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You can read the recommendations in the user guide, the technical guide or the installation guide for LEXMARK X4580. You'll find the answers to all your questions on the LEXMARK X4580 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual LEXMARK X4580**  
**User guide LEXMARK X4580**  
**Operating instructions LEXMARK X4580**  
**Instructions for use LEXMARK X4580**  
**Instruction manual LEXMARK X4580**

## LEXMARK

### 3500-4500 Series All-In-One

#### Getting Started



March 2007

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

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.....73 4 Finding information about the printer Quick Setup sheet Description The Quick Setup sheet gives you instructions for setting up hardware and software. Where to find You can find this document in the printer box or on the Lexmark Web site at [www.lexmark.com](http://www.lexmark.com).

Getting Started or Setup Solutions booklet Description Where to find The Getting Started booklet gives you instructions for You can find this document in the printer box or on the setting up hardware and software (on Windows Lexmark Web site at [www.lexmark.com](http://www.lexmark.com). operating systems) and some basic instructions for using the printer. Note: If your printer supports Macintosh operating systems, see the Mac Help: 1 From the Finder desktop, double-click the Lexmark 3500-4500 Series folder. 2 Double-click the printer Help icon. The Setup Solutions booklet tells you how to solve printer setup problems. Note: These documents do not ship with all printers. If you did not receive a Getting Started booklet or a Setup Solutions booklet, see the User's Guide instead. 5 User's Guide Description The User's Guide gives you instructions for using the printer and other information such as: Where to find When you install the printer software, the User's Guide will be installed.

..... Using the software (on Windows operating systems) Loading paper Printing Working with photos Scanning (if supported by your printer) Making copies (if supported by your printer) Faxing (if supported by your printer) Maintaining the printer Connecting the printer to a network (if supported by your printer) scanning, faxing, paper jams, and misfeeds 1 Click Start Programs or All Programs Lexmark 3500-4500 Series. 2 Click User's Guide. If the link to the User's Guide is not on your desktop, follow these instructions: 1 Insert the CD. The installation screen appears. Note: If necessary, clickproperly, and that your computer is connected to your wireless network.

2 Know the name (SSID) of your wireless network. 3 If your wireless network uses a security scheme, make sure you know the password that was used to keep your network secure. This password is also known as security key, WEP key, or WPA key. Note: If you do not know this information, see the documentation that came with the wireless network, or contact the person who set up your wireless network. Use the table below to write down the information you need to know.

Item SSID (name of your network) Security key (password) Description 4 Follow the instructions in the following sections on another computer on your wireless network, see "Installing the printer on additional network computers" on page 19. Note: 1 Make sure the computer is on. 2 From the Finder desktop, click the Applications folder. 3 From the Applications folder, double-click the Internet Connect icon. 15 4 From the toolbar, click the AirPort icon. 5 From the Network pop-up menu, select print server XXXXXX, where XXXXXX is the last six digits of the printer's MAC address. Notes: · The MAC address appears on an adhesive label located on the back of the printer. · You will temporarily lose your connection to the Internet while you are connected to "print server XXXXXX" network. 6 Open the Safari browser. 7 From the Bookmarks drop-down menu, select Show All Bookmarks.

8 Under Collections, select Bonjour or Rendezvous. Note: The application is referred to as Rendezvous in Mac OS X version 10.3, but is now called Bonjour by Apple Inc. 9 Double-click your printer model. 10 Click Configuration. 11 Click Wireless. 12 Change these settings: a Enter the name of your network (SSID). b For BSS (Basic Service Set) Type, select · Infrastructure if your wireless network uses a wireless access point (wireless router) to communicate with other wireless devices. · Ad Hoc if your wireless network does not use a wireless access point (wireless router) to communicate with other wireless devices c Select the type of security you use to protect your wireless network.



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Notes: · If you are using the WEP type of security, you must enter a hexadecimal key.

If you are using an AirPort base station with WEP security, you must get the equivalent network password. For instructions on getting the equivalent network password, see the documentation that came with your AirPort base station. · If you do not know this information, see the documentation that came with the wireless network, or contact the person who set up your wireless network. 13 Click Submit. 14 From the Applications folder, double-click the Internet Connect icon.

15 From the toolbar, click the AirPort icon. 16 From the Network pop-up menu, select your original network. Notes: · You may need to enter the password for your wireless network security. · Your connection to the Internet will be restored when you reconnect to your original network. 17 Insert the CD for Macintosh.

18 From the Finder desktop, double-click the Lexmark 3500-4500 Series Installer icon. 19 Double-click the Install icon. 20 Click Continue. 21 Follow the instructions on the computer screen to complete the installation. When you have completed the installation, the printer is ready for you to use. Setting up the printer using a USB cable The following instructions are for setting up the printer with a USB cable on a Macintosh operating system. Note: Make sure you have completed the initial setup of the printer. For more information, see "Setting up the printer" on page 9. 1 Make sure the computer is on. 2 Firmly plug the rectangular end of the USB cable into the USB port of the computer.

The USB port is marked with the USB symbol. 4 Insert the CD for Macintosh. 5 From the Finder desktop, double-click the Lexmark 3500-4500 Series Installer icon. 6 Double-click the Install icon. 7 Click Continue. 8 Follow the instructions on the computer screen to complete the installation. When you have completed the installation, the printer is ready for you to use. Installing an optional internal wireless print server The printer you purchased may contain an internal wireless print server that allows the printer to be used on a wireless network. If your printer does not have an internal wireless print server already installed, you can purchase one separately at [www.lexmark.com](http://www.lexmark.com).

Use the following instructions to install the internal wireless print server: 1 Turn off your printer, and then unplug the power cord from the wall outlet. Warning: Failure to unplug the printer can cause damage to your printer and to the internal wireless print server. Make sure the printer is turned off and the power cord is unplugged from the wall outlet before you proceed. 2 Remove the back cover plate by pushing the tab down and then pulling the cover away from the printer.

3 Unpack the internal wireless print server. Save the packaging materials. Warning: Wireless print servers are easily damaged by static electricity. Touch something metal such as the printer frame before you touch the wireless print server. 4 Align the edges of the internal wireless print server with the guides on the left and right, and then slide the wireless print server into the printer until it snaps into place.

5 Make sure the antenna points up. 6 Attach the adhesive label with the MAC address to the back of the printer. You will need this later in order to network the printer. 7 Configure the internal wireless print server to work on your wireless network. · If you purchased the optional internal wireless print server and printer at the same time, see "Setting up the printer" on page 9. · If you purchased the optional internal wireless print server separately and have already installed the printer: a Click Start Programs or All Programs Lexmark 3500-4500 Series. b Click Wireless Setup. c Follow the prompts on the computer screen. 18 Configuring the optional internal wireless print server If you purchased the optional internal wireless print server after your printer was already set up, follow these steps: 1 Install the internal wireless print server into the printer. For more information, see "Installing an optional internal wireless print server" in the "Setting up the printer" chapter.

2 Click Start Programs or All Programs Lexmark 3500-4500 Series. 3 Click Wireless Setup. 4 Click Start. 5 Follow the instructions on the computer screen. 6 Click Finish to complete the installation. Installing the printer on additional network computers If you are installing your network printer for use with multiple computers on the network, insert the installation CD into each additional computer, and follow the instructions on the computer screen. · You do not need to repeat the connection steps for each computer you want to print to the printer. · The printer should appear as a highlighted printer in the installation.

If multiple printers appear in the list, make sure you select the printer with the correct IP address/MAC address. If you need help finding the IP or MAC address, see "Finding your MAC address" on page 64.

19 Wireless networking Networking overview A network is a collection of devices such as computers, printers, Ethernet hubs, wireless access points, and routers connected together for communication through cables or through a wireless connection. Devices on a wireless network use radio waves instead of cables to communicate with each other. For a device to be able to communicate wirelessly, it must have a wireless print server attached or installed that enables it to receive and transmit radio waves. Common home network configurations There are different ways a network can be set up. Some examples of common home network configurations are: · · · · Laptop and printer connected wirelessly with Internet Computer, laptop, and printer connected wirelessly with Internet Ethernet-connected devices with Internet Computer, laptop, and printer connected wirelessly without Internet Laptop connected wirelessly to printer without Internet The computers and laptops in all five scenarios must be wired and/or have wireless network adapters built in or installed in them so that they can communicate over a network.

The printers in the following diagrams represent Lexmark printers with Lexmark internal print servers built in or installed in them so that they can communicate over a network. Lexmark internal print servers are devices made by Lexmark to enable Lexmark printers to be connected to wired or wireless networks. Scenario 1: Laptop and printer connected wirelessly with Internet · A computer is connected to a wireless router by an Ethernet cable. · A laptop and a printer are connected wirelessly to the router. · The network is connected to the Internet through a DSL or a cable modem.

Scenario 2: Computer, laptop, and printer connected wirelessly with Internet · A computer, a laptop, and a printer are connected wirelessly to a wireless router.



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· The network is connected to the Internet through a DSL or a cable modem. 20 Scenario 3: Ethernet-connected devices with Internet · A computer, a laptop, and a printer are connected by Ethernet cables to a hub, router, or switch. · The network is connected to the Internet through a DSL or a cable modem. Scenario 4: Computer, laptop, and printer connected wirelessly without Internet · A computer, a laptop, and a printer are connected wirelessly to a wireless access point. · The network has no connection to the Internet. Scenario 5: Laptop connected wirelessly to printer without Internet · A laptop is directly connected wirelessly to a printer without going through a wireless router. · The network has no connection to the Internet. 21 SSID SSID (Service Set identifier) is a setting on a wireless device that allows devices to join the same wireless network. It is sometimes called the network name.

The SSID permits devices to communicate with each other. Signal strength Wireless devices have built-in antennas that transmit and receive radio signals. The signal strength listed on the printer network setup page indicates how strongly a transmitted signal is being received. Many factors can affect the signal strength. One factor is interference from other wireless devices or even other devices such as microwave ovens. Another factor is distance. The farther two wireless devices are from each other, the more likely it is that the communication signal will be weaker. IP addresses An IP address is a unique number used by devices on an IP network to locate and communicate with each other. Devices on an IP network can only communicate with each other if they have unique and valid IP addresses. A unique IP address means no two devices on the same network have the same IP address.

You can locate the printer's IP address by printing out the printer's network setup page. How to locate a computer's IP address 1 From the desktop, click Start Menu 2 Type ipconfig 3 Press Enter. The IP address is included in the information that appears. Programs Accessories Command Prompt. MAC address Most network equipment has a unique hardware identification number to distinguish it from other devices on the network.

This is called the Media Access Control (MAC) address. A list of MAC addresses can be set on a router so that only devices with matching MAC addresses can be allowed to operate on the network. This is called MAC filtering. If a customer has a MAC filter enabled in his router and wants to add a printer to their network, the printer's MAC address must be included in the MAC filter list. Printing a network setup page A network setup page lists your configuration settings.

@@To print a network setup page: 1 From the printer's control panel, press Settings. 2 Press 3 Press . or repeatedly until Network Setup appears. 22 4 Press 5 Press . 6 Press or repeatedly until Print Setup Page appears. again. Pinging the printer To test whether your computer can communicate properly with your printer on the same network, issue a ping command. 1 From the desktop, click Start Menu Programs Accessories Command Prompt. 2 Type the command ping followed by the IP address of the device. 3 Press Enter.

· If the printer is on the network and responding to the ping, several lines appear that start with "Reply from". · If the printer is not on the network or is not responding, after several seconds "Request timed out." appears. If the printer does not respond: a b c d e Print a setup page. Check that the printer has an IP address. Under Network Card, check that the Status is listed as Connected. Check that the computer has an IP Address. For additional information, refer to the "Wireless troubleshooting" section of the "Troubleshooting" chapter. Types of wireless networks Networks can operate in one of two modes: infrastructure or ad hoc. Lexmark recommends setting up a network in infrastructure mode using the installation CD that came with the printer.

A wireless network where each device communicates with others through a wireless access point (wireless router) is set up in infrastructure mode. As is true with an ad hoc network, all devices must have valid IP addresses and share the same SSID and channel. In addition, they must share the same SSID as the wireless access point (wireless router). A simple type of wireless network is one where a PC with a wireless print server communicates directly with a printer equipped for wireless networking. This mode of communication is called ad hoc.

A device in this type of network must have a valid IP address and be set to ad hoc mode. The wireless print server must also be configured with the same SSID and channel. Infrastructure Characteristics Communication Security Range Speed Requirements for all devices on the network Through wireless access point (wireless router) More security options Determined by range and number of access points Usually faster Restricted to range of individual devices on network Usually slower Directly between devices Ad hoc 23 Unique IP address for each Yes device Mode set to Same SSID Same channel Infrastructure mode Yes,

including the wireless access point (wireless router) Yes, including the wireless access point (wireless router) Yes Ad hoc mode Yes Yes Infrastructure mode is the recommended setup method because it has: · · · Increased network security Increased reliability Faster performance Easier setup 24 Learning about the printer Understanding the parts of the printer Use the 1 2 Paper support Wi-Fi indicator To Load paper. Check wireless status: · Off indicates that the printer is not turned on or that no wireless option is installed. · Orange indicates that the printer is ready to be configured for wireless printing but is not connected to a wireless network indicates that the printer is connected for USB printing · Orange blinking indicates that the printer is configured but is unable to communicate with the wireless network.

· Green indicates that the printer is connected to a wireless network. 3 4 5 6 7 8 9 10 PictBridge port Connect a PictBridge-enabled digital camera or a flash drive to the printer. Memory card slots Insert a memory card. Control panel Paper exit tray Paper feed guard Paper guide Top cover Scanner glass Operate the printer. For more information, see "Using the control panel" on page 26. Hold paper as it exits. Prevent items from falling into the paper slot. Keep paper straight when feeding. Access the scanner glass. Copy or remove an item.

25 Use the 1 2 3 Scanner unit Print cartridge carrier To Access the print cartridges. Install, replace, or remove a print cartridge. Lexmark N2050 (internal wireless print server) Connect the printer to a wireless network.



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Note: Only the 4500 Series comes with an internal wireless print server installed. 4 5 USB port Power supply with port Connect the printer to a computer using a USB cable. Connect the printer to a power source. Using the control panel buttons and menus Using the control panel The display shows: · Printer status · Messages · Menus 2 3 4 5 6 7 1 Press 1 To · Turn the printer on. · Turn the printer off. Press and then release the button quickly to enter Power Saver mode. Press and hold the button for two seconds to turn the printer off.

· Stop the print, copy, or scan process. Copy Mode Access the copy default screen and make copies. Note: The mode is selected when the button light is on. 2 3 Scan Mode Access the scan default screen and scan documents. Note: The mode is selected when the button light is on.

4 Photo Card Access the photo default screen and print photos. Note: The mode is selected when the button light is on. 5 Settings Access the settings default screen and change printer settings. Note: Other button lights are off when this button is selected. 6 7 Lighter / Darker Adjust the brightness of a copy or photo.

Display the Copy, Scan, or Photo Card menu, depending on which mode is selected. 27 1 2 3 4 5 Press To 1 · Return to the previous screen. · Delete a letter or number. · Decrease a number. · Delete a letter or number. · Scroll through menus, submenus, or settings on the display. · Select a menu or submenu item that appears on the display. · Feed or eject paper. · Increase a number. · Enter a space between letters or numbers.

· Scroll through menus, submenus, or settings on the display. · Cancel a print, copy, or scan job in progress. · Exit a menu or submenu, and return to the default copy, scan, or photo card screen. · Clear current settings or error messages, and return to default settings. 2 3 4 5 28 Press 1 2 To Start Color Start a color copy, scan, or photo print job, depending on which mode is selected. Start Black Start a black-and-white copy, scan, or photo print job, depending on which mode is selected. Using the Copy menu To access and navigate the Copy menu: 1 From the control panel, press Copy Mode. The copy default screen appears. 2 If you do not want to change a setting, press Start Color or Start Black. 3 If you want to change a setting, press 4 Press 5 Press .

6 Press 7 Press . Note: Pressing selects a setting. An \* appears next to the selected setting, or repeatedly until the submenu item you want or the setting you want appears. or .

repeatedly until the menu item you want appears. 8 To go into additional submenus and settings, repeat step 6 and step 7 as needed. 9 If necessary, press repeatedly to return to the previous menus and make other setting selections. 10 Press Start Color or Start Black. 29 Use this Copies\* Resize\* To Specify how many copies to print.

· Specify the percentage for enlarging or reducing the original copy. · Specify a specific copy size. · Create a multiple-page poster. Adjust the brightness of a copy. Adjust the quality of a copy. Specify the size and type of the paper loaded. Choose how many copies of an image to print on a page. Print one or more copies in the correct order. Choose how many pages to print on a page. Specify the size of the original document.

Specify the type of the original document. Lighter / Darker\* Quality\* Paper Setup Repeat Image\* Collate N-Up\* Original Size\* Original Type\* \* Temporary setting. For information on saving temporary and other settings, see "Saving settings" on page 35. Using the Scan menu To access and navigate the Scan menu: 1 From the control panel, press Scan Mode. The scan default screen appears. 2 Press or repeatedly until the scan destination you want appears. 3 If you do not want to change a setting, press Start Color or Start Black. 4 If you want to change a setting, press 5 Press 6 Press . 7 Press 8 Press . Note: Pressing selects a setting.

An \* appears next to the selected setting, or repeatedly until the submenu item you want or the setting you want appears. or . repeatedly until the menu item you want appears. 9 To go into additional submenus and settings, repeat step 7 and step 8 as needed.

10 If needed, press repeatedly to return to the previous menus and make other setting selections. 11 Press Start Color or Start Black. 30 Use this Quality\* Original Size\* To Adjust the quality of a scan. Specify the size of the original document. \* Temporary setting.

For information on saving temporary and other settings, see "Saving settings" on page 35. Using the Photo Card menu 1 If necessary, press Photo Card, or insert a memory card or a flash drive into the printer. 2 Press 3 Press . 4 Press 5 Press . Note: Pressing selects a setting. An \* appears next to the selected setting, or repeatedly until the submenu item you want or the setting you want appears. or repeatedly until the menu item you want appears. 6 To go into additional submenus and settings, repeat step 4 and step 5 as needed. 7 If necessary, press repeatedly to return to the previous menus and make other setting selections.

8 Press Start Color or Start Black. Menu item Proof Sheet Action Print and then scan a proof sheet: · for all photos on the memory card · for the most recent 20 photos · by date Print Photos Save Photos Print photos directly from a memory card or flash drive. · Save photos stored on a memory card or flash drive to the computer. · Copy photos from a memory card to a flash drive. Adjust brightness of printed photos. Apply automatic image enhancement or color effects to your photos. Specify the size and type of the paper loaded. Specify the size photo you want. Select borderless or bordered, center one photo on a page, or specify the number of photos to print on a page. Adjust the quality of printed photos.

Lighter/Darker Photo Effects 1 Paper Setup 1, 2 Photo Size 1, 2 Layout 1 Quality 1 1 2 Setting will return to factory default setting when a memory card or flash drive is removed. Setting must be saved individually. For more information, see "Saving Paper Size, Paper Type, and Photo Size settings" on page 32. 3 1 Saving Paper Size, Paper Type, and Photo Size settings 1 From the control panel, press Settings. 2 Press 3 Press .

4 Press 5 Press . 6 Press 7 Press . 8 Press 9 Press . 10 Press 11 Press . 12 Press 13 Press .

14 Press 15 Press . 16 Press 17 Press . or repeatedly until the setting you want appears. or repeatedly until Photo Print Size appears. repeatedly until Defaults appears. or repeatedly until the setting type you want appears. to go to the Paper Type submenu. or repeatedly until the size you want appears. or repeatedly until Paper Size appears.



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or repeatedly until Paper Setup appears.

Using the PictBridge menu The PictBridge default settings menu lets you select printer settings if you did not specify the settings beforehand on your digital camera. For more information on making camera selections, see the documentation that came with your camera. 1 Connect a PictBridge-enabled digital camera to the printer. a Insert one end of the USB cable into the camera. Note: Use only the USB cable that came with the digital camera. b Insert the other end of the cable into the PictBridge port on the front of the printer. Note: The PictBridge port is marked with the PictBridge symbol. 2 The message, PictBridge camera detected. Press display. to change settings.

appears on the 2 Press 3 Press . 4 Press 5 Press . or repeatedly until the menu item you want appears. or repeatedly until the submenu item you want or the setting you want appears. Note: Pressing selects a setting.

An \* appears next to the selected setting. 6 To go into additional submenus and settings, repeat step 4 and step 5 as needed. 7 If necessary, press Menu Item Paper Setup1, 2 Photo Size1, 2 repeatedly to return to the previous menus and make other setting selections. Action Specify the size and type of paper loaded. Specify the size of printed photos.

Note: If you did not specify the photo size beforehand in your digital camera, the default photo sizes are: · 4 x 6 (if Letter is your default Paper Size) · 10 x 15 cm (if A4 is your default Paper Size, and your country is not Japan) · L (if A4 is your default Paper Size, and your country is Japan) Layout1 Quality1 1 2 Center one photo on a page, or specify the number of photos to print on a page. Adjust the quality of printed photos. Setting will return to factory default setting when the PictBridge-enabled digital camera is removed. Setting must be saved individually. For more information, see "Saving Paper Size, Paper Type, and Photo Size settings" on page 32. Using the Settings menu 1 From the control panel, press Settings. 2 Press or repeatedly until the menu item you want appears. 3 3 Press . 4 Press 5 Press . Note: When you choose a value selection, an \* appears next to the selected setting.

or repeatedly until the submenu item you want or the setting you want appears. 6 To go into additional submenus and settings, repeat step 4 and step 5 as needed. 7 If necessary, press From here Maintenance repeatedly to return to the previous menus and make other selections. You can Select: · Ink Level to view the ink level of the color cartridge. Press to view the ink level of the black (or photo) cartridge. or · Clean Cartridges to clean the print cartridge nozzles. For more information, see "Cleaning the print cartridge nozzles" in the "Maintaining the printer" chapter of the User's Guide on the CD. · Align Cartridges to align the cartridge. For more information, see "Aligning print cartridges" in the "Maintaining the printer" chapter of the User's Guide on the CD. · Print Test Page to print a test page.

Paper Setup Device Setup Select the size and type of paper loaded. Select: · Language to change the language setting. · Country to set the default blank paper size and date format being used in your location. · Clear Settings Timeout to change the timeout feature before the printer, if left unused, resets to the factory default settings. For more information, see "Saving settings" on page 35.

· Power Saver to set the number of minutes before the printer, if left unused, enters the Power Saver mode. Defaults Select: · Photo Print Size to choose the size of photo(s) to print. · Set Defaults to change default settings. For more information, see "Saving settings" on page 35. Network Setup Select: · Print Setup Page to print a page that lists the network settings.

· Wireless Setup to view: Network Name, which shows the six characters unique to your specific printer. Wireless Signal Quality, which shows the signal strength. Reset Network Adapter to Factory Defaults, which lets you reset the wireless network settings. · TCP/IP to reset the IP address. 34 Saving settings In a setting menu, an \* appears next to the default setting. To change the setting: 1 Press or repeatedly until the setting you want appears. 2 Press : · To save most settings. An \* appears next to the saved setting. · To select a temporary setting. An \* appears next to the selected setting.

Note: The printer reverts to the default setting of a temporary setting after two minutes of inactivity or if the printer is turned off. Temporary settings Copy Mode Copies Resize Lighter/Darker Quality Repeat Image N-Up Original Size Original Type Scan Mode Quality Original Size Resize The following Photo Card settings will not time out after two minutes of inactivity or turning off the power but will return to the factory default settings when a memory card or flash drive is removed. Photo Card To change the timeout feature: Photo Effects Photo Size Layout Quality a Press Settings. b Press c Press . d Press e Press . f Press g Press . 3 To change one or more temporary settings into new default settings: a Press Settings. b Press or repeatedly until Defaults appears. or repeatedly until Never appears. or repeatedly until Clear Settings Timeout appears.

or repeatedly until Device Setup appears. 35 c Press . d Press e Press . f Press g Press . or repeatedly until Use Current appears. or repeatedly until Set Defaults appears. 36 Learning about the software This chapter tells how to use the printer with Windows operating systems. If you are using a Macintosh operating system, see the Mac Help: 1 From the Finder desktop, double-click the Lexmark 3500-4500 Series folder. 2 Double-click the printer Help icon. Using the printer software Use this software The Lexmark Imaging Studio The Solution Center Printing Preferences The Toolbar To Preview, scan, copy, print, or fax documents or photos.

Find troubleshooting, maintenance, and cartridge ordering information. Select the best print settings for the document you are printing. Create printer-friendly versions of active Web pages. Using the Lexmark Imaging Studio To open the Lexmark Imaging Studio Welcome screen, use one of these methods: Method 1 From the desktop, double-click the Lexmark Imaging Studio icon. Method 2 1 Click Start Programs or All Programs 3500-4500 Series. Lexmark 2 Select Lexmark Imaging Studio. Click the Lexmark Imaging Studio icon for the task you want to complete. Click To Scan Details · Scan a photo or document. Save, edit, or share your photo or document.



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Copy · Copy a photo or document.

· Reprint or enlarge your photo. Send a photo or document as a fax. Fax E-mail Send a document or photo as an attachment to an e-mail message. 37 Click To View/Print Photo Library Details Browse, print, or share your photos. Transfer Photos Download photos from a memory card, flash drive, CD, or PictBridge-enabled digital camera to the Photo Library. Photo Greeting Cards Make quality greeting cards from your photos. Photo Packages Print multiple photos in various sizes. Slideshow View your photos in motion. Poster Print your photos as a multiple-page poster. From the bottom left corner of the Welcome screen, Click Setup and diagnose printer To . . . . Check ink levels.

Order print cartridges. Find maintenance information. Select other Solution Center tabs for more information, including how to change printer settings and troubleshooting. Dialing and Sending Ringing and Answering Fax Printing/Reports Speed Dial and Group Dial numbers Setup and manage faxes Set printer fax settings for: . . . . Using the Solution Center The Solution Center provides help, as well as information about the printer status and ink level. 38 To open the Solution Center, use one of these methods: Method 1 Method 2 1 From the desktop, double-click the Lexmark Imaging Studio icon.

1 Click Start Programs or All Programs Lexmark 3500-4500 Series. 2 Click Setup and diagnose printer. The Solution Center appears with the Maintenance tab open. The Solution Center consists of six tabs: From here Printer Status (Main dialog) You can 2 Select Solution Center. · View the status of the printer. For example, while printing, the status of the printer is Busy Printing. · View paper type detected. · View ink levels and order new print cartridges. How To · Learn how to: Use basic features. Print, scan, copy, and fax. Print projects such as photos, envelopes, cards, banners, iron-on transfers, and transparencies. · Find the electronic User's Guide for more information. · View ink levels and order new print cartridges. Troubleshooting · Learn tips about the current status. · Solve printer problems.

· View ink levels and order new print cartridges. · Install a new print cartridge. Note: Wait until scanning is complete before installing a new print cartridge. Maintenance . . . . . Contact Information View shopping options for new cartridges. Print a test page. Clean to fix horizontal streaks. Align to fix blurry edges. Troubleshoot other ink problems. View ink levels and order new print cartridges. · Learn how to contact us by telephone or on the World Wide Web. · View ink levels and order new print cartridges. 39 From here Advanced You can . . . . . Change the appearance of the Printing Status window. Turn printing voice notification on or off. Change network printing settings. Share information with us regarding how you use the printer.

Obtain software version information. View ink levels and order new print cartridges. Note: For more information, click Help in the lower right corner of the screen. Using Printing Preferences Opening Printing Preferences Printing Preferences is the software that controls the printing function when the printer is connected to a computer. You can change the settings in Printing Preferences based on the type of project you want to create.

You can open Printing Preferences from almost any program: 1 With a document open, click File Print. 2 From the Print dialog, click Properties, Preferences, Options, or Setup. Using the Save Settings menu From the "Save Settings" menu, you can name and save the current Print Properties settings for future use. You can save up to five custom settings. Using the I Want To menu The "I Want To" menu contains a variety of task wizards (printing a photo, an envelope, a banner, a poster, or printing on both sides of the paper) to help you select the correct print settings for a project. Using the Options menu Use the "Options" menu to make changes to the Quality Options, Layout Options, and Printing Status Options settings. @@@@Specify the number of copies to print. Select to collate the job. Specify to print the last page of the job first. @@Click To · Select Page Setup options.

@@ · Access Help for additional information. @@@@3 Click Printing Preferences. 4 Click the Save Settings menu. @@@@@Declared yield value in accordance with ISO/IEC 24711 (FDIS). @@Notes: · For best results, use only Lexmark print cartridges. · For best results when printing photos or other high-quality images, use Lexmark photo papers. Item USB cable Lexmark N2050 (Internal wireless print server) Note: If your printer did not come with an internal wireless print server already installed, installing the Lexmark N2050 in the printer lets you print and scan on a wireless network. Part number 1021294 For more information, go to [www.lexmark.com](http://www.lexmark.com).

45 Paper Lexmark Premium Photo Paper Paper size . . . . . Letter A4 4 x 6 in. 10 x 15 cm L Letter A4 4 x 6 in. 10 x 15 cm Letter A4 4 x 6 in. 10 x 15 cm L Lexmark Photo Paper Lexmark PerfectFinish™ Photo Paper Note: Availability may vary by country or region. For information on how to purchase Lexmark Premium Photo Paper, Lexmark Photo Paper, or Lexmark PerfectFinish Photo Paper in your country or region, go to [www.lexmark.com](http://www.lexmark.com).

46 Troubleshooting For more troubleshooting information on a Macintosh operating system, see the Mac Help. Setup troubleshooting . . . . . "Incorrect language appears on the display" on page 47 "Power button is not lit" on page 47 "Software does not install" on page 48 "Page does not print" on page 49 "Cannot print from digital camera using PictBridge" on page 50 Incorrect language appears on the display These are possible solutions. Try one of the following: Change the language selection during initial setup After you select a language, Language appears again on the display.

@@@2 Press 3 Press . 4 Press 5 Press . @@or repeatedly until Language appears. @@@@@3 Gently remove the power supply from the printer. 4 Reconnect the power supply to the printer. 5 Plug the power cord into the wall outlet. @@@@@@ In Windows Vista (Classic Start menu): Start Printers. 2 Double-click the printer queue device. 3 Click Printer. · Make sure no check mark appears next to Pause Printing.

@@3 Gently remove the power supply from the printer.



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4 Reconnect the power supply to the printer. 5 Plug the power cord into the wall outlet. 6 Connect a PictBridge-enabled digital camera to the PictBridge port. 7 To print a network setup page: 1 From the control panel of the printer, press Settings. 2 Press or repeatedly until Network Setup appears. 3 Press . 4 Press 5 Press . 6 Press again. or repeatedly until Print Setup Page appears.

Wi-Fi indicator is not lit These are possible solutions. Try one or more of the following: Check power If the printer light is not on, see "Power button is not lit" on page 47. Remove and reinstall the optional internal print server Note: This solution does not apply to printers that came with the internal wireless print server already installed. Reinstall the internal wireless print server. For more information, see "Installing an optional internal wireless print server" on page 17.

Network printer does not show up in the printer selection list during installation Check whether the printer is on the same wireless network as the computer The SSID of the printer must match the SSID of the wireless network. Windows users only 1 If you do not know the SSID of the network, use the following steps to obtain it before rerunning the Wireless Setup Utility. a Enter the IP address of your wireless access point (wireless router) into the Web address field of your browser. If you do not know the IP address of the wireless access point (wireless router): 1 Click: · In Windows XP: Start Programs or All Programs Accessories Command Prompt · In Windows Vista: The Start icon All Programs Accessories Command Prompt The Start icon looks like 2 Type ipconfig 3 Press Enter. .

· The "Default Gateway" entry is typically the wireless access point (wireless router). · The IP address appears as four sets of numbers separated by periods, such as 192.168.0.100. Your IP address might also start with the numbers 10 or 169. This is determined by your operating system or wireless network software. b c d e Enter your user name and password when prompted. Click OK. On the main page, click Wireless or other selection where settings are stored.

The SSID will be displayed. Write down the SSID, security type, and the security keys if they are shown. Note: Make sure you copy them down exactly, including any capital letters. 2 Click Start Programs or All Programs Lexmark 3500-4500 Series. 51 3 Click Wireless Setup. Note: You may be prompted to connect the printer to the computer again using the installation cable as part of the setup process. 4 Follow the instructions on the computer screen, including typing in the SSID of the wireless access point (wireless router) and the security keys when prompted. 5 Store the SSID and the security keys in a safe place for future reference. Macintosh users only 1 If you do not know the SSID of the network, use the following steps to check the status of AirPort and obtain the SSID before rerunning the wireless setup. a From the Applications folder, double-click the Internet Connect icon.

b From the toolbar, click the AirPort icon. The SSID of the network the computer is connected to is displayed in the Network pop-up menu. c Write down the SSID. 2 Reconfigure the printer's settings. See "Run the wireless setup again" on page 62.

3 Insert the CD for Macintosh. 4 From the Finder desktop, double-click the Lexmark 3500-4500 Series Installer icon. 5 Double-click the Install icon. 6 Click Continue. 7 Follow the instructions on the computer screen.

8 Store the SSID in a safe place for future reference. Check your security keys A security key is like a password. All devices on the same network share the same security key. @@@@Hexadecimal characters are AF and 09. · Exactly 5 or 13 ASCII characters. @@Hexadecimal characters are AF and 09. · Between 8 and 64 ASCII characters. @@@@4 Cancel the software installation. @@@@4 If you set a new network name, you must reset the printer and computer SSID to the same network name. · To reset the computer network name, see the documentation that came with your computer.

· To reset the printer name: 1 Click Start Programs or All Programs Lexmark 3500-4500 Series. 2 Click Wireless Setup Utility. 3 Follow the instructions on the computer screen, and enter the new network name when prompted. Check security keys Make sure security keys are correct. For more information, see "Check your security keys" on page 52. Move your computer and/or printer Move the computer and/or printer closer to the wireless access point (wireless router). Although the possible distance between devices in 802.11b or 802.11g networks is 300 feet, the effective range for optimal performance is generally 100/150 feet. You can find the signal strength of the network on the network setup page.

For information on how to print a setup page, see "Printing a network setup page" on page 50. 53 Check MAC address If your network uses MAC address filtering, provide the MAC address for the printer to your network. If you need help finding the MAC address, see "Finding your MAC address" on page 64. Wi-Fi indicator light is blinking orange during installation When the Wi-Fi indicator light is blinking orange, it indicates that the printer has been set up for wireless networking but cannot connect to the network for which it has been configured. The printer may be unable to join the network because of interference or its distance from the wireless access point (wireless router), or until its settings are changed.

These are possible solutions. Try one or more of the following: Make sure the access point is on Check the access point and, if necessary, turn it on. Move your wireless access point (wireless router) to minimize interference There may be temporary interference from other devices such as microwave ovens or other appliances, cordless phones, baby monitors, and security system cameras. Make sure your wireless access point (wireless router) is not positioned too closely to these devices. Try adjusting external antennas Generally, antennas work best if they are pointing straight up.

You may find, however, that reception improves if you experiment with different angles for your printer and/or wireless access point (wireless router) antennas. Move your computer and/or printer Move the computer and/or printer closer to the wireless access point (wireless router). Although the possible distance between devices in 802.11b or 802.11g networks is 300 feet, the effective range for optimal performance is generally 100/150 feet. You can find the signal strength of the network on the network setup page. For information on how to print a setup page, see "Printing a network setup page" on page 50.

Check security keys Make sure security keys are correct. For more information, see "Check your security keys" on page 52.



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Check MAC address If your network uses MAC address filtering, provide the MAC address for the printer to your network.

If you need help finding the MAC address, see "Finding your MAC address" on page 64. Ping the wireless access point (wireless router) to make sure the network is working Windows users only 1 If you do not already know it, find the IP address of the access point. a Click: · In Windows XP: Start Programs or All Programs Accessories Command Prompt · In Windows Vista: The Start icon All Programs Accessories Command Prompt The Start icon looks like · b Type ipconfig. 54 c Press Enter. · The "Default Gateway" entry is typically the wireless access point (wireless router). · The IP address appears as four sets of numbers separated by periods, such as 192.168.0.100.

Your IP address might also start with the numbers 10 or 169. This is determined by your operating system or wireless network software. 2 Ping the wireless access point (wireless router). a Click: · In Windows XP: Start Programs or All Programs Accessories Command Prompt · In Windows Vista: The Start icon All Programs Accessories Command Prompt The Start icon looks like example: ping 192.168.

0.100 · b Type ping followed by a space and the IP address of the wireless access point (wireless router). For c Press Enter. 3 If the wireless access point (wireless router) responds, you will see several lines appear that start with "Reply from".

Turn off and restart the printer. 4 If the wireless access point (wireless router) does not respond, it will take several seconds and then you will see "Request timed out." Try the following: a Click: · In Windows XP: Start Settings or Control Panel Network Connection · In Windows Vista: The Start icon Control Panel Network and Internet Network and Sharing Center The Start icon looks like · b Select the appropriate connection from the ones shown. Note: If the computer is connected to the access point (router) by an Ethernet cable, the connection may not include the word "wireless" in its name. c Right-click the connection, and then click Repair. Macintosh users only 1 Check the status of AirPort and, if you do not already know it, find the IP address of the wireless access point (wireless router). a Click Apple menu System Preferences. b Click Network. c To check the network status, select Network Status in the Show pop-up menu.

The AirPort status indicator should be green. Green means the port is active (turned on) and connected. Notes: · Yellow means the port is active but is not connected. · Red means the port has not been configured. d Select AirPort in the Show pop-up menu, and click TCP/IP. · The "Router" entry is typically the wireless access point (wireless router). · The IP address appears as four sets of numbers separated by periods, such as 192.168.0.100.

Your IP address might also start with the numbers 10 or 169. This is determined by your operating system or wireless network software. 55 2 Ping the wireless access point (wireless router). a From the Applications folder, click the Utilities folder. b Double-click the Network Utility application.

c Type the IP address of the wireless access point (wireless router) in the network address field. For example: 10.168.0.100 d Click Ping.

3 If the wireless access point (wireless router) responds, you will see several lines that display the number of bytes received from the wireless access point (wireless router). This ensures that your computer is connected to the wireless access point (wireless router). 4 If the wireless access point (wireless router) does not respond, nothing is displayed. See the Mac Help for additional AirPort tips and information, or you can use Network Diagnostics to help resolve the problem. Run the wireless setup again If your wireless settings have changed, you must run the printer wireless setup again. Some reasons your settings may

have changed include your having manually changed your WEP or WPA keys, channel, or other network settings; or the wireless access point (wireless router) having been reset to factory defaults. Notes: · If you change network settings, change them on all the network devices before changing them for the wireless access point (wireless router). · If you have already changed the wireless network settings on your wireless access point (wireless router), you must change the settings on all the other network devices before you can see them on the network. Windows users only 1 Click Start Programs or All Programs

Lexmark 3500-4500 Series. 2 Click Wireless Setup.

Note: You may be prompted to connect the printer to the computer again using the installation cable as part of the setup process. 3 Follow the instructions on the computer screen. Macintosh users only 1 Open the Safari browser. 2 From the Bookmarks drop-down menu, select Show All Bookmarks. 3 Under Collections, select Bonjour or Rendezvous. Note: The application is referred to as Rendezvous in Macintosh OS X version 10.3, but is now called Bonjour by Apple Inc. 4 Double-click your printer model. Note: If your printer is not shown, manually type the IP address of the printer in the browser address field. For example: http://10.

168.0.101 5 Click Configuration. 6 Click Wireless. 56 7 Change these settings: a Enter the name of your network (SSID).

b For BSS Type, select Infrastructure if you are using a wireless router. c Select the type of security you use to protect your wireless network. Note: If you do not know this information, see the documentation that came with the wireless network, or contact the person who set up your wireless network. 8 Click Submit. Wireless network printer does not print These are possible solutions.

Try one or more of the following: Check power If the printer light is not on, see "Power button is not lit" on page 47. Check cable · Make sure the power cable is connected to the printer and to the electrical outlet. · Make sure the USB cable or the installation cable is not connected. Check Wi-Fi indicator light Make sure the Wi-Fi indicator light is green. If it is not green, see "Wi-Fi indicator light is orange" or "Wi-Fi indicator light is blinking orange during installation" in the "Wireless troubleshooting" section of the "Troubleshooting" chapter. Check that printer driver is installed Make sure the printer driver is installed on the computer from which you are sending the print job. 1 Click Start Programs or All Programs Lexmark 3500-4500 Series. If printer programs are listed, then your print driver is installed. 2 If printer programs are not listed, insert the printer CD into your computer. 3 Follow the instructions on the screen.

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



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Check if printer is connected to the wireless network 1 Print a network setup page. For more information, see "Printing a network setup page" on page 50. 2 Check to see if "Status: Connected" appears under Network Card. Reboot the computer Turn off and restart the computer. Check printer ports Make sure the correct printer port is selected. Windows users only 1 Click Start Control Panel Printers. 2 Right-click Lexmark XXXX where XXXX is the model series number of your printer. 3 Click Properties Ports. 4 Verify that XXXX\_Series\_nnnnnn\_P1 is selected, where XXXX is the model series number of your printer and nnnnnn is the last six numbers of the MAC address of your printer.

Note: The MAC address is located at the back of the printer beside the serial number. 5 If USB is selected instead: a Select the port name from step 4. b Click Apply. c Close the window, and try printing again. Mac users only 1 From the Finder window, click Go 2 Double-click Printer Setup Utility.

The Printer List dialog appears. Applications Utilities. 3 Verify that XXXX Series <MAC:nnnnnnnnnn> is the default printer, where XXXX is the model series number of your printer and nnnnnnnnnn is the 12-digit MAC address of your printer. Note: The MAC address is located at the back of the printer beside the serial number. 4 If USB is selected instead: a Select XXXX Series, where XXXX is the model series number of your printer.

b Click Make Default. c Close the window, and try printing again. Reinstall software Uninstall and then reinstall the printer software. Note: If more than one printer appears in the "Select your printer" list, pick the printer with the MAC address that matches the address on the back of your printer. Wireless printer is no longer working These are possible solutions. Try one or more of the following: Check power · If the printer light is not on, see "Power button is not lit" on page 47. · Make sure the wireless access point (wireless router) is on. Move your wireless access point (wireless router) to minimize interference There may be temporary interference from other devices such as microwaves or other appliances, cordless phones, baby monitors, and security system cameras. Make sure your wireless access point (wireless router) is not positioned too closely to these devices. Move your computer and/or printer Move the computer and/or printer closer to the wireless access point (wireless router).

Although the possible distance between devices in 802.11b or 802.11g networks is 300 feet, the effective range for optimal performance is generally 100-150 feet. You can find the signal strength of the network on the network setup page. For information on how to print a setup page, see "Printing a network setup page" on page 50. 58 Try adjusting external antennas Generally, antennas work best if they are pointing straight up. You may find, however, that reception improves if you experiment with different angles for your printer and/or wireless access point (wireless router) antennas. Check network name Make sure your network does not have the same name as another network near you. @@@@ If you set a new network name, you must reset the printer and computer SSID to the same network name. · To reset the computer network name, see the documentation that came with your computer.

· To reset the printer name: 1 Click Start Programs or All Programs Lexmark 3500-4500 Series. 2 Click Wireless Setup Utility. 3 Follow the instructions on the computer screen, and enter the new network name when prompted. Reboot the computer Turn off and restart the computer. Ping the wireless access point (wireless router) to make sure the network is working Windows users only 1 If you do not already know it, find the IP address of the wireless access point (wireless router).

a Click: · In Windows XP: Start Programs or All Programs Accessories Command Prompt · In Windows Vista: The Start icon All Programs Accessories Command Prompt The Start icon looks like . b Type ipconfig c Press Enter. · The "Default Gateway" entry is typically the wireless access point (wireless router). · The IP address appears as four sets of numbers separated by periods, such as 192.168.

0.100. Your IP address might also start with the numbers 10 or 169. This is determined by your operating system or wireless network software. 2 Ping the wireless access point (wireless router). a Click: · In Windows XP: Start Programs or All Programs Accessories Command Prompt · In Windows Vista: The Start icon All Programs Accessories Command Prompt The Start icon looks like example: ping 192.168.0.100 . b Type ping followed by a space and the IP address of the wireless access point (wireless router).

For c Press Enter. 59 3 If the wireless access point (wireless router) responds, you will see several lines appear that start with "Reply from". Turn off and restart the printer. 4 If the wireless access point (wireless router) does not respond, it will take several seconds and then you will see "Request timed out." Try the following: a Click: · In Windows XP: Start Settings or Control Panel Network Connection · In Windows Vista: The Start icon Control Panel Network and Internet Network and Sharing Center The Start icon looks like . b Select the appropriate connection from the ones shown. Note: If the computer is connected to the access point (router) by an Ethernet cable, the connection may not include the word "wireless" in its name. c Right-click on the connection, and click Repair. Macintosh users only 1 Check the status of AirPort and, if you do not already know it, find the IP address of the wireless access point (wireless router). a Click Apple menu System Preferences.

b Click Network. c To check the network status, select Network Status in the Show pop-up menu. The AirPort status indicator should be green. Green means the port is active (turned on) and is connected. Notes: · Yellow means the port is active but is not connected. · Red means the port has not been configured. d Select AirPort in the Show pop-up menu, and then click TCP/IP. · The "Router" entry is typically the wireless access point (wireless router). · The IP address appears as four sets of numbers separated by periods, such as 192.168.

0.100. Your IP address might also start with the numbers 10 or 169. This is determined by your operating system or wireless network software. 2 Ping the wireless access point (wireless router). a From the Applications folder, click the Utilities folder. b Double-click the Network Utility application. c Type the IP address of the wireless access point (wireless router) in the network address field. For example: 10.168.

0.100 d Click Ping. 3 If the wireless access point (wireless router) responds, you will see several lines that display the number of bytes received from the wireless access point (wireless router).



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