

Wireless Setup Guide



Edition notice

October 2008

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Setting up the printer

Follow these steps to set up your printer

Note: Do not connect cables until instructed.

⚠ CAUTION—POTENTIAL INJURY: See the enclosed *Safety Sheet* before making any cable or electrical connection.



- 1 Set up the printer hardware.
- 2 Decide how you want to connect the printer.

This guide includes three methods:

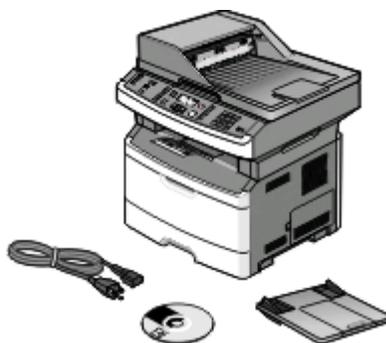
- Wireless
- Wired (Ethernet)
- Local (USB)

Setting up the printer hardware

⚠ CAUTION—POTENTIAL INJURY: The printer weight is greater than 18 kg (40 lbs) and requires two or more trained personnel to lift it safely.

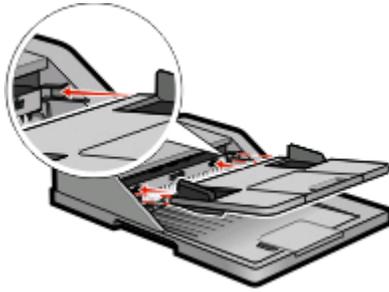


1



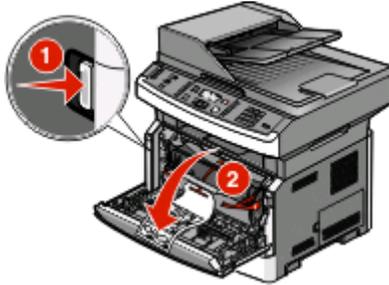
Unpack the printer and other components from the box.

2



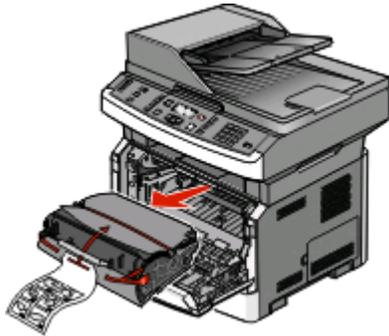
Install the ADF tray.

3



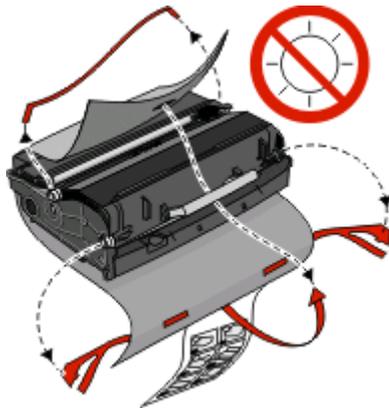
Press the door release button and lower the front door.

4



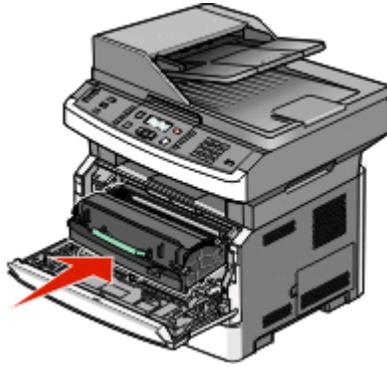
Remove the photoconductor kit and toner cartridge from the printer.

5



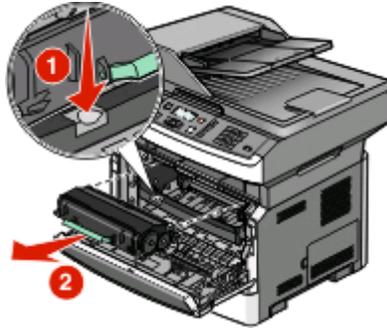
Remove the tape and packaging material.

6



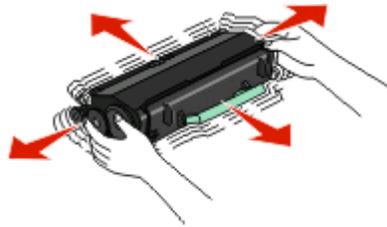
Reinsert the photoconductor kit and toner cartridge into the printer.

7



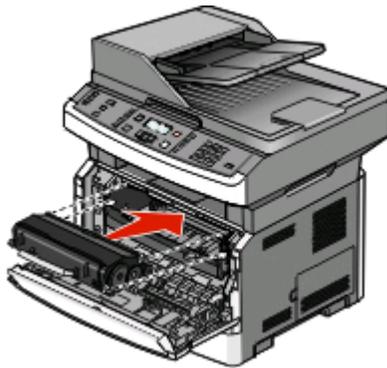
Press the button on the base of the photoconductor kit. Pull the toner cartridge up and out using the handle.

8



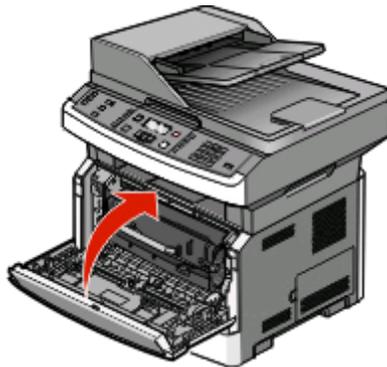
Firmly shake the cartridge side to side and front to back several times to distribute toner.

9



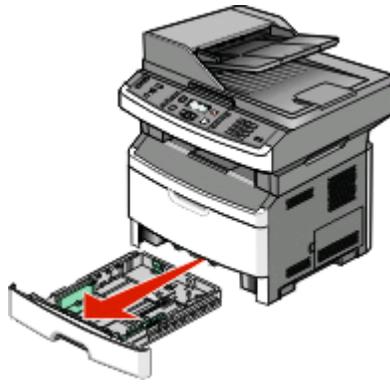
Insert the toner cartridge into the photoconductor kit by aligning the rollers on the toner cartridge with the tracks. Push the toner cartridge until it *clicks* into place.

10



Close the front door.

11



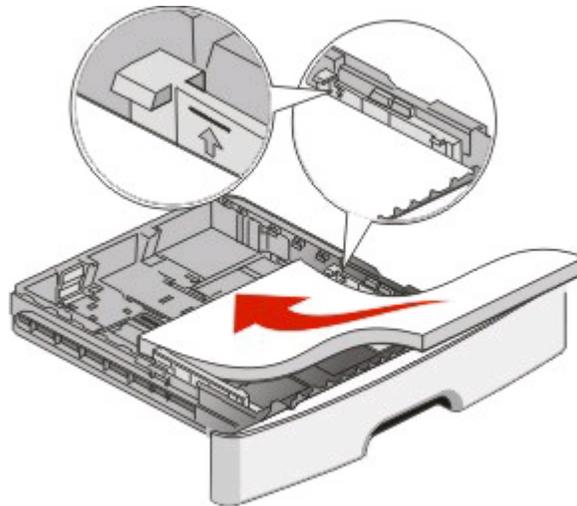
Pull the tray completely out.

12



Flex the sheets back and forth to loosen them, and then fan them. Do not fold or crease the paper. Straighten the edges on a level surface.

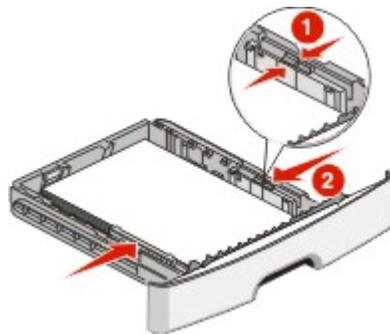
13



Load the paper with the recommended print side facedown.

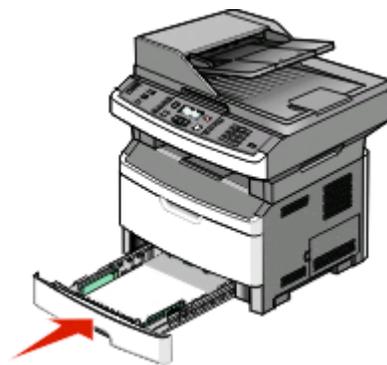
Note: Notice the maximum fill line. Do not overload the tray.

14



Squeeze and slide the guides to rest against the side of the stack.

15



Insert the tray.

Choosing a connection method

Note: Do not connect cables until instructed.



Connect to a wireless network using Windows

For detailed steps, see “Information you will need to set up the printer on a wireless network” on page 11 and “Installing the printer on a wireless network (Windows)” on page 13.

Connect to a wireless network using Macintosh

For detailed steps, see “Information you will need to set up the printer on a wireless network” on page 11 and “Installing the printer on a wireless network (Macintosh)” on page 15.

Connect directly to a computer using a USB cable

For detailed steps, see “Connecting using a USB cable” on page 30.

Connect to a wired network using an Ethernet cable

For detailed steps, see “Connecting using an Ethernet network” on page 32.

Preparing to connect wirelessly

Information you will need to set up the printer on a wireless network

Note: Do not connect the USB or network cables until prompted to do so by the setup software.

- **SSID**—The SSID is also referred to as the network name.
- **Wireless Mode (or Network Mode)**—The mode will be either infrastructure or ad hoc.
- **Channel (for ad hoc networks)**—The channel defaults to auto for infrastructure networks.

Some ad hoc networks will also require the auto setting. Check with your system support person if you are not sure which channel to select.

- **Security Method**—There are three basic options for Security Method:
 - WEP key
If your network uses more than one WEP key, enter up to four in the provided spaces. Select the key currently in use on the network by selecting the Default WEP Transmit Key.
or
 - WPA or WPA2 passphrase
WPA includes encryption as an additional layer of security. The choices are AES or TKIP. Encryption must be set for the same type on the router and on the printer or the printer will not be able to communicate on the network.
 - No security
If your wireless network does not use any type of security, you will not have any security information.

Note: Using an unsecured wireless network is not recommended.

If you are installing the printer on an 802.1X network using the Advanced method, then you may need the following:

- Authentication type
- Inner authentication type
- 802.1X username and password
- Certificates

Note: For more information on configuring 802.1X security, see the *Networking Guide on the Software and Documentation CD*.

Adding the printer to a network using MAC address filtering

Every network device has a unique hardware identification number to distinguish it from other network devices. This identification number is called the *Media Access Control (MAC)* address.

A list of MAC addresses can be set on a wireless router so that only those devices with matching MAC addresses can join the network. This is called *MAC address filtering*. When installing the printer on a network that uses MAC address filtering, be sure to add the printer MAC address to the list of addresses allowed by the wireless router. If this address is not specifically allowed on the wireless network, then the printer will not work wirelessly.

If the printer has a factory-installed internal print server, then the MAC address is a series of letters and numbers located on the MAC address sheet that came with the printer.

The MAC address appears in the following format:

00 : 04 : 12 : 34 : 56 : 78

Note: Print a network setup page if you cannot locate the printer MAC address. It will appear on the network setup page. For more information on printing a network setup page, see the *User's Guide* on the *Software and Documentation* CD.

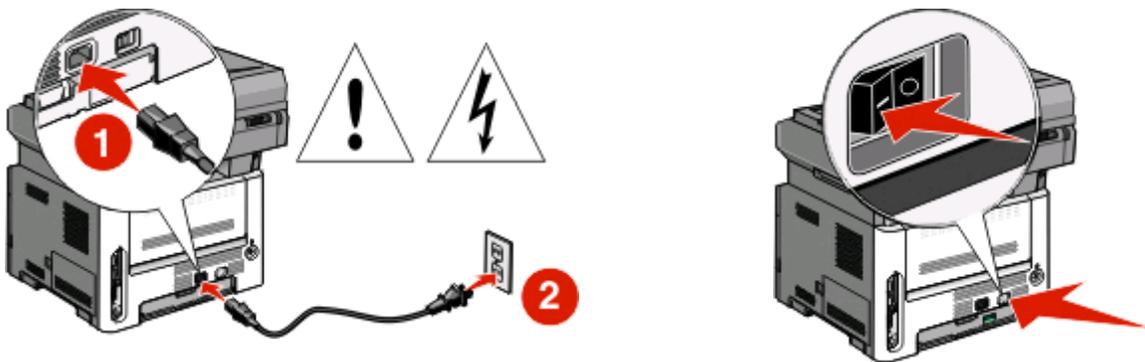
Connecting to a wireless network using Windows

Installing the printer on a wireless network (Windows)

Before you install the printer on a wireless network, make sure that:

- Your wireless network is set up and working properly.
- The computer you are using is connected to the same wireless network where you want to set up the printer.

1 Connect the power cable to the printer and then to a properly grounded electrical outlet, and then turn the printer on.



Note: For fax setup, see the *User's Guide* on the *Software and Documentation CD*.

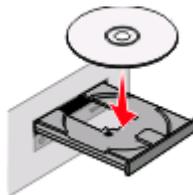


Make sure the printer and computer are fully on and ready.

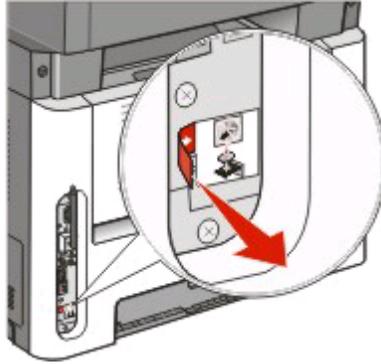


Do not connect the USB cable until instructed to do so on the screen.

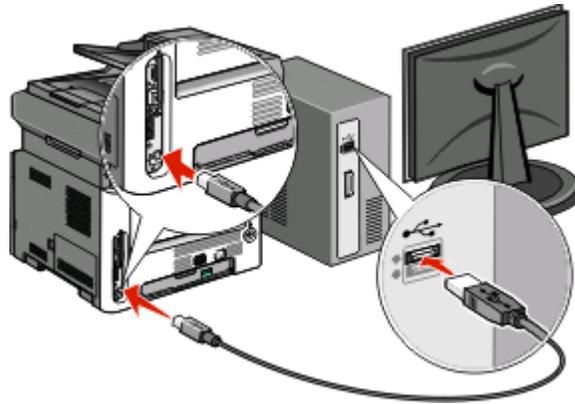
2 Insert the *Software and Documentation CD*.



- 3 Click **Install**.
- 4 Click **Agree**.
- 5 Click **Suggested**.
- 6 Click **Wireless Network Attach**.
- 7 Remove the yellow label covering the USB port on the back of the printer.



- 8 Temporarily connect a USB cable between the computer on the wireless network and the printer.



Notes:

- After the printer is configured, the software will instruct you to disconnect the temporary USB cable so you can print wirelessly.
 - If your printer has faxing capabilities, then connect the telephone cable.
- 9 Follow the on-screen instructions to complete the software installation.
Note: Basic is the recommended path to choose. Choose **Advanced** only if you want to customize your installation.
 - 10 To allow other computers on the wireless network to use the wireless printer, follow steps 2 through 6 and step 9 for each computer.

Connecting to a wireless network using Macintosh

Installing the printer on a wireless network (Macintosh)

Before you install the printer on a wireless network, make sure that:

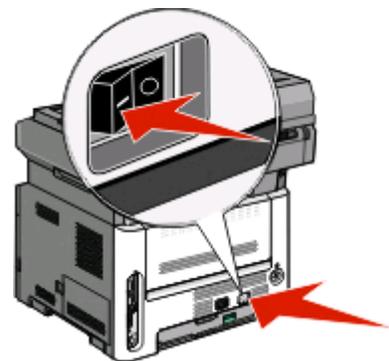
- Your wireless network is set up and working properly.
- The computer you are using is connected to the same wireless network where you want to set up the printer.

Prepare to configure the printer

- 1 Locate the printer MAC address on the sheet that came with the printer. Write the last six digits of the MAC address in the space provided below:

MAC address: _____

- 2 If your printer has faxing capabilities, then connect the telephone cable.
- 3 Connect the power cable to the printer, and then to a properly grounded electrical outlet, and then turn the printer on.



Enter the printer information

- 1 Access the AirPort options.

In Mac OS X version 10.5

- a From the Apple menu, choose **System Preferences**.
- b Click **Network**.
- c Click **AirPort**.

In Mac OS X version 10.4 and earlier

- a From the Go menu, choose **Applications**.
- b Double-click **Internet Connect**.

- c** From the toolbar, click **AirPort**.
- 2** From the Network pop-up menu, select **print server xxxxxx**, where the x's are the last six digits of the MAC address located on the MAC address sheet.
- 3** Open the Safari browser.
- 4** From the Bookmarks drop-down menu, select **Show**.
- 5** Under Collections, select **Bonjour** or **Rendezvous**, and then double-click the printer name.
Note: The application is referred to as *Rendezvous* in MAC OS X version 10.3, but is now called *Bonjour* by Apple Computer.
- 6** From the main page of the Embedded Web Server, navigate to the page where the wireless settings information is stored.

Configure the printer for wireless access

- 1** Type the name of your network (SSID) in the appropriate field.
- 2** Select **Infrastructure** as your Network Mode if you are using a wireless router.
- 3** Select the type of security you use to protect your wireless network.
- 4** Enter the security information necessary for the printer to join your wireless network.
- 5** Click **Submit**.
- 6** Open the AirPort application on your computer:

In Mac OS X version 10.5

- a** From the Apple menu, choose **System Preferences**.
- b** Click **Network**.
- c** Click **AirPort**.

In Mac OS X version 10.4 and earlier

- a** From the Go menu, choose **Applications**.
- b** Double-click **Internet Connect**.
- c** From the toolbar, click **AirPort**.

- 7** From the Network pop-up menu, select your wireless network.

Configure your computer to use the printer wirelessly

To print to a network printer, each Macintosh user must install a custom *PostScript Printer Description* (PPD) file and create a printer in the Print Center or Printer Setup Utility.

- 1** Install a PPD file on the computer:
 - a** Insert the *Software and Documentation* CD in the CD or DVD drive.
 - b** Double-click the installer package for the printer.
 - c** From the Welcome screen, click **Continue**.
 - d** Click **Continue** again after viewing the Readme file.

- e** Click **Continue** after viewing the license agreement, and then click **Agree** to accept the terms of the agreement.
 - f** Select a Destination, and then click **Continue**.
 - g** From the Easy Install screen, click **Install**.
 - h** Type the user password, and then click **OK**.
All necessary software is installed on the computer.
 - i** Click **Close** when installation is complete.
- 2** Add the printer:
- a** For IP printing:

In Mac OS X version 10.5

- 1** From the Apple menu, choose **System Preferences**.
- 2** Click **Print & Fax**.
- 3** Click **+**.
- 4** Select the printer from the list.
- 5** Click **Add**.

In Mac OS X version 10.4

- 1** From the Go menu, choose **Applications**.
- 2** Double-click **Utilities**.
- 3** Locate and double-click **Printer Setup Utility** or **Print Center**.
- 4** From the Printer List, choose **Add**.
- 5** Select the printer from the list.
- 6** Click **Add**.

- b** For AppleTalk printing:

In Mac OS X version 10.5

- 1** From the Apple menu, choose **System Preferences**.
- 2** Click **Print & Fax**.
- 3** Click **+**.
- 4** Click **AppleTalk**.
- 5** Select the printer from the list.
- 6** Click **Add**.

In Mac OS X version 10.4

- 1** From the Go menu, choose **Applications**.
- 2** Double-click **Utilities**.
- 3** Locate and double-click **Print Center** or **Printer Setup Utility**.
- 4** From the Printer List, choose **Add**.
- 5** Choose the **Default Browser** tab.
- 6** Click **More Printers**.
- 7** From the first pop-up menu, choose **AppleTalk**.
- 8** From the second pop-up menu, choose **Local AppleTalk zone**.

- 9 Select the printer from the list.
- 10 Click **Add**.

Troubleshooting wireless setup

For more information on networking terms and concepts, see the *User's Guide* on the *Software and Documentation* CD.

Wireless troubleshooting checklist

Before beginning to troubleshoot the wireless printer, verify that:

- The printer is turned on and plugged into a working outlet.
- The SSID is correct.
Print a network setup page to verify the SSID the printer is using.
If you are not sure if the SSID is correct, then run the wireless setup again.
- The security information is correct (if your network is secure).
If you are not sure if your security information is correct, then run the wireless setup again.
- The wireless network is working properly.
Try accessing other computers on the wireless network.
If the network has Internet access, then try connecting to the Internet over a wireless connection.
- The encryption method (AES or TKIP) is the same for the printer as it is for the wireless access point (on networks using WPA security).
- The printer is within the range of the wireless network.
For most networks, the printer should be within 100 feet (30 meters) of the wireless access point (wireless router).
- The printer is located away from obstacles that could block the wireless signal.
Remove any large metal objects between the access point and the printer.
Make sure the printer and wireless access point are not separated by poles, walls, or support columns containing metal or concrete.
- The printer is located away from other electronic devices that may interfere with the wireless signal.
Many devices can interfere with the wireless signal, including baby monitors, motors, cordless phones, security system cameras, other wireless networks, and some Bluetooth devices.
- The printer driver is installed on the computer from which you are performing a task.
- The correct printer port is selected.
- The computer and printer are both connected to the same wireless network.

Printing a network setup page

A network setup page lists the configuration settings of the printer, including the IP address and MAC address. This information is very helpful when troubleshooting the network configuration of the printer.

For more information on printing a network setup page, see the *User's Guide* on the *Software and Documentation* CD.

Cannot print over the wireless network

If you encountered problems while installing, or if your printer does not appear in the printers folder or as a printer option when sending a print job, then you can try uninstalling and reinstalling the software.

These are possible solutions. Try one or more of the following:

MAKE SURE YOUR COMPUTER IS CONNECTED TO YOUR WIRELESS ACCESS POINT (WIRELESS ROUTER)

- See if you have access to the Internet by opening your Web browser and accessing any site.
- If there are other computers or resources on your wireless network, then check to see if you can access them from your computer.

MOVE THE COMPUTER AND/OR PRINTER CLOSER TO THE WIRELESS ROUTER

Although the possible distance between devices in 802.11b or 802.11g networks is 300 feet, the maximum range for optimal performance is generally 100–150 feet.

MOVE YOUR ACCESS POINT 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 access point is not positioned too closely to these devices.

CHECK WHETHER THE PRINTER IS ON THE SAME WIRELESS NETWORK AS THE COMPUTER

Print a network setup page. Refer to the documentation that came with your printer for details on printing a network setup page.

Make sure the SSID the printer is using matches the wireless network SSID. If you are not sure how to find the network SSID, use one of the following:

Using Windows

- 1 Type the IP address of the wireless access point in the address field of your Web browser.

If you do not know the IP address of the wireless access point:

- a Open a command prompt:

In Windows Vista

- 1 Click .
- 2 Click **All Programs → Accessories**.
- 3 Click **Command Prompt**.

In Windows XP and earlier

- 1 Click **Start**.
- 2 Click **All Programs** or **Programs → Accessories → Command Prompt**.

b Type `ipconfig`.

c Press **Enter**.

- The “Default Gateway” entry is typically the wireless access point.
- 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 Type your user name and password for the wireless access point when prompted.

3 Click **OK**.

4 On the main page, click **Wireless** or another selection where settings are stored. The SSID appears.

5 Write down the SSID, security type, and the WEP key/WPA passphrase (if shown).

Note: Make sure you copy the network information down exactly, including any capital letters.

6 Store the SSID and the WEP key or WPA passphrase in a safe place for future reference.

Using Macintosh with an AirPort base station

In Mac OS X version 10.5

1 From the Apple menu, choose **System Preferences**.

2 Click **Network**.

3 Click **AirPort**.

The SSID of the network the computer is connected to is displayed in the Network Name pop-up menu.

4 Write down the SSID.

In Mac OS X version 10.4 and earlier

1 From the Go menu, choose **Applications**.

2 From the Applications folder, double-click **Internet Connect**.

3 From the toolbar, click **AirPort**.

The SSID of the network the computer is connected to is displayed in the Network pop-up menu.

4 Write down the SSID.

Using Macintosh with a wireless access point

1 Type the IP address of the wireless access point in the address field of your Web browser, and continue to Step 2.

If you do not know the IP address of the wireless access point, then you can find it:

In Mac OS X version 10.5

a From the Apple menu, choose **System Preferences**.

b Click **Network**.

c Click **AirPort**.

d Click **Advanced**.

e Click **TCP/IP**.

The "Router" entry is typically the wireless access point.

In Mac OS X version 10.4 and earlier

a From the Apple menu, choose **System Preferences**.

b Click **Network**.

c From the Show pop-up menu, choose **Airport**.

d Click **TCP/IP**.

The "Router" entry is typically the wireless access point.

2 Type your user name and password when prompted.

3 Click **OK**.

4 On the main page, click **Wireless** or another selection where settings are stored. The SSID will appear.

5 Write down the SSID, security type, and the WEP key/WPA passphrase (if shown).

Notes:

- Make sure you copy the network information down exactly, including any capital letters.
- Store the SSID and the WEP key or WPA passphrase in a safe place for future reference.

CHECK YOUR WEP KEY OR WPA PASSPHRASE

If your wireless access point is using Wireless Equivalent Privacy (WEP) security, then the WEP key should be:

- Exactly 10 or 26 hexadecimal characters. Hexadecimal characters are A–F, a–f, and 0–9.

or

- Exactly 5 or 13 ASCII characters. ASCII characters are letters, numbers, and symbols found on a keyboard. ASCII characters in a WEP key are case-sensitive.

If your wireless access point is using Wi-Fi Protected Access (WPA) security, then the WPA passphrase should be:

- From 8 to 63 ASCII characters. ASCII characters in a WPA passphrase are case-sensitive.

or

- Exactly 64 hexadecimal characters. Hexadecimal characters are A–F, a–f, and 0–9.

Note: If you do not know this information, then see the documentation that came with the wireless network, or contact the person who set up your wireless network.

DISCONNECT FROM VPN SESSION

When you are connected to another network through a VPN connection, you will not be able to access the printer over your wireless network. End your VPN session, and try printing again.

CHECK YOUR ADVANCED SECURITY SETTINGS

- If you are using MAC address filtering to limit access to your wireless network, then you must add the printer MAC address to the list of addresses allowed to connect to the wireless access point.
- If you set the wireless access point to issue a limited number of IP addresses, then you must change this so that the printer can be added.

Note: If you do not know how to make these changes, then see the documentation that came with the wireless network, or contact the person who set up your wireless network.

Communication with printer lost when connected to Virtual Private Network (VPN)

You will lose your connection to a wireless printer on your local network when connected to most *Virtual Private Networks* (VPNs). Most VPNs let users communicate with only the VPN and no other network at the same time. To connect to your local network and to a VPN at the same time, the system support person for the VPN must enable *split tunneling*. Be aware that some organizations will not allow split tunneling due to security or technical concerns.

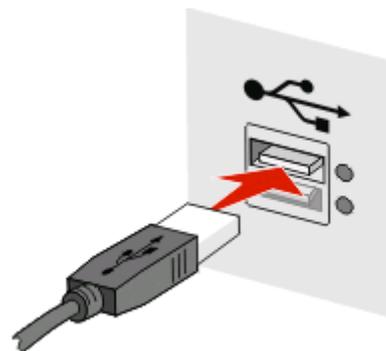
Wireless configuration does not continue after the USB cable is attached

Check the USB cable

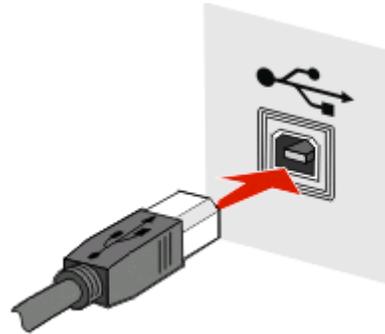
If the configuration software does not let you continue configuring your printer wirelessly after you attach the USB cable, then there may be a problem with the cable. Try one or more of the following:

- Make sure that the USB cable is not damaged. If there is any visible damage to the USB cable, try using a new one.
- Attach the cable directly to the computer and the printer. Hubs, switch boxes, and docking stations can sometimes interfere with the USB connection.
- Make sure the USB cable is correctly attached:

- 1 Attach the large, rectangular connector to any USB port on your computer. USB ports may be on the front or the back of the computer, and may be horizontal or vertical.



- 2 Attach the small, square connector to the printer.



WEP key or WPA pre-shared key not valid

ERROR MADE WHEN ENTERING KEY

- Carefully retype the key.
- Verify that the key has the correct number and type of characters.

WEP key

A valid WEP key must be:

- Exactly 10 or 26 hexadecimal characters. Hexadecimal characters are A–F, a–f, and 0–9.
- or*
- Exactly 5 or 13 ASCII characters. ASCII characters are letters, numbers, and symbols found on a keyboard.

WPA pre-shared key

A valid WPA pre-shared key must be:

- From 8 to 63 ASCII characters. ASCII characters in a WPA pre-shared key are case-sensitive.
- or*
- Exactly 64 hexadecimal characters. Hexadecimal characters are A–F, a–f, and 0–9.

Note: ASCII keys are case-sensitive. Be sure to include any capital letters.

Network does not appear in the Wireless Networks list

There are several reasons why the target network might not appear in the list of networks during printer setup.

NETWORK DOES NOT BROADCAST ITS SSID

Some networks will not appear in the network list because they do not broadcast their SSIDs.

- 1 Select **I want to enter a different network**.
- 2 Click **Next**.

- 3 Enter the SSID, wireless mode, and channel (if ad hoc is selected) information.
- 4 Click **Next**, and then continue the installation.

THE PRINTER WILL BE MOVED TO A REMOTE NETWORK

- It is not necessary to access the wireless network from the Wireless Networks list if the setup and security information for that network is correct.
- Continue setting up the printer. It will join the remote network when it is moved within proximity of that network.
 - 1 Select **I want to enter a different network**.
 - 2 Click **Next**, and then complete the required network information.

Note: The Wireless Setup Utility will report that the setup was unsuccessful on the last screen, but the printer will be configured correctly for the remote network. To avoid viewing this screen, use the Advanced installation method and select **Do not verify the printer can join the network (for remote installations)**.

THE PRINTER OR INSTALLING COMPUTER IS TOO FAR AWAY FROM THE ACCESS POINT

- Move the printer and/or the computer closer to the access point.
- Add another access point if wireless coverage is necessary in a new area.

THE WIRELESS NETWORK IS NOT FUNCTIONING

Confirm that the network equipment is functioning properly:

- Attempt to connect to other resources on the network.
- Try pinging or logging into the access point.

Note: If you are unable to communicate with devices on the wireless network, then there is a problem with either the configuration of the computer or the wireless network. Contact your system support person, or refer to your access point documentation for assistance.

THERE IS RF (RADIO FREQUENCY) INTERFERENCE BETWEEN THE WIRELESS ACCESS POINT AND THE INSTALLING COMPUTER

Limit the sources of RF interference between the wireless access point and the installing computer by rearranging the network and items in the signal path. Sources of RF interference include:

- Microwave ovens
- Cordless phones
- Ham radios
- Bluetooth devices
- Garage door openers
- Security cameras

Note: Changing the wireless channel that the access point broadcasts on can help resolve interference issues.

THERE IS AN OBJECT BLOCKING THE SIGNAL BETWEEN THE PRINTER AND THE ACCESS POINT

The wireless signal can also be distorted or blocked by objects in the path between the access point and the printer.

- Interior support columns, or walls made of metal or concrete
- Floors
- Room dividers or cubicle walls made of metal
- Large metal filing cabinets, desks, bookcases, or other large metal objects
- Objects containing a large percentage of water, including fish tanks, large plants, stacks of paper, and crowds of people

Note: Place the access point above or in front of any obstacles.

THERE ARE TOO MANY DEVICES ON THE WIRELESS NETWORK

A wireless device will communicate on the network only when no other device is communicating. Too many computers, printers, and other wireless devices can cause a wireless network to be so busy that a new device is unable to send or receive information.

- Adding another access point can help resolve this issue.
- Configure the printer for the network, manually entering all network information. The printer may work properly after it is configured for the network.
- Try turning off a few wireless devices to reduce network traffic.

Wireless Setup Utility unable to communicate with printer

These are possible solutions. Try one or more of the following:

Make sure the printer is turned on

- Verify that the printer is turned on and the power light is on.
- Verify that the printer is plugged into a functioning power strip or electrical outlet.

Note: If the power indicator light is not on, then the printer does not have power.

Check the USB connection

- Verify that the USB cable is attached to both the computer and the printer.
- Verify that the square end of the USB cable, and not the flattened, rectangular end, is plugged into the printer.
- Unplug the USB cable, and then plug it in again.
- Try a different USB port on the computer. USB ports can be on the back or on the front of the computer.
- Try a different USB cable.

Wireless Setup Utility stops responding during wireless printer configuration

If the Wireless Setup Utility stops responding during the wireless configuration process, then restart the computer. Insert the *Software and Documentation* CD, and run the Wireless Setup Utility again.

Printer does not print after wireless configuration completes

These are possible solutions. Try one or more of the following:

MAKE SURE THE PRINTER IS TURNED ON

- Verify that the printer is turned on and the power light is on.
- Verify that the printer is plugged into a functioning power strip or outlet.

VERIFY THAT THE PRINTER IS READY

- Check the status of the printer, and verify that it is ready to print.
- If it is not ready, then turn the printer off and back on again.

DISABLE THIRD-PARTY FIREWALLS

- If a non-Microsoft software firewall is installed on the computer, then try temporarily disabling it. Check to see if you can print with the firewall disabled. Re-enable the firewall, and then continue to troubleshoot.
- Update any non-Microsoft firewall software on the computer.
- Add any programs associated with the printer to the firewall *whitelist*.

VERIFY THAT THE WIRELESS NETWORK IS WORKING PROPERLY

- Try to access other devices on the wireless network to confirm that the network is functioning.
- Contact the system support person to confirm that the network is functioning correctly.

VERIFY THAT THE CORRECT PORT OR PRINTER IS SELECTED

- If you are attempting to print wirelessly, then verify that the USB port is not selected.
- If you have more than one instance of the printer installed, then verify that the correct printer is selected.

VERIFY THAT WINDOWS IS WORKING PROPERLY

- Try restarting the computer.
- Try installing the printer driver again.
- Try uninstalling and then reinstalling the printer driver.

VERIFY THAT THE PRINTER IS WORKING

- Insert the *Software and Documentation* CD, and then set up the printer using a USB connection.
- If the printer works over a USB connection, then the printer is working properly.

MAKE SURE THE PRINTER DRIVER IS INSTALLED ON THE PRINTER

All computers that print to the wireless printer must first have the printer driver installed.

Insert the *Software and Documentation* CD, and then install the printer driver.

Cannot print and there is a firewall on the computer

Third-party (non-Microsoft) firewalls can interfere with wireless printing. If the printer and computer are configured correctly, and the wireless network is working, but the printer will not print wirelessly, then a firewall could be the problem. If there is a firewall (other than the Windows firewall) on the computer, then try one or more of the following:

- Update the firewall using the most recent update available from the manufacturer. For instructions on how to do this, see the documentation that came with your firewall.
- If programs request firewall access when you install the printer or try to print, then make sure you allow those programs to run.
- Temporarily disable the firewall, and then install the wireless printer on the computer. Re-enable the firewall when you have completed the wireless installation.

Network printer does not show up in the printer selection list during installation

MAKE SURE THE PRINTER IS ON THE SAME WIRELESS NETWORK AS THE COMPUTER

The SSID of the printer must match the SSID of the wireless network.

Find the network SSID

- 1 Type the IP address of your wireless access point into the address field of your browser.
 - a If you do not know the IP address of the wireless access point, then do one of the following:

In Windows Vista

- 1 Click .
- 2 Click **All Programs → Accessories**.
- 3 Click **Command Prompt**.

In Windows XP and earlier

- 1 Click **Start**.
- 2 Click **All Programs** or **Programs → Accessories → Command Prompt**.

- b Type `ipconfig`.

c Press **Enter**.

- The “Default Gateway” entry is typically the access point.
- The IP address appears as four sets of numbers separated by periods, such as 192.168.1.1.

2 Type the user name and password for the access point when prompted.

3 Click **OK**.

4 Locate the page where the SSID appears.

5 Write down the SSID, security type, and the WEP key or WPA passphrase, if they are shown.

Note: Make sure you copy them down exactly, including any capital letters.

Run the Wireless Setup Utility again

1 Do one of the following:

- In Windows Vista, click .
- In Windows XP and earlier, click **Start**.

2 Click **All Programs** or **Programs**, and then select the printer program folder from the list.

3 Click **Wireless Setup Utility**.

Note: If the Wireless Setup Utility is not installed on the computer, then insert the *Software and Documentation* CD, and follow the wireless installation path.

4 Follow the instructions on the computer screen, including typing in the SSID of the wireless access point and the WEP key or WPA passphrase when prompted.

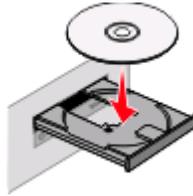
Note: You may be prompted to connect the printer to the computer again using the USB cable as part of the setup process.

5 Store the SSID and the WEP key or WPA passphrase in a safe place for future reference.

Connecting using a USB cable

USB setup and connection

1 Insert the *Software and Documentation* CD.



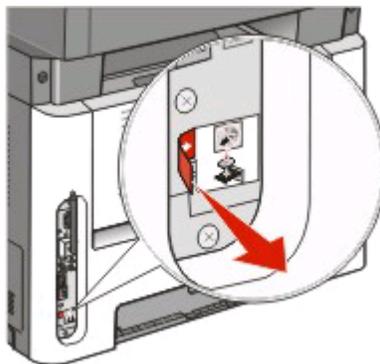
2 Click **Install**.

3 Click **Agree**.

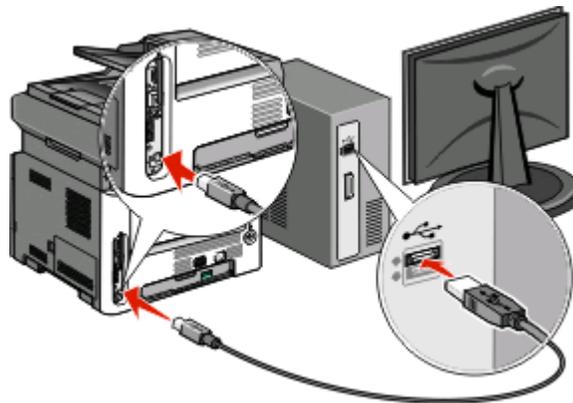
4 Click **Suggested**.

5 Click **Local Attach**.

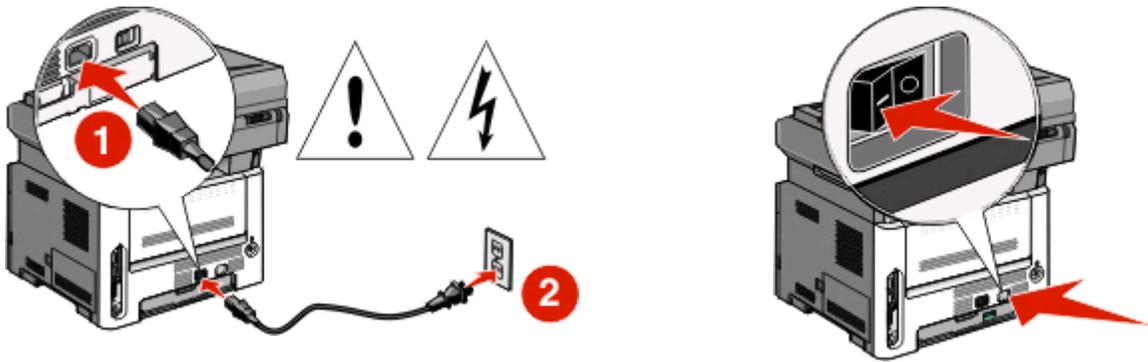
6 Remove the yellow label covering the USB port on the back of the printer.



7 Connect the USB cable to a USB port on the computer and the USB port on the back of the printer.



8 Connect the power cable to the printer and then to a properly grounded electrical outlet, and then turn the printer on.



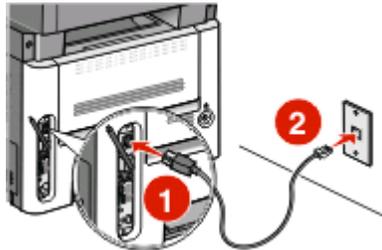
9 Follow the on-screen instructions to complete the USB configuration.

Note: For information on telephone and fax setup, see the *User's Guide* on the *Software and Documentation CD*.

Connecting using an Ethernet network

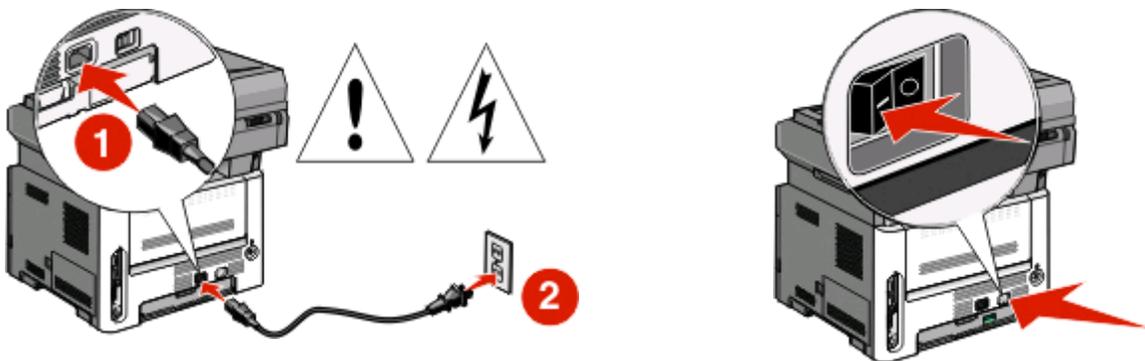
Wired setup and connection

- 1 Connect the Ethernet cable to the printer and to an active Ethernet port on the network.

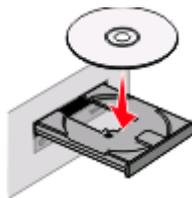


Make sure the computer you are using to configure the printer is attached to a working network port on the same network as the printer.

- 2 Connect the power cable to the printer and then to a properly grounded electrical outlet, and then turn the printer on.



- 3 Insert the *Software and Documentation* CD.



- 4 Click **Install**.
- 5 Click **Agree**.
- 6 Click **Suggested**.
- 7 Click **Wired Network Attach**.
- 8 Follow the on-screen instructions to complete the wired configuration.

Note: For information on telephone and fax setup, see the *User's Guide* on the *Software and Documentation* CD.

Networking glossary

ad hoc mode	A setting for a wireless device that lets it communicate directly with other wireless devices without an access point or router
ad hoc network	A wireless network that does not use an access point
AutoIP address	An IP address automatically assigned by a network device. If the device is set to use DHCP, but no DHCP server is available, an AutoIP address may be assigned by the device.
BSS (Basic Service Set)	Basic Service Set describes the type of wireless network that you are using. The BSS type can be one of the following: Infrastructure network or Ad-Hoc network.
channel	A specific radio frequency used by two or more wireless devices to communicate with each other. All devices on the network must use the same channel.
DHCP (Dynamic Host Configuration Protocol)	A language used by DHCP servers
DHCP IP address	An IP address automatically assigned by a DHCP server
DHCP server	A computer or router that gives a unique IP address to each device on the network. Unique addresses prevent conflicts.
infrastructure mode	A setting for a wireless device that lets it communicate directly with other wireless devices using an access point or router
internal wireless print server	A device that lets computers and printers talk to each other over a network without cables
IP (Internet Protocol) address	The network address of a computer or printer. Each device on the network has its own network address. The address may be assigned manually by you (Static IP address), automatically by the DHCP server (DHCP IP address), or automatically by the device (AutoIP address).
ipconfig	A command that displays the IP address and other network information of a Windows computer
MAC (Media Access Control) address	A hardware address that uniquely identifies each device on a network.
MAC filtering	A method of limiting access to your wireless network by specifying which MAC addresses may communicate on the network. This setting may be specified on wireless routers or access points.
network adapter/card	A device that lets computers or printers talk to each other over a network
network hub	A device that connects multiple devices on a wired network
network name	See "SSID (Service Set Identifier)" on page 34.
ping	A test to see if your computer can communicate with another device.
printer nickname	The name you assign to your printer so that you and others can identify it on the network
router	A device that shares a single Internet connection with multiple computers or other devices. The basic router controls network traffic.
security key	A password, such as a WEP key or a WPA pass phrase, used to make a network secure

signal strength	Measure of how strongly a transmitted signal is being received
SSID (Service Set Identifier)	The name of a wireless network. When you connect a printer to a wireless network, the printer needs to use the same SSID as the network. Also referred to as network name or BSS (Basic Service Set).
Static IP address	An IP address assigned manually by you
switch	A device similar to a network hub that can connect different networks together
UAA (Universally Administered Address)	An address assigned to a network printer or print server by the manufacturer. To find the UAA, print a network setup page and look for the UAA listing.
USB cable	A lightweight, flexible cable that lets the printer communicate with the computer at much higher speeds than parallel cables
USB port	A small, rectangular port on the back of the computer that connects the peripheral devices using a USB cable, and lets them communicate at high speeds
WEP (Wired Equivalent Privacy)	A security setting that helps prevent unauthorized access to a wireless network. Other possible security settings are WPA and WPA2.
wireless access point	A device that connects wireless devices together to form a wireless network
wireless router	A router that also serves as a wireless access point
Wi-Fi	An industry term that describes the technology used to create an interoperable wireless local area network (WLAN)
WPA (Wi-Fi Protected Access)	A security setting that helps prevent unauthorized access to a wireless network. WPA is not supported on ad hoc wireless networks. Other possible security settings are WEP and WPA2.
WPA2	A newer version of WPA. Older routers are less likely to support this. Other possible security settings are WPA and WEP.

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