB cable.
- Lexmark\_Z65\_1008e8 indicates a logical connection to the printer across your network.

**subnet:** A portion of a network that shares a common address component. On TCP/IP networks, subnets are defined as all devices whose IP addresses have the same

prefix. For example, all devices with IP addresses that start with 192.168.0 would typically be part of the same subnet.

**SSID:** Service Set Identifier (SSID), one of your computer's wireless adapter network settings, is also referred to as a Network Name because essentially, it is a name that identifies a wireless network.

The SSID is a 32-character unique identifier that acts as a password when a mobile device tries to connect to the BSS (Basic Service Set). The SSID differentiates one WLAN from another, so all access points and all devices attempting to connect to a specific WLAN must use the same SSID. A device will not be permitted to join the BSS unless it can provide the unique SSID. Because an SSID can be sniffed in plain text from a packet it does not supply any security to the network.

**TCP/IP:** The Transmission Control Protocol (TCP) and the Internet Protocol (IP) are protocols that let different types of computers communicate with each other. The internet is based on this suite of protocols.

**WEP:** Wired Equivalent Privacy (WEP), one of your computer's wireless adapter network settings, is a security protocol for wireless local area networks (WLANs) defined in the 802.11b standard.

WEP provides security by encrypting data over radio waves so that it is protected as it is transmitted from one end point to another.

## Statement of Limited Warranty

### Lexmark International, Inc. Lexington, KY

This limited warranty applies to the United States. For customers outside the U.S., refer to the country-specific warranty information that came with your product.

This limited warranty applies to this product only if it was originally purchased for your use, and not for resale, from Lexmark or a Lexmark remarketer, referred to in this statement as "Remarketer."

### Limited warranty

Lexmark warrants that this product:

- Is manufactured from new parts, or new and serviceable used parts, which perform like new parts
- Is, during normal use, free from defects in material and workmanship

If this product does not function as warranted during the warranty period, contact a Remarketer or Lexmark for repair or replacement (at Lexmark's option).

If this product is a feature or option, this statement applies only when that feature or option is used with the product for which it was designed. To obtain warranty service, you may be required to present the feature or option with the product.

If you transfer this product to another user, warranty service under the terms of this statement is available to that user for the remainder of the warranty period. You should transfer proof of original purchase and this statement to that user.

### Limited warranty service

The warranty period starts on the date of original purchase as shown on the purchase receipt. The warranty period ends 12 months later.

To obtain warranty service you may be required to present proof of original purchase. You may be required to deliver your product to the Remarketer or Lexmark, or ship it prepaid and suitably packaged to a Lexmark designated location. You are responsible for loss of, or damage to, a product in transit to the Remarketer or the designated location.

When warranty service involves the exchange of a product or part, the item replaced becomes the property of the Remarketer or Lexmark. The replacement may be a new or repaired item. The replacement item assumes the remaining warranty period of the original product.

Replacement is not available to you if the product you present for exchange is defaced, altered, in need of a repair not included in warranty service, damaged beyond repair, or if the product is not free of all legal obligations, restrictions, liens, and encumbrances.

Before you present this product for warranty service, remove all print cartridges, programs, data, and removable storage media (unless directed otherwise by Lexmark).

For further explanation of your warranty alternatives and the nearest Lexmark authorized servicer in your area, contact Lexmark at (407) 563-4600, or on the World Wide Web at [www.lexmark.com](http://www.lexmark.com).

Remote technical support is provided for this product throughout its warranty period. For products no longer covered by a Lexmark warranty, technical support may not be available or only be available for a fee.

### Extent of limited warranty

We do not warrant uninterrupted or error-free operation of any product.

Warranty service does not include repair of failures caused by:

- Modification or attachments
- Accidents or misuse
- Unsuitable physical or operating environment
- Maintenance by anyone other than Lexmark or a Lexmark authorized servicer
- Operation of a product beyond the limit of its duty cycle
- Use of printing media outside of Lexmark specifications
- Supplies (such as ink) not furnished by Lexmark
- Products, components, parts, materials, software, or interfaces not furnished by Lexmark

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### Additional rights

Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusion or limitation of incidental or consequential damages, so the limitations or exclusions contained above may not apply to you.

This limited warranty gives you specific legal rights. You may also have other rights that vary from state to state.



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[www.lexmark.com](http://www.lexmark.com)



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**IMPORTANT NOTE:**

**Federal Communications Commission (FCC) Radiation Exposure Statement**

**This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.**

**This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.**

### **R&TTE Compliance Statement**

This equipment complies with all the requirements of the DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of 9 March 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE).

*The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.*

### **Safety**

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this manual and of the computer manufacturer must therefore be allowed at all times to ensure the safe use of the equipment.

### **EU Countries intended for use**

The ETSI version of this device is intended for home and office use in Austria, Belgium, Denmark, Finland, France(with Frequency channel restrictions), Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

The ETSI version of this device is also authorized for use in EFTA member states Iceland, Liechtenstein, Norway and Switzerland.

### **EU Countries Not intended for use**

None.

### **Potential restrictive use**

France: Only channels 10,11,12, and13