

WF-8090 User's Guide

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WF-8090 User's Guide

Welcome to the WF-8090 *User's Guide*.

For a printable PDF copy of this guide, [click here](#).

Product Basics

See these sections to learn about the basic features of your product.

[Using the Control Panel](#)

[Product Parts Locations](#)

[Using Eco Mode](#)

[Epson Connect Solutions for Smartphones, Tablets, and More](#)

[Using AirPrint](#)

[Using Google Cloud Print](#)

Using the Control Panel

See these sections to learn about the control panel and select control panel settings.

[Control Panel Buttons and Lights](#)

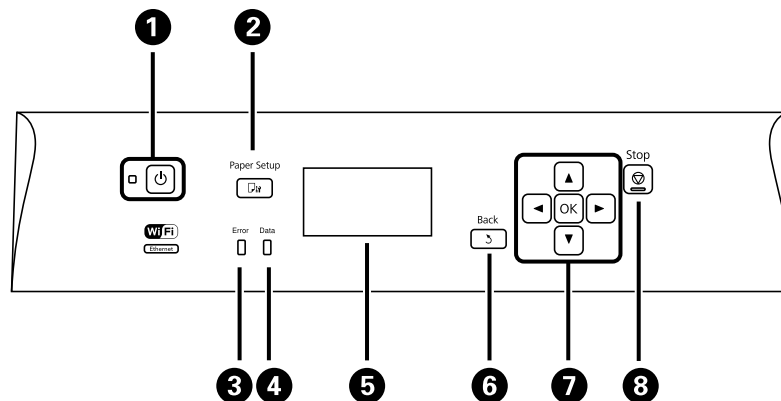
[Setting a Password and Locking the Control Panel](#)

[Changing LCD Screen Language](#)

[Adjusting the Screen Contrast](#)

Parent topic: [Product Basics](#)

Control Panel Buttons and Lights



- 1 The  power button and light
- 2 The  **Paper Setup** button
- 3 The **Error** light
- 4 The **Data** light
- 5 The LCD screen
- 6 The  **Back** button
- 7 The arrow buttons and the **OK** button
- 8 The  **Stop** button

Status Icons

Parent topic: [Using the Control Panel](#)

Status Icons

Status icons may be displayed on the LCD screen depending on the product's status.

Icons	Description
	There is no Ethernet connection.
	An Ethernet connection has been established.
	A Wi-Fi network error has occurred or the product is searching for a connection.
	A Wi-Fi connection has been established. The number of bars indicates the connection's signal strength.
	An Ad hoc connection has been established.
	A Wi-Fi Direct mode connection has been established.
	A Simple AP mode connection has been established.
	One of the Eco Mode settings is enabled.

Parent topic: [Control Panel Buttons and Lights](#)

Setting a Password and Locking the Control Panel

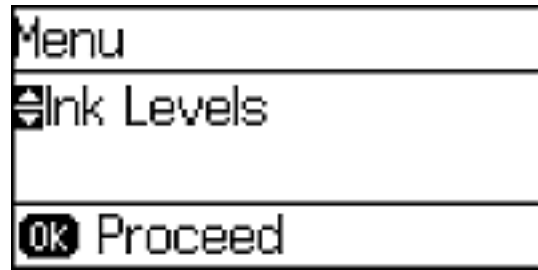
You can set an administrator password to lock the following control panel settings:

- System Administration Setup settings
- Eco mode settings

When the control panel is locked, you must enter the password to access any of the locked settings.

1. Press the arrow buttons to select **Menu** and press the **OK** button.

You see a screen like this:



2. Select **Admin Settings** and press the **OK** button.
3. Select **Admin Password** and press the **OK** button.
4. Select **Register** and press the **OK** button.

You see a screen like this:



5. Use the control panel buttons to enter a password and press the **OK** button.

6. Enter your password again to confirm.
7. Press the **OK** button.
8. Select **Lock Setting** and press the **OK** button.
9. Select **On** and press the **OK** button.

Note: If you forget your password, contact Epson support for assistance.

[Entering Characters on the LCD Screen](#)

Parent topic: [Using the Control Panel](#)

Entering Characters on the LCD Screen

Follow these guidelines to enter characters for passwords and other settings.



- To enter letters or symbols, press the up or down arrow buttons to scroll through characters, and press the right arrow button to select one.
- To enter numbers or change the case of letters, press the  **Stop** button.
- To delete the previous character, press the left arrow button.
- To enter a space, press the right arrow button.

Parent topic: [Setting a Password and Locking the Control Panel](#)

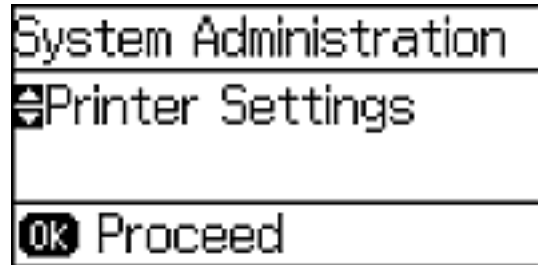
Changing LCD Screen Language

You can change the language used on the LCD screen.

Note: This setting can be locked by an administrator. If you cannot access or change this setting, contact your administrator for assistance.

1. Press the arrow buttons to select **Menu** and press the **OK** button.
2. Select **System Administration** and press the **OK** button. Enter the administrator password, if necessary.

You see a screen like this:



3. Select **Common Settings** and press the **OK** button.
4. Select **Language** and press the **OK** button.
5. Select a language and press the **OK** button.

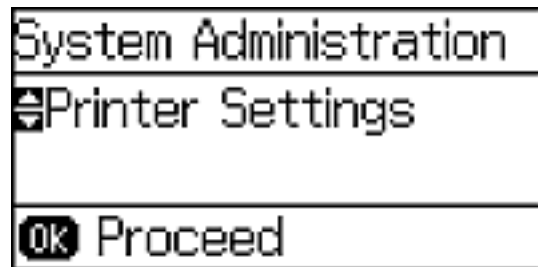
Parent topic: [Using the Control Panel](#)

Adjusting the Screen Contrast

You can adjust the contrast of the LCD screen.

1. Press the arrow buttons to select **Menu** and press the **OK** button.
2. Select **System Administration** and press the **OK** button. Enter the administrator password, if necessary.

You see a screen like this:



3. Select **Common Settings** and press the **OK** button.
4. Select **LCD Contrast** and press the **OK** button.
5. Press the up or down arrow buttons to adjust the screen contrast.
6. Press the **OK** button to exit.

Parent topic: [Using the Control Panel](#)

Product Parts Locations

See these sections to identify the parts on your product.

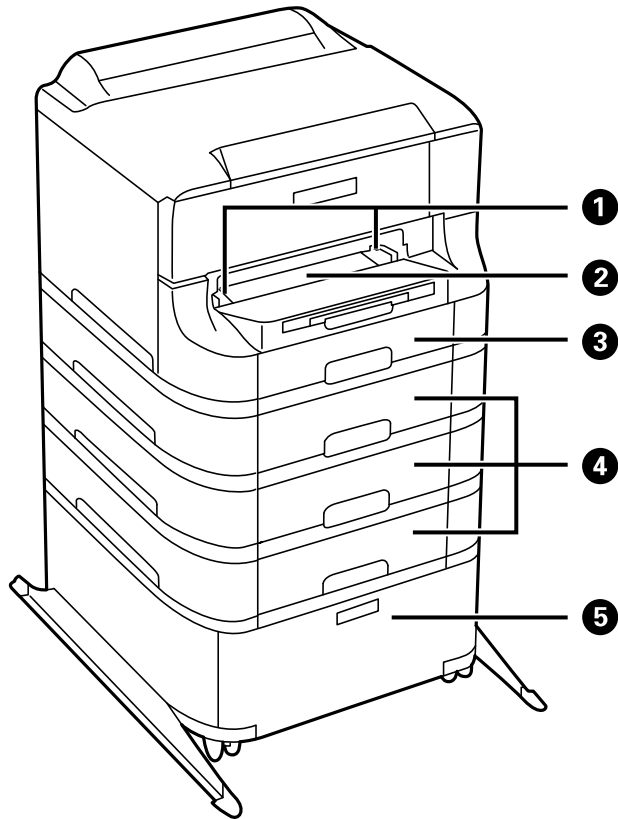
[Product Parts - Front](#)

[Product Parts - Inside](#)

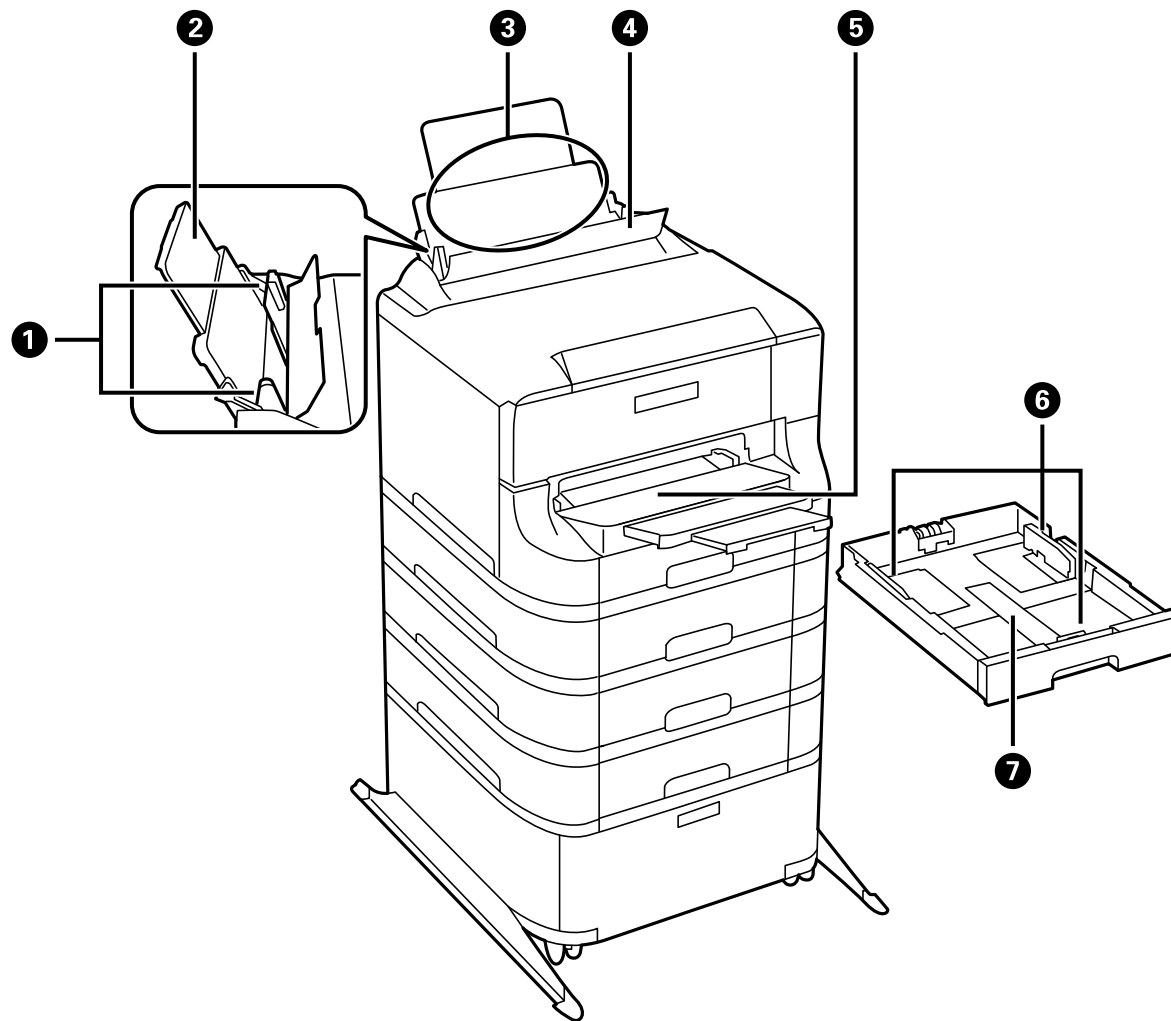
[Product Parts - Back](#)

Parent topic: [Product Basics](#)

Product Parts - Front



- 1 Edge guides
- 2 Front paper feed slot (B2)
- 3 Paper cassette 1 (C1)
- 4 Optional paper cassettes 2 to 4 (C2 to C4)
- 5 Optional cabinet

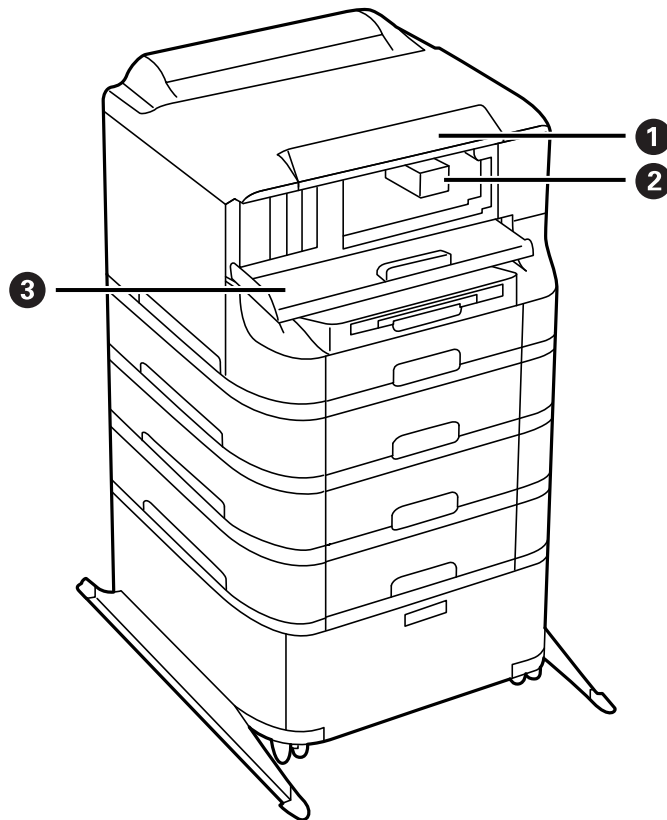


- 1 Edge guides
- 2 Paper support
- 3 Rear paper feed slot (B1)
- 4 Feeder guard

- 5 Output tray
- 6 Edge guides
- 7 Paper cassette

Parent topic: [Product Parts Locations](#)

Product Parts - Inside

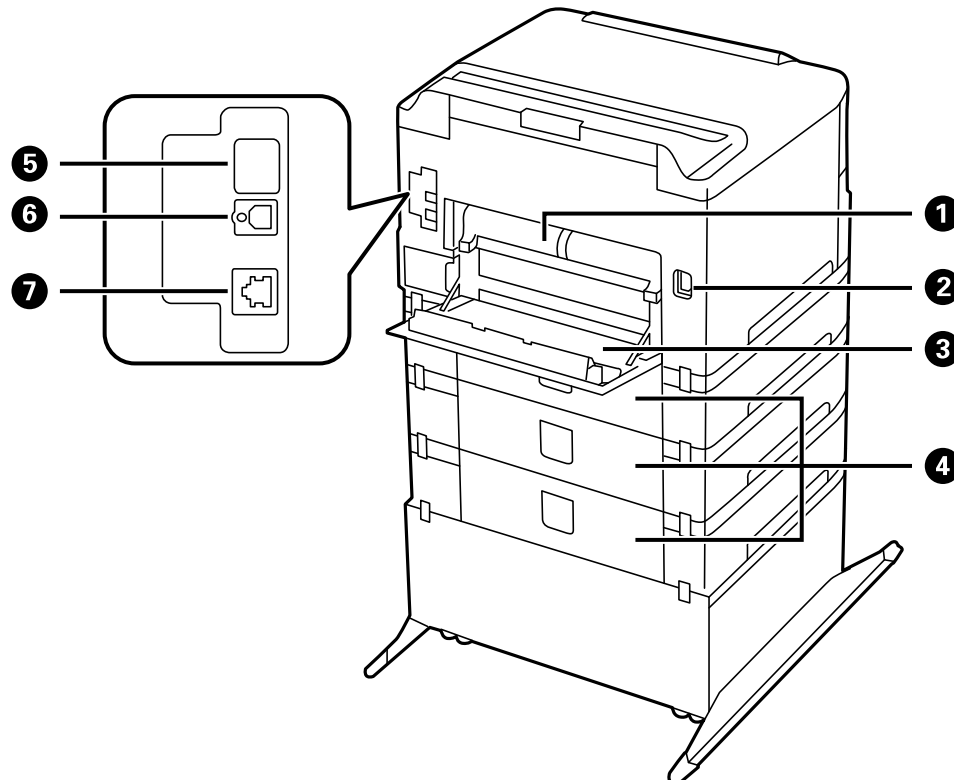


- 1 Control panel
- 2 Print head

3 Front cover (A)

Parent topic: [Product Parts Locations](#)

Product Parts - Back



- 1 Rear cover 2 (D2)
- 2 AC inlet
- 3 Rear cover 1 (D1)
- 4 Rear cover (E)
- 5 Service USB port (do not remove sticker)

6 **USB** port

7 **LAN** port

Parent topic: [Product Parts Locations](#)

Using Eco Mode

Your product enters sleep mode automatically and turns off the LCD screen if it is not used for a period of time. You can make the time period shorter and select other options to save energy and resources.

[Changing the Eco Settings](#)

[Changing the Sleep Timer Settings](#)

[Changing the Power Off Timer Settings](#)

Parent topic: [Product Basics](#)

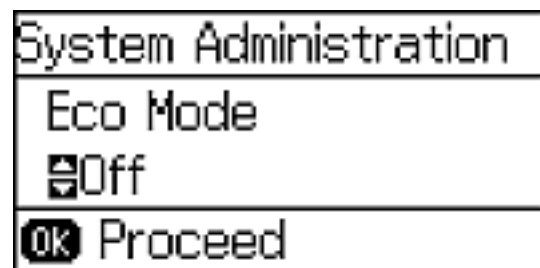
Changing the Eco Settings

You can use the product control panel to change the Eco settings.

Note: The Sleep Timer setting in Eco Mode overrides the Sleep Timer setting in Common Settings. This setting can be locked by an administrator. If you cannot access or change this setting, contact your administrator for assistance.

1. Press the arrow buttons to select **Menu** and press the **OK** button.
2. Select **System Administration** and press the **OK** button. Enter the administrator password, if necessary.
3. Select **Eco Mode** and press the **OK** button.

You see a screen like this:



4. Select **On** and press the **OK** button.
5. Press the up arrow button.
6. Change settings as necessary.
7. Press the **OK** button to exit.

You see the  icon on the LCD screen to indicate that Eco settings are enabled.

Parent topic: [Using Eco Mode](#)

Related tasks

[Changing the Sleep Timer Settings](#)

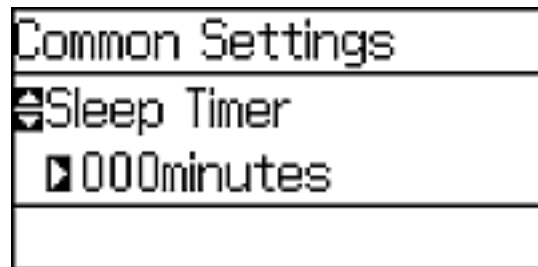
Changing the Sleep Timer Settings

You can adjust the time period before your product enters sleep mode and turns off the LCD screen.

Note: The Sleep Timer setting in Eco Mode overrides the Sleep Timer setting in Common Settings. This setting can be locked by an administrator. If you cannot access or change this setting, contact your administrator for assistance.

1. Press the arrow buttons to select **Menu** and press the **OK** button.
2. Select **System Administration** and press the **OK** button. Enter the administrator password, if necessary.
3. Select **Common Settings** and press the **OK** button.
4. Select **Sleep Timer** and press the **OK** button.

You see a screen like this:



5. Press the up or down arrow buttons to increase or reduce the number of minutes.

6. Press the left or right arrow buttons to move the cursor.
7. Press the **OK** button to exit.

Parent topic: [Using Eco Mode](#)

Related tasks

[Changing the Eco Settings](#)

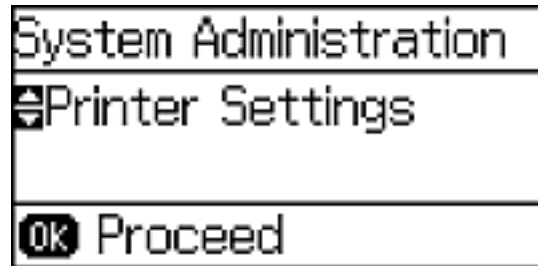
Changing the Power Off Timer Settings

You can have the product turn off automatically if it is not used for a specified period of time.

Note: This setting can be locked by an administrator. If you cannot access or change this setting, contact your administrator for assistance.

1. Press the arrow buttons to select **Menu** and press the **OK** button.
2. Select **System Administration** and press the **OK** button. Enter the administrator password, if necessary.

You see a screen like this:



3. Select **Common Settings** and press the **OK** button.
4. Select **Power Off Timer** and press the **OK** button.
5. Select a time period between **30minutes** and **12h** (12 hours), and press the **OK** button.

Parent topic: [Using Eco Mode](#)

Epson Connect Solutions for Smartphones, Tablets, and More

You can print documents, photos, emails, and web pages from your home, office, or even across the globe. You can use your smartphone, tablet, or computer. Epson offers these solutions to print from anywhere: Epson Email Print, Epson iPrint Mobile App, and Epson Remote Print.

[Using Epson Email Print](#)

[Using the Epson iPrint Mobile App](#)

[Using Epson Remote Print](#)

Parent topic: [Product Basics](#)

Using Epson Email Print

With Epson Email Print, you can print from any device that can send email, such as your smartphone, tablet, or laptop. Just activate your product's unique email address. When you want to print, attach a PDF, Microsoft Office document, or photo to an email and send it to your product.

1. Set up your product for network printing as described in this manual. See the link below.
2. If you did not already set up Email Print when you installed your product software, visit epson.com/connect to learn more about Email Print, check compatibility, and get detailed setup instructions.
3. Send an email with attachments to your product's Email Print address.

Note: Both the email and any attachments print by default. You can change these printing options by logging into your Epson Connect account.

Parent topic: [Epson Connect Solutions for Smartphones, Tablets, and More](#)

Related topics

[Wi-Fi or Wired Networking](#)

Using the Epson iPrint Mobile App

Use this free Apple and Android app to print to nearby Epson networked products. The Epson iPrint Mobile App lets you print PDFs, Microsoft Office documents, photos, and web pages over a wireless network.

1. Set up your product on a network as described in this manual. See the link below.
2. Visit epson.com/connect to learn more about Epson iPrint and check the compatibility of your mobile device.

3. Download Epson iPrint from the Apple App Store or Google Play.
4. Connect your mobile device to the same wireless network that your product is using.
5. Print from your mobile device to your Epson product.

Parent topic: [Epson Connect Solutions for Smartphones, Tablets, and More](#)

Related topics

[Wi-Fi or Wired Networking](#)

Using Epson Remote Print

With Epson Remote Print software on your Windows computer or laptop, you can print to an Epson Email-enabled product anywhere in the world.

1. Set up your product for network printing as described in this manual. See the link below.
2. Visit epson.com/connect to learn more about Remote Print and how to download the software.
3. Download and install the Remote Print software.
4. Obtain the email address and optional access key of the Epson product you want to use for printing, and enter this address during Remote Print setup.
5. Select the print command in your application and choose the Remote Print driver for your Epson product.

Parent topic: [Epson Connect Solutions for Smartphones, Tablets, and More](#)

Related topics

[Wi-Fi or Wired Networking](#)

Using AirPrint

AirPrint allows you to wirelessly print to your AirPrint-enabled product from your iOS device running the latest version of iOS, and from your Mac running OS X 10.7 or later.



1. Set up your product for wireless printing as described in this manual. See the link below.
2. Connect your Apple device to the same wireless network that your product is using.

3. Print from your device to your product.

Note: For details, see the AirPrint page on the Apple website.

Parent topic: [Product Basics](#)

Related topics

[Wi-Fi or Wired Networking](#)

Using Google Cloud Print

With a Google Account, you can print from your Apple or Android device to your Epson product. You can also print from Chromebooks and the Google Chrome browser without drivers or cables.

Set up your Epson product for network printing as described in this manual. See the link below.

Note: Make sure your Epson printer and computer are connected to the same network before starting the Google Cloud Print setup.

1. Connect your device to the same network that your Epson product is using.
2. Print a network status sheet.
3. Locate your product's IP address on the network status sheet.
4. Enter the IP address into the address bar of a web browser.
5. Select the **Google Cloud Print Services** option.

Note: If you don't see the **Google Cloud Print Services** option, turn your product off and back on. If the option still doesn't appear, select the **Firmware Update** option and follow the on-screen instructions to update your product.

6. Click **Register**.
7. Select the checkbox to agree to the Usage Advisory and click **Next**.
8. Click **OK** to launch the sign-in page.
A separate browser window opens.
9. Enter your Google Account username and password and click **Sign in**, or, if you don't have an account, click **Sign up for a new Google Account** and follow the on-screen instructions.
10. Click **Finish printer registration** to complete setup and print a test page.

Your product is now linked to your Google Account and can be accessed from any Chromebook, computer, Apple or Android device with Internet access. Visit [Epson Support](#) for more information on using Google Cloud Print, or the [Google Cloud Print](#) website for a list of [supported apps](#).

[Setting Up Google Cloud Print on a Chromebook](#)

Parent topic: [Product Basics](#)

Related topics

[Wi-Fi or Wired Networking](#)

Setting Up Google Cloud Print on a Chromebook

With a Google Account, you can print from a Chromebook without drivers or cables.

Set up your Epson product for network printing as described in this manual. See the link below.

Note: Make sure your Epson product is connected to your wireless network before starting the Google Cloud Print setup.

1. Turn on your Chromebook and connect it to the same wireless network as your product.

Note: See your Chromebook's documentation for details on connecting to a network.

2. Do one of the following:

- Click **Add to Cloud Print** in the notification that appears in the corner of your Chromebook screen.

Note: If you do not see a notification, check to see if a number appears in the status area at the lower-right corner of the screen. Click this number to open the notifications menu, then click **Add to Cloud Print**.

- Open a web browser and enter **chrome://devices** in the address bar. Skip to step 4.

3. Click **Add Device**.
4. Click the **Register** button that appears next to your product.
5. Click **Register** on the confirmation screen. Your product's LCD screen displays a confirmation message.
6. Select **OK** or press the **OK** button on your product to confirm the Google Cloud Print connection and print a test page.

Your product is now linked to your Google Account and can be accessed from any Chromebook, iPhone, or Android phone with Internet access. For more information on using Google Cloud Print, visit [Epson Support](#).

Parent topic: [Using Google Cloud Print](#)

Related topics

[Wi-Fi or Wired Networking](#)

Wi-Fi or Wired Networking

See these sections to use your product on a Wi-Fi or wired network.

[Wi-Fi Infrastructure Mode Setup](#)

[Wi-Fi Direct Mode Setup](#)

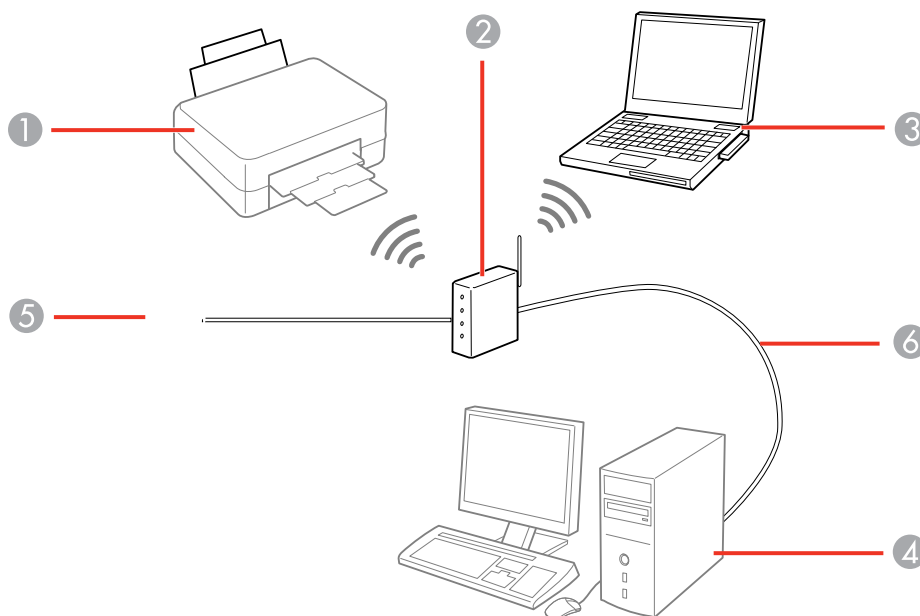
[Wi-Fi Protected Setup \(WPS\)](#)

[Printing a Network Status Sheet](#)

[Changing or Updating Network Connections](#)

Wi-Fi Infrastructure Mode Setup

You can set up your product to communicate with your computer using a wireless router or access point. The wireless router or access point can be connected to your computer over a wireless or wired network.



- 1 Epson product
- 2 Wireless router or access point

- 3 Computer with a wireless interface
- 4 Computer
- 5 Internet
- 6 Ethernet cable (used only for wired connection to the wireless router or access point)

[Selecting Wireless Network Settings From the Control Panel](#)

Parent topic: [Wi-Fi or Wired Networking](#)

Selecting Wireless Network Settings From the Control Panel

You can select or change wireless network settings using your product control panel.

To install your product on a wireless network, follow the instructions on the *Start Here* sheet and install the necessary software. The installer program guides you through network setup.

Note: Breakdown or repair of this product may cause loss of network data and settings. Epson is not responsible for backing up or recovering data and settings during or after the warranty period. We recommend that you make your own backup or print out your network data and settings.

1. Press the arrow buttons to select **Wi-Fi Setup** and press the **OK** button.

You see this screen:



2. Select **Wi-Fi Setup Wizard** and press the **OK** button.

Note: If you need to disable the wireless network to set up your product on an Ethernet network, press the down arrow button, select **Disable Wi-Fi**, and press the **OK** button. Then follow the instructions on changing to a wired network connection in this guide.

3. Select the name of your wireless network and press the **OK** button.

Note: To enter the wireless network name manually, select **Other Networks** and press the **OK** button. Use the printer's buttons to enter your network name.

4. Enter your wireless password using the control panel buttons.



Note: The network name and password are case sensitive. Be sure to correctly enter uppercase and lowercase letters, and numeric or special characters.

- To enter letters or symbols, press the up or down arrow buttons to scroll through characters, and press the right arrow button to select one.
 - To enter numbers or change the case of letters, press the  **Stop** button.
 - To delete the previous character, press the left arrow button.
 - To enter a space, press the right arrow button.
5. Press the **OK** button when you're finished entering your password.
 6. Confirm the displayed network settings and press the **OK** button to save them.

Note: If you need to change a setting, press the  **Back** button.

7. If you want to print a network setup report, press the down arrow button, select **Print connection report**, and press the **OK** button. (Otherwise, press the **OK** button.)

If the Wi-Fi connection symbol isn't lit or does not appear on the LCD screen, you may have selected the wrong network name or entered the password incorrectly. Repeat these steps to try again.

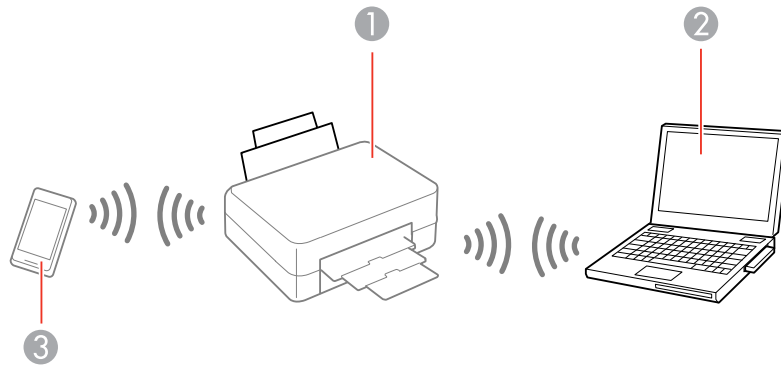
Parent topic: [Wi-Fi Infrastructure Mode Setup](#)

Related references

[Status Icons](#)

Wi-Fi Direct Mode Setup

You can set up your product to communicate directly with your computer or another device without requiring a wireless router or access point.



- 1 Epson product
- 2 Computer with a wireless interface
- 3 Other wireless device

Your product automatically selects one of these modes to communicate with your computer or device:

Access point mode

If your product is not already connected to a wireless network, it enters access point mode and the product itself acts as the network access point for up to 4 devices. When operating in this mode, your product displays an **AP** connection symbol on the LCD screen.

Peer-to-peer mode

If your product is already connected to a wireless network, it enters peer-to-peer mode and disconnects from any other networks. This also disables any other product features requiring access to the Internet. When operating in this mode, your product displays a **Direct** or **D** connection symbol on the LCD screen.

Note: To disconnect a peer-to-peer mode connection, release the connection to your product from your computer or other device. Your product will reconnect to the previously used network.

[Enabling Wi-Fi Direct Mode](#)

Parent topic: [Wi-Fi or Wired Networking](#)

Related references

[Status Icons](#)

Enabling Wi-Fi Direct Mode

You can enable Wi-Fi Direct mode to allow direct communication between your product and a computer or other devices without a wireless router or access point.

Note: You may need to enable the Wi-Fi Direct setting in the **Advanced Settings** menu before you can enable Wi-Fi Direct mode.

1. Press the arrow buttons to select **Wi-Fi Setup** and press the **OK** button.

You see this screen:



2. Select **Wi-Fi Direct Setup** and press the **OK** button.
3. Select **Connection Setup** and press the **OK** button.
4. Select **Change Password** and press the **OK** button.
5. Press the **OK** button.

Note: If you have already connected devices or computers to your product via Wi-Fi Direct, they will be disconnected when you change the password.

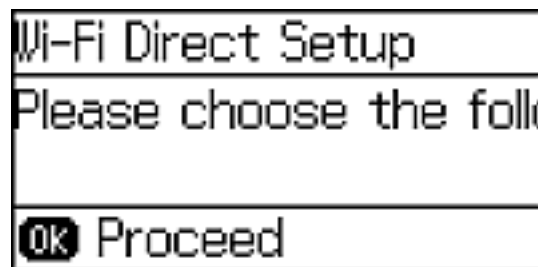
6. Enter a new Wi-Fi Direct password using the control panel buttons.

Note: Your password must be at least 8 and no more than 22 characters long.



- To enter letters or symbols, press the up or down arrow buttons to scroll through characters, and press the right arrow button to select one.
 - To enter numbers or change the case of letters, press the  **Stop** button.
 - To delete the previous character, press the left arrow button.
 - To enter a space, press the right arrow button.
7. Press the **OK** button when you're finished entering your password.
 8. Press the up arrow button.

You see this screen:



9. Press the **OK** button to view the SSID (Wi-Fi network name) and password.
10. Use your computer or wireless device to select the Wi-Fi network name (SSID) displayed on the LCD screen, and enter the password shown.

11. Press the **↶ Back** button to exit.

You see either the **AP** or **D** connection symbol on the LCD screen and should be able to print directly to your product from your computer or device.

Note: If the **AP** or **D** connection symbol is not displayed on the LCD screen, Wi-Fi Direct mode is not enabled. Repeat these steps to try again.

Parent topic: [Wi-Fi Direct Mode Setup](#)

Related references

[Status Icons](#)

Wi-Fi Protected Setup (WPS)

If your network uses a WPS-enabled wireless router or access point, you can quickly connect your product to the network using Wi-Fi Protected Setup (WPS).

Note: To check if your router is WPS-enabled, look for a button labeled **WPS** on your router or access point. If there is no hardware button, there may be a virtual WPS button in the software for the device. Check your network product documentation for details.

[Using WPS to Connect to a Network](#)

Parent topic: [Wi-Fi or Wired Networking](#)

Using WPS to Connect to a Network

If you have a WPS-enabled wireless router or access point, you can use Wi-Fi Protected Setup (WPS) to connect your product to the network.

1. Press the arrow buttons to select **Wi-Fi Setup** and press the **OK** button.

You see this screen:



2. Select **Push Button Setup (WPS)** and press the **OK** button.
3. Follow the instructions on the LCD screen to complete WPS setup.
4. Press the **↶ Back** button to exit.

Your product should now be connected to the network.

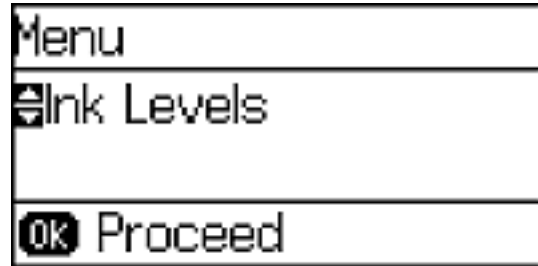
Parent topic: [Wi-Fi Protected Setup \(WPS\)](#)

Printing a Network Status Sheet

You can print a network status sheet to help you determine the causes of any problems you may have using your product on a network.

1. Press the arrow buttons to select **Menu** and press the **OK** button.

You see this screen:



2. Select **Network Status** and press the **OK** button.
3. Select **Wi-Fi/Network Status** and press the **OK** button.

You see a screen like this:



4. Press the **OK** button to print the network status sheet.
5. Press the up arrow button to begin printing the network status sheet.

Examine the settings shown on the network status sheet to diagnose any problems you have.

Parent topic: [Wi-Fi or Wired Networking](#)

Changing or Updating Network Connections

See these sections to change or update how your product connects to a network.

[Accessing the Web Config Utility](#)

[Changing a USB Connection to a Wi-Fi Connection](#)

[Changing a Wi-Fi Connection to a Wired Network Connection](#)

[Connecting to a New Wi-Fi Router](#)

[Disabling Wi-Fi Features](#)

Parent topic: [Wi-Fi or Wired Networking](#)

Accessing the Web Config Utility

You can select your product's network settings and confirm its operating status using a web browser. You do this by accessing your product's built-in Web Config utility from a computer or other device that is connected to the same network as your product.

Note: For more information on the Web Config utility see the [Administrator's Guide](#).

1. Print a network status sheet.
2. Locate the IP Address for your product that is listed on the network status sheet.
3. On a computer or other device connected to the same network as your product, open a web browser.
4. Enter your product's IP address into the address bar.

You see the available Web Config utility options.

Parent topic: [Changing or Updating Network Connections](#)

Related tasks

[Printing a Network Status Sheet](#)

Changing a USB Connection to a Wi-Fi Connection

If you have already connected your product to your computer using a USB connection, you can change to a Wi-Fi connection or add a Wi-Fi connection to print wirelessly.

1. Do one of the following:
 - If you want to use only a Wi-Fi connection, disconnect the USB cable from your product. With Windows, also uninstall your product software.
 - If you want to add a Wi-Fi connection in addition to a USB connection, leave the USB cable connected to your product.
2. Download and install your product software from the Epson website using the instructions on the *Start Here* sheet.

Parent topic: [Changing or Updating Network Connections](#)

Changing a Wi-Fi Connection to a Wired Network Connection

If you have already connected your product to your computer wirelessly, you can change to a wired network connection if necessary.

1. Disable your product's Wi-Fi features.
2. Connect one end of an Ethernet network cable to the product's **LAN** port.
3. Connect the other end to any available LAN port on your router or access point.
4. Uninstall your product software.
5. Download and install your product software from the Epson website.
6. Follow the on-screen instructions to install the software.
7. When you see the Select Your Connection screen, select **Wired network connection**.
8. If you see a Select Setup Option screen, select **Setup printer for the first time**.
9. Continue following the rest of the on-screen instructions.

Parent topic: [Changing or Updating Network Connections](#)

Related tasks

[Disabling Wi-Fi Features](#)

Connecting to a New Wi-Fi Router

If you change the wireless router you have been using on your network, you need to update your product's Wi-Fi connection to the new router.

Note: If you switch to a 5 GHz wireless router, set the router to operate in dual band (2.4 GHz and 5 GHz) mode. See your router documentation for instructions.

1. Do one of the following:
 - **Windows:** Uninstall your product software.
 - **OS X:** Go to the next step.
2. Download and install your product software from the Epson website using the instructions on the *Start Here* sheet.

Parent topic: [Changing or Updating Network Connections](#)

Related tasks

[Uninstalling Printing Software - Standard Epson Printer Software - Windows](#)

Disabling Wi-Fi Features

You may need to disable your product's Wi-Fi features if you change your network connection type or need to solve a problem with your network connection.

Note: Before disabling Wi-Fi features, make a note of your product's SSID (network name) and password, and any network settings selected for the Epson Connect services you may use.

1. Press the arrow buttons to select **Wi-Fi Setup** and press the **OK** button.

You see this screen:



2. Select **Disable Wi-Fi** and press the **OK** button.
3. Press the up arrow button to disable Wi-Fi.

Parent topic: [Changing or Updating Network Connections](#)

Enabling Epson Universal Print Driver (PCL) or PostScript Printing

Before enabling Epson Universal Print Driver (PCL) or PostScript printing on your product, make sure you have installed the software as described on the *Start Here* sheet.

To download the Epson Universal Print Driver or PostScript drivers, go to epson.com/support/wf8090.

[Selecting PDL \(Page Description Language\) Settings](#)

[Selecting Printer Language and Interface Settings](#)

[Printing a PS3 \(PostScript\) Status Sheet](#)

Selecting PDL (Page Description Language) Settings

You can select settings for PCL and PostScript printing using the control panel on the product.

Note: These settings can be locked by an administrator. If you cannot access these settings, contact your administrator for assistance.

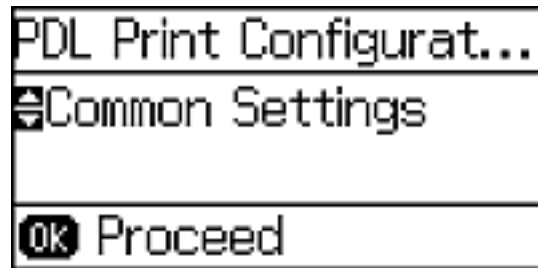
1. Press the arrow buttons to select **Menu** and press the **OK** button.

You see a screen like this:



2. Select **System Administration** and press the **OK** button. Enter the administrator password, if necessary.
3. Select **Universal Print Settings** and press the **OK** button.
4. Select **PDL Print Configuration** and press the **OK** button.

You see a screen like this:



5. Select an option, then select the settings you want to use.

[PDL Print Configuration Options](#)

Parent topic: [Enabling Epson Universal Print Driver \(PCL\) or PostScript Printing](#)

PDL Print Configuration Options

Select the **PDL Print Configuration** options you want to use for PCL or PostScript printing.

PDL Print Configuration option	Available settings	Description
Common Settings		
Paper Size	Various sizes	Sets the default paper size for PCL or PostScript printing.
Paper Type	Various paper types	Sets the default paper type for PCL or PostScript printing.
Orientation	Portrait	Sets the default orientation for PCL or PostScript printing.
	Landscape	
Quality	Draft	Sets the quality for PCL or PostScript printing.
	Standard	
	Best	
Ink Save Mode	On/Off	Saves ink by reducing print density.

PDL Print Configuration option	Available settings	Description
Print Order	Last Page on Top	Starts printing from the first page of a file.
	First Page on Top	Starts printing from the last page of a file.
Number of Copies	1 to 999	Selects the number of copies to print.
Binding Margin	Left Edge	Specifies the binding edge for double-sided documents.
	Top Edge	
Auto Paper Ejection	On/Off	Ejects paper automatically when printing is stopped during a print job.
2-Sided Printing	On/Off	Selects duplex printing.
PCL Menu		
Font Source	Resident	Uses a font preinstalled on the printer.
	Download	Uses a font you have downloaded.
Font Number	1 to 111	Selects the default font number for the default font source.
Pitch	0.44 to 99.99 cpi	Selects the default font pitch if the font is scalable and fixed-pitch (availability depends on font source and number settings).
Height	4.00 to 999.75 pt	Selects the default font height if the font is scalable and proportional (availability depends on font source and number settings).
Symbol Set	Various	Selects the default symbol set. If the selected font is not available for the selected symbol set, the font source and number are replaced with IBM-US (the default setting).
Form	5 to 128 lines	Sets the number of lines for the selected paper size and orientation. Changes the line spacing (VMI) stored in the printer. Later changes in page size or orientation cause changes in the Form value based on the stored VMI.

PDL Print Configuration option	Available settings	Description
CR Function	CR	Selects the line feed command when printing with a driver from a specific operating system.
	CR+LF	
LF Function	LF	
	CR+LF	
Paper Source Assign	4	Makes the paper source select command compatible with HP LaserJet 4
	4K	Makes the paper source select command compatible with HP LaserJet 4000, 5000, and 8000
	5S	Makes the paper source select command compatible with HP LaserJet 5S
PS3 Menu		
Error Sheet	On/Off	Prints a sheet showing the status when errors occur during PostScript or PDF printing.
Coloration	Color	Selects the color mode for PostScript printing.
	Mono	
Image Protect	On/Off	Disable to lower the print quality automatically if the printer's memory becomes full.
Binary	On/Off	Enable when printing files that contain binary images (available when the product is connected to the network). Allows you to print binary images even if the driver is set to ASCII.
Text Detection	On/Off	Converts a text file to a PostScript file when printing (available when Printing Language is set to PS3).
PDF Page Size	Various sizes	Selects the paper size when printing a PDF file. If Auto is selected, the paper size is determined based on the size of the first page.

Parent topic: [Selecting PDL \(Page Description Language\) Settings](#)

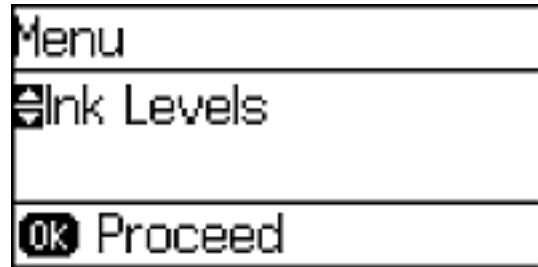
Selecting Printer Language and Interface Settings

You can select printer language and interface settings using the control panel on the product.

Note: These settings can be locked by an administrator. If you cannot access these settings, contact your administrator for assistance.

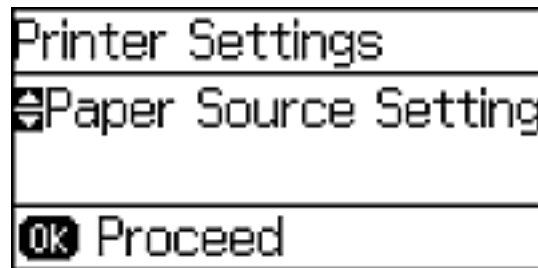
1. Press the arrow buttons to select **Menu** and press the **OK** button.

You see a screen like this:



2. Select **System Administration** and press the **OK** button. Enter the administrator password, if necessary.
3. Select **Printer Settings**.

You see a screen like this:



4. Select the **Printing Language** and other settings you want to use.

[Printer Language and Interface Options](#)

Parent topic: [Enabling Epson Universal Print Driver \(PCL\) or PostScript Printing](#)

Printer Language and Interface Options

Select the settings you want to use.

Printer Settings option	Available settings	Description
USB I/F Timeout Setting	0.5 to 300 seconds	Specify the length of time before ending USB communication from a computer using the PCL or PostScript driver. This setting is necessary to avoid endless USB communication.
Printing Language	Auto	Select the language for the USB or network interface.
	PCL	
	PS3	
	PDF	
PC Connection via USB	Enable	Select whether to allow USB communication with the product.
	Disable	

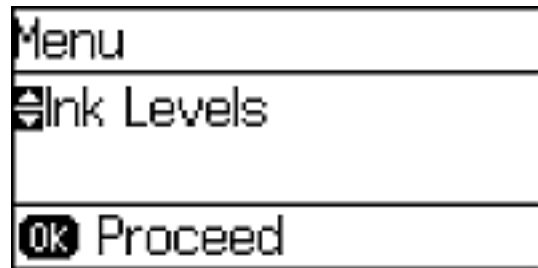
Parent topic: [Selecting Printer Language and Interface Settings](#)

Printing a PS3 (PostScript) Status Sheet

You can print a PS3 (PostScript) status sheet to confirm the current font information and PostScript printing software version.

1. Press the arrow buttons to select **Menu** and press the **OK**.

You see this screen:



2. Select **Print Status Sheet** and press the **OK** button.
3. Select **PS3 Status Sheet** and press the **OK** button.
4. Press the up arrow button to begin printing the network status sheet.

Parent topic: [Enabling Epson Universal Print Driver \(PCL\) or PostScript Printing](#)

Loading Paper

Before you print, load paper for the type of printing you will do.

Note: Load only plain paper when printing with the PostScript (PS3) printer software.

[Loading Paper in the Cassette](#)

[Loading Paper and Envelopes in the Rear Paper Feed Slot](#)

[Loading Paper in the Front Paper Feed Slot](#)

[Paper Loading Capacity](#)

[Available Epson Papers](#)

[Paper or Media Type Settings - Printing Software](#)

[Selecting the Paper Settings for Each Source - Control Panel](#)

[Selecting Default Paper Settings - Administrator](#)

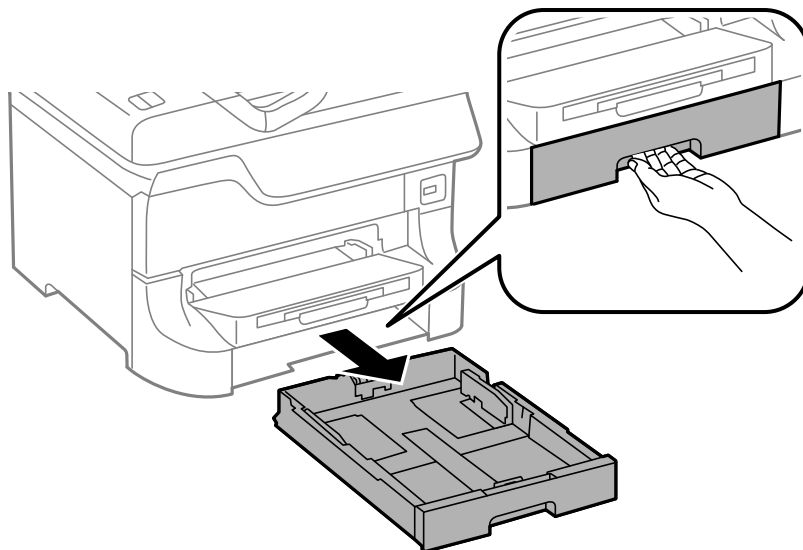
[Installing the Optional Cabinet and Paper Cassettes](#)

Loading Paper in the Cassette

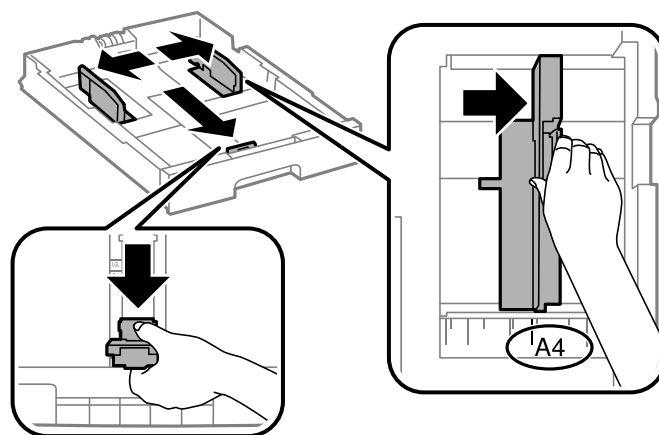
You can load paper up to this size in the paper cassette: A3 (11.7 × 16.5 inches [297 × 420 mm])

Note: If the optional paper cassette units are installed, do not remove more than one cassette at a time.

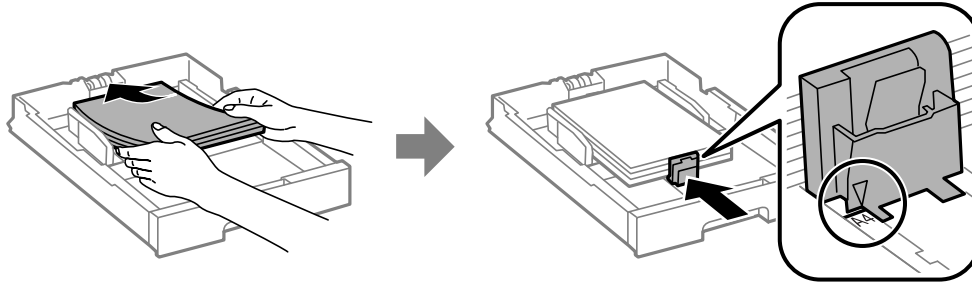
1. Make sure the product is not operating and pull out the paper cassette.



2. Slide the front edge guide outward all the way, then slide the side edge guides to the paper size you are using.

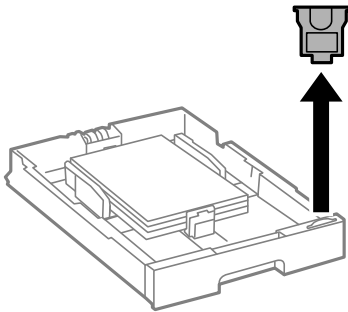


3. Load paper with the printable side facedown and slide the front edge guide against the paper.



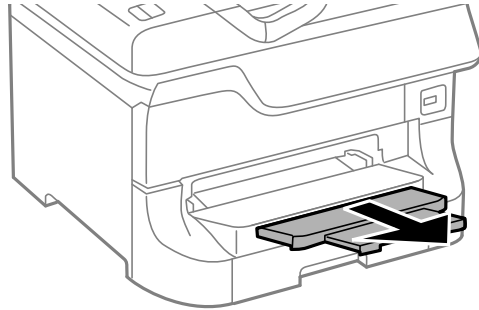
Note: Make sure the paper fits beneath the arrow mark inside the edge guides.

4. Make sure the paper size label matches the size of the paper loaded in the paper cassette. If necessary, remove the label holder and change the paper size indicated on the label.



5. Insert the paper cassette all the way into the product.

6. Extend the output tray.



7. Select the size and type of paper you loaded on the product LCD screen.

Always follow these paper loading guidelines:

- Load only the recommended number of sheets.
- Load paper short edge first, no matter which way your document faces.
- Load the printable side facedown.
- Load letterhead or pre-printed paper top edge first.
- Do not load paper above the arrow mark inside the edge guides.
- Check the paper package for any additional loading instructions.

Parent topic: [Loading Paper](#)

Related references

[Paper Loading Capacity](#)

Related tasks

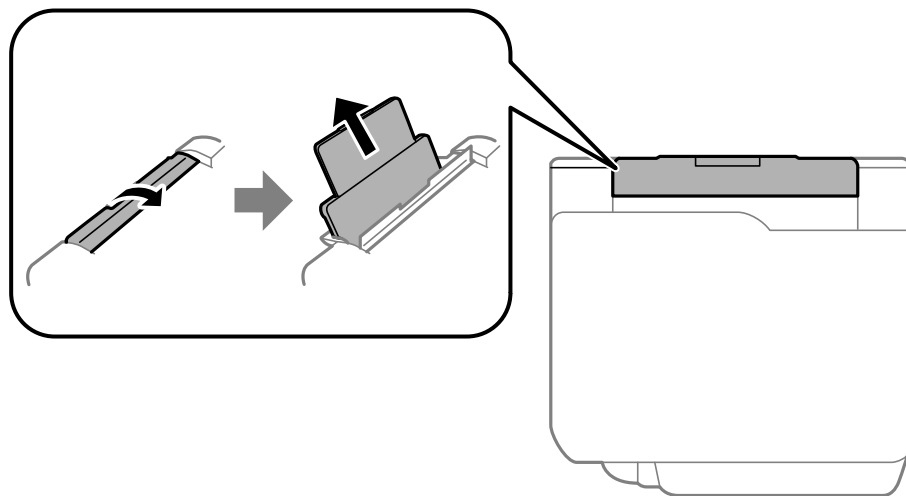
[Loading Paper and Envelopes in the Rear Paper Feed Slot](#)

[Loading Paper in the Front Paper Feed Slot](#)

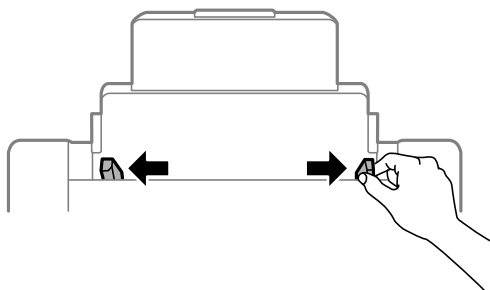
Loading Paper and Envelopes in the Rear Paper Feed Slot

You can print envelopes or documents in a variety of paper types and sizes in the rear paper feed slot.

1. Open the feeder guard and pull up the paper support.

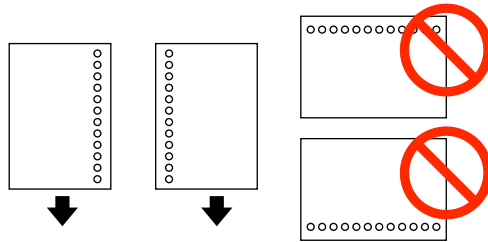


2. Slide the edge guides outward.

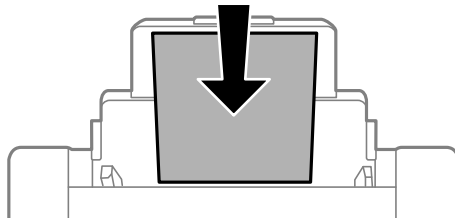


3. If you are inserting a stack of paper, fan the sheets and tap the stack on a flat surface to even the edges.

Note: You can load one sheet of binder paper with holes on one of the long edges as shown. Do not select automatic 2-sided printing for this type of paper.

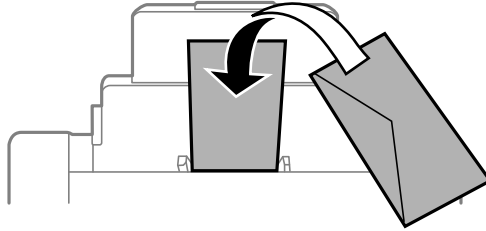


4. Do one of the following:
 - Insert paper, glossy or printable side up and short edge first, in the center of the slot.

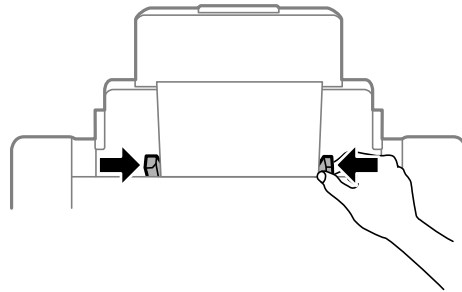


Caution: To prevent paper feeding problems, make sure you do not load paper above the arrow marks inside the edge guides.

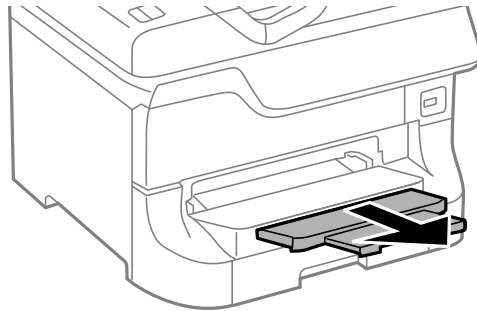
- Load envelopes short edge first, with the flap facing down and the flap edge to the left, in the center of the slot.



5. Slide the edge guides against the paper, but not too tightly.



6. Extend the output tray.



7. Select the size and type of paper you loaded in the **Paper Setup** menu.

Always follow these paper loading guidelines:

- Load only the recommended number of sheets.
- Load paper short edge first, no matter which way your document faces.
- Load the printable side faceup.
- Load letterhead or pre-printed paper top edge first.
- Do not load paper above the arrow mark inside the edge guides.
- If you have trouble loading a stack of envelopes, press each envelope flat before loading it or load one envelope at a time.
- If print quality declines when printing multiple envelopes, try loading one envelope at a time.
- Do not load envelopes that are curled, folded, or too thin.
- Check the paper package for any additional loading instructions.

Parent topic: [Loading Paper](#)

Related references

[Paper Loading Capacity](#)

Related tasks

[Loading Paper in the Cassette](#)

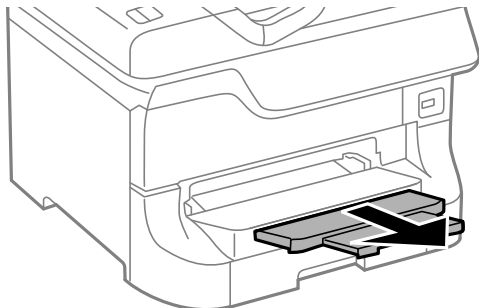
[Loading Paper in the Front Paper Feed Slot](#)

Loading Paper in the Front Paper Feed Slot

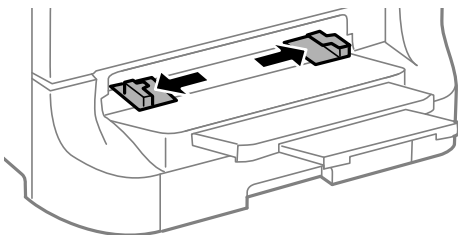
You can load one sheet of paper in the front paper feed slot.

Note: You cannot load paper while printing from the front paper feed slot. Paper that is too stiff may not load correctly even if it is within the product's paper thickness specifications.

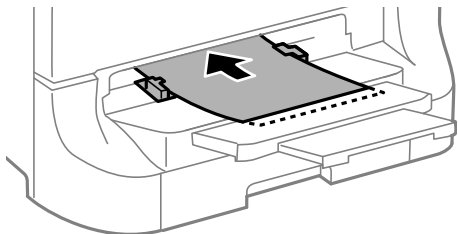
1. Extend the output tray.



2. Slide the edge guides to the paper size you are using.



3. Insert the paper with the printable side facedown until the product pulls it in partially.



Note: Keep the paper straight to prevent it from loading at an angle.

Always follow these paper loading guidelines:

- Load only one sheet at a time.
- Load paper short edge first, no matter which way your document faces.
- Load the printable side facedown.
- Load letterhead or pre-printed paper top edge first.
- Check the paper package for any additional loading instructions.

Parent topic: [Loading Paper](#)

Related references

[Paper Specifications](#)

[Paper Loading Capacity](#)

Related tasks

[Loading Paper in the Cassette](#)

[Loading Paper and Envelopes in the Rear Paper Feed Slot](#)

Paper Loading Capacity

Paper type	Loading capacity		
	Paper cassettes	Rear paper feed slot	Front paper feed slot
Plain paper ¹	A3 (11.7 × 16.5 inches [297 × 420 mm]) Up to the arrow mark	50 sheets	1
	Letter (8.5 × 11 inches [216 × 279 mm]), A4 (8.3 × 11.7 inches [210 × 297 mm]) , and Legal (8.5 × 14 inches [216 × 356 mm]) Up to the arrow mark	80 sheets	1
Epson Bright White Paper ¹	200 sheets (cassette 1) 400 sheets (cassettes 2 to 4)	50 sheets	1

Paper type	Loading capacity		
	Paper cassettes	Rear paper feed slot	Front paper feed slot
Epson Presentation Paper Matte	—	A3 (11.7 × 16.5 inches [297 × 420 mm]) and larger 50 sheets Letter (8.5 × 11 inches [216 × 279 mm]) and smaller 70 sheets	—
Epson Photo Paper Glossy Epson Premium Photo Paper Glossy	—	20	
Epson Premium Photo Paper Semi-gloss Epson Ultra Premium Photo Paper Glossy Epson Premium Presentation Paper Matte Epson Premium Presentation Paper Matte Double-sided Epson Brochure & Flyer Paper Matte Double-sided	—	A3 (11.7 × 16.5 inches [297 × 420 mm]) and larger 10 sheets Letter (8.5 × 11 inches [216 × 279 mm]) and smaller 20 sheets	—
Thick paper (cardstock up to 68 lb [256 g/m ²]) ²	—	A3 (11.7 × 16.5 inches [297 × 420 mm]), Letter (8.5 × 11 inches [216 × 279 mm]) and A4 (8.3 × 11.7 inches [210 × 297 mm]) 10 sheets	—
Envelopes	—	10 envelopes	—

¹You can print 2-sided print jobs automatically or manually. You can only print 2-sided print jobs manually in the rear paper feed slot. Load up to 30 sheets for manual 2-sided print jobs.

² You can load up to 5 sheets for manual 2-sided print jobs.

Parent topic: [Loading Paper](#)

Available Epson Papers

You can purchase genuine Epson ink and paper at Epson Supplies Central at epson.com/ink3 (U.S. sales) or epson.ca (Canadian sales). You can also purchase supplies from an Epson authorized reseller. To find the nearest one, call 800-GO-EPSON (800-463-7766).

Paper Type	Size	Part number	Sheet count
Epson Bright White Paper	Letter (8.5 × 11 inches [216 × 279 mm])	S041586	500
Epson Brochure & Flyer Paper Matte Double-sided	Letter (8.5 × 11 inches [216 × 279 mm])	S042384	150
Epson Presentation Paper Matte	Letter (8.5 × 11 inches [216 × 279 mm])	S041062	100
	Legal (8.5 × 14 inches [216 × 356 mm])	S041067	100
	11 × 17 inches (279 × 432 mm)	S041069	100
	13 × 19 inches (330 × 483 mm)	S041070	100
Epson Premium Presentation Paper Matte	8 × 10 inches (203 × 254 mm)	S041467	50
	Letter (8.5 × 11 inches [216 × 279 mm])	S041257	50
		S042180	100
	11 × 14 inches (279 × 356 mm)	S041468	50
	A3 (11.7 × 16.5 inches [297 × 420 mm])	S041260	50
	13 × 19 inches (330 × 483 mm)	S041263	50

Paper Type	Size	Part number	Sheet count
Epson Premium Presentation Paper Matte Double-sided	Letter (8.5 × 11 inches [216 × 279 mm])	S041568	50
Epson Photo Paper Glossy	4 × 6 inches (102 × 152 mm)	S041809	50
		S042038	100
	Letter (8.5 × 11 inches [216 × 279 mm])	S041141	20
		S041649	50
		S041271	100
	11 × 17 inches (279 × 432 mm)	S041156	20
	13 × 19 inches (330 × 483 mm)	S041143	20
Epson Premium Photo Paper Glossy	4 × 6 inches (102 × 152 mm)	S041808	40
		S041727	100
	16:9 wide (4 × 7.1 inches [102 × 181 mm])	S042109	20
	5 × 7 inches (127 × 178 mm)	S041464	20
	8 × 10 inches (203 × 254 mm)	S041465	20
	Letter (8.5 × 11 inches [216 × 279 mm])	S042183	25
		S041667	50
	11 × 14 inches (279 × 356 mm)	S041466	20
	11 × 17 inches (279 × 432 mm)	S041290	20
	A3 (11.7 × 16.5 inches [297 × 420 mm])	S041288	20
	13 × 19 inches (330 × 483 mm)	S041289	20

Paper Type	Size	Part number	Sheet count
Epson Ultra Premium Photo Paper Glossy	4 × 6 inches (102 × 152 mm)	S042181	60
		S042174	100
	5 × 7 inches (127 × 178 mm)	S041945	20
	8 × 10 inches (203 × 254 mm)	S041946	20
	Letter (8.5 × 11 inches [216 × 279 mm])	S042182	25
		S042175	50
Epson Premium Photo Paper Semi-gloss	4 × 6 inches (102 × 152 mm)	S041982	40
	Letter (8.5 × 11 inches [216 × 279 mm])	S041331	20
	13 × 19 inches (330 × 483 mm)	S041327	20

Parent topic: [Loading Paper](#)

Paper or Media Type Settings - Printing Software

For this paper	Select this paper Type or Media Type setting
Plain paper Epson Bright White Paper	Plain Paper / Bright White Paper
Letterhead paper	Letterhead
Recycled paper	Recycled
Color paper	Color
Preprinted paper	Preprinted
Envelopes	Envelope
Epson Ultra Premium Photo Paper Glossy	Ultra Premium Photo Paper Glossy
Epson Premium Photo Paper Glossy	Premium Photo Paper Glossy
Epson Photo Paper Glossy	Photo Paper Glossy
Epson Premium Photo Paper Semi-gloss	Premium Photo Paper Semi-Gloss

For this paper	Select this paper Type or Media Type setting
Epson Presentation Paper Matte Epson Premium Presentation Paper Matte Epson Premium Presentation Paper Matte Double-sided Epson Brochure & Flyer Paper Matte Double-sided	Premium Presentation Paper Matte
Cardstock up to 68 lb (256 g/m ²)	Card Stock

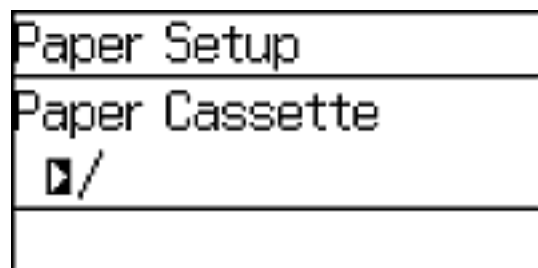
Parent topic: [Loading Paper](#)

Selecting the Paper Settings for Each Source - Control Panel

You can change the default paper size and paper type for each paper source using the control panel on the product.

1. Press the  **Paper Setup** button.
2. Select the paper source you want to change and press the **OK** button.

You see a screen like this:



3. Select the paper size you loaded and press the **OK** button.
4. Select the paper type you loaded and press the **OK** button.
5. Select another paper source to change or press the  **Back** button to exit.

[Paper Type Settings - Control Panel](#)

Parent topic: [Loading Paper](#)

Paper Type Settings - Control Panel

Select a **Paper Type** setting that matches the paper you loaded.

Paper type loaded	Paper Type setting
Plain paper Epson Bright White Paper	Plain Paper
Letterhead paper	Letterhead
Recycled paper	Recycled
Color paper	Color
Preprinted paper	Preprinted
Envelopes	Envelope
Epson Ultra Premium Photo Paper Glossy	Ultra Glossy
Epson Premium Photo Paper Glossy	Prem. Glossy
Epson Photo Paper Glossy	Glossy
Epson Premium Photo Paper Semi-gloss	Prem. Semi-Gloss
Epson Presentation Paper Matte Epson Premium Presentation Paper Matte Epson Premium Presentation Paper Matte Double-sided Epson Brochure & Flyer Paper Matte Double-sided	Prem. Matte
Cardstock up to 68 lb (256 g/m ²)	Card Stock

Parent topic: [Selecting the Paper Settings for Each Source - Control Panel](#)

Selecting Default Paper Settings - Administrator

As an administrator, you can adjust default paper settings that apply to all print jobs sent to the product.

Note: These settings can be locked by an administrator. If you cannot access these settings, contact your administrator for assistance.

[Selecting the Paper Source Settings - Administrator](#)

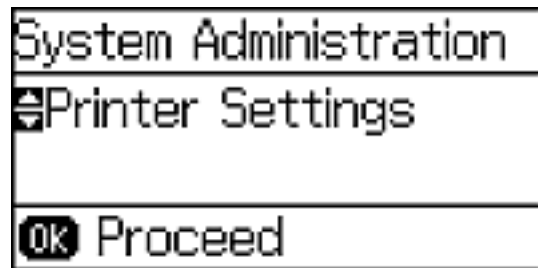
Selecting the Paper Source Settings - Administrator

You can change default paper source settings using the control panel on the product.

Note: These settings can be locked by an administrator. If you cannot access these settings, contact your administrator for assistance.

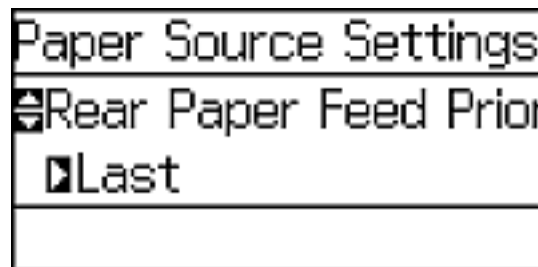
1. Press the arrow buttons to select **Menu** and press the **OK** button.
2. Select **System Administration** and press the **OK** button. Enter the administrator password, if necessary.

You see this screen:



3. Select **Printer Settings** and press the **OK** button.
4. Select **Paper Source Settings** and press the **OK** button.

You see a screen like this:



5. Select the paper source options you want to use.
6. When you are finished, press the **↩ Back** button to exit.

[Paper Source Settings Options](#)

Parent topic: [Selecting Default Paper Settings - Administrator](#)

Paper Source Settings Options

Select the **Paper Source Settings** options you want to use for your printed jobs.

Paper Source Settings option	Available settings	Description
Rear Paper Feed Priority	Normal	Select Normal to give printing priority to paper loaded in the rear paper feed slot.
	Last	
A4/Letter Auto Switching	On	Select On to switch the selected paper size to match the loaded paper (Letter or A4) if the wrong size is selected.
	Off	
Error Notice	Paper Size Notice	Select On for either of these settings to display an error message when the selected paper type or size does not match the loaded paper.
	Paper Type Notice	

Parent topic: [Selecting the Paper Source Settings - Administrator](#)

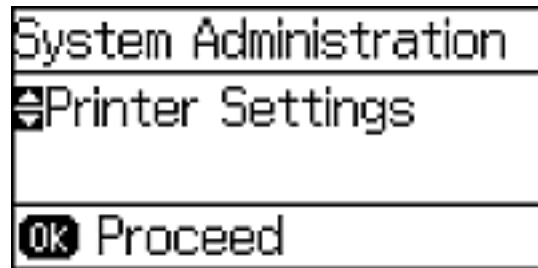
Selecting Universal Print Settings

You can change the default universal print settings using the product control panel.

Note: These settings can be locked by an administrator. If you cannot access these settings, contact your administrator for assistance.

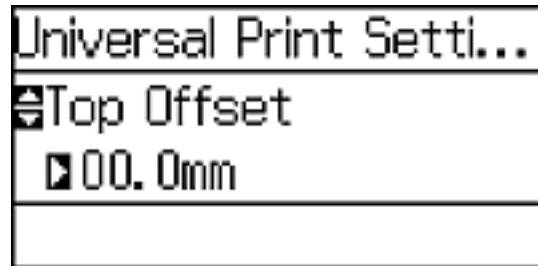
1. Press the arrow buttons to select **Menu** and press the **OK** button.
2. Select **System Administration** and press the **OK** button. Enter the administrator password, if necessary.

You see this screen:



3. Select **Universal Print Settings** and press the **OK** button.

You see this screen:



4. Adjust the settings as necessary.
5. When you are finished, press the ↩ **Back** button to exit.

[Universal Print Settings Options](#)

Parent topic: [Selecting Default Paper Settings - Administrator](#)

Universal Print Settings Options

Select the universal print settings you want to use.

Universal Print Settings option	Available settings	Description
Top Offset	—	Adjust the top or left margin.
Left Offset		

Universal Print Settings option	Available settings	Description
Top Offset in Back	—	Adjust the top or left margin of the back page when performing double-sided printing.
Left Offset in Back		
Check Paper Width	On	Select On to check the paper width before printing. This prevents printing beyond the edges of the paper when the paper size settings are wrong, but may reduce the printing speed.
	Off	
Dry Time	Standard	Select the drying time when printing double-sided.
	Long	
	Longer	
Skip Blank Page	On	Select On to skip blank pages automatically.
	Off	
PDL Configuration	Common Settings	Selects the settings for printing with PCL and PostScript Page Description Language drivers.
	PCL Menu	
	PS3 Menu	

Parent topic: [Selecting Universal Print Settings](#)

Installing the Optional Cabinet and Paper Cassettes

Follow these instructions to add the optional cabinet and paper cassette to your product. If you are installing the optional cabinet, install the cabinet under the bottom of the optional cassette unit first.

[Installing the Optional Cabinet](#)

[Installing the Optional Paper Cassette Units](#)

Parent topic: [Loading Paper](#)

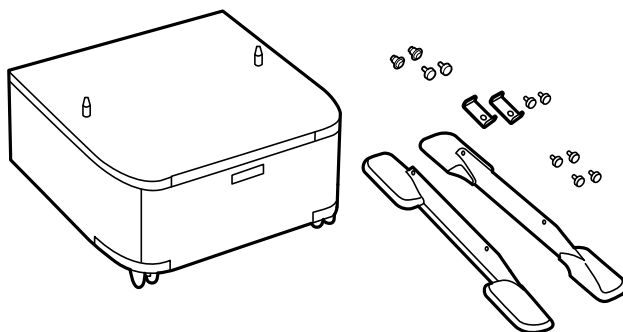
Installing the Optional Cabinet

You can install the optional cabinet to provide mobility and extra storage space.

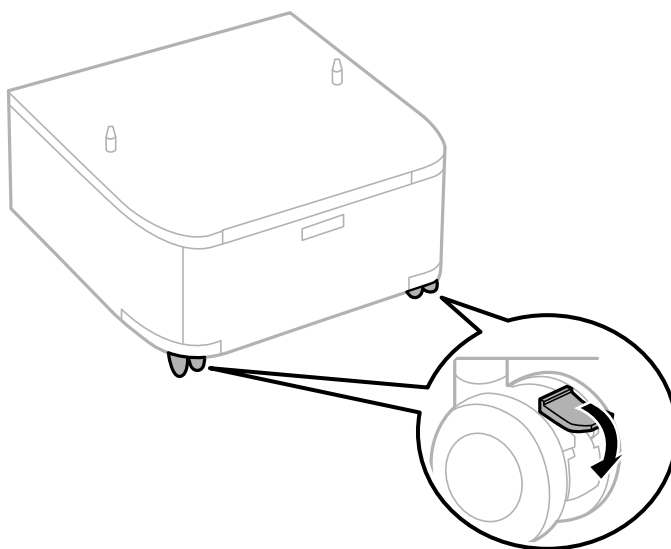
1. Turn off the product, and unplug the power cord and any connected cables.

Warning: To avoid electric shock, make sure you unplug the power cord.

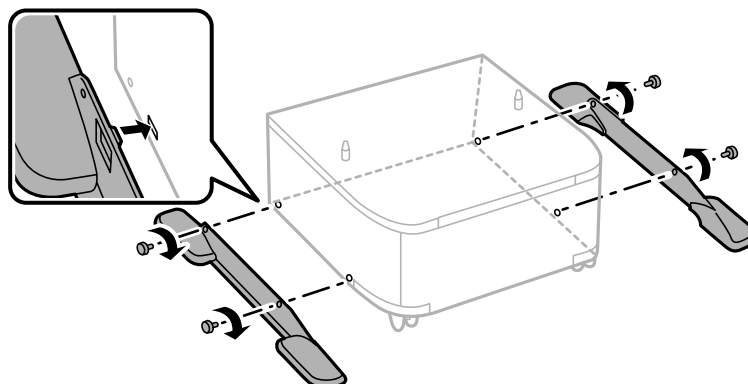
2. Remove the cabinet from its packaging and remove any protective materials.
3. Make sure you have all the items shown here:



4. Place the cabinet on a flat surface and lock the front casters.

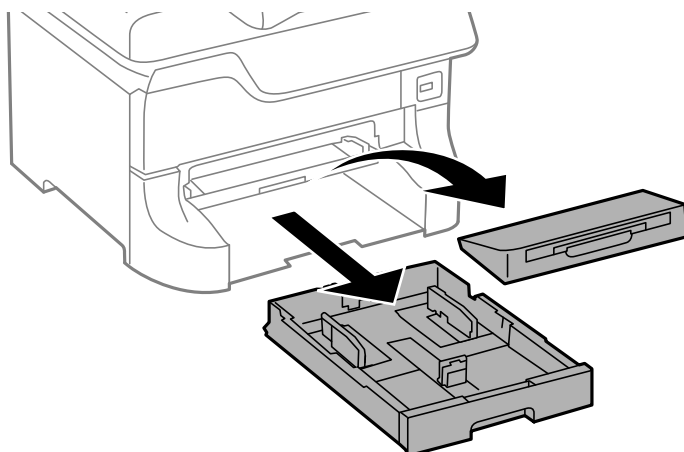


5. Attach and secure the stands to the cabinet with the included screws.

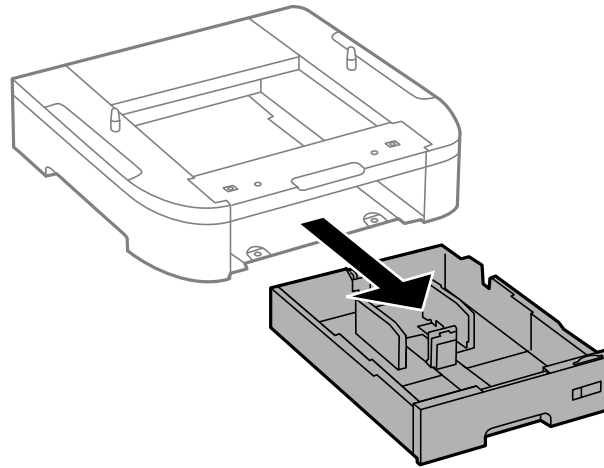


Caution: Make sure the stands are securely attached or the product may fall over.

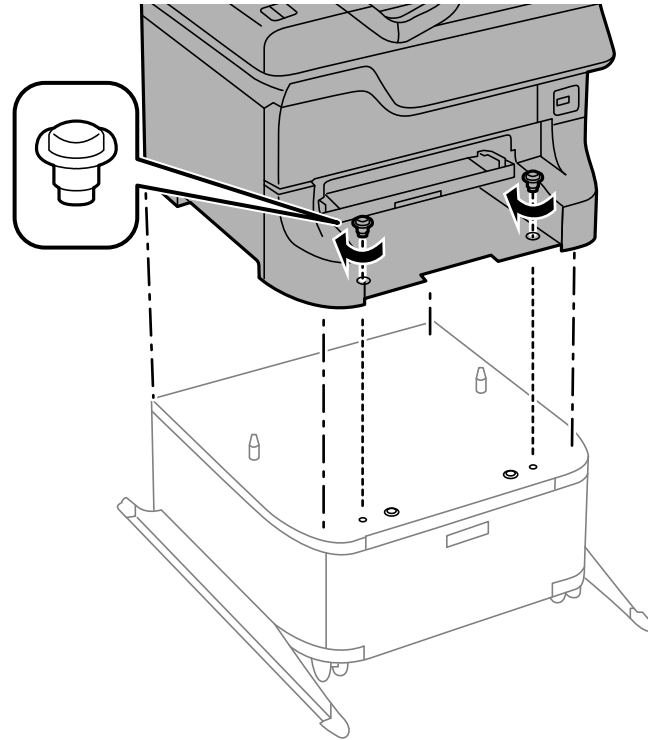
6. Remove the output tray and paper cassette from the product.



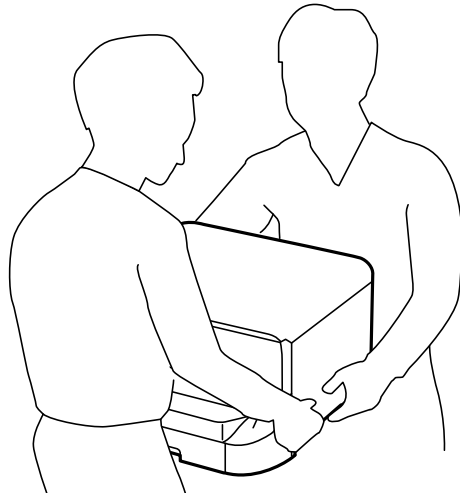
Note: If you installed the optional paper cassette unit, remove the paper cassette from the optional cassette unit instead.



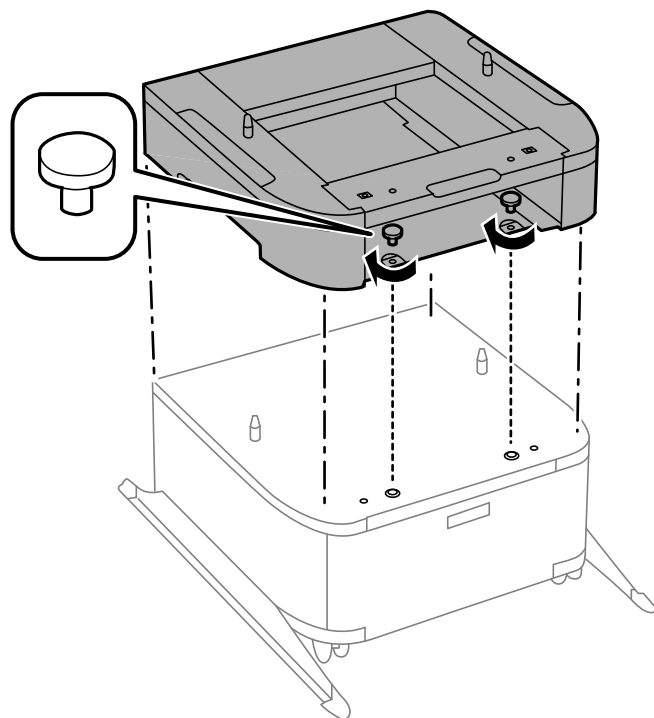
7. Lift up your product and gently lower it onto the cabinet with the corners aligned. Secure the product to the cabinet with the included screws.



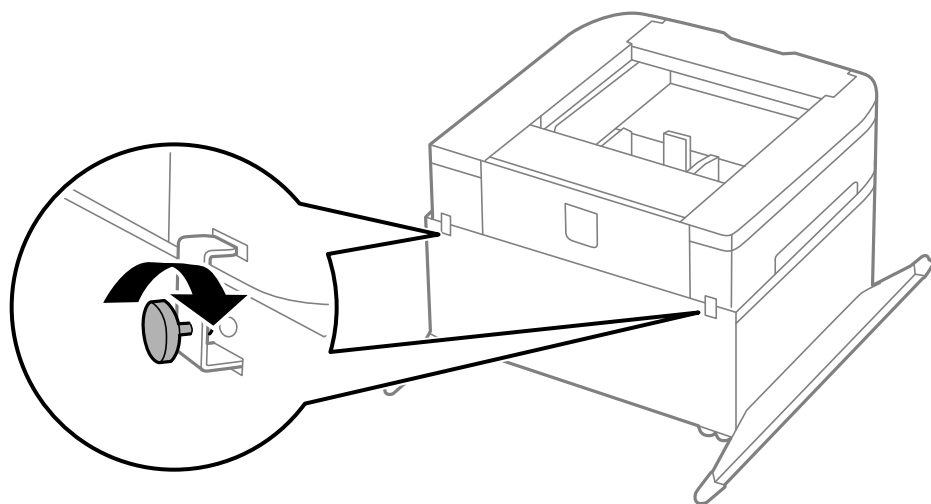
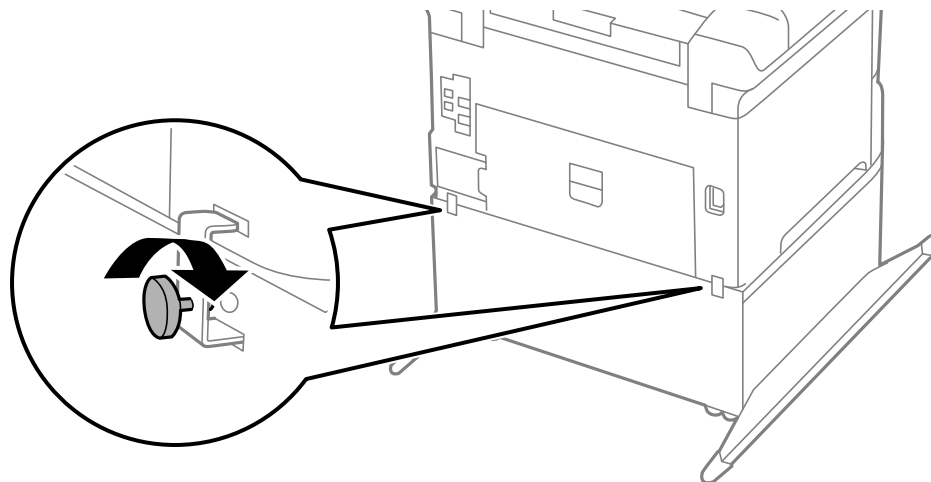
Warning: To lift the product, have two or more people hold it as shown here. Lifting from other areas may cause the product to fall or cause you to pinch your fingers when placing the product down.



Note: Secure the optional cassette to the cabinet as shown here.



8. Secure the back of the product or paper cassette unit to the cabinet using the included brackets and screws.



9. Insert the paper cassette you removed and attach the output tray.
10. Connect the power cord and other connection cables, then plug in the product.

Parent topic: [Installing the Optional Cabinet and Paper Cassettes](#)

Installing the Optional Paper Cassette Units

You can install up to three optional paper cassette units to provide more paper capacity. If you are using the optional cabinet, install the cabinet under the bottom of the cassette unit first.

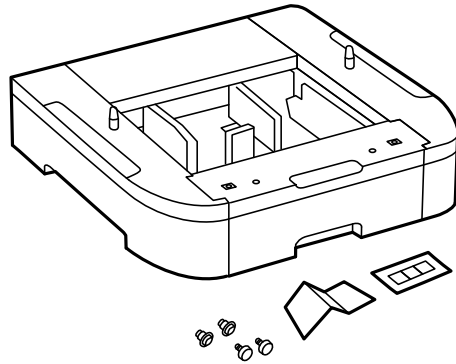
1. Turn off the product, and unplug the power cord and any connected cables.

Warning: To avoid electric shock, make sure you unplug the power cord.

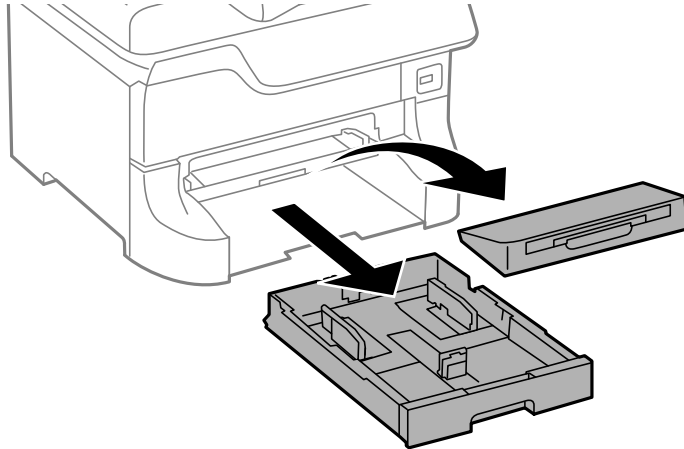
2. Uninstall any optional cassette units already installed on the product.

Note: To uninstall any optional cassette units, turn off the product, unplug the power cord, disconnect any cables, and follow the rest of these instructions in reverse.

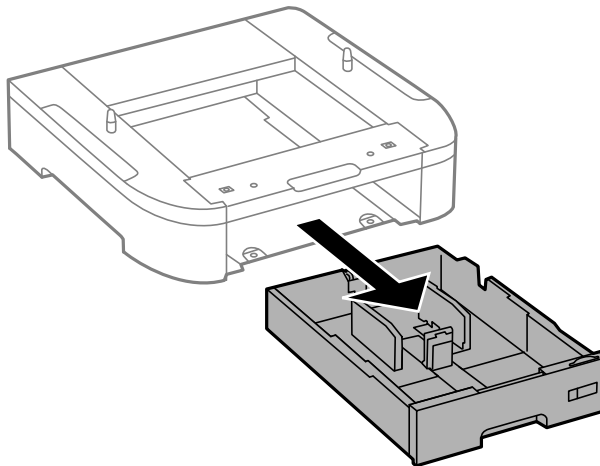
3. Remove the paper cassette unit from its packaging and remove any protective materials.
4. Make sure you have all the items shown here:



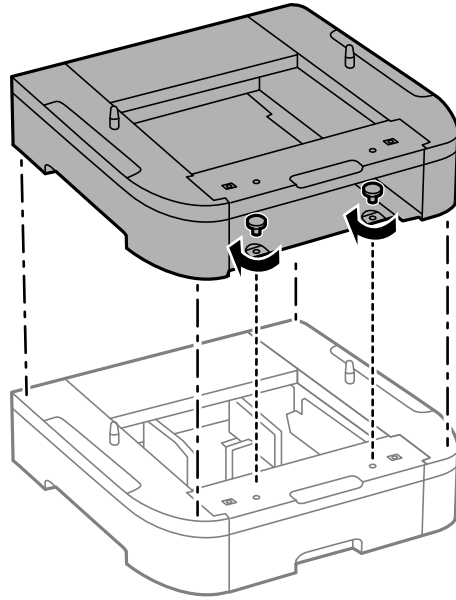
5. Remove the output tray and paper cassette from the product.



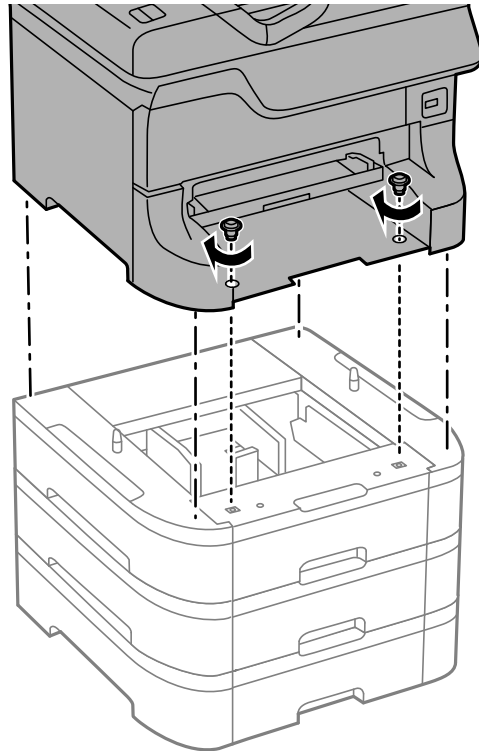
6. Remove the paper cassette from the optional paper cassette unit.



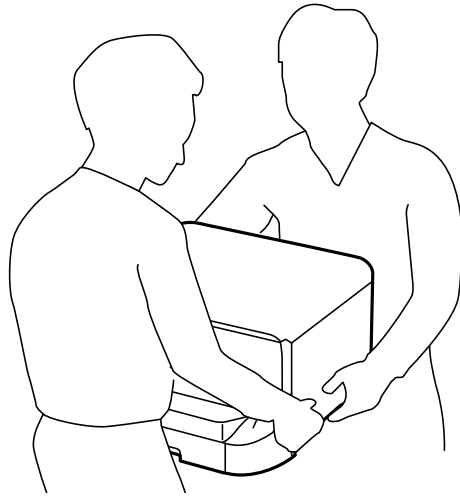
7. Stack all optional paper cassette units on top of each other and secure them to each other with the included screws.



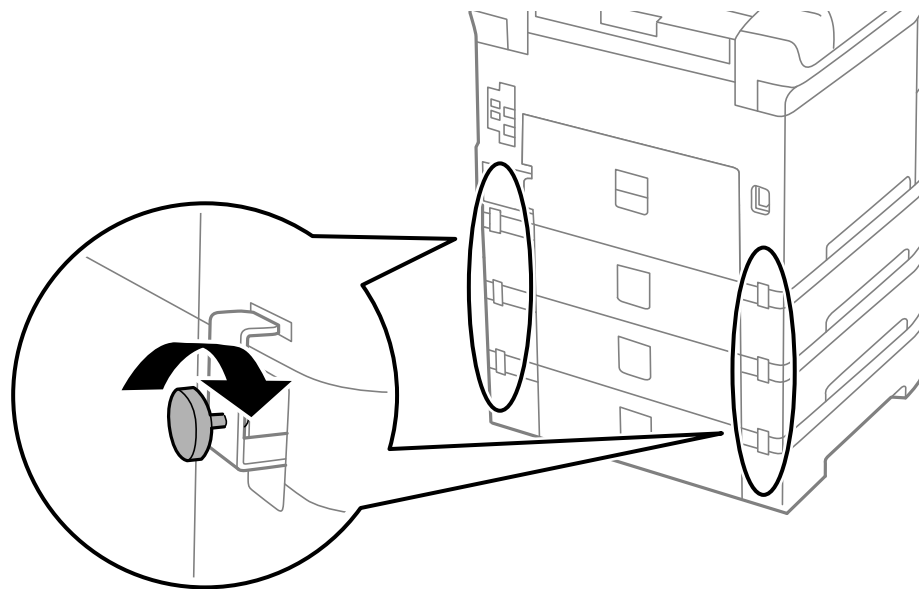
8. Lift up your product and gently lower it onto the paper cassette unit with the corners aligned. Secure the product to the paper cassette unit with the included screws using a screw driver.



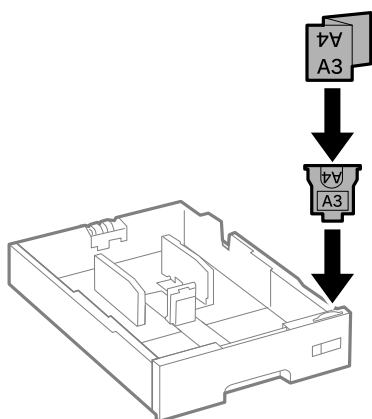
Warning: To lift the product, have two people hold it as shown here. Lifting from other areas may cause the product to fall or cause you to pinch your fingers when placing the product down.



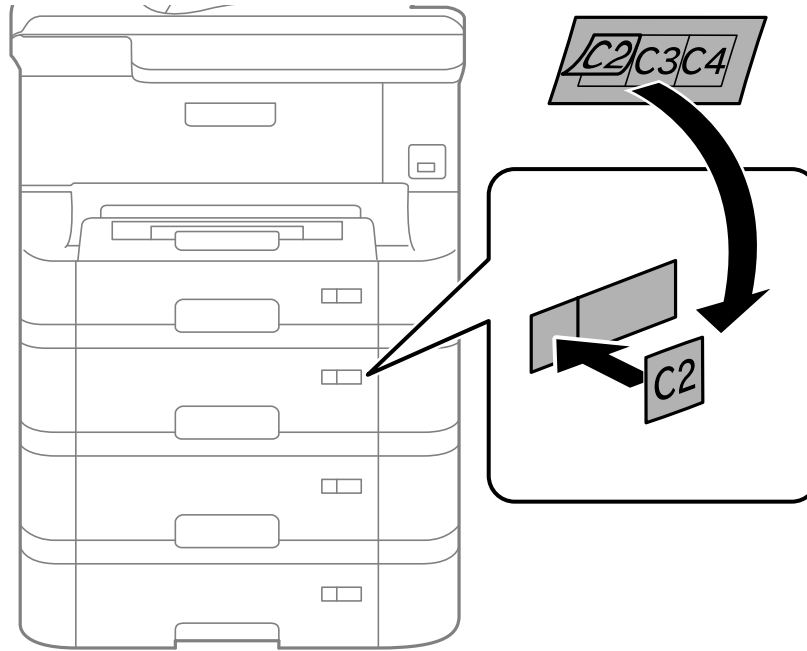
9. Secure the back of the paper cassette units to each other and to the product using the included brackets and screws.



10. Insert a label into the holder indicating the paper size to be loaded in the paper cassette.



11. Place the correct sticker on the cassette unit to indicate the cassette number.



12. Connect the power cord and other connection cables, then plug in the product.
13. Turn on the product.
14. Pull out and reinsert the paper cassette in the optional paper cassette unit to confirm the cassette unit is displayed on the **Paper Setup** screen.
15. Enable the optional paper cassette units in the printer software.

[Enabling the Optional Paper Cassettes - Windows](#)

[Enabling the Optional Paper Cassettes - OS X](#)

Parent topic: [Installing the Optional Cabinet and Paper Cassettes](#)

Related tasks

[Enabling the Optional Paper Cassettes - Windows](#)

[Synchronizing Printer Settings - Epson Universal Print Driver - Windows](#)

[Enabling the Optional Paper Cassettes - PostScript Printer Software - Windows](#)

[Enabling the Optional Paper Cassettes - OS X](#)

[Enabling the Optional Paper Cassettes - PostScript Printer Software - OS X](#)

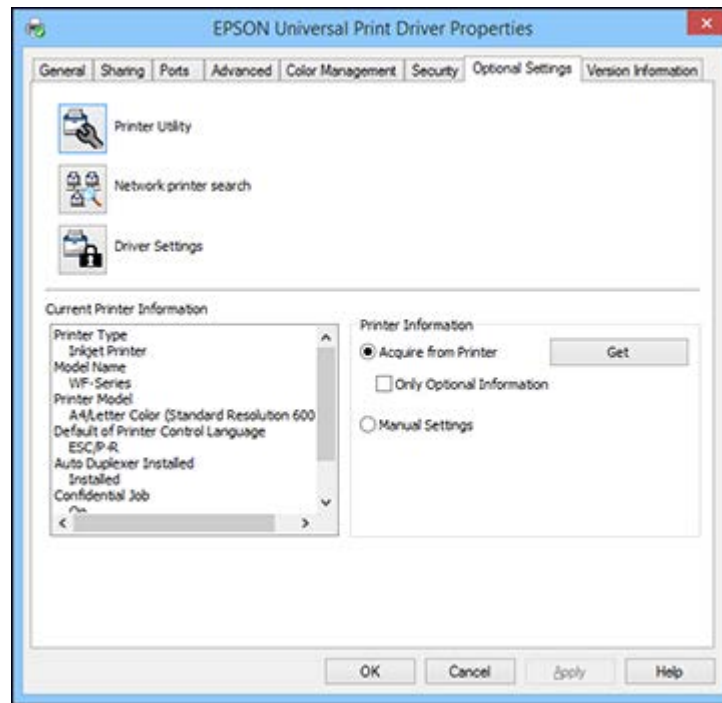
Enabling the Optional Paper Cassettes - Windows

You need to enable the optional paper cassette units before you can use them with the printer software.

Note: If you are using the Epson Universal Print Driver or PostScript (PS3) printer software, see the sections covering that software in this manual to enable the optional cassette units.

1. Do one of the following:
 - **Windows 8.x:** Navigate to the **Apps** screen and select **Control Panel > Hardware and Sound > Devices and Printers**. Right-click your product name and select **Printer properties**.
 - **Windows 7:** Click  and select **Devices and Printers**. Right-click your printer name and select **Printer properties**.
 - **Windows Vista:** Click  and select **Control Panel**. Click **Printer** under **Hardware and Sound**, then right-click your printer name and select **Properties**.
 - **Windows XP:** Click **Start** and select **Printers and Faxes**. Right-click your product name and select **Properties**.
2. Click the **Optional Settings** tab.

You see a window like this:



3. Make sure **Acquire from Printer** is selected, then click **Get**.

The optional paper sources are listed in the Current Printer Information section.

4. Click **OK**.

The optional paper cassettes are now enabled.

Parent topic: [Installing the Optional Paper Cassette Units](#)

Related tasks

[Synchronizing Printer Settings - Epson Universal Print Driver - Windows](#)

[Enabling the Optional Paper Cassettes - PostScript Printer Software - Windows](#)

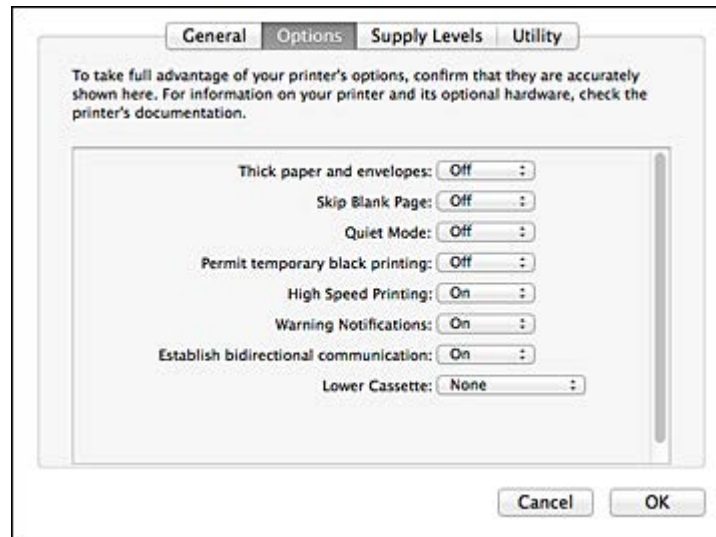
Enabling the Optional Paper Cassettes - OS X

You need to enable the optional paper cassette units before you can use them with the printer software.

Note: If you are using the PostScript (PS3) printer software, see the section covering that software in this manual to enable the optional cassette units.

1. In the Apple menu or the Dock, select **System Preferences**.
2. Select **Print & Fax**, **Print & Scan**, or **Printers & Scanners**, select your product, and select **Options & Supplies**.
3. Select **Driver** or **Options**.

You see a screen like this:



4. Select the number of optional cassette units installed for the **Lower Cassette** setting.
5. Click **OK**.

The optional paper cassettes are now enabled.

Parent topic: [Installing the Optional Paper Cassette Units](#)

Related tasks

[Enabling the Optional Paper Cassettes - PostScript Printer Software - OS X](#)

Printing from a Computer

Before printing from your computer, make sure you have set up your product and installed its software as described on the *Start Here* sheet.

Note: If you have an Internet connection, it is a good idea to check for updates to your product software on Epson's support website. If you see a Software Update screen, select **Enable automatic checking** and click **OK**. The update scans your system to see if you have the latest product software. Follow the on-screen instructions.

[Printing with Windows](#)

[Printing with OS X](#)

[Printing with the Epson Universal Print Driver - Windows](#)

[Printing with the PostScript \(PS3\) Printer Software - Windows](#)

[Printing with the PostScript \(PS3\) Printer Software - OS X](#)

[Cancelling Printing Using a Product Button](#)

Printing with Windows

You can print with your product using any Windows printing program, as described in these sections.

[Selecting Basic Print Settings - Windows](#)

[Selecting Double-sided Printing Settings - Windows](#)

[Selecting Additional Layout and Print Options - Windows](#)

[Selecting a Printing Preset - Windows](#)

[Selecting Extended Settings - Windows](#)

[Printing Your Document or Photo - Windows](#)

[Locking Printer Settings - Windows](#)

[Selecting Default Print Settings - Windows](#)

[Changing Automatic Update Options](#)

Parent topic: [Printing from a Computer](#)

Selecting Basic Print Settings - Windows

Select the basic settings for the document or photo you want to print.

1. Open a photo or document for printing.

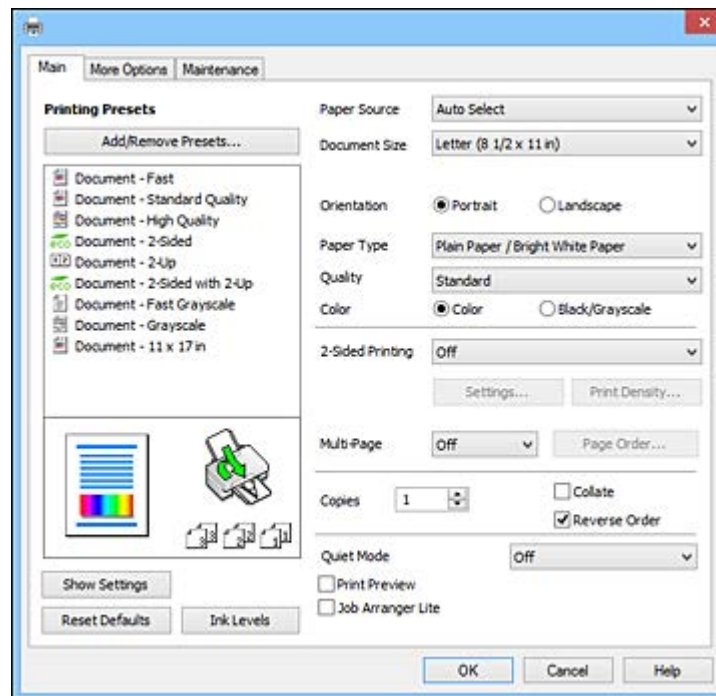
2. Select the print command in your application.

Note: You may need to select a print icon on your screen, the **Print** option in the **File** menu, or another command. See your application's help utility for details.

3. If necessary, select your product name as the printer you want to use.

Note: You may also need to select **Properties** or **Preferences** to view your print settings.

You see the Main tab of your printer settings window:



4. For the **Paper Source** setting, select where you loaded the paper you want to print on.
5. Select the size of the paper you loaded as the **Document Size** setting.

6. Select the orientation of your document.

Note: If you are printing an envelope, select **Landscape**.

7. Select the type of paper you loaded as the **Paper Type** setting.

Note: The setting may not exactly match the name of your paper. Check the paper type settings list for details.

8. Select the **Quality** setting that matches the print quality you want to use.
9. Select a Color option:
 - To print a color document or photo, select the **Color** setting.
 - To print text and graphics in black or shades of gray, select the **Black/Grayscale** setting.
10. To print on both sides of the paper, select the **2-Sided Printing** checkbox and select the options you want.
11. To print multiple pages on one sheet of paper, or print one image on multiple sheets of paper, select one of the settings in the **Multi-Page** menu and select the printing options you want.
12. To print multiple copies and arrange their print order, select the **Copies** options.
13. To preview your job before printing, select **Print Preview**.
14. To save your print job as a project that can be modified and combined with other print jobs, select **Job Arranger Lite**.
15. To reduce noise during printing when you select **Plain Paper/Bright White Paper**, select **On** in the Quiet Mode menu.

[Paper Source Options - Windows](#)

[Print Quality Options - Windows](#)

[Multi-Page Printing Options - Windows](#)

Parent topic: [Printing with Windows](#)

Related references

[Paper or Media Type Settings - Printing Software](#)

Related tasks

[Selecting Double-sided Printing Settings - Windows](#)

[Printing Your Document or Photo - Windows](#)

Paper Source Options - Windows

You can select any of the available options in the Paper Source menu to print on the paper loaded in that source.

Note: **Paper Cassette 2** through **Paper Cassette 4** are available only if you have installed the optional cassettes.

Auto Select

Automatically selects the paper source based on the selected paper size.

Paper Cassette 1

Selects the paper in cassette 1 as the paper source.

Paper Cassette 2

Selects the paper in cassette 2 as the paper source.

Paper Cassette 3

Selects the paper in cassette 3 as the paper source.

Paper Cassette 4

Selects the paper in cassette 4 as the paper source.

Rear Paper Feed Slot

Selects the paper in the rear feed slot as the paper source.

Front Paper Feed Slot

Selects the paper in the front feed slot as the paper source.

Parent topic: [Selecting Basic Print Settings - Windows](#)

Print Quality Options - Windows

You can select any of the available Quality options to fine-tune the quality of your print. Some settings may be unavailable, depending on the paper type and border setting you have chosen.

Draft

For draft printing on plain paper.

Standard

For everyday text and image printing.

Standard - Vivid

For text and graphics with good quality and print speed.

High

For photos and graphics with high print quality.

More Settings

Opens a window that lets you choose among levels of speed and quality.

Parent topic: [Selecting Basic Print Settings - Windows](#)

Multi-Page Printing Options - Windows

You can select any of the available options in the Multi-Page menu to set up your multi-page print job.

2-Up and 4-Up

Prints 2 or 4 pages on one sheet of paper. Click the **Page Order** button to select page layout and border options.

2×1 Poster, 2×2 Poster, 3×3 Poster, 4×4 Poster

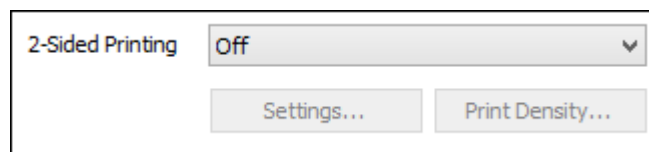
Prints one image on multiple sheets of paper to create a larger poster. Click the **Settings** button to select image layout and guideline options.

Parent topic: [Selecting Basic Print Settings - Windows](#)

Selecting Double-sided Printing Settings - Windows

You can print on both sides of the paper by selecting one of the **2-Sided Printing** options on the Main tab.

Note: Some options may be pre-selected or unavailable, depending on other settings you have chosen or if you are accessing the product over a network.

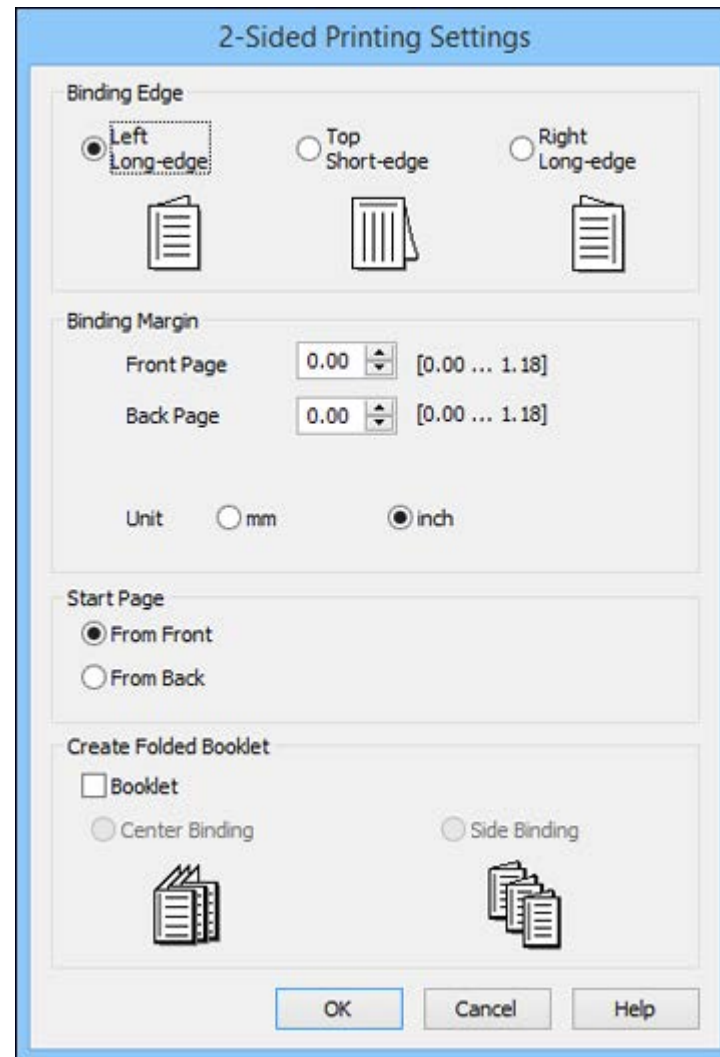


1. Select one of the following options for **2-Sided Printing**:
 - **Auto (Long-edge binding)** to print your double-sided print job by automatically flipping the paper on the long edge.
 - **Auto (Short-edge binding)** to print your double-sided print job by automatically flipping the paper on the short edge.
 - **Manual (Long-edge binding)** to print your double-sided print job by printing one side and prompting you to flip the paper over on the long edge to print the other side (recommended for paper types that do not support automatic duplexing).

- **Manual (Short-edge binding)** to print your double-sided print job by printing one side and prompting you to flip the paper over on the short edge to print the other side (recommended for paper types that do not support automatic duplexing).

2. Click the **Settings** button.

You see this window:



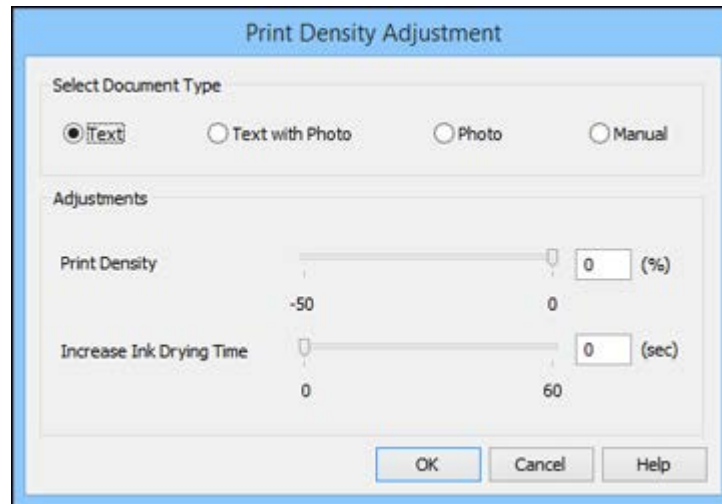
The image shows a dialog box titled "2-Sided Printing Settings". It contains several sections for configuring double-sided printing:

- Binding Edge:** Three radio buttons are present: "Left Long-edge" (selected), "Top Short-edge", and "Right Long-edge". Each button is accompanied by a small icon representing the binding orientation.
- Binding Margin:** Two rows of input fields. The first row is for the "Front Page" with a value of "0.00" and a range of "[0.00 ... 1.18]". The second row is for the "Back Page" with a value of "0.00" and a range of "[0.00 ... 1.18]". Below these is a "Unit" section with radio buttons for "mm" and "inch" (selected).
- Start Page:** Two radio buttons: "From Front" (selected) and "From Back".
- Create Folded Booklet:** A checkbox labeled "Booklet" is unchecked. Below it are two radio buttons: "Center Binding" and "Side Binding". Each radio button has a corresponding icon showing a booklet layout.

At the bottom of the dialog box are three buttons: "OK", "Cancel", and "Help".

3. Select the double-sided printing options you want to use.
4. Click **OK** to return to the Main tab.
5. Click the **Print Density** button.

You see this window:



6. Select the type of document you are printing as the Document Type setting. The software automatically sets the **Adjustments** options for that document type.
7. If necessary, select the **Adjustments** options you want to use.
8. Click **OK** to return to the Main tab.
9. Print a test copy of your double-sided document to test the selected settings.
10. Follow any instructions displayed on the screen during printing.

[Double-sided Printing Options - Windows](#)

[Print Density Adjustments - Windows](#)

Parent topic: [Printing with Windows](#)

Related tasks

[Selecting Basic Print Settings - Windows](#)

Double-sided Printing Options - Windows

You can select any of the available options on the 2-Sided Printing Settings window to set up your double-sided print job.

Binding Edge Options

Select a setting that orients double-sided print binding in the desired direction.

Binding Margin Options

Select options that define a wider margin to allow for binding.

Start Page

Selects whether printing starts on the front or back page.

Create Folded Booklet Options

Select the **Booklet** checkbox and a binding option to print double-sided pages as a booklet.

Parent topic: [Selecting Double-sided Printing Settings - Windows](#)

Print Density Adjustments - Windows

You can select any of the available options on the Print Density Adjustment window to adjust the print quality of your double-sided print job.

Print Density

Sets the level of ink coverage for double-sided printing.

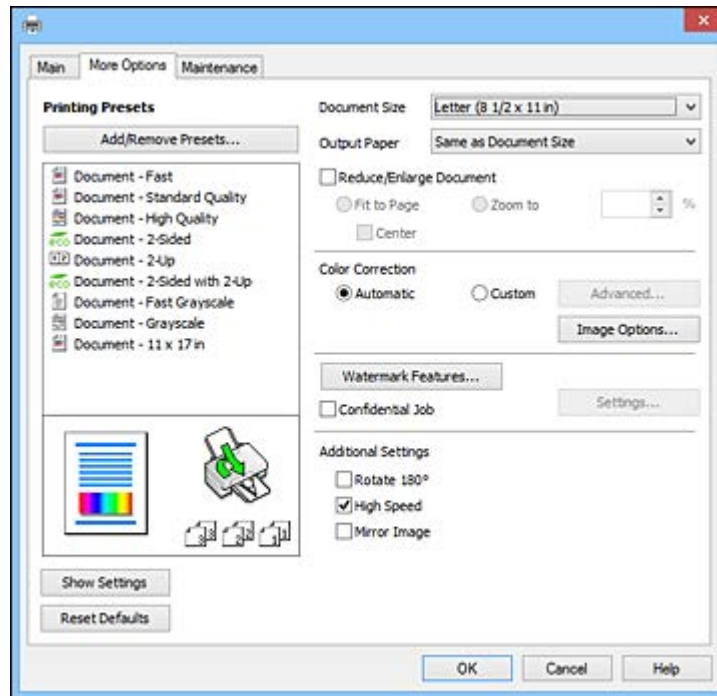
Increase Ink Drying Time

Sets the amount of time required for drying ink after printing on one side of the paper before printing the other side in double-sided printing to prevent ink smearing.

Parent topic: [Selecting Double-sided Printing Settings - Windows](#)

Selecting Additional Layout and Print Options - Windows

You can select a variety of additional layout and printing options for your document or photo on the More Options tab.



1. To change the size of your printed document or photo, select the **Reduce/Enlarge Document** checkbox and select one of these sizing options:
 - Select the **Fit to Page** option to size your image to fit the paper you loaded. Select the size of the your document or photo as the **Document Size** setting, and the size of your paper as the **Output Paper** setting. If you want to center your image on the paper, select the **Center** option.
 - Select the **Zoom to** option to reduce or enlarge your document or photo by a specific percentage. Select the percentage in the % menu.
2. Select one of the following Color Correction options:
 - Select **Automatic** to automatically adjust the sharpness, brightness, contrast, and color saturation for your image.

- Select **Custom** and click the **Advanced** button to manually adjust the color correction settings or turn off color management in your printer software.
 - Select **Image Options** to access additional settings for improving printed images.
3. To add the following features, click the **Watermark Features** button:
- **Anti-Copy Pattern**: adds a watermark that only appears when your printout is copied.
 - **Watermark**: adds a visible watermark to your printout.

Note: Click the **Add/Delete** button to create your own watermark, and click the **Settings** button to customize the watermark.

- **Header/Footer**: adds information such as the date and time to the top or bottom of your printout.

Note: Click the **Settings** button to customize the text and location of the header or footer.

4. To add a password to your print job, select the **Confidential Job** checkbox, then enter a password. Confidential jobs are stored in the product's memory without being printed. To print the job, enter the password for the confidential job on the product's control panel.

Note: Confidential print jobs are cleared from the product's memory after printing.

5. Select any of the Additional Settings options to customize your print.

[Custom Color Correction Options - Windows](#)

[Image Options and Additional Settings - Windows](#)

[Header/Footer Settings - Windows](#)

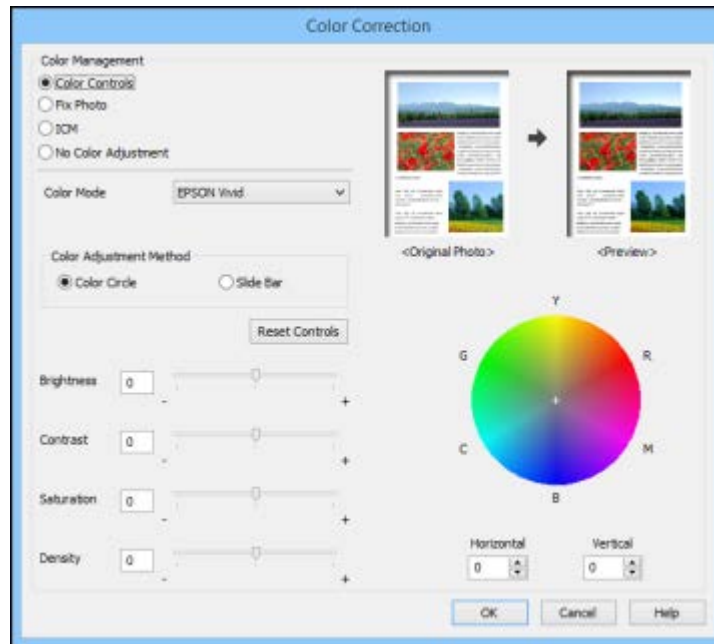
Parent topic: [Printing with Windows](#)

Related tasks

[Printing Your Document or Photo - Windows](#)

Custom Color Correction Options - Windows

You can select any of the available options in the Color Correction window to customize the image colors for your print job.



Color Controls

Lets you select a **Color Mode** setting, individual settings for **Brightness**, **Contrast**, **Saturation**, and **Density**, and individual color tones. Depending on the selected color mode, you can also adjust the midtone density using the **Gamma** setting.

Fix Photo

Improves the color, contrast, and sharpness of flawed photos.

Note: Fix Photo uses a sophisticated face recognition technology to optimize photos that include faces. For this to work, both eyes and the nose must be visible in the subject's face. If your photo includes a face with an intentional color cast, such as a statue, you may want to turn off **Fix Photo** to retain the special color effects.

ICM

Lets you manage color using installed color printing profiles.

No Color Adjustment

Turns off color management in your printer software so you can manage color using only your application software.

Parent topic: [Selecting Additional Layout and Print Options - Windows](#)

Image Options and Additional Settings - Windows

You can select any of the Image Options and Additional Settings to customize your print. Some options may be pre-selected or unavailable, depending on other settings you have chosen.

Image Options**Emphasize Text**

Adjusts the weight of printed text to increase readability.

Emphasize Thin Lines

Adjusts the weight of printed lines to increase visibility.

Edge Smoothing

Smooths jagged edges in low-resolution images such as screen captures or images from the Web.

Fix Red-Eye

Reduces or removes red-eye in photos.

Print Text in Black

Prints colored text in black.

For Color Text

Prints colored text on a background pattern or underlined.

For Color Graphs and Images

Prints colored graphics and images with overlay patterns.

For Color Text, Graphs, and Images

Prints colored text, graphics, and images with overlay patterns.

Enhancement Options

Specifies Color Universal Print enhancement settings for text, graphics, and images.

Additional Settings Options**Rotate 180°**

Prints the image rotated 180° from its original orientation.

High Speed

Speeds up printing but may reduce print quality.

Mirror Image

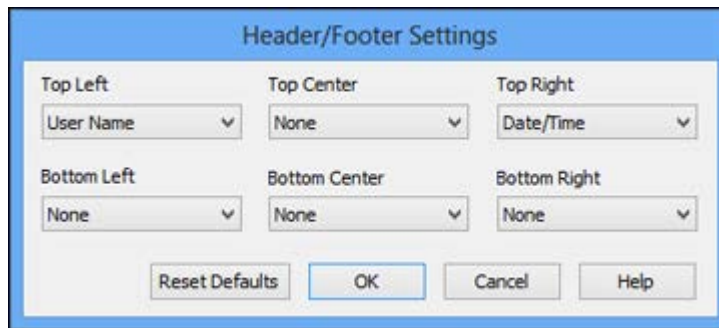
Flips the printed image left to right.

Parent topic: [Selecting Additional Layout and Print Options - Windows](#)

Header/Footer Settings - Windows

You can select any of the Header/Footer Settings options to add headers or footers when you print. The items are available to print at the top or bottom of your pages, in either the left, right, or center of the page.

Note: These settings are not saved with your document.



You can select to print the following information:

- User Name
- Computer Name
- Date
- Date/Time
- Collate Number (copy number)

Note: The user name, computer name, date, and time come from the Windows Control Panel on your computer.

Parent topic: [Selecting Additional Layout and Print Options - Windows](#)

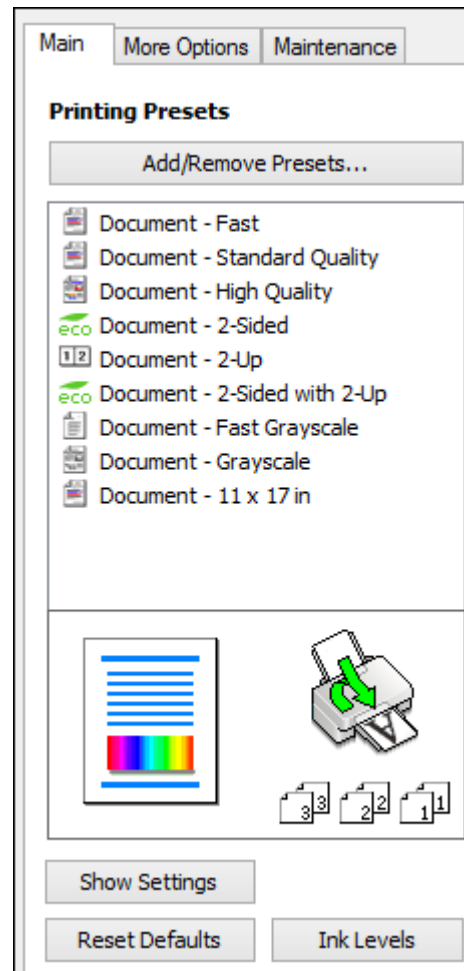
Selecting a Printing Preset - Windows

For quick access to common groups of print settings, you can select a printing preset on the Main or More Options tab.

Note: You can create your own preset by clicking the **Add/Remove Presets** button.

1. Click the **Main** or **More Options** tab.

You see the available **Printing Presets** on the left:



2. Place your cursor over one of the **Printing Presets** to view its list of settings.
3. Click on a preset to change its settings, or use any of the available options on the screen to control your printing presets.
4. To choose a preset for printing, select it.
5. Click **OK**.

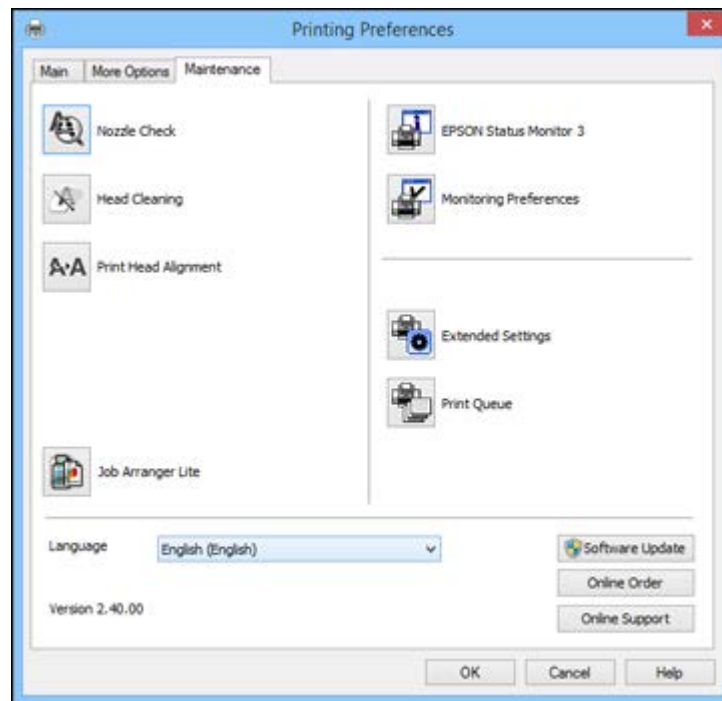
Parent topic: [Printing with Windows](#)

Selecting Extended Settings - Windows

You can select additional settings that apply to all the print jobs you send to your product.

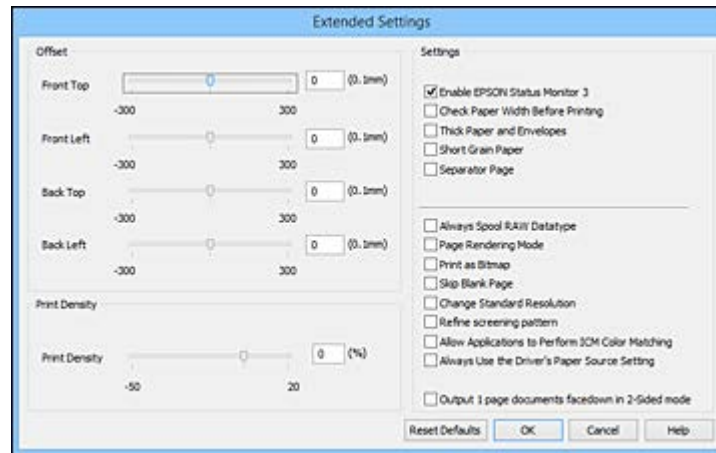
1. Access the Windows Desktop and right-click the product icon in the Windows taskbar.
2. Select **Printer Settings**.
3. Click the **Maintenance** tab.

You see the maintenance options:



- Click the **Extended Settings** button.

You see this window:



- Select any of the extended settings to customize your print.
- Click **OK** to close the Extended Settings window.
- Click **OK** to close the printer software window.

[Extended Settings - Windows](#)

Parent topic: [Printing with Windows](#)

Extended Settings - Windows

You can select from these settings on the Extended Settings window.

Enable EPSON Status Monitor 3

Enables product monitoring for ink and paper supplies and other issues.

Check Paper Width Before Printing

Prevents printing beyond the edges of the paper if the paper size setting is incorrect; may reduce print speed.

Thick Paper and Envelopes

Prevents ink from smearing when you print on envelopes or other thick paper.

Short Grain Paper

Prevents ink from smearing when you print on envelopes or other thick paper, and the **Thick Paper** setting does not help.

Separator Page

Before each document, prints a separator page containing the title, user, date, and time.

Always Spool RAW Datatype

Increases print speed and may solve other printing problems.

Page Rendering Mode

Increases print speed when printing is extremely slow or the print head stops during printing.

Print as Bitmap

Increases print speed when printing is extremely slow or the print head stops during printing, and other settings do not help.

Skip Blank Page

Ensures that your product does not print pages that contain no text or images.

Change Standard Resolution

Reduces the resolution of print data to correct printing problems.

Refine screening pattern

Prints graphics with a finer screening pattern.

Allow Applications to Perform ICM Color Matching

Allows applications to perform ICM color matching.

Always Use the Driver's Paper Source Setting

Prints using the paper source setting in the printer driver, rather than the setting in your application.

Output 1 page documents facedown in 2-Sided mode

Outputs single-sided pages in a 2-sided print job facedown instead of faceup.

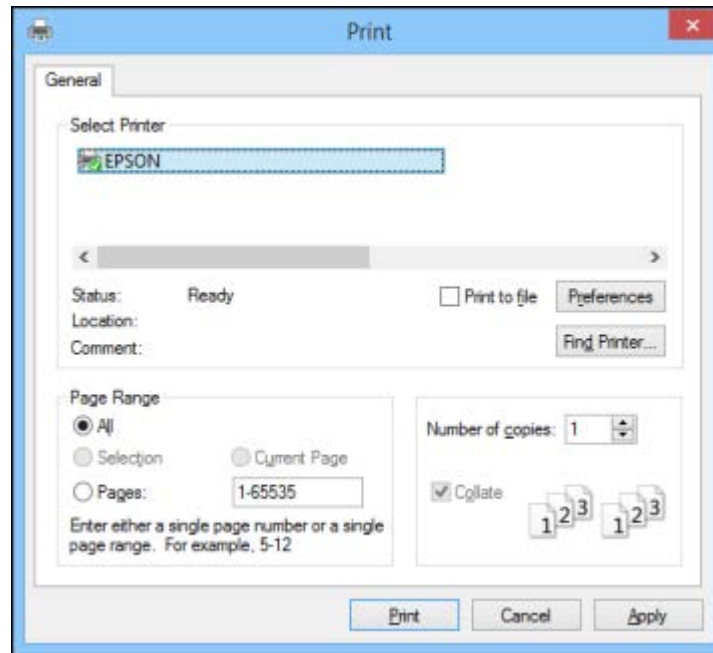
Parent topic: [Selecting Extended Settings - Windows](#)

Printing Your Document or Photo - Windows

Once you have selected your print settings, you are ready to save your settings and print.

1. Click **OK** to save your settings.

You see your application's Print window, such as this one:



2. Click **OK** or **Print** to start printing.

Parent topic: [Printing with Windows](#)

Locking Printer Settings - Windows

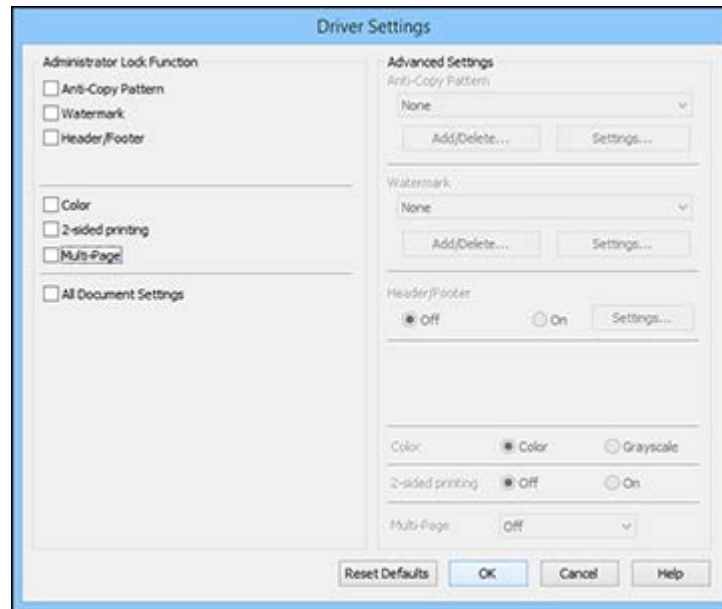
Administrators can lock some printer settings to prevent unauthorized changes. The following settings can be locked:

- Anti-copy pattern
- Watermark
- Header/footer
- Color printing
- 2-sided printing
- Multi-page printing

- All document settings
1. Do one of the following:
 - **Windows 8.x:** Navigate to the **Apps** screen and select **Control Panel > Hardware and Sound > Devices and Printers**. Right-click your product and select **Printer properties**.
 - **Windows 7:** Click  and select **Devices and Printers**. Right-click your product and select **Printer properties**.
 - **Windows Vista:** Click  and select **Control Panel**. Click **Printer** under **Hardware and Sound**, then right-click your product and select **Properties**.
 - **Windows XP:** Click **Start** and select **Printers and Faxes**. Right-click your product and select **Properties**.
 2. Click the **Optional Settings** tab.

Note: You can prevent access to the **Optional Settings** tab by changing the user or group permissions in the **Security** tab.
 3. Click **Driver Settings**.

You see this window:



4. Select the checkbox for the function or functions you want to lock. To lock all print settings, select **All Document Settings**.
5. Under **Advanced Settings**, select the setting you want for each selected function.
6. Click **OK**.

[Administrator Lock Settings](#)

Parent topic: [Printing with Windows](#)

Administrator Lock Settings

Select the settings you want to use for locking print functions.

Printing function	Available settings	Description
Anti-Copy Pattern	Various data items	Lets you select the data to use for the pattern (or prohibit anti-copy patterns)
	Add/Delete	Lets you add (or delete) a customized anti-copy pattern
	Settings	Lets you select the arrangement, size, and other settings for the custom anti-copy pattern
Watermark	Various text watermarks	Lets you select the text for the watermark (or prohibit watermarks)
	Add/Delete	Lets you add (or delete) a customized text or image-based watermark
	Settings	Lets you select the size, position, color and other watermark settings
Header/Footer	Off	Prohibits headers or footers
	On	Allows headers and footers
	Settings	Lets you select the text and position for printing headers and/or footers
Color	Color	Allows color printing
	Grayscale	Prints in black or shades of gray only
2-sided printing	Off	Allows printing on one side of the paper only
	On	Allows printing on both sides of the paper
Multi-Page	Off	Prohibits multi-page settings
	2-Up	Prints 2 pages on one sheet of paper
	4-Up	Prints 4 pages on one sheet of paper

Parent topic: [Locking Printer Settings - Windows](#)

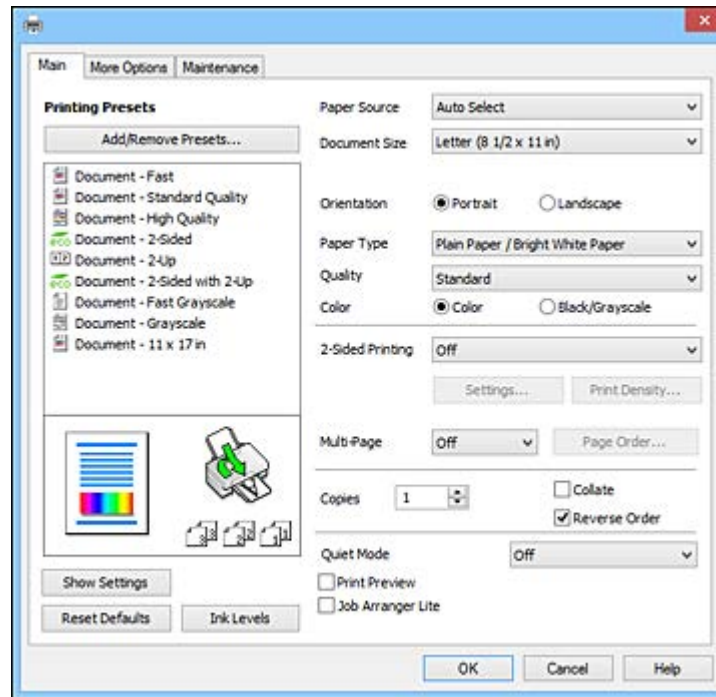
Selecting Default Print Settings - Windows

When you change your print settings in a program, the changes apply only while you are printing in that program session. If you want to change the print settings you use in all your Windows programs, you can select new default print settings.

1. Access the Windows Desktop and right-click the product icon in the Windows taskbar.

2. Select **Printer Settings**.

You see the printer settings window:



3. Select the print settings you want to use as defaults in all your Windows programs.

4. Click **OK**.

These settings are now the defaults selected for printing. You can still change them as needed for printing in any program session.

[Changing the Language of the Printer Software Screens](#)

Parent topic: [Printing with Windows](#)

Changing the Language of the Printer Software Screens

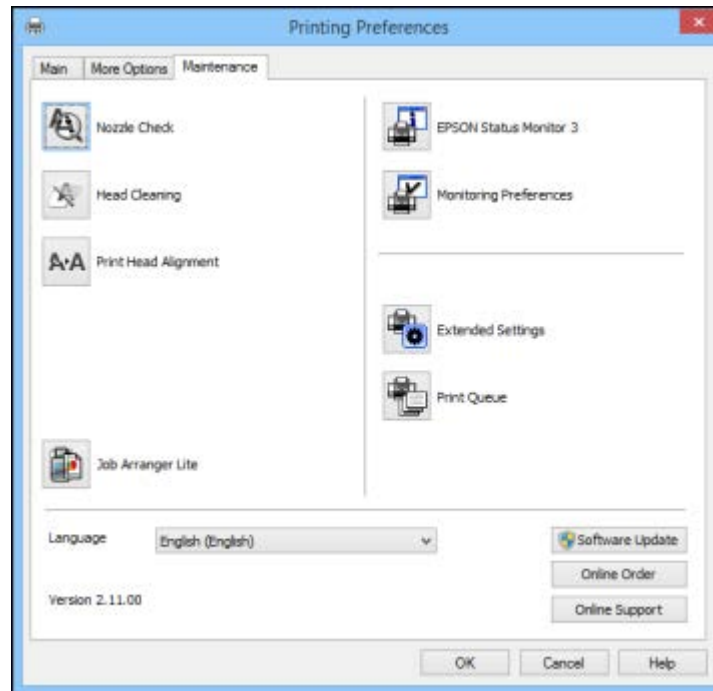
You can change the language used on the Windows printer software screens.

1. Access the Windows Desktop and right-click the product icon in the Windows taskbar.
2. Select **Printer Settings**.

You see the printer settings window.

3. Click the **Maintenance** tab.

You see the maintenance options:



4. Select the language you want to use as the **Language** setting.
5. Click **OK** to close the printer software window.

The printer software screens appear in the language you selected the next time you access them.

Parent topic: [Selecting Default Print Settings - Windows](#)

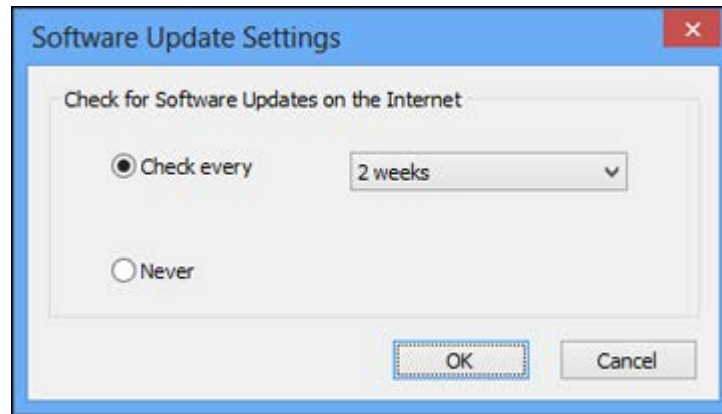
Changing Automatic Update Options

Your printer software for Windows automatically checks for updates to the product software. You can change how often the software checks for updates or disable this feature.

1. Access the Windows Desktop and right-click the product icon in the Windows taskbar.

2. Select **Software Update Settings**.

You see this window:



3. Do one of the following:
 - To change how often the software checks for updates, select a setting in the **Check every** menu.
 - To disable the automatic update feature, select the **Never** option.
4. Click **OK** to exit.

Note: If you choose to disable the automatic update feature, you can check for updates manually.

Parent topic: [Printing with Windows](#)

Related tasks

[Checking for Software Updates](#)

Printing with OS X

You can print with your product using any OS X printing program, as described in these sections.

Note: If you have an Internet connection, it is a good idea to check for updates to your product software on Epson's support website.

[Selecting Basic Print Settings - OS X](#)

[Selecting Page Setup Settings - OS X](#)

[Selecting Print Layout Options - OS X](#)

[Selecting Double-sided Printing Settings - OS X](#)

[Managing Color - OS X](#)

[Selecting Printing Preferences - OS X](#)

[Printing Your Document or Photo - OS X](#)

Parent topic: [Printing from a Computer](#)

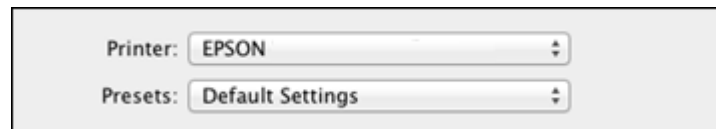
Selecting Basic Print Settings - OS X

Select the basic settings for the document or photo you want to print.

1. Open a photo or document for printing.
2. Select the print command in your application.

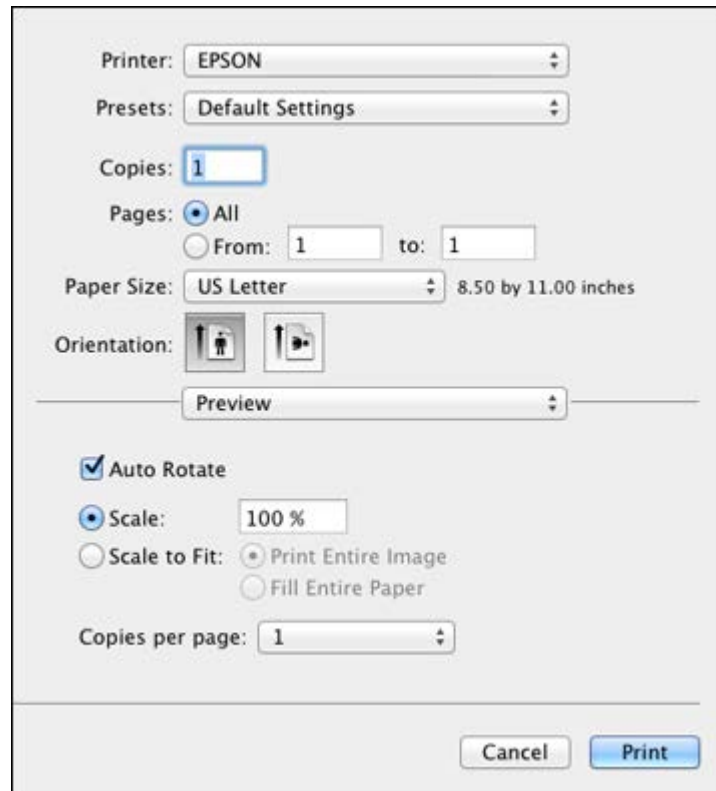
Note: You may need to select a print icon on your screen, the **Print** option in the File menu, or another command. See your application's help utility for details.

3. Select your product as the **Printer** setting.



4. If necessary, click the arrow next to the Printer setting or the **Show Details** button to expand the print window.

You see the expanded printer settings window for your product:



The image shows a standard macOS printer settings dialog box. At the top, the 'Printer' dropdown is set to 'EPSON' and 'Presets' is set to 'Default Settings'. Below these, the 'Copies' field is set to 1. The 'Pages' section has the 'All' radio button selected, with 'From' and 'to' fields both set to 1. The 'Paper Size' is set to 'US Letter' (8.50 by 11.00 inches). The 'Orientation' section shows two icons: a portrait orientation icon (selected) and a landscape orientation icon. Below the orientation icons is a 'Preview' dropdown menu. Further down, the 'Auto Rotate' checkbox is checked. The 'Scale' section has the 'Scale' radio button selected with a value of 100%. The 'Scale to Fit' section has two options: 'Print Entire Image' (selected) and 'Fill Entire Paper'. At the bottom, the 'Copies per page' field is set to 1. The dialog box has 'Cancel' and 'Print' buttons at the bottom right.

Note: The print window may look different, depending on the version of OS X and the application you are using.

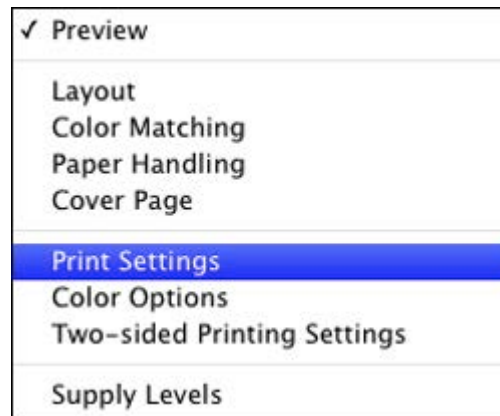
5. Select the **Copies** and **Pages** settings as necessary.

Note: If you do not see these settings in the print window, check for them in your application before printing.

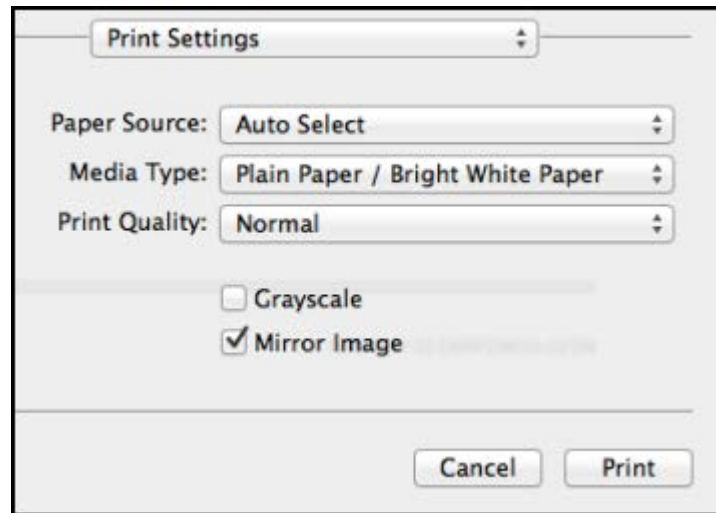
6. Select the page setup options: **Paper Size** and **Orientation**.

Note: If you do not see these settings in the print window, check for them in your application before printing. They may be accessible by selecting **Page Setup** from the File menu.

7. Select any application-specific settings that appear on the screen, such as those shown in the image above for the Preview application.
8. Select **Print Settings** from the pop-up menu.



You see these settings:



9. Select the **Paper Source** you wish to print from.
10. Select the type of paper you loaded as the **Media Type** setting.

Note: The setting may not exactly match the name of your paper. Check the paper type settings list for details.

11. Select the **Print Quality** setting you want to use.
12. Select any of the available print options.

[Paper Source Options - OS X](#)

[Print Quality Options - OS X](#)

[Print Options - OS X](#)

Parent topic: [Printing with OS X](#)

Related references

[Paper or Media Type Settings - Printing Software](#)

Related tasks

[Selecting Page Setup Settings - OS X](#)

[Printing Your Document or Photo - OS X](#)

Paper Source Options - OS X

You can select any of the available options in the Paper Source menu to print on the paper loaded in that source.

Auto Select

Automatically selects the paper source based on the selected paper size.

Cassette 1

Selects the paper in cassette 1 as the paper source.

Cassette 2

Selects the paper in cassette 2 as the paper source.

Rear Paper Feed Slot

Selects the paper in the rear feed slot as the paper source.

Parent topic: [Selecting Basic Print Settings - OS X](#)

Print Quality Options - OS X

You can select any of the available Print Quality options to fine-tune the quality of your print. Some settings may be unavailable, depending on the paper type setting you have chosen.

Draft

For draft printing on plain paper.

Normal

For everyday text and image printing.

Normal - Vivid

For everyday text and image printing with good quality and print speed.

Fine

For text and graphics with good quality and print speed.

Quality

For text and graphics with increased quality and print speed.

Best Quality

For the best print quality, but the slowest print speed.

Parent topic: [Selecting Basic Print Settings - OS X](#)

Print Options - OS X

You can select any of the print options to customize your print. Some options may be unavailable, depending on other settings you have chosen.

Grayscale

Prints text and graphics in black or shades of gray.

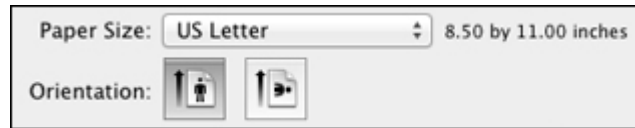
Mirror Image

Lets you flip the printed image horizontally.

Parent topic: [Selecting Basic Print Settings - OS X](#)

Selecting Page Setup Settings - OS X

Depending on your application, you may be able to select the paper size and orientation settings from the print window.



Note: If you do not see these settings in the print window, check for them in your application before printing. They may be accessible by selecting **Page Setup** from the File menu.

1. Select the size of the paper you loaded as the **Paper Size** setting.
2. Select the orientation of your document or photo as shown in the print window.

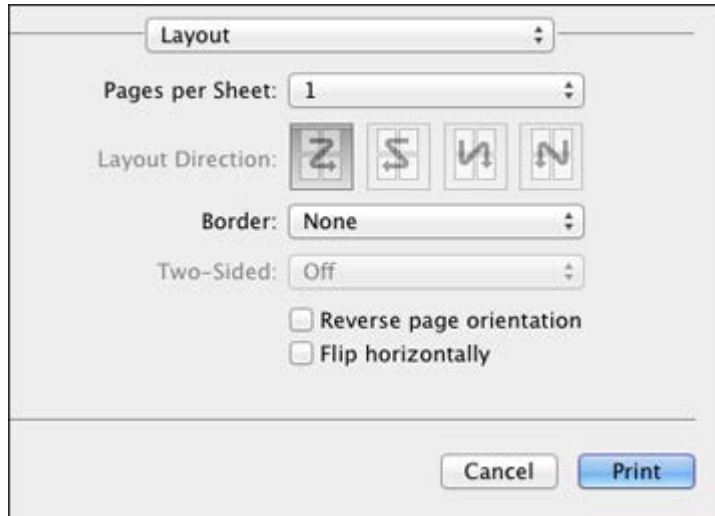
Note: If you are printing an envelope, select the  icon.

Note: You can reduce or enlarge the size of the printed image by selecting **Paper Handling** from the pop-up menu and selecting a scaling option.

Parent topic: [Printing with OS X](#)

Selecting Print Layout Options - OS X

You can select a variety of layout options for your document or photo by selecting **Layout** from the pop-up menu on the print window.

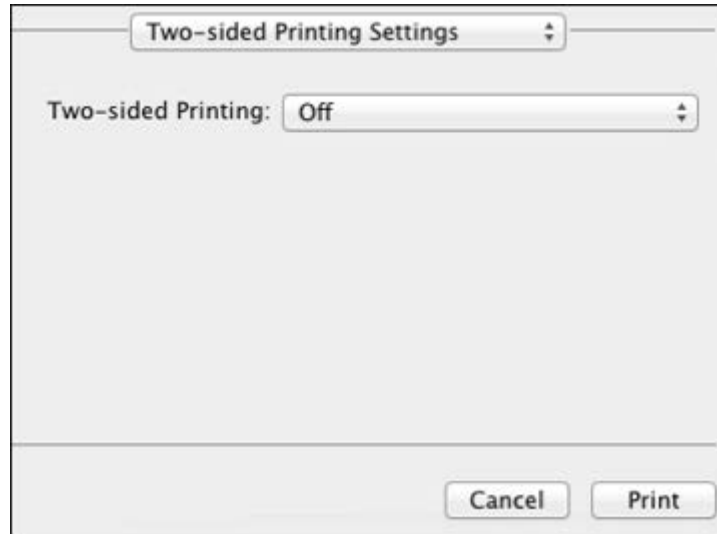


- To print multiple pages on one sheet of paper, select the number of pages in the **Pages per Sheet** pop-up menu. To arrange the print order of the pages, select a **Layout Direction** setting.
- To print borders around each page on the sheet, select a line setting from the **Border** pop-up menu.
- To invert or flip the printed image, select the **Reverse page orientation** or **Flip horizontally** settings.

Parent topic: [Printing with OS X](#)

Selecting Double-sided Printing Settings - OS X

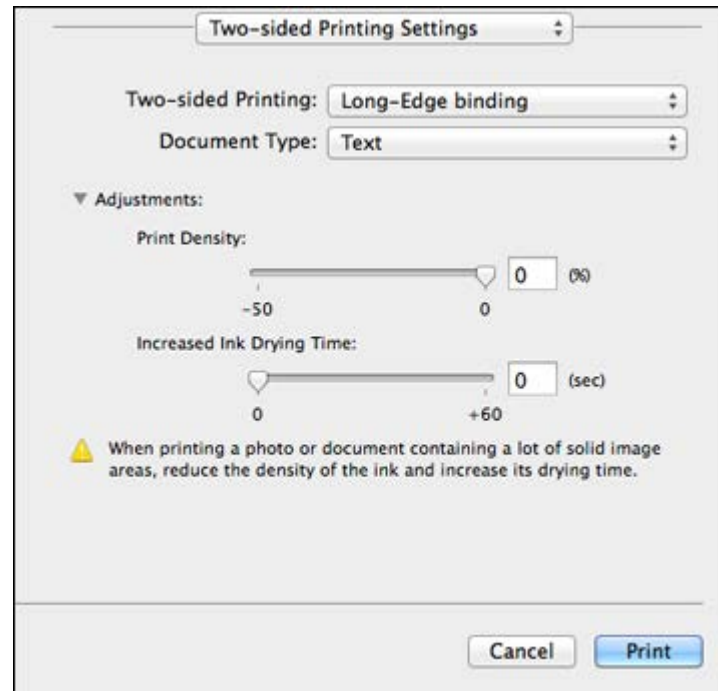
You can print on both sides of the paper by selecting **Two-sided Printing Settings** from the pop-up menu on the print window.



Note: Some options may be pre-selected or unavailable, depending on other settings you have chosen or if you are accessing the product over a network. This screen may be different, depending on the version of OS X you are using.

1. Select one of the **Two-sided Printing** options.

2. Select the type of document you are printing as the **Document Type** setting. The software automatically sets the Adjustments options for that document type.



3. If necessary, customize the Adjustments settings as instructed on the screen.
4. Print a test copy of your double-sided document to test the selected settings.
5. Follow any instructions displayed on the screen during printing.

[Double-sided Printing Options and Adjustments - OS X](#)

Parent topic: [Printing with OS X](#)

Double-sided Printing Options and Adjustments - OS X

You can select any of the available options in the **Two-sided Printing Settings** or **Output Settings** pop-up menu to set up your double-sided print job.

Two-sided Printing Options

Long-Edge binding

Orients double-sided printed pages to be bound on the long edge of the paper.

Short-Edge binding

Orients double-sided printed pages to be bound on the short edge of the paper.

Adjustments

Print Density

Sets the level of ink coverage for double-sided printing.

Increased Ink Drying Time

Sets the amount of time required for drying ink after printing on one side of the paper before printing the other side in double-sided printing.

Parent topic: [Selecting Double-sided Printing Settings - OS X](#)

Managing Color - OS X

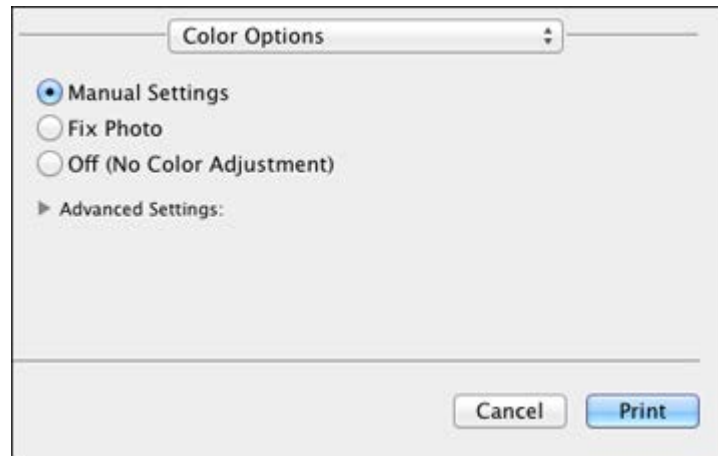
You can adjust the Color Matching and Color Options settings to fine-tune the colors in your printout, or turn off color management in your printer software.

1. Select **Color Matching** from the pop-up menu in the print window.



2. Select one of the available options.

3. Select **Color Options** from the pop-up menu in the print window.



Note: The available settings on the Color Options menu depend on the option you selected on the Color Matching menu.

4. Select one of the available options.

[Color Matching and Color Options - OS X](#)

Parent topic: [Printing with OS X](#)

Color Matching and Color Options - OS X

You can select from these settings on the **Color Matching** and **Color Options** menus.

Color Matching Settings

EPSON Color Controls

Lets you manage color using controls in your printer software or turn off color management.

ColorSync

Prints using standard color profiles for your product and paper to help match image colors. You can customize the conversion method and filter settings on the ColorSync pop-up menu in the print window.

Color Options Settings

Manual Settings

Lets you select manual color adjustments. Click the arrow next to **Advanced Settings** and select settings for **Brightness**, **Contrast**, **Saturation**, and individual color tones. You can also select a color **Mode** setting for printing photos and graphics and the **Fix Red-Eye** setting to reduce or remove red-eye in photos. Depending on the selected color mode, you can also adjust the midtone density using the **Gamma** setting.

Fix Photo

Improves the color, contrast, and sharpness of flawed photos. Click the arrow next to **Advanced Settings** and select the **Fix Red-Eye** setting to reduce or remove red-eye in photos.

Note: Fix Photo uses a sophisticated face recognition technology to optimize photos that include faces. For this to work, both eyes and the nose must be visible in the subject's face. If your photo includes a face with an intentional color cast, such as a statue, you may want to turn off **Fix Photo** to retain the special color effects.

Off (No Color Adjustment)

Turns off color management in your printer software so you can manage color using only your application software.

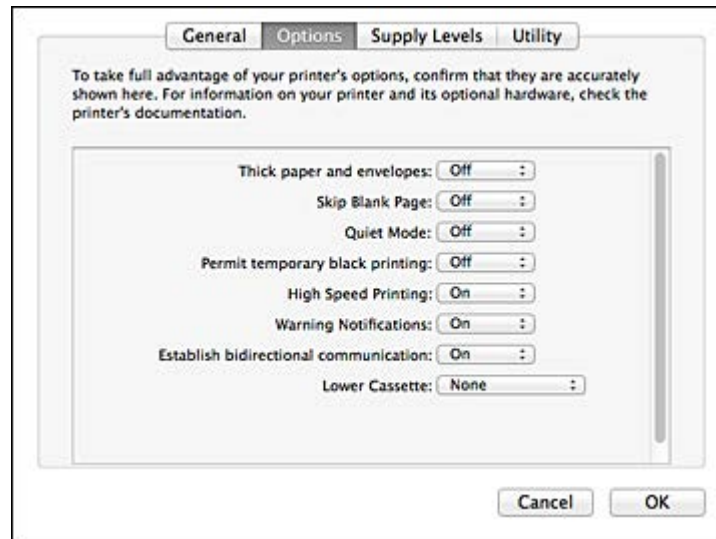
Parent topic: [Managing Color - OS X](#)

Selecting Printing Preferences - OS X

You can select printing preferences that apply to all the print jobs you send to your product.

1. In the Apple menu or the Dock, select **System Preferences**.
2. Select **Print & Fax**, **Print & Scan**, or **Printers & Scanners**, select your product, and select **Options & Supplies**.
3. Select **Driver** or **Options**.

You see a screen like this:



4. Select any of the available printing preferences.
5. Click **OK**.

[Printing Preferences - OS X](#)

Parent topic: [Printing with OS X](#)

Printing Preferences - OS X

You can select from these settings on the **Options** or **Driver** tab.

Thick Paper and Envelopes

Prevents ink from smearing when you print on envelopes or other thick paper.

Skip Blank Page

Ensures that your product does not print pages that contain no text or images.

Quiet Mode

Lessens noise during printing but may decrease print speed.

Permit temporary black printing

Allows you to print using black ink when color ink is expended.

High Speed Printing

Speeds up printing but may reduce print quality.

Warning Notifications

Lets you choose whether or not to receive warning notifications from the printer software for various operating conditions.

Establish bidirectional communication

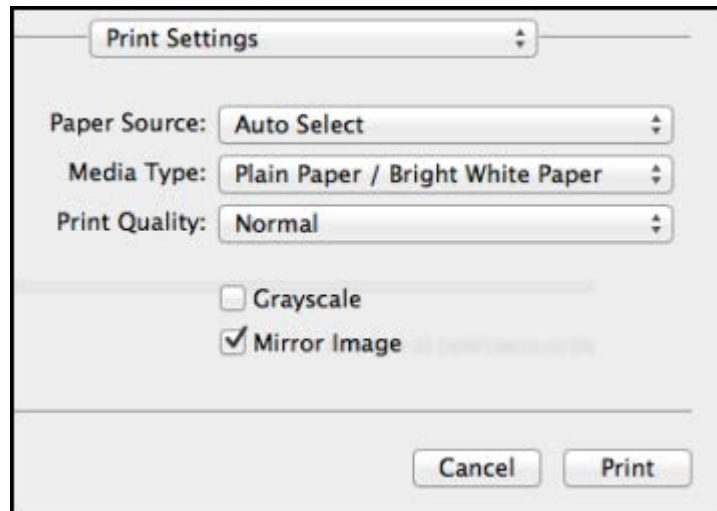
Allows the product to communicate with the computer. Do not change the default setting unless you experience issues when using a shared printing pool.

Parent topic: [Selecting Printing Preferences - OS X](#)

Printing Your Document or Photo - OS X

Once you have selected your print settings, you are ready to print.

Click **Print** at the bottom of the print window.



[Checking Print Status - OS X](#)

Parent topic: [Printing with OS X](#)

Checking Print Status - OS X

During printing, you can view the progress of your print job, control printing, and check ink status.

1. Click the printer icon when it appears in the Dock.

You see the print status window:



2. Select the following options as necessary:

OS X 10.5/10.6/10.7:

- To cancel printing, click the print job and click the **Delete** icon.
- To pause a print job, click the print job and click the **Hold** icon. To resume a print job, click the print job marked "Hold" and click the **Resume** icon.
- To pause printing for all queued print jobs, click the **Pause Printer** icon.
- To check ink status, click the **Supply Levels** icon.

OS X 10.8/10.9:

- To cancel printing, click the  button next to the print job.
- To pause a print job, click the  button next to the print job. To resume a print job, click the  button.
- To pause printing for all queued print jobs, click the large **Pause** button.
- To check ink status, click the **Settings** icon, then click the **Supply Levels** tab.

Parent topic: [Printing Your Document or Photo - OS X](#)

Printing with the Epson Universal Print Driver - Windows

You can print with the Epson Universal Print Driver using any Windows printing program, as described in these sections.

[Installing the Epson Universal Print Driver - Windows](#)

[Synchronizing Printer Settings - Epson Universal Print Driver - Windows](#)

[Selecting Basic Print Settings - Epson Universal Print Driver - Windows](#)

[Selecting Additional Layout and Print Options - Epson Universal Print Driver - Windows](#)

[Selecting Maintenance Options - Epson Universal Print Driver - Windows](#)

[Selecting Default Print Settings - Epson Universal Print Driver - Windows](#)

[Locking Printer Settings - Epson Universal Print Driver - Windows](#)

[Adding Network Printers - Epson Universal Print Driver - Windows](#)

Parent topic: [Printing from a Computer](#)

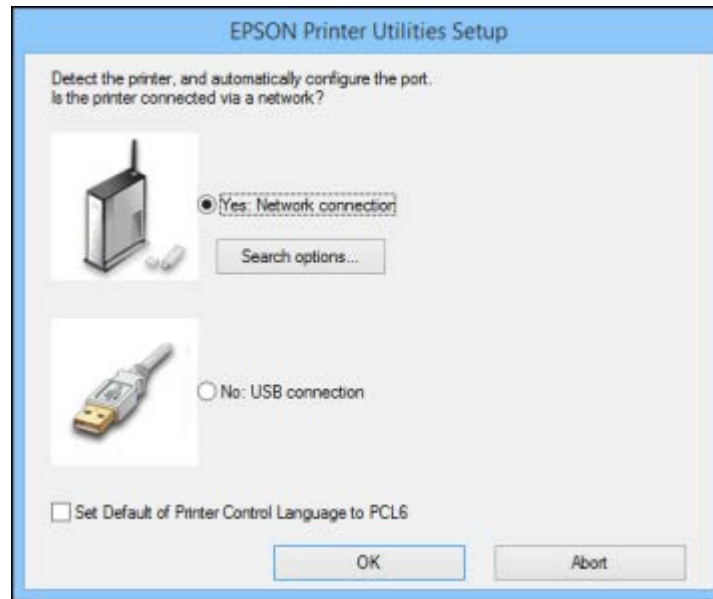
Installing the Epson Universal Print Driver - Windows

The Epson Universal Print Driver supports multiple printer languages, such as PCL and ESC/P-R, and can be installed on a Windows computer.

Note: Make sure your product is turned on and connected to the same network as your computer before installing the printer software.

1. Download the **EPSON Universal Print Driver** from epson.com/support/wf8090.
2. Double-click the downloaded package.

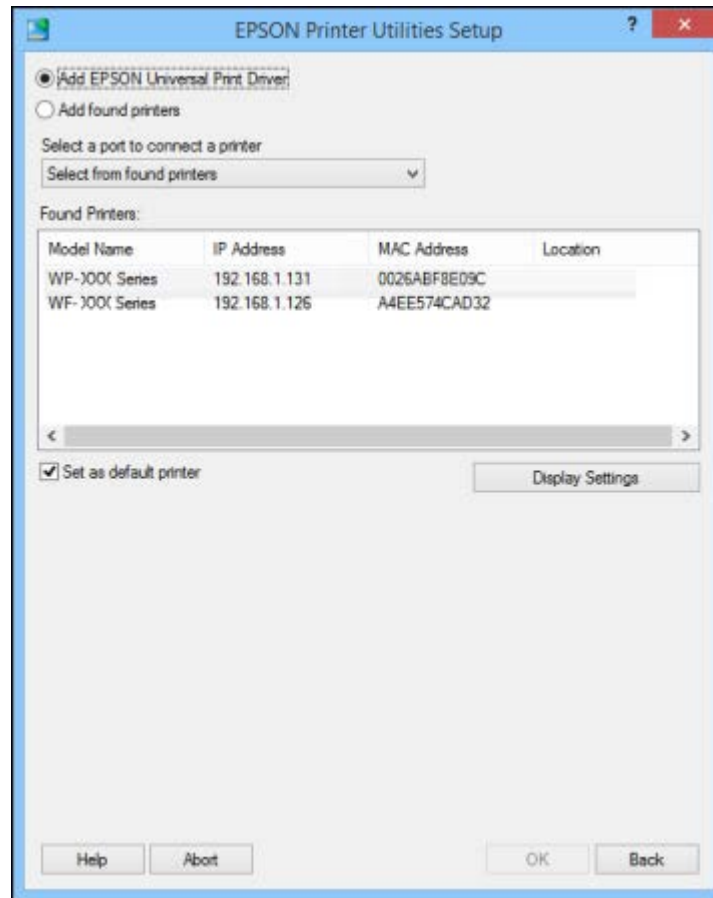
3. Follow the on-screen instructions until you see the screen below.



4. Select **Yes: Network connection** and click **OK**.

Note: Select the **Set Default of Printer Control Language to PCL6** checkbox if you want to set the default printer language to PCL6. Leave this option deselected to set the printer language to ESC/P-R. (You can change this setting later as needed.)

After the software finishes searching for products, you see a screen like this:



5. Do one of the following:

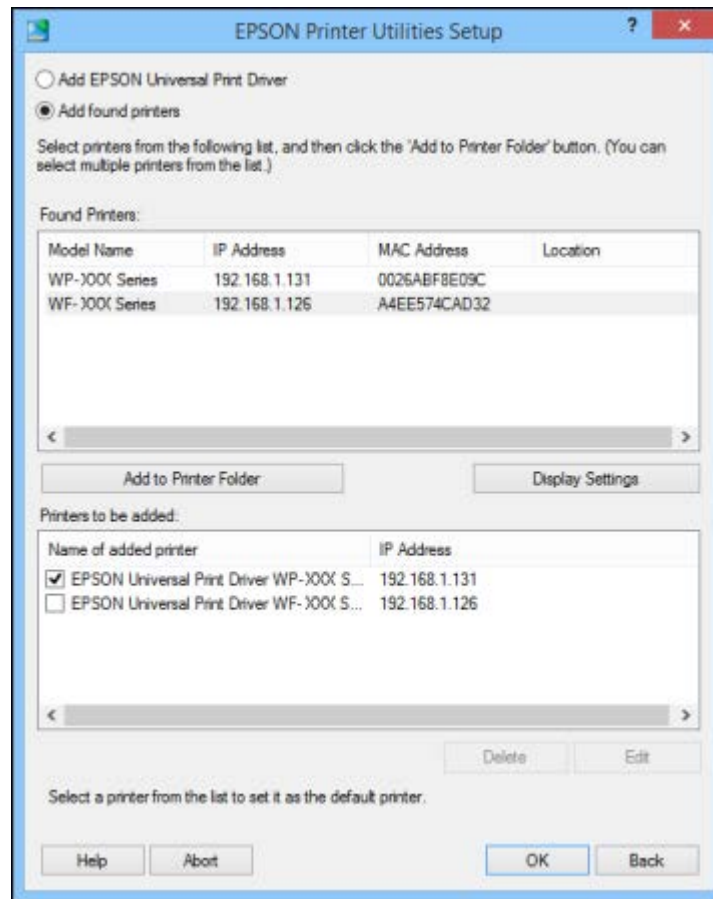
- If you are installing one product, make sure **Add EPSON Universal Print Driver** is selected, and continue with the next step.
- If you are installing more than one product, select **Add found printers**, and go to step 9.

Note: You can customize and filter your product search results by clicking **Display Settings**.

6. Open the **Select a port to connect a printer** pop-up menu and select an existing printer port if necessary. Otherwise, skip this option to have a new port created automatically.
7. Select the product you want to install from the Found Printers list.

Note: Deselect the **Set as default printer** checkbox if you do not want the product to be set as your default printer.

8. Click **OK**, then skip the remaining steps.
9. Select each product you want to install and click **Add to Printer Folder**.



The selected products appear in the lower section of the screen.

10. Select the checkbox next to a product to make it your default printer if necessary.
11. Click **OK**.

Parent topic: [Printing with the Epson Universal Print Driver - Windows](#)

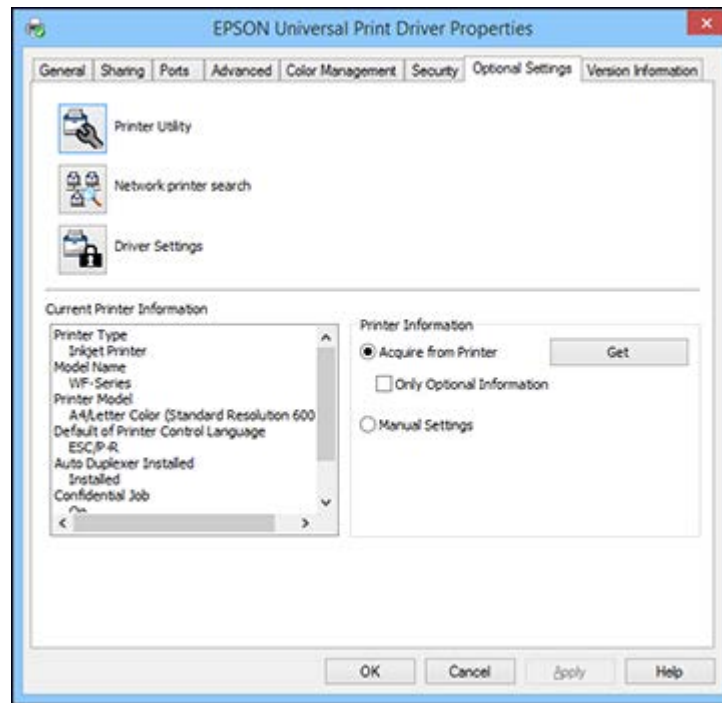
Synchronizing Printer Settings - Epson Universal Print Driver - Windows

You may need to synchronize the printer driver with the product if the printer driver does not detect the correct information or settings from the product.

Note: You must sync the printer driver before you can use any optional equipment installed on the product, such as an optional cassette unit.

1. Do one of the following:
 - **Windows 8.x:** Navigate to the **Apps** screen and select **Control Panel > Hardware and Sound > Devices and Printers**. Right-click **EPSON Universal Print Driver** and select **Printer properties**.
 - **Windows 7:** Click  and select **Devices and Printers**. Right-click **EPSON Universal Print Driver** and select **Printer properties**.
 - **Windows Vista:** Click  and select **Control Panel**. Click **Printer** under **Hardware and Sound**, then right-click **EPSON Universal Print Driver** and select **Properties**.
 - **Windows XP:** Click **Start** and select **Printers and Faxes**. Right-click **EPSON Universal Print Driver** and select **Properties**.
2. Click the **Optional Settings** tab.

You see this window:



3. Make sure **Acquire from Printer** is selected and click **Get**.

Note: Select the **Only Optional Information** checkbox if you only want to enable optional equipment, such as an optional cassette unit.

The product's settings and other information appears in the Current Printer Information area.

4. Click **OK**.

Parent topic: [Printing with the Epson Universal Print Driver - Windows](#)

Related tasks

[Enabling the Optional Paper Cassettes - Windows](#)

[Enabling the Optional Paper Cassettes - PostScript Printer Software - Windows](#)

Selecting Basic Print Settings - Epson Universal Print Driver - Windows

Select the basic settings for the document or photo you want to print.

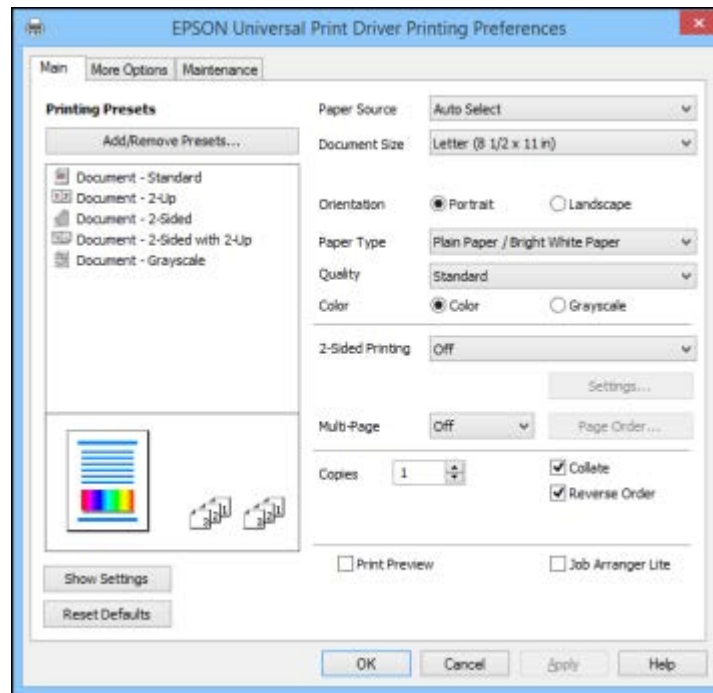
1. Open a photo or document for printing.
2. Select the print command in your application.

Note: You may need to select a print icon on your screen, the **Print** option in the **File** menu, or another command. See your application's help utility for details.

3. If necessary, select **EPSON Universal Print Driver** as the printer you want to use.

Note: You may also need to select **Properties** or **Preferences** to view your print settings.

You see the Main tab of your printer settings window:



Note: For more information about a setting, right-click it and select **Help**.

4. For the **Paper Source** setting, select where you loaded the paper you want to print on.
5. Select the size of the paper you loaded as the **Document Size** setting.

Note: You can also select the **User-Defined** setting to create a custom paper size.

6. Select the orientation of your document.

Note: If you are printing an envelope, select **Landscape**.

7. Select the type of paper you loaded as the **Paper Type** setting.

Note: The setting may not exactly match the name of your paper. Check the paper type settings list for details.

8. Select the **Quality** setting that matches the print quality you want to use.
9. Select a Color option:
 - To print a color document or photo, select the **Color** setting.
 - To print text and graphics in black or shades of gray, select the **Grayscale** setting.
10. To print on both sides of the paper, select one of the **2-Sided Printing** settings.
11. To print multiple pages on one sheet of paper, or print one image on multiple sheets of paper, select one of the settings in the **Multi-Page** menu and select the printing options you want.
12. To print multiple copies and arrange their print order, select the **Copies** options.
13. To preview your job before printing, select **Print Preview**.
14. To save your print job as a project that can be modified and combined with other print jobs, select **Job Arranger Lite**.

Parent topic: [Printing with the Epson Universal Print Driver - Windows](#)

Related references

[Paper or Media Type Settings - Printing Software](#)

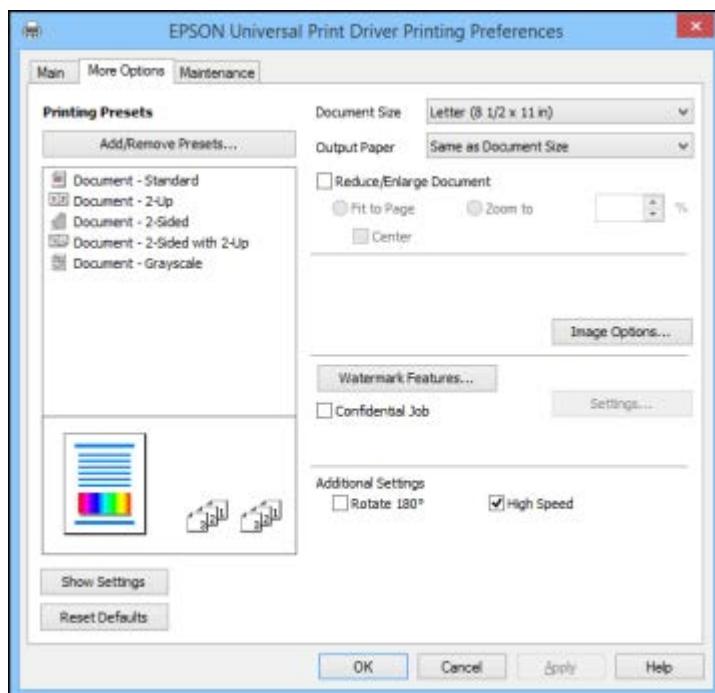
[Paper Source Options - Windows](#)

[Print Quality Options - Windows](#)

[Multi-Page Printing Options - Windows](#)

Selecting Additional Layout and Print Options - Epson Universal Print Driver - Windows

You can select a variety of additional layout and printing options for your document or photo on the More Options tab.



Note: For more information about a setting, right-click it and select **Help**.

1. To change the size of your printed document or photo, select the **Reduce/Enlarge Document** checkbox and select one of these sizing options:
 - Select the **Fit to Page** option to size your image to fit the paper you loaded. Select the size of the your document or photo as the **Document Size** setting, and the size of your paper as the **Output Paper** setting. If you want to center your image on the paper, select the **Center** option.
 - Select the **Zoom to** option to reduce or enlarge your document or photo by a specific percentage. Select the percentage in the % menu.

2. Select one of the following Color Correction options:
 - Select **Automatic** to automatically adjust the sharpness, brightness, contrast, and color saturation for your image.
 - Select **Custom** and click the **Advanced** button to manually adjust the color correction settings or turn off color management in your printer software.
 - Select **Image Options** to access additional settings for improving printed images.

3. To add the following features, click the **Watermark Features** button:

- **Watermark:** adds a visible watermark to your printout.

Note: Click the **Add/Delete** button to create your own watermark, and click the **Settings** button to customize the watermark.

- **Header/Footer:** adds information such as the date and time to the top or bottom of your printout.

Note: Click the **Settings** button to customize the text and location of the header or footer.

4. To add a password to your print job, select the **Confidential Job** checkbox, then enter a password. Confidential jobs are stored in the product's memory without being printed. To print the job, enter the password for the confidential job on the product's control panel.

Note: Confidential print jobs are cleared from the product's memory after printing.

5. Select any of the Additional Settings options to customize your print.

Parent topic: [Printing with the Epson Universal Print Driver - Windows](#)

Related references

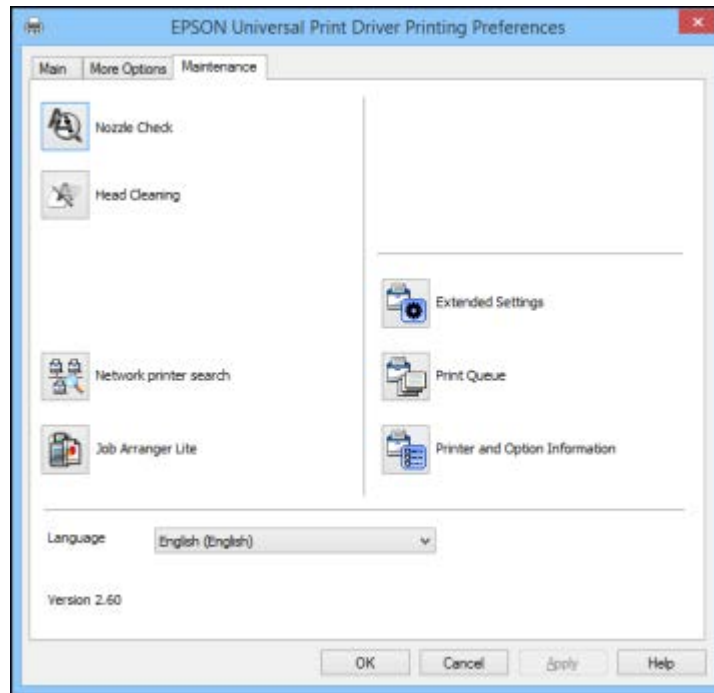
[Custom Color Correction Options - Windows](#)

[Image Options and Additional Settings - Windows](#)

[Header/Footer Settings - Windows](#)

Selecting Maintenance Options - Epson Universal Print Driver - Windows

You can select maintenance and other optional settings on the Maintenance tab.



Note: For more information about a setting, right-click it and select **Help**.

- **Nozzle Check** lets you print a nozzle check pattern to check for clogged nozzles.
- **Head Cleaning** lets you clean the print head.
- **Network printer search** lets you search for and connect to a product on the network.
- **Job Arranger Lite** lets you save your print job as a project that can be modified and combined with other print jobs.
- **Extended Settings** lets you change a variety of print settings.
- **Print Queue** displays all the print jobs in queue. You can also cancel or restart print jobs.

- **Printer and Option Information** displays information on the printer settings and any optional equipment installed.
- **Language** lets you change the language of the printer software screens.

[Extended Settings - Epson Universal Print Driver - Windows](#)

Parent topic: [Printing with the Epson Universal Print Driver - Windows](#)

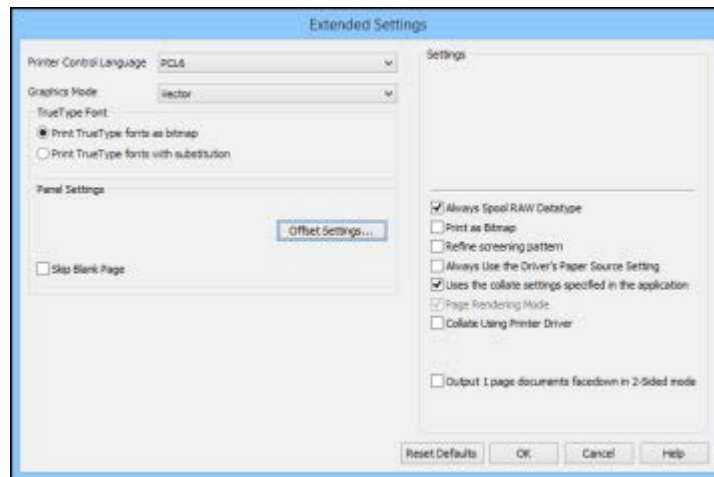
Related concepts

[Print Head Nozzle Check](#)

[Print Head Cleaning](#)

Extended Settings - Epson Universal Print Driver - Windows

You can select from these settings on the Extended Settings window.



Printer Control Language

Lets you select the printer control language.

Graphics Mode

Lets you select the mode by which to output PDL commands to the product.

TrueType Font

Lets you select how you want to print TrueType fonts.

Offset Settings

Lets you make fine-tune adjustments to the print position of data on your printout.

Skip Blank Page

Ensures that your product does not print pages that contain no text or images.

Always Spool RAW Datatype

Increases print speed and may solve other printing problems.

Print as Bitmap

Increases print speed when printing is extremely slow or the print head stops during printing, and other settings do not help.

Refine screening pattern

Prints graphics with a finer screening pattern.

Always Use the Driver's Paper Source Setting

Prints using the paper source setting in the printer driver, rather than the setting in your application.

Uses the collate settings specified in the application

Prints using the collate setting in your application.

Page Rendering Mode

Increases print speed when printing is extremely slow or the print head stops during printing.

Collate Using Printer Driver

Prints and collates multi-page documents using the printer driver. Deselect this checkbox to use the product to collate your print jobs instead. (This setting is automatically enabled if there is not enough memory on the product to collate your print job.)

Output 1 page documents facedown in 2-Sided mode

Outputs single-sided pages in a 2-sided print job facedown instead of faceup.

Parent topic: [Selecting Maintenance Options - Epson Universal Print Driver - Windows](#)

Selecting Default Print Settings - Epson Universal Print Driver - Windows

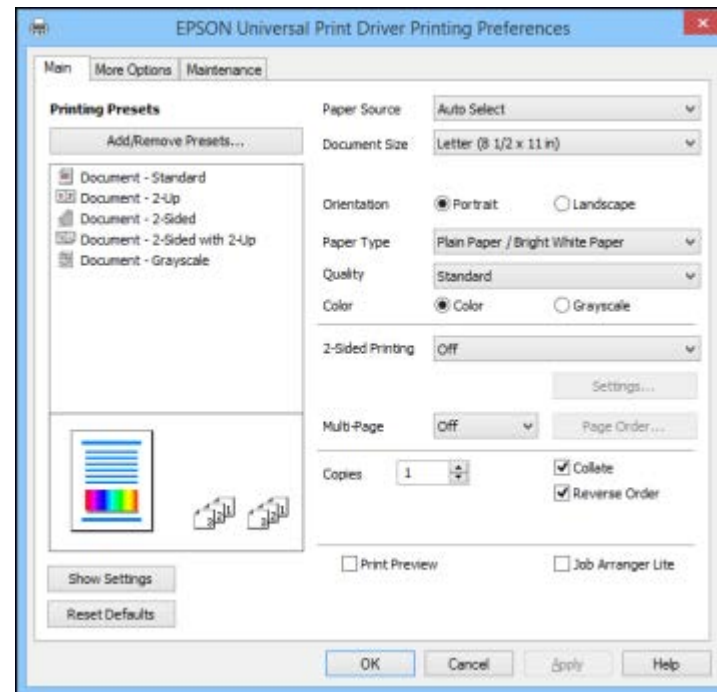
When you change your print settings in a program, the changes apply only while you are printing in that program session. If you want to change the print settings you use in all your Windows programs, you can select new default print settings.

1. Do one of the following:

- **Windows 8.x:** Navigate to the **Apps** screen and select **Control Panel > Hardware and Sound > Devices and Printers**. Right-click **EPSON Universal Print Driver** and select **Print Preferences**.
- **Windows 7:** Click  and select **Devices and Printers**. Right-click **EPSON Universal Print Driver** and select **Printing Preferences**.

- **Windows Vista:** Click  and select **Control Panel**. Click **Printer** under **Hardware and Sound**, right-click **EPSON Universal Print Driver**, and select **Printing Preferences**.
- **Windows XP:** Click **Start** and select **Printers and Faxes**. Right-click **EPSON Universal Print Driver** and select **Printing Preferences**.

You see the printer settings window:



Note: For more information about a setting, right-click it and select **Help**.

2. Select the print settings you want to use as defaults in all your Windows programs.
3. Click **OK**.

These settings are now the defaults selected for printing. You can still change them as needed for printing in any program session.

Parent topic: [Printing with the Epson Universal Print Driver - Windows](#)

Locking Printer Settings - Epson Universal Print Driver - Windows

Administrators can lock some printer settings to prevent unauthorized changes. The following settings can be locked:

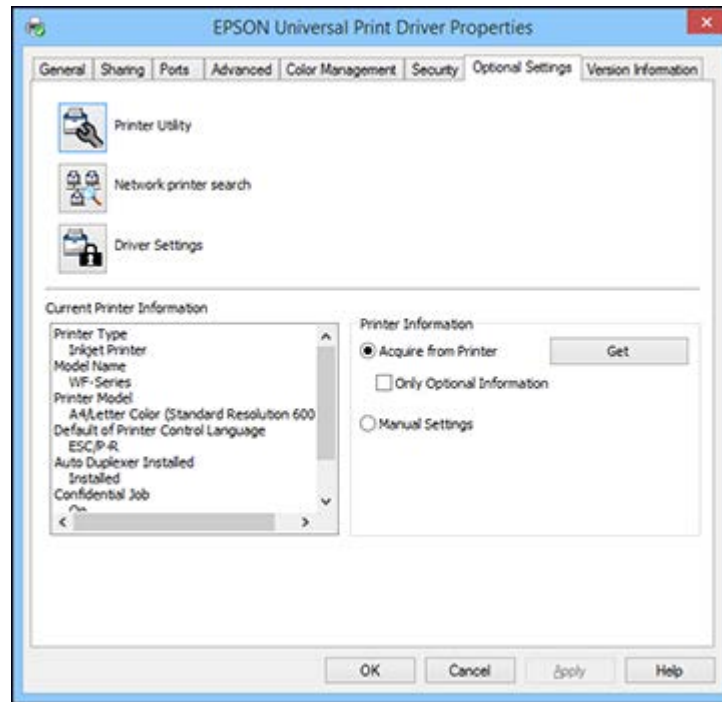
- Watermark
- Header/footer
- Color printing
- 2-sided printing
- Multi-page printing
- All document settings

1. Do one of the following:

- **Windows 8.x:** Navigate to the **Apps** screen and select **Control Panel > Hardware and Sound > Devices and Printers**. Right-click **EPSON Universal Print Driver** and select **Printer properties**.
- **Windows 7:** Click  and select **Devices and Printers**. Right-click **EPSON Universal Print Driver** and select **Printer properties**.
- **Windows Vista:** Click  and select **Control Panel**. Click **Printer** under **Hardware and Sound**, then right-click **EPSON Universal Print Driver** and select **Properties**.
- **Windows XP:** Click **Start** and select **Printers and Faxes**. Right-click **EPSON Universal Print Driver** and select **Properties**.

2. Click the **Optional Settings** tab.

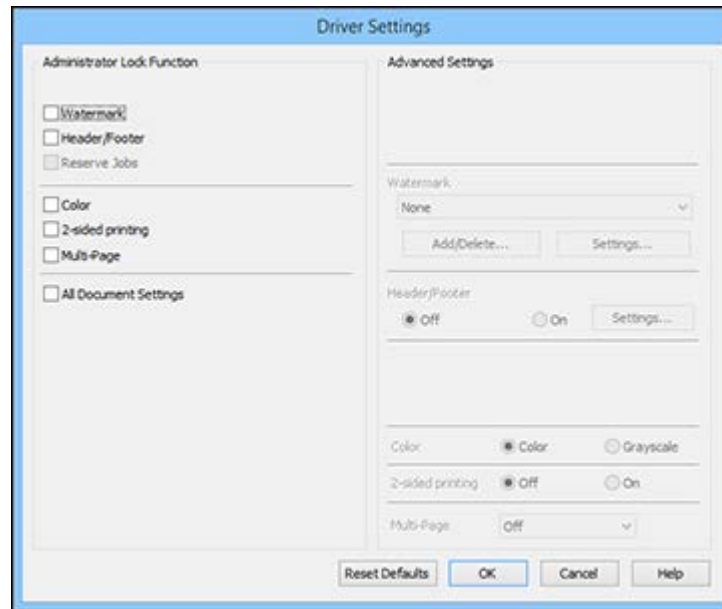
You see this window:



Note: You can prevent access to the **Optional Settings** tab by changing the user or group permissions in the **Security** tab.

3. Click **Driver Settings**.

You see this window:



4. Select the checkbox for the function or functions you want to lock. To lock all print settings, select **All Document Settings**.
5. Under **Advanced Settings**, select the setting you want for each selected function.
6. Click **OK**.

[Epson Universal Print Driver Lock Settings](#)

Parent topic: [Printing with the Epson Universal Print Driver - Windows](#)

Epson Universal Print Driver Lock Settings

Select the settings you want to use for locking print functions.

Printing function	Available settings	Description
Watermark	Various text watermarks	Lets you select the text for the watermark (or prohibit watermarks)
	Add/Delete	Lets you add (or delete) a customized text or image-based watermark
	Settings	Lets you select the size, position, color and other watermark settings
Header/Footer	Off	Prohibits headers or footers
	On	Allows headers and footers
	Settings	Lets you select the text and position for printing headers and/or footers
Color	Color	Allows color printing
	Grayscale	Prints in black or shades of gray only
2-sided printing	Off	Allows printing on only one side of the paper
	On	Allows printing on both sides of the paper
Multi-Page	Off	Prohibits multi-page settings
	2-Up	Prints 2 pages on one sheet of paper
	4-Up	Prints 4 pages on one sheet of paper

Parent topic: [Locking Printer Settings - Epson Universal Print Driver - Windows](#)

Adding Network Printers - Epson Universal Print Driver - Windows

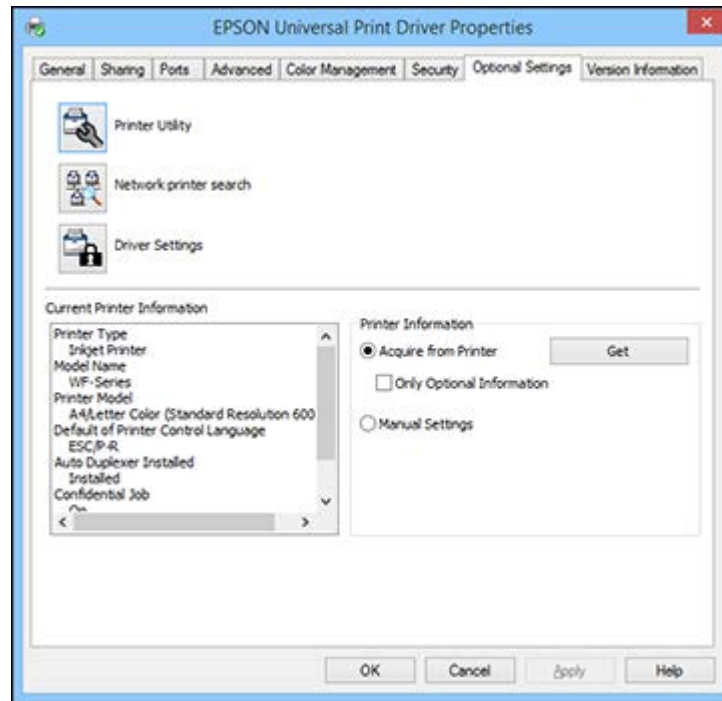
You can use the Epson Universal Print Driver to find and add network printers.

1. Do one of the following:

- **Windows 8.x:** Navigate to the **Apps** screen and select **Control Panel > Hardware and Sound > Devices and Printers**. Right-click **EPSON Universal Print Driver** and select **Printer properties**.
- **Windows 7:** Click  and select **Devices and Printers**. Right-click **EPSON Universal Print Driver** and select **Printer properties**.
- **Windows Vista:** Click  and select **Control Panel**. Click **Printer** under **Hardware and Sound**, then right-click **EPSON Universal Print Driver** and select **Properties**.

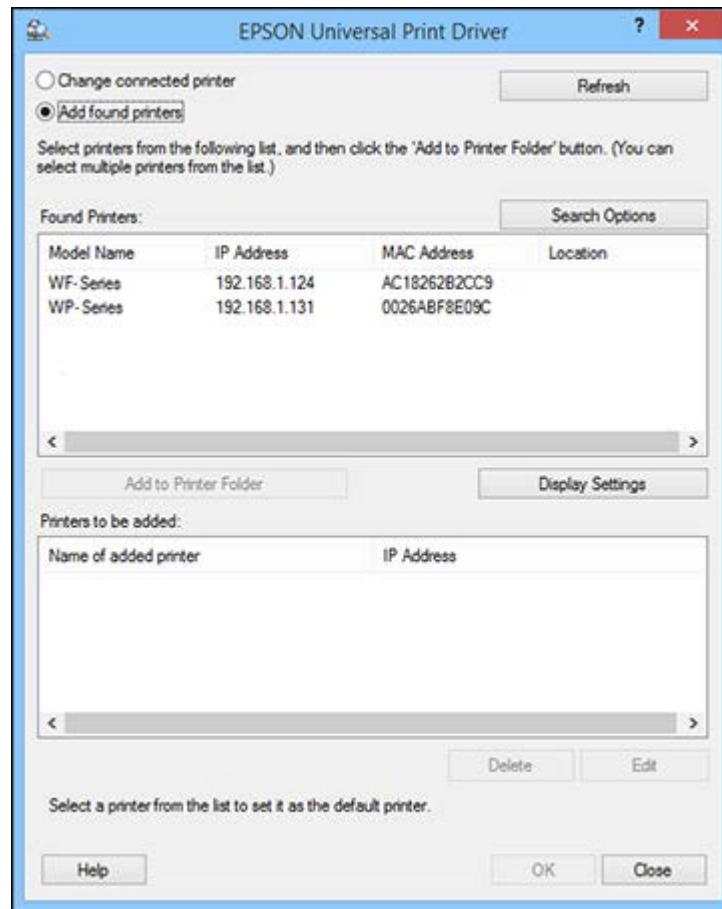
- **Windows XP:** Click **Start** and select **Printers and Faxes**. Right-click **EPSON Universal Print Driver** and select **Properties**.
- 2. Click the **Optional Settings** tab.

You see this window:



- 3. Click **Network printer search**.
- 4. When you see the search results, select **Add found printers**.

You see a screen like this:



5. Select the printer or printers you want to add.

6. Click **Add to Printer Folder**.

The selected printer or printers appear in the lower section of the screen.

7. Click **OK**.

Parent topic: [Printing with the Epson Universal Print Driver - Windows](#)

Printing with the PostScript (PS3) Printer Software - Windows

You can print with the PostScript (PS3) printer software using any Windows printing program, as described in these sections.

[Installing the PostScript \(PS3\) Printer Software - Windows](#)

[Enabling the Optional Paper Cassettes - PostScript Printer Software - Windows](#)

[Selecting Basic Print Settings - PostScript Printer Software - Windows](#)

[Selecting Additional Layout and Print Options - PostScript Printer Software - Windows](#)

[Selecting Default Print Settings - PostScript Printer Software - Windows](#)

Parent topic: [Printing from a Computer](#)

Installing the PostScript (PS3) Printer Software - Windows

If you did not install the standard Epson printer software, you need to install the PostScript (PS3) printer software before you can adjust the print settings and print to your network printer.

Note: Make sure your product is turned on and connected to the same network as your computer before installing the printer software.

1. Download the **Drivers and Utilities Combo Package - PS3 PostScript** from epson.com/support/wf8090.
2. Double-click the downloaded package.
3. Click **OK**.
4. Click **Accept**.
5. Click **Install**.
6. Click **Next** and follow the on-screen instructions.

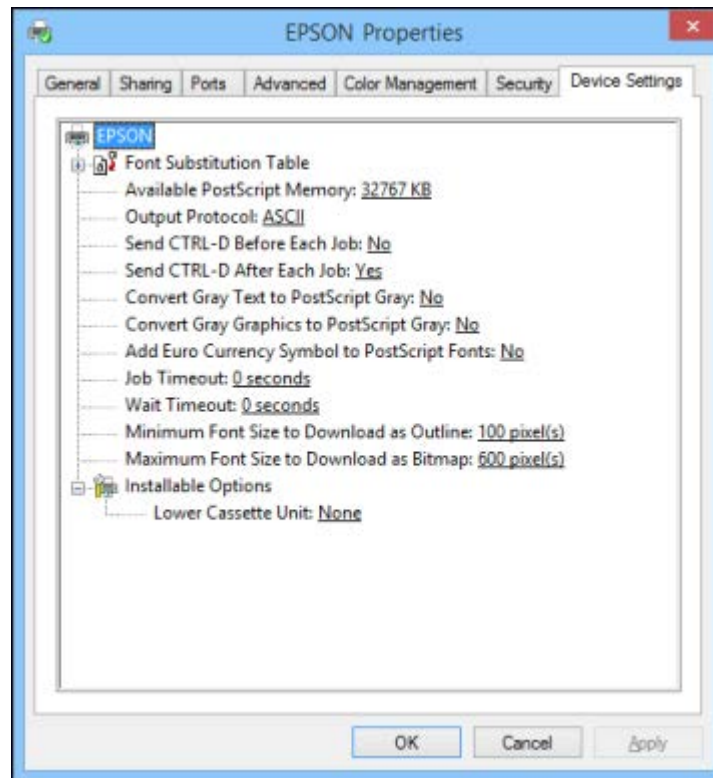
Parent topic: [Printing with the PostScript \(PS3\) Printer Software - Windows](#)

Enabling the Optional Paper Cassettes - PostScript Printer Software - Windows

If you installed optional paper cassette units, you need to enable the optional cassette units before you can use them with the PS3 printer software.

1. Do one of the following:
 - **Windows 8.x:** Navigate to the **Apps** screen and select **Control Panel > Hardware and Sound > Devices and Printers**. Right-click your product name and select **Printer properties**.

- **Windows 7:** Click  and select **Devices and Printers**. Right-click your product name and select **Printer Properties**.
 - **Windows Vista:** Click  and select **Control Panel**. Click **Printer** under **Hardware and Sound**, then right-click your product name, and select **Properties**.
 - **Windows XP:** Click **Start** and select **Printers and Faxes**. Right-click your product name and select **Properties**.
2. Click the **Device Settings** tab.
- You see a window like this:



3. Select the number of optional cassettes installed as the Lower Cassette Unit setting.
4. Click **OK**.

The optional paper cassettes are now enabled.

Parent topic: [Printing with the PostScript \(PS3\) Printer Software - Windows](#)

Related tasks

[Enabling the Optional Paper Cassettes - Windows](#)

[Synchronizing Printer Settings - Epson Universal Print Driver - Windows](#)

Selecting Basic Print Settings - PostScript Printer Software - Windows

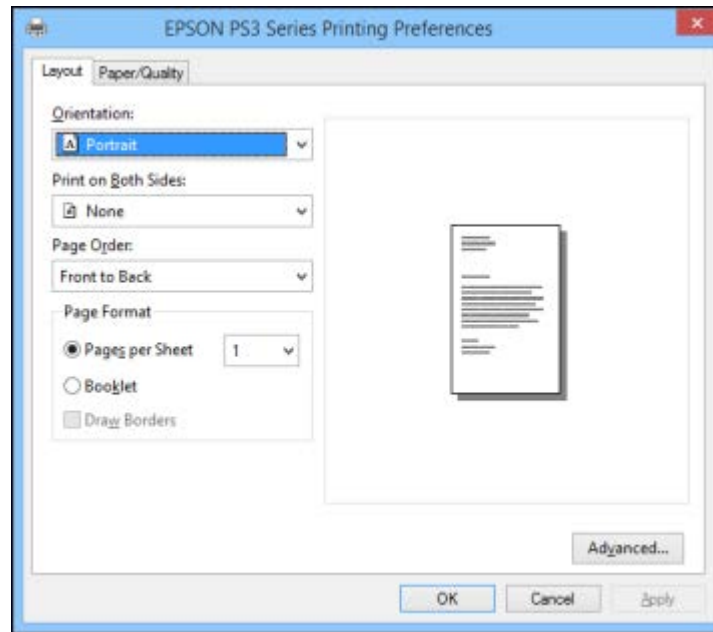
Select the basic settings for the document or photo you want to print.

1. Open a photo or document for printing.
2. Select the print command in your application.

Note: You may need to select a print icon on your screen, the **Print** option in the **File** menu, or another command. See your application's help utility for details.

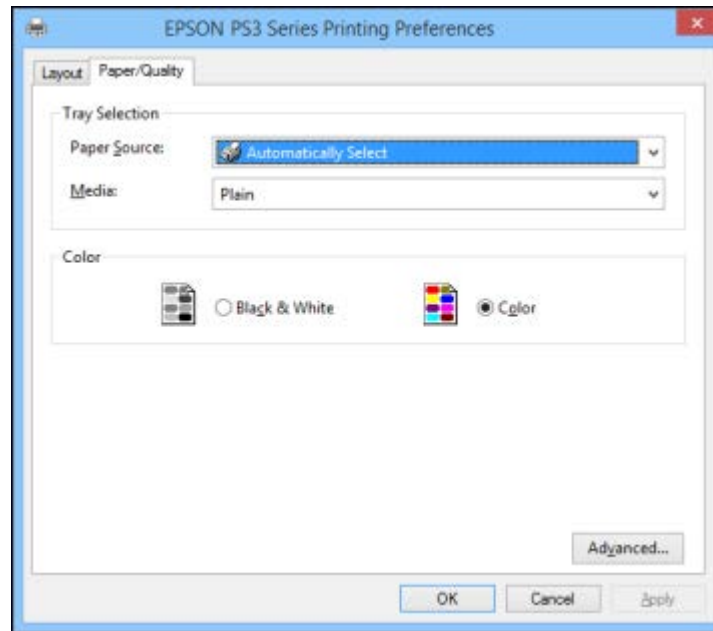
3. If necessary, select your product name as the printer you want to use, and then click the **Preferences** button.

You see the Layout tab of your printer settings window:



4. Select the orientation of your document.
5. To print on both sides of the paper, select one of the **Print on Both Sides** settings.
6. To change the printing order of the pages, select one of the **Page Order** settings.
7. To print multiple pages on one sheet of paper, adjust the **Pages per Sheet** setting.
8. To create a folded booklet out of your photo or document, select the **Booklet** option.
9. Click the **Paper/Quality** tab.

You see this window:

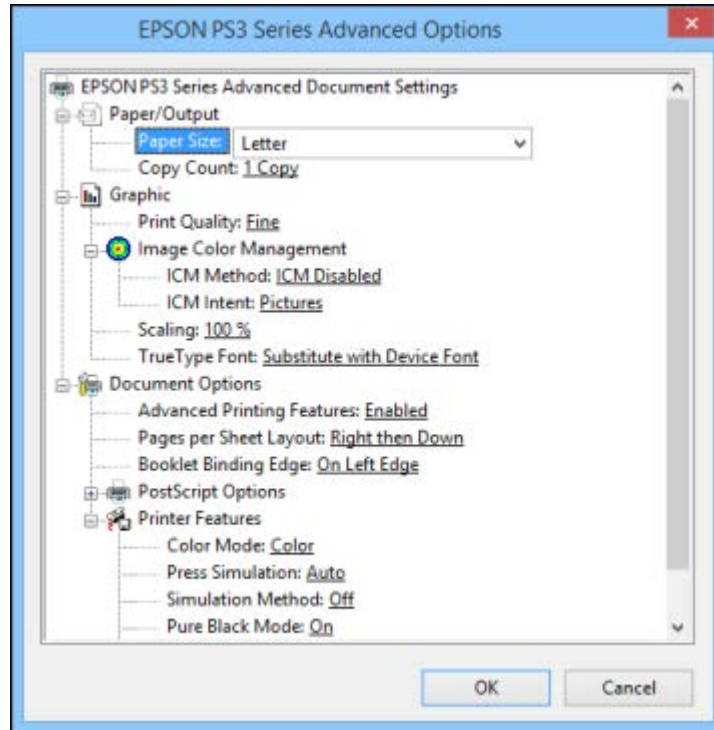


10. Select the **Paper Source** that matches where you loaded the paper you want to print on.
11. Select **Plain** as the **Media** setting.
12. Select one of the following as the Color setting:
 - To print a color document or photo, select the **Color** setting.
 - To print text and graphics in black only, select the **Black & White** setting.

Parent topic: [Printing with the PostScript \(PS3\) Printer Software - Windows](#)

Selecting Additional Layout and Print Options - PostScript Printer Software - Windows

You can select a variety of additional layout and printing options for your document or photo by clicking the **Advanced** button.



1. Select the size of the paper you loaded as the **Paper Size** setting.
2. Select the **Print Quality** option that matches the print quality you want to use.
3. Adjust the **Scaling** setting to reduce or enlarge your document or photo by a specific percentage.
4. To utilize the Windows Image Color Management system, set the **ICM Method** option to one of the **ICM Handling** options and select the **ICM Intent** setting you want to use.
5. Adjust the **Pages Per Sheet Layout** setting to change the order of multiple pages on a single sheet of paper when you have adjusted the **Pages Per Sheet** setting on the **Layout** tab.
6. Adjust the **Booklet Binding Edge** setting to change the orientation of your printed booklet.

7. Expand the PostScript Options heading to access the advanced PostScript printer software features.
8. Select any of the remaining **Printer Features** options to customize your printouts.

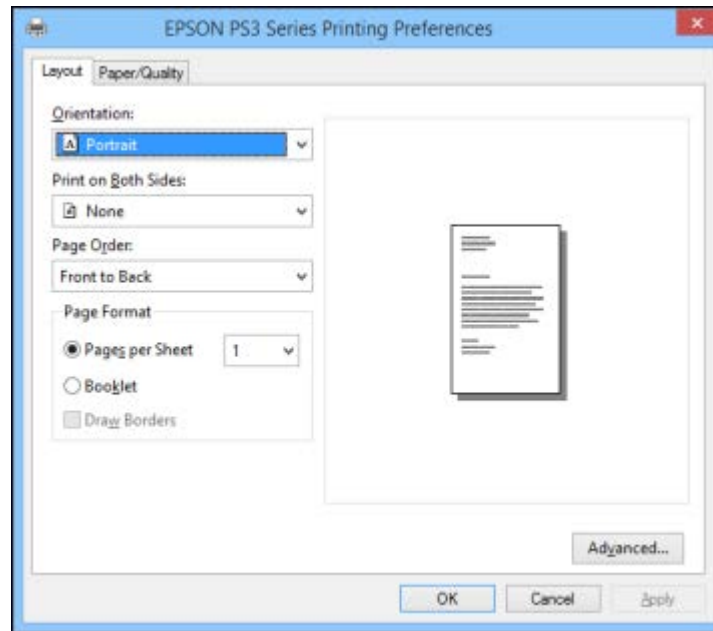
Parent topic: [Printing with the PostScript \(PS3\) Printer Software - Windows](#)

Selecting Default Print Settings - PostScript Printer Software - Windows

When you change your print settings in a program, the changes apply only while you are printing in that program session. If you want to change the print settings you use in all your Windows programs, you can select new default print settings.

1. Do one of the following:
 - **Windows 8.x:** Navigate to the **Apps** screen and select **Control Panel > Hardware and Sound > Devices and Printers**. Right-click your product name and select **Print Preferences**.
 - **Windows 7:** Click  and select **Devices and Printers**. Right-click your product name and select **Printing Preferences**.
 - **Windows Vista:** Click  and select **Control Panel**. Click **Printer** under **Hardware and Sound**, right-click your product name, and select **Printing Preferences**.
 - **Windows XP:** Click **Start** and select **Printers and Faxes**. Right-click your product name and select **Printing Preferences**.

You see the printer settings window:



2. Select the print settings you want to use as defaults in all your Windows programs.

3. Click **OK**.

These settings are now the defaults selected for printing. You can still change them as needed for printing in any program session.

Parent topic: [Printing with the PostScript \(PS3\) Printer Software - Windows](#)

Printing with the PostScript (PS3) Printer Software - OS X

You can print with the PostScript (PS3) printer software using any OS X printing program, as described in these sections.

[Installing the PostScript \(PS3\) Printer Software - OS X](#)

[Enabling the Optional Paper Cassettes - PostScript Printer Software - OS X](#)

[Selecting Basic Print Settings - PostScript Printer Software - OS X](#)

[Selecting Page Setup Settings - PostScript Printer Software - OS X](#)

[Selecting Print Layout Options - PostScript Printer Software - OS X](#)
[Sizing Printed Images - PostScript Printer Software - OS X](#)
[Managing Color - PostScript Printer Software - OS X](#)
[Printing Your Document or Photo - PostScript Printer Software - OS X](#)

Parent topic: [Printing from a Computer](#)

Installing the PostScript (PS3) Printer Software - OS X

If you did not install the standard Epson printer software, you need to install the PostScript (PS3) printer software before you can adjust the print settings and print to your network printer.

Note: Make sure your product is turned on and connected to the same network as your computer before installing the printer software.

1. Download the **Drivers and Utilities Combo Package - PS3 PostScript** from epson.com/support/wf8090.
2. Double-click the downloaded package.
3. Double-click **EPSON**.
4. Click **Continue** on the next two screens.
5. Click **Agree**.
6. Click **Install**.
7. If necessary, enter the administrator password.
8. Click **Start** and follow the on-screen instructions.

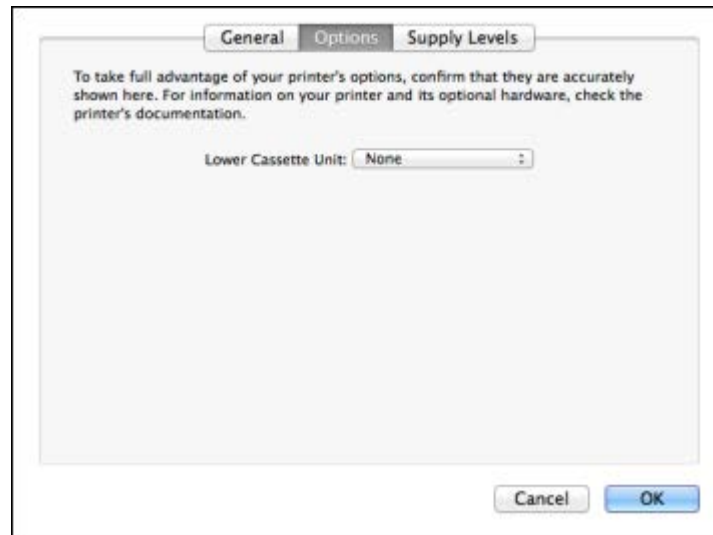
Parent topic: [Printing with the PostScript \(PS3\) Printer Software - OS X](#)

Enabling the Optional Paper Cassettes - PostScript Printer Software - OS X

If you installed optional paper cassette units, you need to enable the optional cassette units before you can use them with the PS3 printer software.

1. In the Apple menu or the Dock, select **System Preferences**.
2. Select **Print & Fax**, **Print & Scan**, or **Printers & Scanners**, select your product, and select **Options & Supplies**.
3. Select **Driver** or **Options**.

You see a screen like this:



4. Select the number of optional cassettes installed as the Lower Cassette Unit setting.
5. Click **OK**.

The optional paper cassettes are now enabled.

Parent topic: [Printing with the PostScript \(PS3\) Printer Software - OS X](#)

Related tasks

[Enabling the Optional Paper Cassettes - OS X](#)

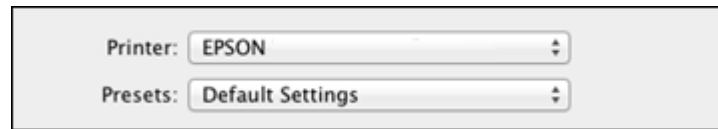
Selecting Basic Print Settings - PostScript Printer Software - OS X

Select the basic settings for the document or photo you want to print.

1. Open a photo or document for printing.
2. Select the print command in your application.

Note: You may need to select a print icon on your screen, the **Print** option in the **File** menu, or another command. See your application's help utility for details.

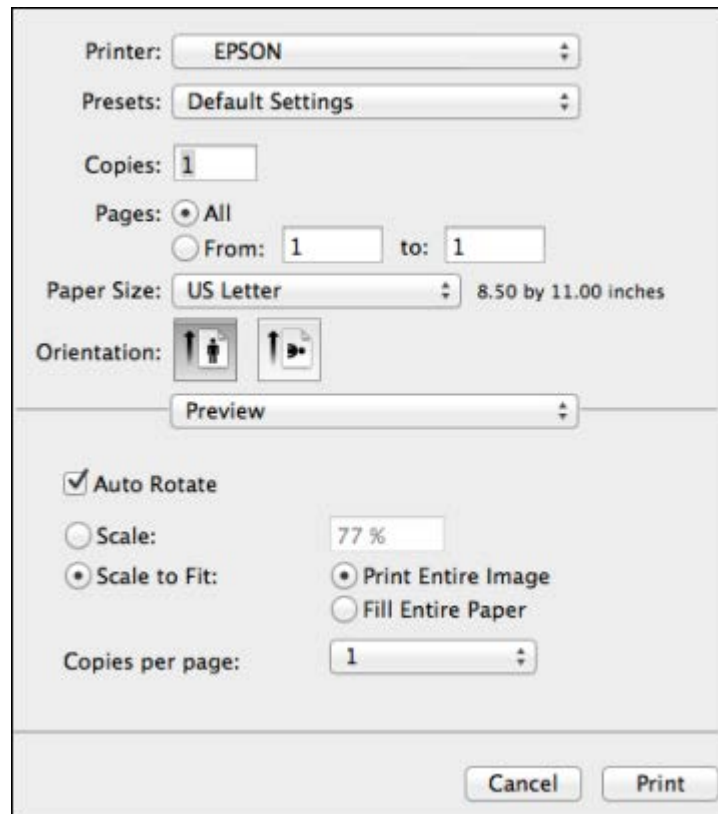
3. Select your product as the **Printer** setting.



A screenshot of a printer selection interface. It features two dropdown menus. The first is labeled 'Printer:' and has 'EPSON' selected. The second is labeled 'Presets:' and has 'Default Settings' selected. Both dropdowns have small upward and downward arrows on their right sides.

4. If necessary, click the arrow next to the Printer setting or the **Show Details** button to expand the print window.

You see the expanded printer settings window for your product:



A screenshot of an expanded printer settings window. At the top, it shows 'Printer: EPSON' and 'Presets: Default Settings' in dropdown menus. Below these are 'Copies: 1' and 'Pages: All' (selected) with 'From: 1 to: 1'. The 'Paper Size' is 'US Letter' (8.50 by 11.00 inches). The 'Orientation' section shows two icons: a portrait orientation (selected) and a landscape orientation. A 'Preview' dropdown menu is below the orientation icons. The bottom section contains a checked 'Auto Rotate' checkbox, a 'Scale' section with '77 %' and 'Scale to Fit' selected, and 'Copies per page: 1'. At the bottom right are 'Cancel' and 'Print' buttons.

Note: The print window may look different, depending on the version of OS X and the application you are using.

5. Select the **Two-Sided**, **Copies**, and **Pages** settings as necessary.

Note: If you do not see these settings in the print window, check for them in your application before printing.

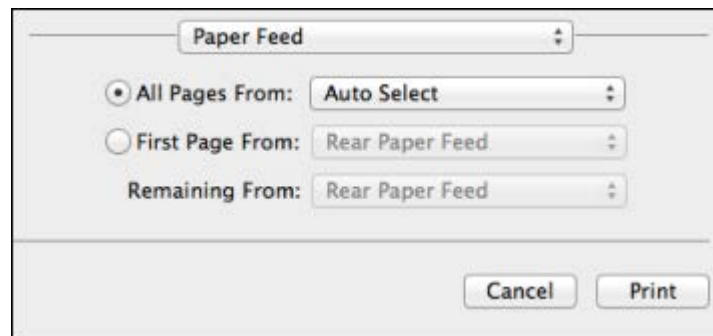
6. Select the page setup options: **Paper Size** and **Orientation**.

Note: If you do not see these settings in the print window, check for them in your application before printing. They may be accessible by selecting **Page Setup** from the File menu.

7. Select any application-specific settings that appear on the screen, such as those shown in the image above for the Preview application.
8. Select **Paper Feed** from the pop-up menu.



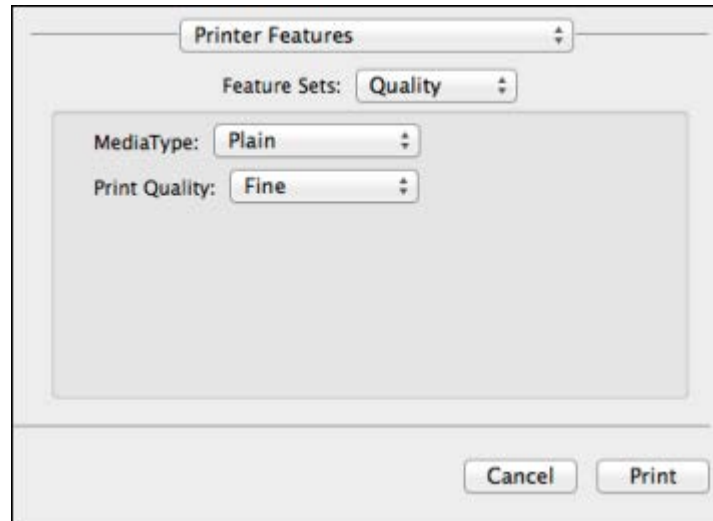
You see these settings:



9. Select **All Pages From** or **First Page From** and select the paper source you want to print from.
10. Select **Printer Features** from the pop-up menu.



You see these settings:



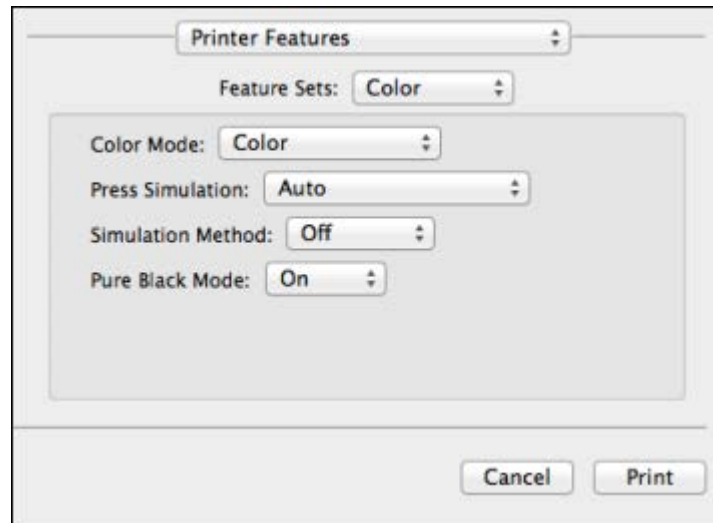
11. Select **Plain** as the **MediaType** setting.

Note: The PostScript printer software supports plain paper printing on these paper and envelope sizes:

- A4 (8.3 × 11.7 inches [210 × 297 mm])
- Letter (8.5 × 11 inches [216 × 279 mm])

- No. 10 (4.1 × 9.5 inches [105 × 241 mm])
12. Select one of the following **Print Quality** options:
 - For fast printing with reduced quality, select **Fast**.
 - For printing text and graphics with good quality and print speed, select **Fine**.
 - For the best printing with reduced speed, select **Maximum**.
 13. Select **Color** from the Feature Sets pop-up menu.

You see these settings:



14. Select a **Color Mode** option:
 - To print a color document or photo, select the **Color** setting.
 - To print text and graphics in black only, select the **Monochrome** setting.
15. Select any of the available print options.

Parent topic: [Printing with the PostScript \(PS3\) Printer Software - OS X](#)

Related references

[Paper Source Options - Windows](#)

Related tasks

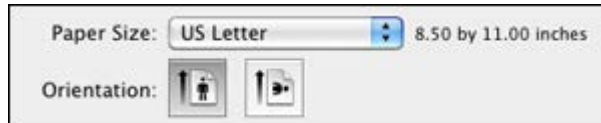
[Selecting Page Setup Settings - PostScript Printer Software - OS X](#)

[Selecting Print Layout Options - PostScript Printer Software - OS X](#)

[Printing Your Document or Photo - PostScript Printer Software - OS X](#)

Selecting Page Setup Settings - PostScript Printer Software - OS X

Depending on your application, you may be able to select the paper size and orientation settings from the print window.



Note: If you do not see these settings in the print window, check for them in your application before printing. They may be accessible by selecting **Page Setup** from the File menu.

1. Select the size of the paper you loaded as the **Paper Size** setting. You can also select a custom setting to create a custom paper size.
2. Select the orientation of your document or photo as shown in the print window.

Note: You can reduce or enlarge the size of the printed image by selecting **Paper Handling** from the pop-up menu and selecting a scaling option.

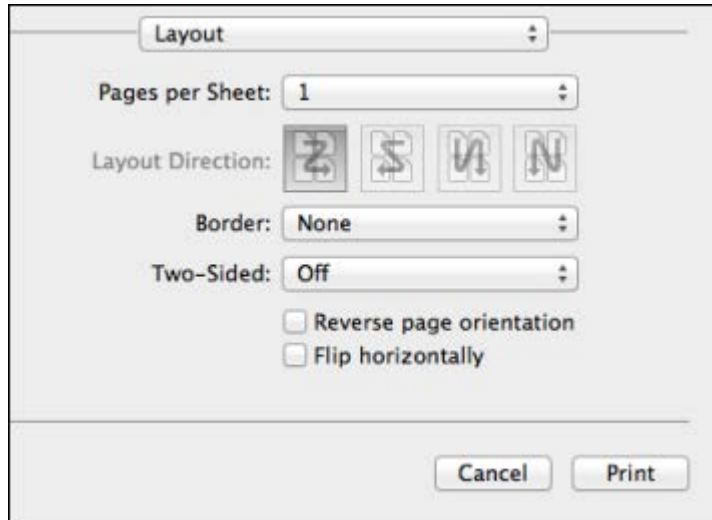
Parent topic: [Printing with the PostScript \(PS3\) Printer Software - OS X](#)

Related tasks

[Selecting Basic Print Settings - PostScript Printer Software - OS X](#)

Selecting Print Layout Options - PostScript Printer Software - OS X

You can select a variety of layout options for your document or photo by selecting **Layout** from the pop-up menu on the print window.

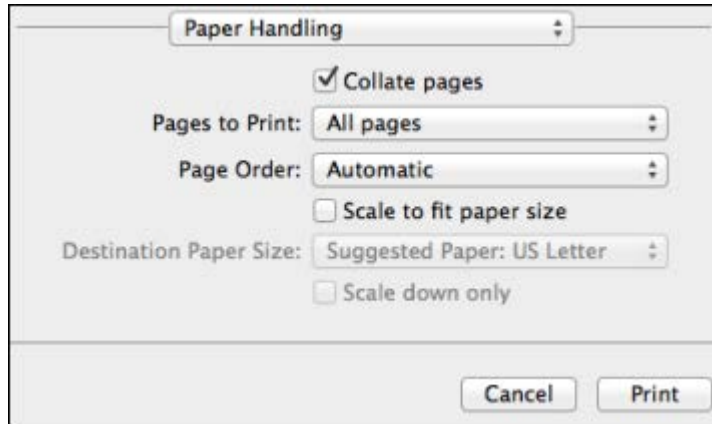


- To print multiple pages on one sheet of paper, select the number of pages in the **Pages per Sheet** pop-up menu. To arrange the print order of the pages, select a **Layout Direction** setting.
- To print borders around each page on the sheet, select a line setting from the **Border** pop-up menu.
- To print on both sides of the page, select one of the **Two-Sided** settings.
- To invert or flip the printed image, select the **Reverse page orientation** or **Flip horizontally** settings.

Parent topic: [Printing with the PostScript \(PS3\) Printer Software - OS X](#)

Sizing Printed Images - PostScript Printer Software - OS X

You can adjust the size of the image as you print it by selecting **Paper Handling** from the pop-up menu on the Print window.



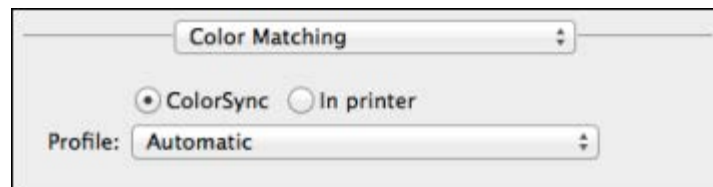
- To print only selected pages in a multi-page document, select an option from the **Pages to Print** pop-up menu.
- To adjust the order in which pages are printed, select an option from the **Page Order** pop-up menu.
- To scale the image to fit on a specific paper size, select the **Scale to fit paper size** checkbox and select a paper size from the **Destination Paper Size** pop-up menu.

Parent topic: [Printing with the PostScript \(PS3\) Printer Software - OS X](#)

Managing Color - PostScript Printer Software - OS X

You can adjust the Color Matching settings to fine-tune the colors in your printout.

1. Select **Color Matching** from the pop-up menu in the print window.



2. Do one of the following:

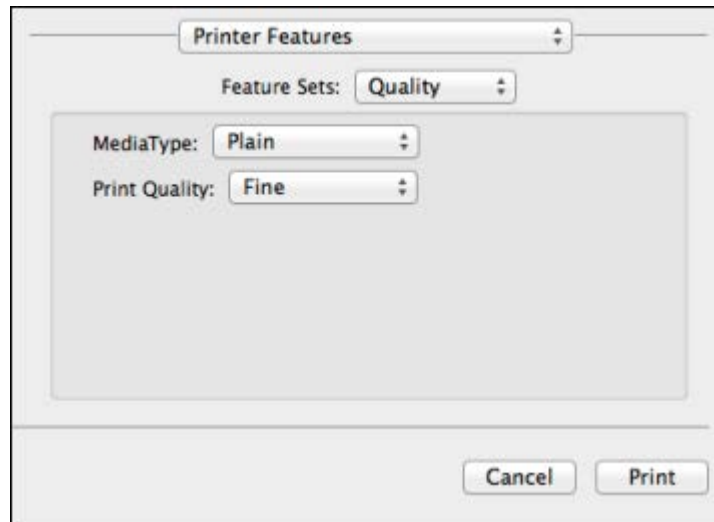
- To print using standard color profiles for your product and paper to help match image colors, select **ColorSync**. Select one of the available **Profile** options to change the active color profile.
- To use the product's default color matching, select **In printer**.

Parent topic: [Printing with the PostScript \(PS3\) Printer Software - OS X](#)

Printing Your Document or Photo - PostScript Printer Software - OS X

Once you have selected your print settings, you are ready to print.

Click **Print** at the bottom of the print window.



[Checking Print Status - PostScript Printer Software - OS X](#)

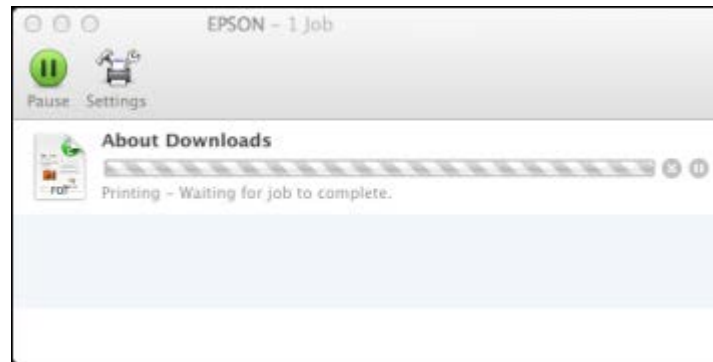
Parent topic: [Printing with the PostScript \(PS3\) Printer Software - OS X](#)

Checking Print Status - PostScript Printer Software - OS X

During printing, you can view the progress of your print job, control printing, and check ink status.

1. Click the printer icon when it appears in the Dock.

You see the print status window:



2. Select the following options as necessary:

OS X 10.5/10.6/10.7:

- To cancel printing, click the print job and click the **Delete** icon.
- To pause a print job, click the print job and click the **Hold** icon. To resume a print job, click the print job marked "Hold" and click the **Resume** icon.
- To pause printing for all queued print jobs, click the **Pause Printer** icon.
- To check ink status, click the **Supply Levels** icon.

OS X 10.8/10.9:

- To cancel printing, click the  button next to the print job.
- To pause a print job, click the  button next to the print job. To resume a print job, click the  button.
- To pause printing for all queued print jobs, click the large **Pause** button.
- To check ink status, click the **Settings** icon, then click the **Supply Levels** tab.

Parent topic: [Printing Your Document or Photo - PostScript Printer Software - OS X](#)

Cancelling Printing Using a Product Button

If you need to cancel printing, press the  **Stop** button on your product.

Parent topic: [Printing from a Computer](#)

Replacing Ink Cartridges and Maintenance Boxes

The maintenance box stores ink that gets flushed from the system during print head cleaning. When an ink cartridge is expended or the maintenance box is at the end of its service life, you need to replace it.

You may also need to replace a cartridge that is more than six months old if your printouts do not look their best, even after cleaning and aligning the print head.

Note: Please dispose of your used Epson branded ink cartridges and maintenance boxes responsibly and in accordance with local requirements. If you would like to return your used ink cartridges and maintenance boxes to Epson for proper disposal, please go to epson.com/recycle for more information.

[Check Cartridge and Maintenance Box Status](#)

[Purchase Epson Ink Cartridges and Maintenance Box](#)

[Removing and Installing Ink Cartridges](#)

[Printing with Black Ink and Expended Color Cartridges](#)

[Conserving Low Black Ink with Windows](#)

[Replacing the Maintenance Box](#)

Check Cartridge and Maintenance Box Status

Your printer and its software will let you know when an ink cartridge is low or expended, or when the maintenance box needs to be replaced.

Note: When using the Epson Universal Print Driver or PostScript (PS3) printer software with the product, you can check ink cartridge and maintenance box status by using the printer buttons or the utilities included with the standard Epson printer software. To download the standard Epson printer software, go to epson.com/support/wf8090.

[Checking Cartridge Status on the LCD Screen](#)

[Checking Cartridge and Maintenance Box Status with Windows](#)

[Checking Cartridge and Maintenance Box Status with OS X](#)

Parent topic: [Replacing Ink Cartridges and Maintenance Boxes](#)

Checking Cartridge Status on the LCD Screen

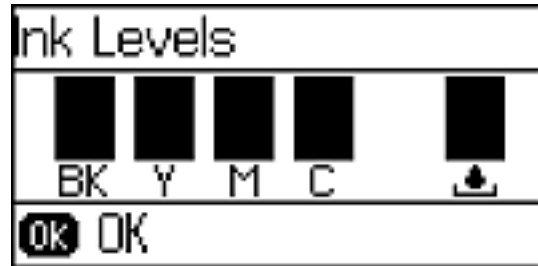
When one of your cartridges is low, the orange **Error** light flashes.

When a cartridge is expended, the orange **Error** light stays on.

You can use the **Ink Levels** option to check the status of the cartridges and maintenance box.

1. Press the arrow buttons to select **Menu** and press the **OK** button.
2. Select **Ink Levels** and press the **OK** button.

You see a screen like this:



Note: The displayed ink and maintenance box levels are approximate.

3. To exit, press the **OK** button.

Parent topic: [Check Cartridge and Maintenance Box Status](#)

Related tasks

[Removing and Installing Ink Cartridges](#)

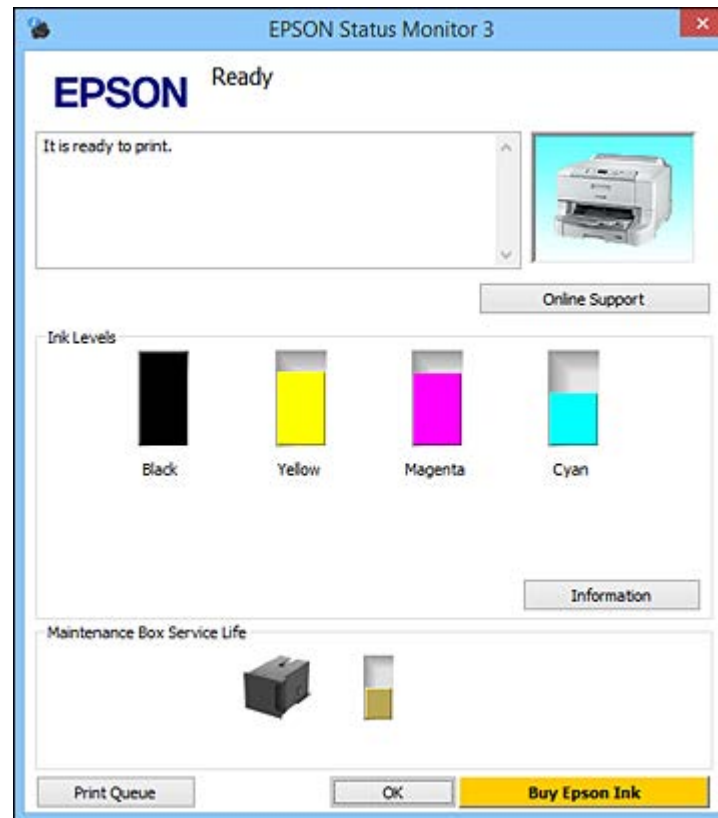
[Replacing the Maintenance Box](#)

Checking Cartridge and Maintenance Box Status with Windows

A low ink reminder appears if you try to print when ink is low, and you can check your cartridge or maintenance box status at any time using a utility on your Windows computer.

1. To check your status, access the Windows Desktop, double-click the product icon in the Windows taskbar, and click **Details**.

You see this window:

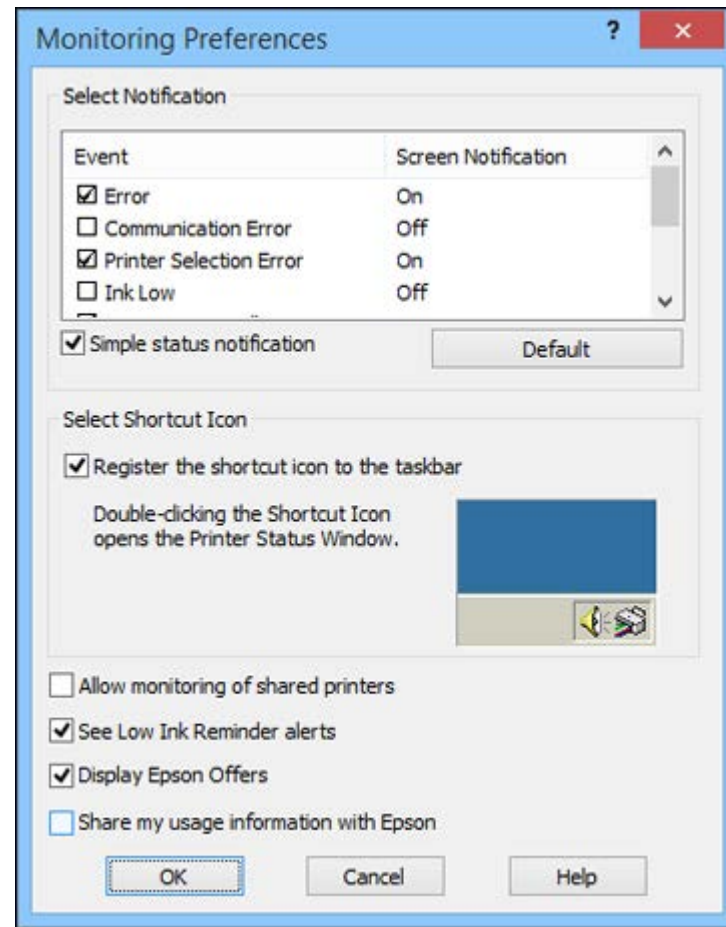


2. Replace or reinstall the maintenance box or any ink cartridge as indicated on the screen.

Note: If any of the cartridges installed in the product is broken, incompatible with the product model, or improperly installed, Epson Status Monitor will not display an accurate cartridge status.

3. To disable the low ink reminder, right-click the product icon in the Windows taskbar and select **Monitoring Preferences**.

You see this window:



4. Deselect the **See Low Ink Reminder alerts** checkbox at the bottom of the screen.
5. To disable promotional offers, deselect the **Display Epson Offers** checkbox.
6. Click **OK**.

Parent topic: [Check Cartridge and Maintenance Box Status](#)

Related tasks

[Removing and Installing Ink Cartridges](#)

Checking Cartridge and Maintenance Box Status with OS X

You can check the status of your ink cartridges and maintenance box using a utility on your Mac.

1. Do one of the following:
 - **OS X 10.6/10.7/10.8/10.9:** In the Apple menu or the Dock, select **System Preferences**. Select **Print & Fax**, **Print & Scan**, or **Printers & Scanners**, select your product, and select **Options & Supplies**. Select **Utility** and select **Open Printer Utility**.
 - **OS X 10.5:** In the Apple menu or the Dock, select **System Preferences**. Select **Print & Fax**, select your product, and select **Open Print Queue**. Select **Utility**.
2. Select **EPSON Status Monitor**.

You see this window:



3. Do the following as necessary:

- You can update the ink cartridge and maintenance box status by clicking **Update**.
- Replace or reinstall the maintenance box or any ink cartridge as indicated on the screen.

Note: If any of the cartridges installed in the product is broken, incompatible with the product model, or improperly installed, Epson Status Monitor will not display an accurate cartridge status.

Parent topic: [Check Cartridge and Maintenance Box Status](#)

Related tasks

[Removing and Installing Ink Cartridges](#)

[Replacing the Maintenance Box](#)

Purchase Epson Ink Cartridges and Maintenance Box

You can purchase genuine Epson ink, maintenance boxes, and paper at Epson Supplies Central at epson.com/ink3 (U.S. sales) or epson.ca (Canadian sales). You can also purchase supplies from an Epson authorized reseller. To find the nearest one, call 800-GO-EPSON (800-463-7766).

Note: This product uses only genuine Epson-brand cartridges. Other brands of ink cartridges and ink supplies are not compatible and, even if described as compatible, may not function properly.

The cartridges included with the printer are designed for printer setup and not for resale. After some ink is used for priming, the rest is available for printing. Yields vary considerably based on images printed, print settings, paper type, frequency of use, and temperature. For print quality, a variable amount of ink remains in the cartridge after the "replace cartridge" indicator comes on.

[Ink Cartridge and Maintenance Box Part Numbers](#)

Parent topic: [Replacing Ink Cartridges and Maintenance Boxes](#)

Ink Cartridge and Maintenance Box Part Numbers

Use these part numbers when you order or purchase a new maintenance box or ink cartridges.

Maintenance box part number: T671200

Note: For best printing results, use up a cartridge within 6 months after installing it.

Ink color	Part number		
	Standard-capacity	High-capacity	Extra High-capacity
Black	748	748XL	748XXL
Cyan	748	748XL	748XXL
Magenta	748	748XL	748XXL
Yellow	748	748XL	748XXL

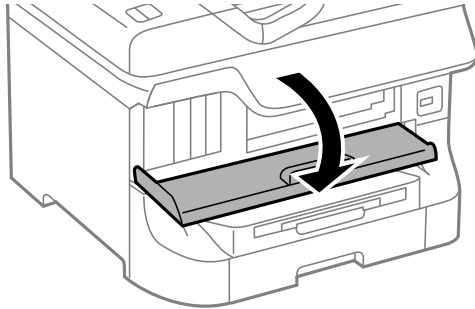
Parent topic: [Purchase Epson Ink Cartridges and Maintenance Box](#)

Removing and Installing Ink Cartridges

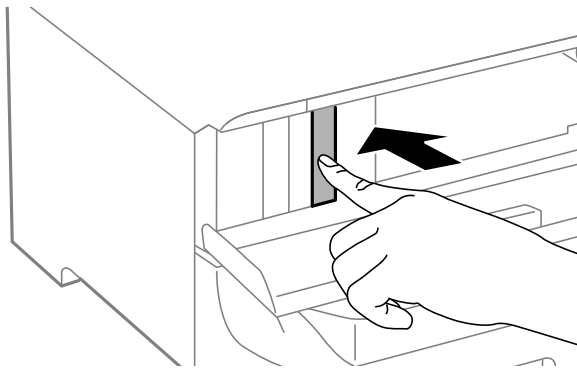
Make sure you have your replacement cartridges handy before you begin. You must install new cartridges immediately after removing the old ones.

Caution: Leave your old cartridges in the printer until you are ready to replace them to prevent the print head nozzles from drying out. Do not open ink cartridge packages until you are ready to install the ink. Cartridges are vacuum packed to maintain reliability.

1. Turn on your product.
2. If an ink cartridge is low or expended, a message appears on your product and on your computer screen. Note which cartridges need to be replaced.
3. Open the front cover.

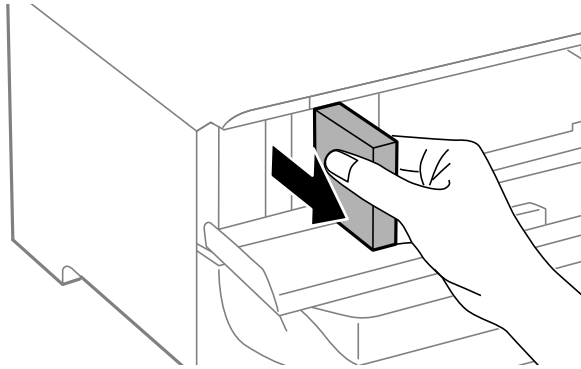


4. Push in the ink cartridge that you want to replace.



The ink cartridge pops out slightly.

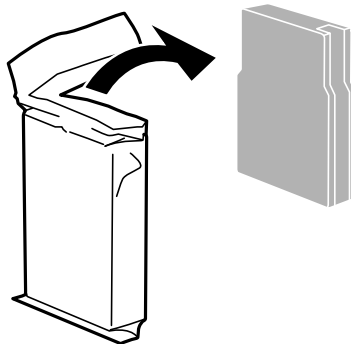
5. Pull the ink cartridge out of the slot.



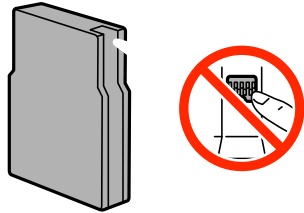
Note: Dispose of used cartridges carefully. Do not take the used cartridge apart or try to refill it.

Warning: If ink gets on your skin, wash it thoroughly with soap and water. If ink gets into your eyes, flush them immediately with water. If ink gets into your mouth, spit it out and see a doctor right away. Keep ink cartridges out of the reach of children.

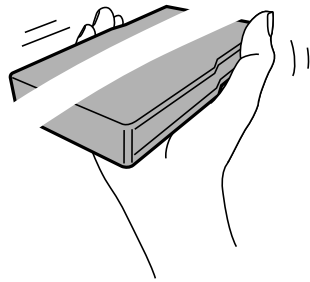
6. Remove the cartridge from the package.



Caution: Do not touch the green chip on the cartridge. Install the new cartridge immediately after removing the old one; if you do not, the print head may dry out and be unable to print.



7. Gently shake the ink cartridge horizontally for about five seconds as shown.



Caution: Do not remove any labels or seals, or ink will leak.

8. Insert the new cartridge into the holder and push it in until it clicks into place.
9. If the **Cartridge Check** option is displayed on the LCD screen, press the **OK** button to make sure the cartridges are installed correctly.

Caution: If necessary, press in the ink cartridge until it clicks into place.

10. When you are finished, close the front cover.

The product starts priming the ink and returns to its previous state when finished.

Note: Do not turn off the printer during ink replacement.

Caution: If you remove an ink cartridge for later use, protect the ink supply area from dirt and dust and store it in the same environment as the printer. The valve in the ink supply port is designed to contain any excess ink, but do not touch the ink supply port or surrounding area. Always store ink cartridges with the label facing up; do not store cartridges upside-down.

Parent topic: [Replacing Ink Cartridges and Maintenance Boxes](#)

Related concepts

[Purchase Epson Ink Cartridges and Maintenance Box](#)

Printing with Black Ink and Expended Color Cartridges

When a color ink cartridge is expended, you can temporarily continue printing from your computer using black ink. Replace the expended color cartridge as soon as possible for future printing.

[Printing with Expended Color Cartridges - Windows](#)

[Printing with Expended Color Cartridges - OS X](#)

Parent topic: [Replacing Ink Cartridges and Maintenance Boxes](#)

Printing with Expended Color Cartridges - Windows

If you see a message during printing telling you that you can temporarily print in black ink with an expended color cartridge, you can cancel your print job and select settings to print on plain paper or on an envelope.

Note: To use this feature, Epson Status Monitor must be enabled.

1. Click **Cancel** or **Cancel Print** to cancel your print job.

Note: If the message screen appears on another computer on a network, you may need to cancel the print job using the product control panel.

2. Load plain paper or an envelope in your product.
3. Access the print settings in your print application.
4. Click the **Main** tab.
5. Select **Plain Paper/Bright White Paper** or **Envelope** as the paper type setting.
6. Select the **Black/Grayscale** checkbox.
7. Click **OK**.

8. Print your document.
Epson Status Monitor 3 displays a print message.
9. Click **Print in Black** to print your document.

Parent topic: [Printing with Black Ink and Expended Color Cartridges](#)

Printing with Expended Color Cartridges - OS X

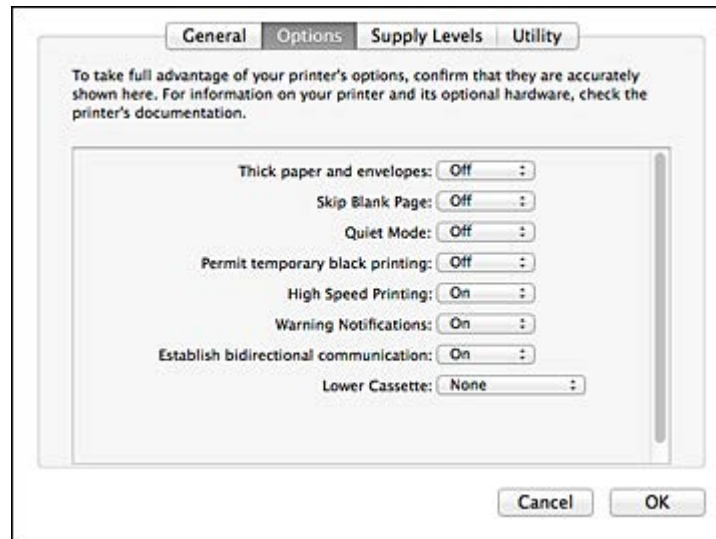
If printing stops, you can cancel your print job and select settings to temporarily print with only black ink on plain paper or on an envelope.

1. Click the printer icon in the Dock.
2. If you see a message telling you that you can temporarily print with only black ink, click the **Delete** icon to cancel your print job. (OS X 10.8/10.9: Click the  icon to cancel your print job. If an error message is displayed, click **OK**.)

Note: If the message screen appears on another computer on a network, you may need to cancel the print job using the product control panel.

3. In the Apple menu or the Dock, select **System Preferences**.
4. Select **Print & Fax**, **Print & Scan**, or **Printers & Scanners**, select your product, and select **Options & Supplies**.
5. Select **Driver** or **Options**.

You see a screen like this:

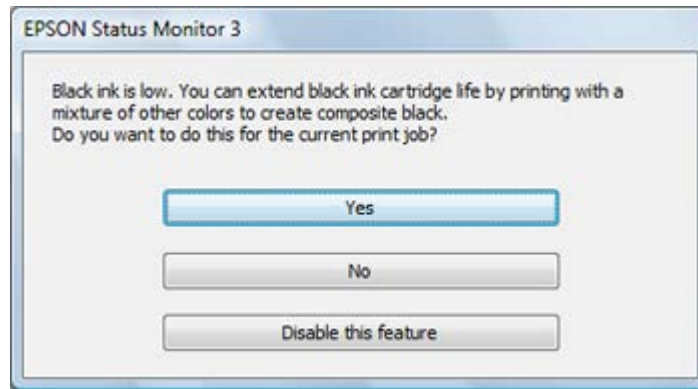


6. Select **On** as the **Permit temporary black printing** setting.
7. Click **OK**.
8. Close the utility window.
9. Load plain paper or an envelope in your product.
10. Access the print settings in your print application.
11. Select **Print Settings** from the pop-up menu.
12. Select **Plain Paper/Bright White Paper** or **Envelope** as the paper type setting.
13. Select the **Grayscale** option.
14. Click **Print** to print your document.

Parent topic: [Printing with Black Ink and Expended Color Cartridges](#)

Conserving Low Black Ink with Windows

The following window appears when black ink runs low and there is more color ink.



Note: The window appears only when you have selected **Plain Paper/Bright White Paper** as the paper type setting, and depends on other selected print settings. To use this feature, Epson Status Monitor must be enabled.

- Click **Yes** to use a mixture of color inks to create black, or **No** to continue using the remaining black ink for the document you are printing.
- Click **Disable this feature** to continue using the remaining black ink.

Note: If you disable this feature, it remains disabled until you install a new black ink cartridge.

Parent topic: [Replacing Ink Cartridges and Maintenance Boxes](#)

Replacing the Maintenance Box

Make sure you have a new maintenance box before you begin.

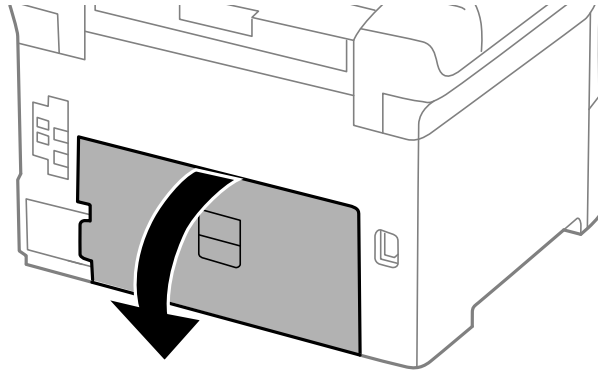
Caution: Do not reuse a maintenance box that has been removed and left uninstalled for more than a week. Keep the maintenance box away from direct sunlight.

1. Make sure the product is not printing.

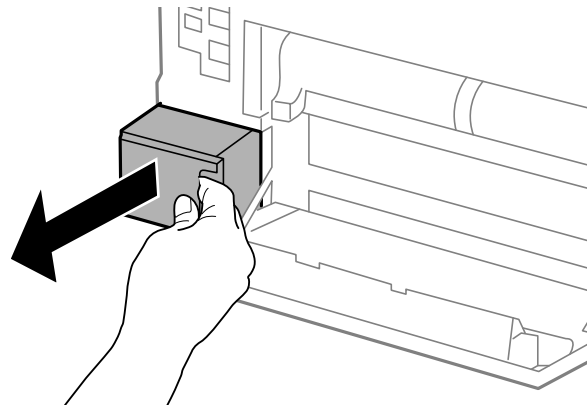
2. Remove the new maintenance box from its package.

Caution: Do not touch the green chip on the maintenance box. Do not remove the film on the box, or ink may leak.

3. Open the rear cover 1 (D1).



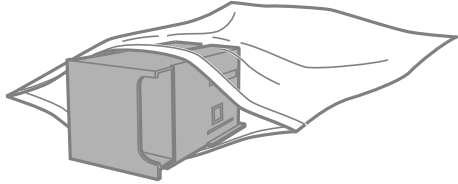
4. Grasp the maintenance box as shown and pull it out of its holder.



Note: Do not tilt the used maintenance box or take it apart.

Warning: If ink gets on your skin, wash it thoroughly with soap and water. If ink gets into your eyes, flush them immediately with water. If ink gets into your mouth, spit it out and see a doctor right away. Keep the maintenance box out of the reach of children and do not drink the ink.

5. Place the used maintenance box in the plastic bag that came with the new maintenance box. Seal the bag and dispose of it carefully.



6. Insert the new maintenance box into the holder and push it all the way in.
7. Close the rear cover 1 (D1).

Parent topic: [Replacing Ink Cartridges and Maintenance Boxes](#)

Related concepts

[Purchase Epson Ink Cartridges and Maintenance Box](#)

Adjusting Print Quality

If your print quality declines, you may need to run a utility to clean or align the print head.

Note: When using the PostScript (PS3) printer software with the product, you can clean and align the print head and run a nozzle check by using the printer buttons or the utilities included with the standard Epson printer software. To download the standard Epson printer software, go to epson.com/support/wf8090.

If running these utilities does not solve the problem, you may need to replace the ink cartridges.

[Print Head Maintenance](#)

[Print Head Alignment](#)

[Cleaning the Paper Guide](#)

Print Head Maintenance

If your printouts become too light, or you see dark or light bands across them, you may need to clean the print head nozzles. Cleaning uses ink, so clean the nozzles only if print quality declines.

You can check for clogged nozzles before you clean them so you don't clean them unnecessarily.

Note: You cannot clean the print head if an ink cartridge is expended, and may not be able to clean it when a cartridge is low. You must replace the cartridge first.

[Print Head Nozzle Check](#)

[Print Head Cleaning](#)

Parent topic: [Adjusting Print Quality](#)

Related topics

[Replacing Ink Cartridges and Maintenance Boxes](#)

Print Head Nozzle Check

You can print a nozzle check pattern to check for clogged nozzles.

[Checking the Nozzles Using the Product Control Panel](#)

[Checking the Nozzles Using a Computer Utility](#)

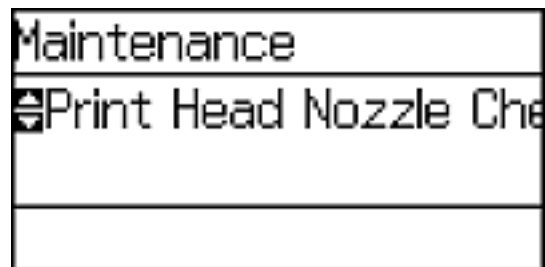
Parent topic: [Print Head Maintenance](#)

Checking the Nozzles Using the Product Control Panel

You can check the print head nozzles using the control panel on your product.

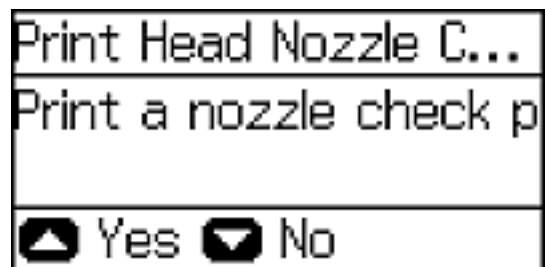
1. Load a few sheets of plain paper in the product.
2. Press the arrow buttons to select **Menu** and press the **OK** button.
3. Select **Maintenance** and press the **OK** button.

You see this screen:



4. Select **Print Head Nozzle Check** and press the **OK** button.

You see a screen like this:



5. Press the up arrow button.
The nozzle pattern prints.

6. Check the printed pattern to see if there are gaps in the lines.

Print head is clean



Print head needs cleaning



7. Do one of the following:
- If there are no gaps, press the down arrow button, select **Finish** and press the **OK** button.
 - If there are gaps or the pattern is faint, select **Clean the print head** and press the **OK** button.
8. Follow the instructions on the screen to clean the print head, check the nozzles, and repeat the process as necessary.

Caution: Never turn off the product or open the front cover during a cleaning cycle or you may not be able to print.

If you don't see any improvement after cleaning the print head up to 4 times, wait at least 6 hours without printing or longer if printing. Then try cleaning the print head again. If quality still does not improve, one of the ink cartridges may be old or damaged and needs to be replaced.

Parent topic: [Print Head Nozzle Check](#)

Related concepts

[Print Head Cleaning](#)

Related topics

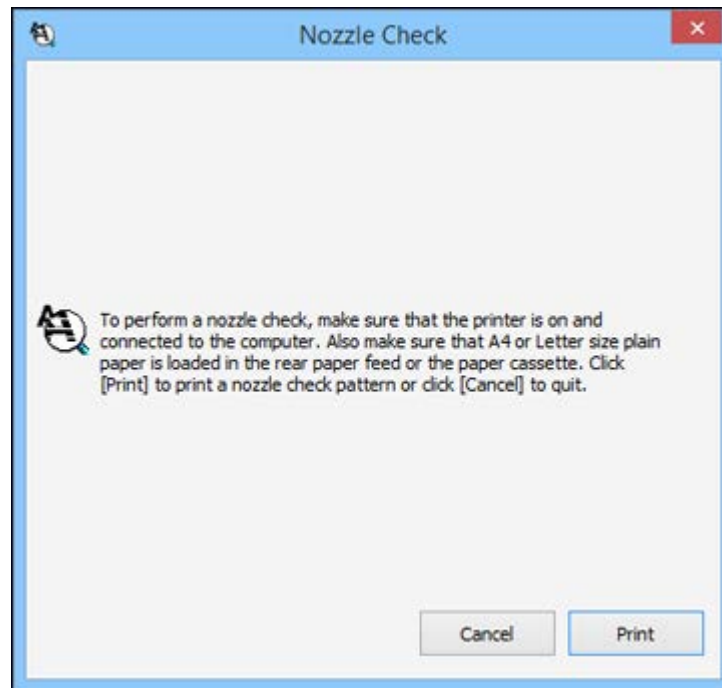
[Loading Paper](#)

Checking the Nozzles Using a Computer Utility

You can check the print head nozzles using a utility on your Windows or Mac computer.

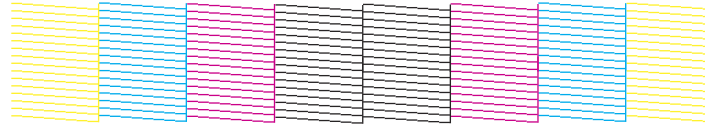
1. Load a few sheets of plain paper in the product.
2. Do one of the following:
 - **Windows:** Access the Windows Desktop and right-click the product icon in the Windows taskbar.
 - **OS X 10.6/10.7/10.8/10.9:** In the Apple menu or the Dock, select **System Preferences**. Select **Print & Fax**, **Print & Scan**, or **Printers & Scanners**, select your product, and select **Options & Supplies**. Select **Utility** and select **Open Printer Utility**.
 - **OS X 10.5:** In the Apple menu or the Dock, select **System Preferences**. Select **Print & Fax**, select your product, and select **Open Print Queue**. Select **Utility**.
3. Select **Nozzle Check**.

You see a window like this:



4. Click **Print**.
5. Check the printed pattern to see if there are gaps in the lines.

Print head is clean



Print head needs cleaning



6. If there are no gaps, click **Finish**.
If there are gaps or the pattern is faint, clean the print head.

Parent topic: [Print Head Nozzle Check](#)

Related concepts

[Print Head Cleaning](#)

Related topics

[Loading Paper](#)

Print Head Cleaning

If print quality has declined and the nozzle check pattern indicates clogged nozzles, you can clean the print head.

Note: You cannot clean the print head if an ink cartridge is expended, and may not be able to clean it when a cartridge is low. You must replace the cartridge first.

[Cleaning the Print Head Using the Product Control Panel](#)

[Cleaning the Print Head Using a Computer Utility](#)

Parent topic: [Print Head Maintenance](#)

Related tasks

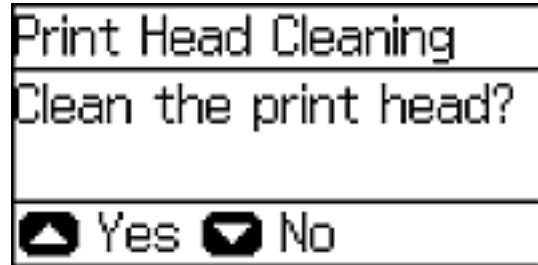
[Removing and Installing Ink Cartridges](#)

Cleaning the Print Head Using the Product Control Panel

You can clean the print head using the control panel on your product.

1. Load a few sheets of plain paper in the product.
2. Press the arrow buttons to select **Menu** and press the **OK** button.
3. Select **Maintenance** and press the **OK** button.
4. Select **Print Head Cleaning** and press the **OK** button.

You see this screen:



5. Press the up arrow button.

Note: Use the nozzle check pattern to determine which colors need cleaning. You can save ink by cleaning only selected colors.

When the cleaning cycle is finished, you see a message on the screen.

Caution: Never turn off the product or open the front cover during a cleaning cycle or you may not be able to print.

6. Select **Print Nozzle Check Pattern** and press the **OK** button.
7. Press the up arrow button.
8. Select **Finish** and press the **OK** button to confirm that the print head is clean.

If you don't see any improvement after cleaning the print head up to 4 times, wait at least 6 hours without printing or longer if printing. Then try cleaning the print head again. If quality still does not improve, one of the ink cartridges may be old or damaged and needs to be replaced.

Parent topic: [Print Head Cleaning](#)

Related tasks

[Cleaning the Print Head Using a Computer Utility](#)

Related topics

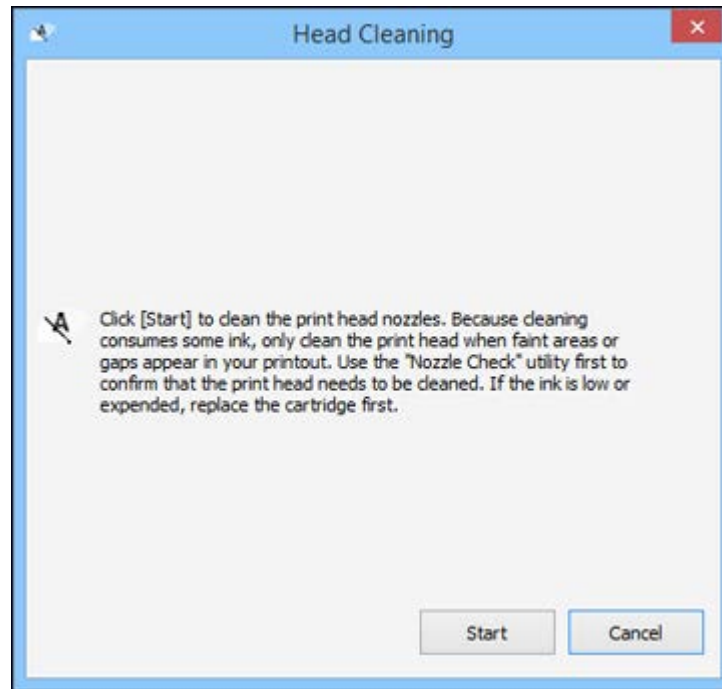
[Loading Paper](#)

Cleaning the Print Head Using a Computer Utility

You can clean the print head using a utility on your Windows or Mac computer.

1. Load a few sheets of plain paper in the product.
2. Do one of the following:
 - **Windows:** Access the Windows Desktop and right-click the product icon in the Windows taskbar.
 - **OS X 10.6/10.7/10.8/10.9:** In the Apple menu or the Dock, select **System Preferences**. Select **Print & Fax**, **Print & Scan**, or **Printers & Scanners**, select your product, and select **Options & Supplies**. Select **Utility** and select **Open Printer Utility**.
 - **OS X 10.5:** In the Apple menu or the Dock, select **System Preferences**. Select **Print & Fax**, select your product, and select **Open Print Queue**. Select **Utility**.
3. Select **Head Cleaning**.

You see a window like this:



4. Click **Start** to begin the cleaning cycle.

Caution: Never turn off the product or open the front cover during a cleaning cycle or you may not be able to print.

5. When the cleaning cycle is finished, you can check to see if the nozzles are clean; click **Print Nozzle Check Pattern** and click **Print**.
6. Check the printed pattern to see if there are gaps in the lines.

Print head is clean



Print head needs cleaning



- If there are no gaps, click **Finish**.
- If there are gaps or the pattern is faint, click **Clean** to clean the print head again.

If you don't see any improvement after cleaning the print head up to 4 times, wait at least 6 hours without printing or longer if printing. Then try cleaning the print head again. If quality still does not improve, one of the ink cartridges may be old or damaged and needs to be replaced.

Parent topic: [Print Head Cleaning](#)

Related tasks

[Cleaning the Print Head Using the Product Control Panel](#)

Related topics

[Loading Paper](#)

Print Head Alignment

If your printouts become grainy or blurry, you notice misalignment of vertical lines, or you see dark or light horizontal bands, you may need to align the print head.

Note: Banding may also occur if your print head nozzles need cleaning.

[Aligning the Print Head Using the Product Control Panel](#)

[Aligning the Print Head Using a Computer Utility](#)

Parent topic: [Adjusting Print Quality](#)

Aligning the Print Head Using the Product Control Panel

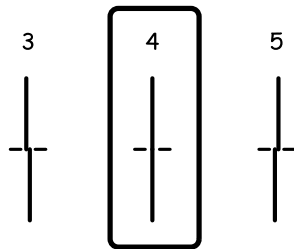
You can align the print head using the control panel on your product.

1. Load a few sheets of plain paper in the product.
2. Press the arrow buttons to select **Menu** and press the **OK** button.
3. Select **Maintenance** and press the **OK** button.

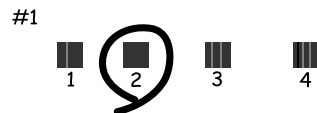
4. Select **Print Head Alignment** and press the **OK** button.
5. Do one of the following:
 - If vertical lines are misaligned, select **Ruled Line Alignment** and press the **OK** button.
 - If your printouts look blurry, select **Vertical Alignment** and press the **OK** button.
 - If you see horizontal bands at regular intervals, select **Horizontal Alignment** and press the **OK** button.
6. Press the up arrow button to print an alignment sheet.

Note: Do not cancel printing while you are printing head alignment patterns.

7. Check the printed patterns on the alignment sheet and do one of the following:
 - If you printed a ruled line alignment sheet, select the number representing the pattern with the least misaligned vertical line.



- If you printed a vertical alignment sheet, select the number representing the most solid printed pattern for each set on the LCD screen.



- If you printed a horizontal alignment sheet, select the number representing the pattern with the least amount of separation or overlap on the LCD screen.



8. After you have selected the number for all the sets, press the **OK** button.

Parent topic: [Print Head Alignment](#)

Related topics

[Loading Paper](#)

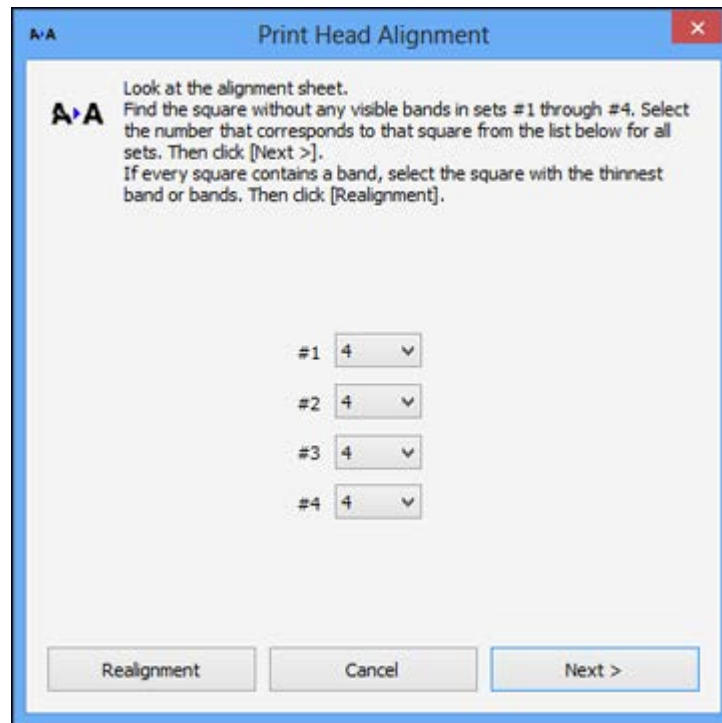
Aligning the Print Head Using a Computer Utility

You can align the print head using a utility on your Windows or Mac computer.

1. Load a few sheets of plain paper in the product.
2. Do one of the following:
 - **Windows:** Access the Windows Desktop and right-click the product icon in the Windows taskbar.
 - **OS X 10.6/10.7/10.8/10.9:** In the Apple menu or the Dock, select **System Preferences**. Select **Print & Fax**, **Print & Scan**, or **Printers & Scanners**, select your product, and select **Options & Supplies**. Select **Utility** and select **Open Printer Utility**.
 - **OS X 10.5:** In the Apple menu or the Dock, select **System Preferences**. Select **Print & Fax**, select your product, and select **Open Print Queue**. Select **Utility**.
3. Select **Print Head Alignment**.
4. Click **Next**, then click **Print** to print an alignment sheet.

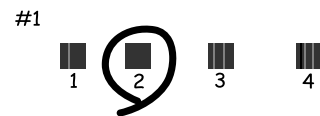
Note: Do not cancel printing while you are printing a head alignment pattern.

You see a window like this:



5. Check the printed pattern and follow the instructions on the screen to choose the number representing the best printed pattern for each set.

Vertical alignment



Horizontal alignment



- After choosing each pattern number, click **Next**.
- If no patterns are aligned in one or more of the sets, choose the closest one in each set and click **Realignment**. Then print another alignment sheet and check it.

Note: Click **Skip** (where available) if you want to skip a particular alignment sheet.

6. When you are done, click **Finish**.

Parent topic: [Print Head Alignment](#)

Related topics

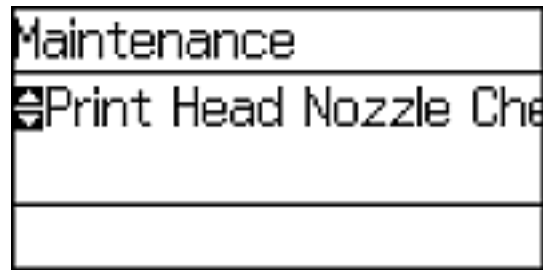
[Loading Paper](#)

Cleaning the Paper Guide

If you see ink on the back of a printout, you can clean the paper guide rollers to remove any excess ink. If paper does not feed correctly from the rear paper feed slot, you can use a cleaning sheet to clean the rollers.

1. Do one of the following:
 - If printouts are smeared or scuffed, load plain paper in the paper source that you want to clean in this size: A3 (11.7 × 16.5 inches [297 × 420 mm])
 - If paper does not feed correctly from the rear paper feed slot, load the cleaning sheet that comes with genuine Epson paper in the rear paper feed slot.
2. Press the arrow buttons to select **Menu** and press the **OK** button.
3. Select **Maintenance** and press the **OK** button.

You see this screen:



4. Select **Paper Guide Cleaning** and press the **OK** button.
5. Select the paper source you want to clean and press the **OK** button.
6. Press the up arrow button.
7. If you are cleaning the paper guides, repeat as necessary until the paper comes out clean. If you are using a cleaning sheet, repeat these steps up to 3 times.

Note: If the paper is not clean after cleaning several times, try cleaning the other paper sources.

Parent topic: [Adjusting Print Quality](#)

Related topics

[Loading Paper](#)

Cleaning and Transporting the Product

If your product gets dirty or you need to move it some distance, follow the instructions in these sections.

[Cleaning the Product](#)

[Transporting Your Product](#)

Cleaning the Product

To keep your product working at its best, you should clean it several times a year.

Caution: Do not use a hard brush, alcohol, or paint thinner to clean the product or you may damage it. Do not use oil or other lubricants inside the product or let water get inside it.

1. Turn off the product.
2. Unplug the power cord.
3. Disconnect any connected cables.
4. Remove all the paper from the product.
5. Clean the paper cassettes using a soft brush.
6. Clean the outer case and control panel with a soft, dry cloth. Do not use liquid or chemical cleansers.

Parent topic: [Cleaning and Transporting the Product](#)

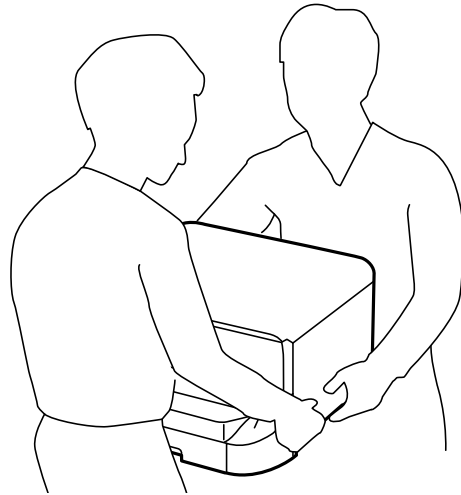
Transporting Your Product

If you need to store your product or transport it, prepare it for transportation as described here.

Caution: During transportation and storage, follow these guidelines:

- Use two or more people to lift the product.

- When lifting the product, hold it as shown here. Holding other areas may cause the product to fall or cause you to pinch your fingers when placing the product down.



- Leave the maintenance box installed; otherwise ink may leak.
 - When placing the product on the optional cabinet, lock the casters on the cabinet first.
 - Avoid tilting the product, placing it vertically, or turning it upside down; otherwise ink may leak.
 - Leave the ink cartridges installed. Removing the cartridges can dry out the print head and may prevent the product from printing.
1. Turn off the product.
 2. Unplug the power cord.
 3. Disconnect any connected cables.
 4. Remove all the paper from the product.
 5. Close the paper support and output tray.
 6. If you transporting the product a short distance, remove the optional cabinet and paper cassettes (if they are installed) before lifting the product.

Note: If the optional cabinet is installed, you can use the casters on the cabinet to roll the product instead of lifting it. Remove the cabinet stands and unlock the casters before moving the product. Do not roll the product over uneven or rough surfaces to avoid harsh impacts to the product.

7. If you are transporting the product over a long distance, place the product in its original packing materials, if possible, or use equivalent materials with cushioning around the product. Make sure the box adequately protects the product control panel.

Keep the product level during transportation. If print quality has declined when you print again, clean and align the print head.

Parent topic: [Cleaning and Transporting the Product](#)

Related concepts

[Print Head Cleaning](#)

[Print Head Alignment](#)

Related tasks

[Removing and Installing Ink Cartridges](#)

Solving Problems

Check these sections for solutions to problems you may have using your product.

[Checking for Software Updates](#)

[Product Status Messages](#)

[Running a Product Check](#)

[Resetting Control Panel Defaults](#)

[Solving Setup Problems](#)

[Solving Network Problems](#)

[Solving Paper Problems](#)

[Solving PostScript Printing Problems](#)

[Solving Problems Printing from a Computer](#)

[Solving Page Layout and Content Problems](#)

[Solving Print Quality Problems](#)

[When to Uninstall Your Product Software](#)

[Where to Get Help](#)

Checking for Software Updates

Periodically, it's a good idea to check Epson's support website for free updates to your product software. Visit the driver download site at ([U.S. downloads](#) or [Canadian downloads](#)).

- **Windows:** Your printer software automatically checks for updates. You can also manually update the software by selecting **Software Update** here:
 - Accessing the Windows Desktop and right-clicking the product icon in the Windows taskbar
 - On the **Maintenance** tab in the printer settings window

You can also update the software by selecting **EPSON Software Updater** in the **EPSON** or **EPSON Software** program group, accessible by the **Start** button, or on the **Start** or **Apps** screens, depending on your version of Windows.

- **OS X:** You can manually update the software by opening the **Applications > Epson Software** folder and selecting **EPSON Software Updater**.

Parent topic: [Solving Problems](#)

Product Status Messages

You can often diagnose problems with your product by checking the messages on its LCD screen.

LCD screen message	Condition/solution
Printer error. Turn the power off and on again.	Turn the product off and then back on again. If the error continues, check for and remove any paper jams or protective materials from the product. If the error is still displayed, contact Epson for support.
Too many paper cassette units are installed. Turn the power off and uninstall the extra units.	You can install up to three optional paper cassette units. Remove any extra units.
Cannot print because XX is out of order. You can print from another paper source.	Turn the product off and then back on again. Reinsert the indicated paper cassette.
Maintenance rollers on XX are nearing the end of their service life.	The maintenance rollers need to be replaced periodically for optimal performance. (Paper may not feed correctly from the paper cassette when the maintenance roller is near the end of its service life.)
Maintenance rollers on XX are at the end of their service life.	Contact your dealer to replace the maintenance rollers. Reset the maintenance roller counter and select the paper cassette for which you replaced the maintenance rollers.
You need to replace the following ink cartridge(s).	Replace the ink cartridge indicated on the LCD screen.
Memory full	Reduce the size of the print job.
Invalid IP address and subnet mask.	There is a problem with the network connection to your product.
Recovery mode	An error has occurred during firmware updating. Connect your product using a USB cable and try downloading the Firmware Update from the Epson support site. If you still need help, contact Epson for support.

Parent topic: [Solving Problems](#)

Related references

[Where to Get Help](#)

Related tasks

[Checking for Software Updates](#)

Related topics

[Replacing Ink Cartridges and Maintenance Boxes](#)

[Solving Paper Problems](#)

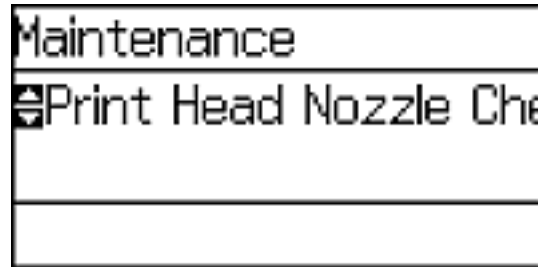
[Wi-Fi or Wired Networking](#)

Running a Product Check

Running a product check helps you determine if your product is operating properly.

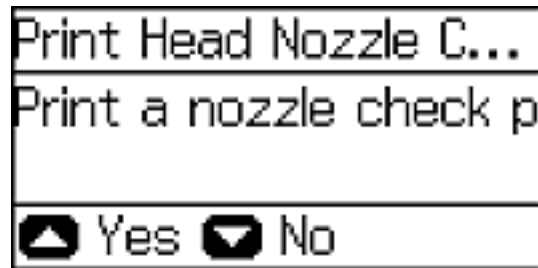
1. Disconnect any interface cables connected to your product.
2. Load plain paper in the product.
3. Press the arrow buttons to select **Menu** and press the **OK** button.
4. Select **Maintenance** and press the **OK** button.

You see this screen:



5. Select **Print Head Nozzle Check** and press the **OK** button.

You see a screen like this:



6. Press the up arrow button.
The nozzle pattern prints.
7. Do one of the following, depending on the results of the product check:
 - If the page prints and the nozzle check pattern is complete, the product is operating properly. Any operation problem you may have could be caused by your computer, cable, software, or selected settings. Check the other solutions in this book or try uninstalling and reinstalling your printer software.
 - If the page prints but the nozzle check pattern has gaps, clean or align the print head.
 - If the page does not print, the product may have a problem. Check the other solutions in this manual. If they do not work, contact Epson.

Parent topic: [Solving Problems](#)

Related concepts

[Print Head Cleaning](#)

[Print Head Alignment](#)

[When to Uninstall Your Product Software](#)

Related references

[Where to Get Help](#)

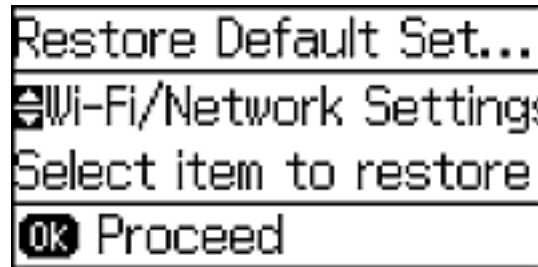
Resetting Control Panel Defaults

If you have a problem with settings on the product control panel, you can reset them to their factory defaults. You can choose which settings to reset or reset them all.

Note: This setting can be locked by an administrator. If you cannot access or change this setting, contact your administrator for assistance.

1. Press the arrow buttons to select **Menu** and press the **OK** button.
2. Select **System Administration** and press the **OK** button. Enter the administrator password, if necessary.
3. Select **Restore Default Settings** and press the **OK** button.

You see this screen:



4. Select one of these options and press the **OK** button:
 - **Wi-Fi/Network Settings:** Resets all network settings.
 - **Clear All Data and Settings:** Resets all control panel settings.
- You see a confirmation screen.
5. Press the up arrow button to reset the selected settings. (Press the down arrow button if you want to cancel the operation.)

Parent topic: [Solving Problems](#)

Solving Setup Problems

Check these sections if you have problems while setting up your product.

[Product Does Not Turn On or Off](#)

[Noise After Ink Installation](#)

[Software Installation Problems](#)

Parent topic: [Solving Problems](#)

Product Does Not Turn On or Off

If you cannot turn the product on or off, try these solutions:

- If you cannot turn on your product, make sure the power cord is securely connected and hold down the power button a little longer.
- If you cannot turn off your product, hold the power button down a little longer. If you still cannot turn off your product, unplug the power cord. To prevent the print head from drying out, plug the power cord back in, then turn your product on and off again using the power button.

Parent topic: [Solving Setup Problems](#)

Noise After Ink Installation

If you hear noises from your product after installing ink, check the following:

- The first time you install the ink cartridge, the product must prime its print head. Wait until priming finishes before you turn off the product, or it may prime improperly and use excess ink the next time you turn it on.
- If the product's print head stops moving or making noise, and the charging process has not finished after approximately 5 minutes, turn off your product. Turn it back on and check to see if charging is still in progress. If it is still in progress, contact Epson for help.

Parent topic: [Solving Setup Problems](#)

Software Installation Problems

If you have problems while installing your product software, try these solutions:

- Make sure your product is turned on and any necessary cables are securely connected at both ends. If you still have problems installing software, disconnect the cable and carefully follow the instructions on the *Start Here* sheet. Also make sure your system meets the requirements for your operating system.
- Close any other programs, including screen savers and virus protection software, and install your product software again.
- In Windows, make sure your product is selected as the default printer and the correct port is shown in the printer properties.
- If you see any error message or your software does not install correctly in Windows, you may not have software installation privileges. Contact your System Administrator.

Parent topic: [Solving Setup Problems](#)

Related concepts

[When to Uninstall Your Product Software](#)

Related references

[Windows System Requirements](#)

[OS X System Requirements](#)

Solving Network Problems

Check these solutions if you have problems setting up or using your product on a network.

Note: Breakdown or repair of this product may cause loss of network data and settings. Epson is not responsible for backing up or recovering data and settings during or after the warranty period. We recommend that you make your own backup or print out your network data and settings.

[Product Cannot Connect to a Wireless Router or Access Point](#)

[Network Software Cannot Find Product on a Network](#)

[Product Does Not Appear in OS X Printer Window](#)

[Cannot Print Over a Network](#)

Parent topic: [Solving Problems](#)

Product Cannot Connect to a Wireless Router or Access Point

If your product has trouble finding or connecting to a wireless router or access point, try these solutions:

- If you are connecting the product via Wi-Fi Protected Setup (WPS) and the Wi-Fi icon on your product's LCD screen is not lit or does not appear, make sure you select one of the WPS options from the product control panel within 2 minutes of pressing the WPS button on your router.
- Make sure to place your product within contact range of your 2.4 GHz router or access point. Avoid placing your product near a microwave oven, 2.4 GHz cordless phone, or large metal object, such as a filing cabinet.

Note: If you are using a 5 GHz wireless router, set the router to operate in dual band (2.4 GHz and 5 GHz) mode. See your router documentation for instructions.

- Verify that your router or access point is operating correctly by connecting to it from your computer or another device.
- You may need to disable the firewall and any anti-virus software on your wireless router or access point.
- Check to see if access restrictions, such as MAC address filtering, are set on the router or access point. If access restrictions are set, add your product's MAC address to your router's address list. To

obtain your product's MAC address, print a network status sheet. Then follow the instructions in your router or access point documentation to add the address to the list.

- If your router or access point does not broadcast its network name (SSID), follow the instructions that came with your product to enter your wireless network name manually.
- If your router or access point has security enabled, determine the kind of security it is using and any required password or passphrase for connection. Then make sure to enter the exact WEP key or WPA passphrase correctly.
- Check if your computer is restricting the available wireless channels. If so, verify that your wireless access point is using one of the usable channels and change to a usable channel, if necessary.
- If you are using a Wi-Fi Direct connection that suddenly disconnects, the Wi-Fi direct password on your device may have been changed. If necessary, delete the existing **DIRECT-xxxxxxx** connection settings from your device and enter a new password. See your device documentation for instructions.
- If you connected your product to a Windows computer using Wi-Fi Direct and it automatically selected Access Point Mode, you may have trouble accessing a low-priority Internet connection. Check the network connection or adapter settings in the Windows Control Panel and set the **Internet metric** setting to **100** for your version of the Internet Protocol.

Parent topic: [Solving Network Problems](#)

Related concepts

[Wi-Fi Direct Mode Setup](#)

Related tasks

[Selecting Wireless Network Settings From the Control Panel](#)

[Printing a Network Status Sheet](#)

Related topics

[Wi-Fi or Wired Networking](#)

Network Software Cannot Find Product on a Network

If EpsonNet Setup cannot find your product on a network, try these solutions:

- Make sure your product is turned on and connected to your network. Verify connection using your product control panel.
- Check if your network name (SSID) contains non-ASCII characters. Your product cannot display non-ASCII characters.
- Make sure your product is not connected to a guest network.

- If necessary, reinstall your product software and try running EpsonNet Setup again:
 1. Reset your product's network settings to their factory defaults.
 2. Windows only: uninstall your product software.
 3. Initialize your router following the instructions in your router documentation.

Note: If you are reading these instructions online, you will lose your Internet connection when you initialize your router, so note the next step before initializing it.

4. Download your product software from the Epson website using the instructions on the *Start Here* sheet.
- If you have replaced your router, reinstall your product software to connect to the new router.

Note: If you are using a 5 GHz wireless router, set the router to operate in dual band (2.4 GHz and 5 GHz) mode. See your router documentation for instructions.

Parent topic: [Solving Network Problems](#)

Related concepts

[When to Uninstall Your Product Software](#)

Related topics

[Wi-Fi or Wired Networking](#)

Product Does Not Appear in OS X Printer Window

If your product does not appear in the OS X printer window, try these solutions:

- Turn your product off, wait 30 seconds, then turn it back on again.
- If you are connecting the product via Wi-Fi Protected Setup (WPS) and the Wi-Fi icon does not appear on your product's LCD, make sure you select one of the WPS options from the product control panel within 2 minutes of pressing the WPS button on your router.
- If you are connecting the product wirelessly via EpsonNet Setup and the Wi-Fi icon does not appear on your LCD screen, make sure your product software was installed correctly. If necessary, reinstall your software.

Note: If you are using a 5 GHz wireless router, set the router to operate in dual band (2.4 GHz and 5 GHz) mode. See your router documentation for instructions.

Parent topic: [Solving Network Problems](#)

Related concepts

[When to Uninstall Your Product Software](#)

Cannot Print Over a Network

If you cannot print over a network, try these solutions:

- Make sure that your product is turned on.
- Make sure you install your product's network software as described in your product documentation.
- Print a network status sheet and verify that the network settings are correct. If the network status is **Disconnected**, check any cable connections and turn your product off and then on again.
- If you are using TCP/IP, make sure the product's IP address is set correctly for your network. If your network does not assign IP addresses using DHCP, set the IP address manually.
- Make sure your computer and product are both using the same wireless network.
- If network printing is slow, print a network status sheet and check the signal strength. If it is poor, place your product closer to your router or access point. Avoid placing your product near a microwave oven, 2.4 GHz cordless phone, or large metal object, such as a filing cabinet.

Note: If you are using a 5 GHz wireless router, set the router to operate in dual band (2.4 GHz and 5 GHz) mode. See your router documentation for instructions.

- Check to see if your wireless router or access point has an enabled Privacy Separator function that is preventing printing from a device over the network. See your router or access point documentation for instructions on disabling the Privacy Separator function.
- If you are connecting the product via Wi-Fi Protected Setup (WPS) and the Wi-Fi icon does not appear on your product's LCD screen, make sure you select one of the WPS options from the product control panel within 2 minutes of pressing the WPS button on your router.
- Check your wired LAN router or access point to see if the LED for the port to which your product is connected is on or flashing. If the link LED is off, try the following:
 - Make sure the Ethernet cable is securely connected to your product and to your router, access point, switch, or hub.
 - Try connecting your product to a different port or a different router, access point, switch, or hub.
 - Try connecting with a different Ethernet cable.
 - Try printing to your product from another computer on the network.

Note: If you are using a 5 GHz wireless router, set the router to operate in dual band (2.4 GHz and 5 GHz) mode. See your router documentation for instructions.

- If you are connecting the product via EpsonNet Setup and the Wi-Fi icon does not appear on the LCD, make sure your product software was installed correctly. If necessary, reinstall your software.

Parent topic: [Solving Network Problems](#)

Related concepts

[When to Uninstall Your Product Software](#)

Related tasks

[Printing a Network Status Sheet](#)

Related topics

[Wi-Fi or Wired Networking](#)

Solving Paper Problems

Check these sections if you have problems using paper with your product.

[Paper Feeding Problems](#)

[Paper Jam Problems in the Front Cover \(A\)](#)

[Paper Jam Problems in the Rear Paper Feed Slot \(B1\)](#)

[Paper Jam Problems in the Front Paper Feed Slot \(B2\)](#)

[Paper Jam Problems in the Cassette \(C1/C2/C3/C4\)](#)

[Paper Jam Problems in the Rear Cover 1 \(D1\)](#)

[Paper Jam Problems in the Rear Cover \(E\) of the Optional Paper Cassette Unit](#)

[Paper Ejection Problems](#)

Parent topic: [Solving Problems](#)

Paper Feeding Problems

If you have problems feeding paper, try these solutions:

- If paper does not feed for printing, remove it from the rear feed slot or cassette. Reload it, then adjust the edge guides. Make sure the paper stack is not above the tab on the edge guides inside the cassette or rear feed slot.
- Be sure to insert the paper cassette all the way into your product.
- If multiple pages feed at once, remove the paper, fan the edges to separate the sheets, and reload it.

- Do not load more than the recommended number of sheets.
- Make sure your paper meets the specifications for your product.
- If paper jams when you print on both sides of the paper, try loading fewer sheets.
- Make sure the paper size and paper type settings are correct for the paper source.
- Load and eject paper without printing to clean the paper path.
- If paper does not feed correctly after replacing the maintenance rollers, make sure you installed the maintenance rollers correctly.
- If you installed an optional paper cassette unit, be sure to enable the cassette unit in the printing software.
- If your product pauses during printing, make sure the front cover is closed.
- The maintenance rollers may be at the end of their service life. Check the maintenance roller status and replace them if necessary.
- For best results, follow these guidelines:
 - Use new, smooth, high-quality paper that is not curled, creased, old, too thin, or too thick.
 - Load paper in the cassette printable side down.
 - Do not load binder paper with holes in the cassette.
 - Follow any special loading instructions that came with the paper.

Parent topic: [Solving Paper Problems](#)

Related references

[Paper Jam Problems in the Front Cover \(A\)](#)

[Paper Jam Problems in the Rear Paper Feed Slot \(B1\)](#)

[Paper Jam Problems in the Front Paper Feed Slot \(B2\)](#)

[Paper Jam Problems in the Cassette \(C1/C2/C3/C4\)](#)

[Paper Jam Problems in the Rear Cover 1 \(D1\)](#)

[Paper Jam Problems in the Rear Cover \(E\) of the Optional Paper Cassette Unit](#)

[Paper Loading Capacity](#)

[Paper Specifications](#)

Related tasks

[Cleaning the Paper Guide](#)

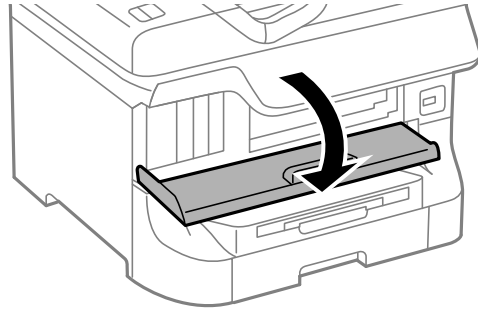
Related topics

[Loading Paper](#)

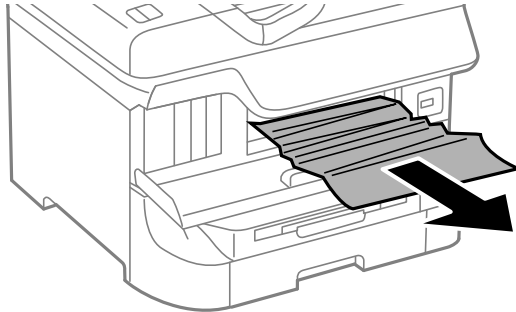
Paper Jam Problems in the Front Cover (A)

If paper has jammed in the front cover, follow the steps here to clear the jam.

1. Cancel the print job, if necessary.
2. Open the front cover.



3. Remove any paper inside, including torn pieces.



Caution: Be careful to not touch any parts inside the product to prevent damage to it.

4. Close the front cover.

Note: If any torn pieces of paper remain in the product, select **Menu > Maintenance > Remove Paper** after clearing the paper jam error.

5. Follow the prompts on the LCD screen to clear any error messages. If you still see a paper jam message, check the other paper jam solutions.

Parent topic: [Solving Paper Problems](#)

Related references

[Paper Jam Problems in the Rear Paper Feed Slot \(B1\)](#)

[Paper Jam Problems in the Front Paper Feed Slot \(B2\)](#)

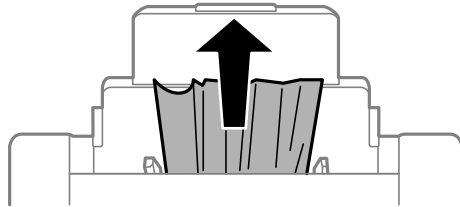
[Paper Jam Problems in the Cassette \(C1/C2/C3/C4\)](#)

[Paper Jam Problems in the Rear Cover 1 \(D1\)](#)

[Paper Jam Problems in the Rear Cover \(E\) of the Optional Paper Cassette Unit](#)

Paper Jam Problems in the Rear Paper Feed Slot (B1)

If paper has jammed in the rear paper feed slot, carefully remove the paper.



Parent topic: [Solving Paper Problems](#)

Related references

[Paper Jam Problems in the Front Cover \(A\)](#)

[Paper Jam Problems in the Front Paper Feed Slot \(B2\)](#)

[Paper Jam Problems in the Cassette \(C1/C2/C3/C4\)](#)

[Paper Jam Problems in the Rear Cover 1 \(D1\)](#)

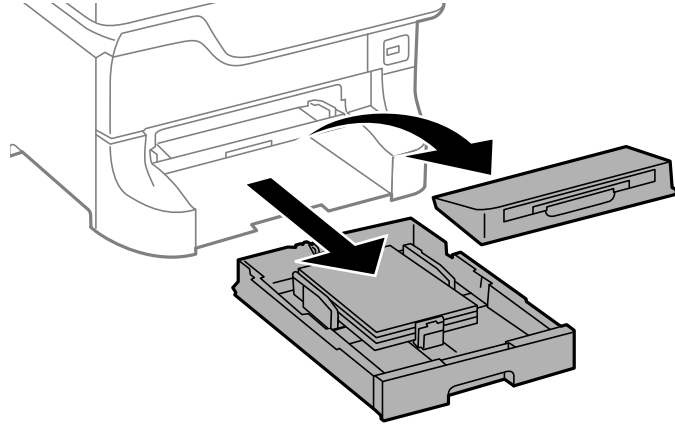
[Paper Jam Problems in the Rear Cover \(E\) of the Optional Paper Cassette Unit](#)

Paper Jam Problems in the Front Paper Feed Slot (B2)

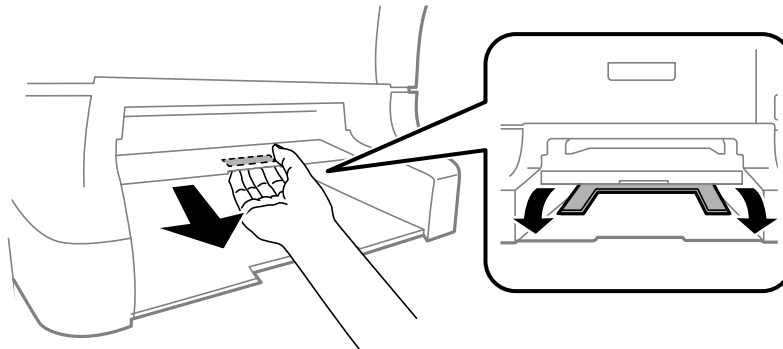
If paper has jammed in the front paper feed slot, follow the steps here to clear the jam.

1. Cancel the print job, if necessary.
2. Close the output tray.

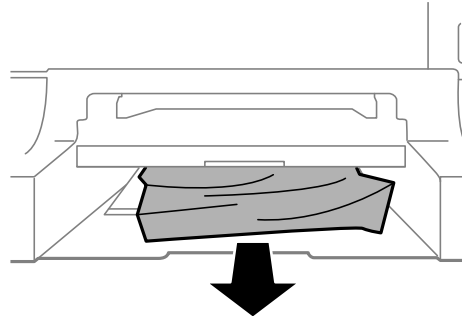
3. Remove the output tray and pull out the paper cassette.



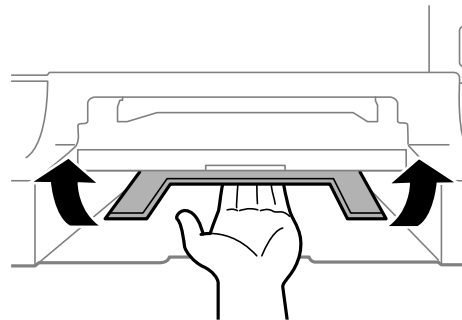
4. Pull the lever to lower the cover.



5. Carefully remove any paper jammed inside the product.



6. Raise the cover.



7. Reattach the output tray and insert the paper cassette.
8. Follow the prompts on the LCD screen to clear any error messages. If you still see a paper jam message, check the other paper jam solutions.

Parent topic: [Solving Paper Problems](#)

Related references

[Paper Jam Problems in the Front Cover \(A\)](#)

[Paper Jam Problems in the Rear Paper Feed Slot \(B1\)](#)

[Paper Jam Problems in the Cassette \(C1/C2/C3/C4\)](#)

[Paper Jam Problems in the Rear Cover 1 \(D1\)](#)

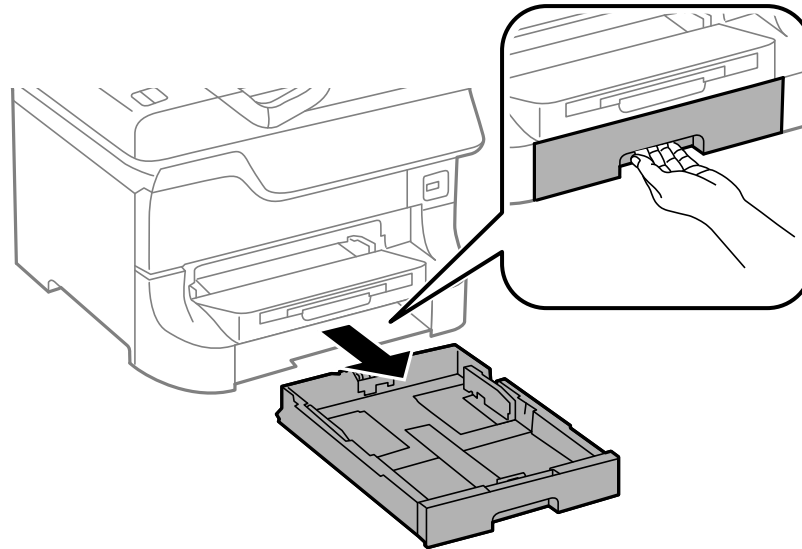
[Paper Jam Problems in the Rear Cover \(E\) of the Optional Paper Cassette Unit](#)

Paper Jam Problems in the Cassette (C1/C2/C3/C4)

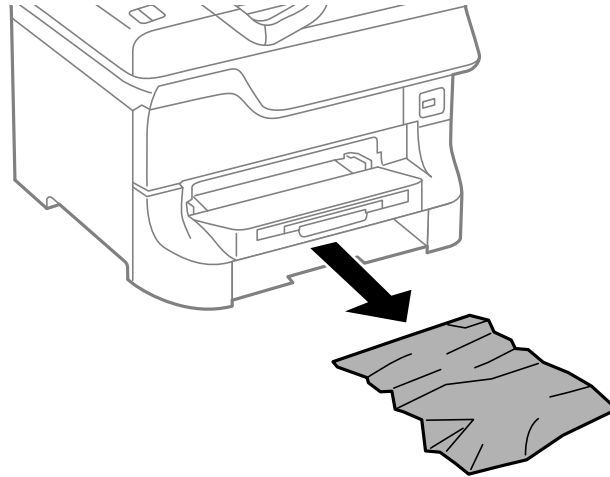
If paper has jammed in the cassette, follow the steps here to clear the jam.

Note: If the optional paper cassette units are installed, do not remove more than one paper cassette at a time.

1. Cancel the print job, if necessary.
2. Pull out the paper cassette.



3. Carefully remove any paper jammed inside the product.



4. Carefully follow all paper loading instructions and reload the paper.
5. Keep the cassette flat as you gently insert it.
6. Follow the prompts on the LCD screen to clear any error messages. If you still see a paper jam message, check the other paper jam solutions.

Parent topic: [Solving Paper Problems](#)

Related references

[Paper Jam Problems in the Front Cover \(A\)](#)

[Paper Jam Problems in the Rear Paper Feed Slot \(B1\)](#)

[Paper Jam Problems in the Front Paper Feed Slot \(B2\)](#)

[Paper Jam Problems in the Rear Cover 1 \(D1\)](#)

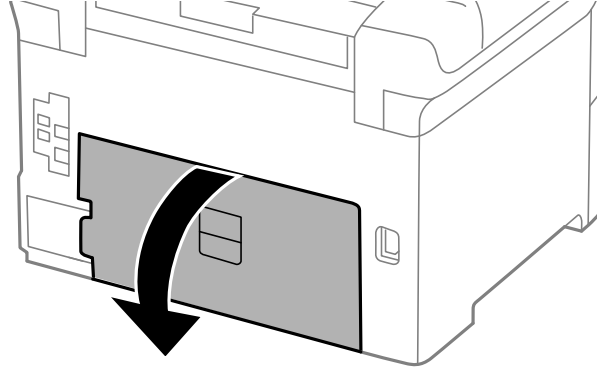
[Paper Jam Problems in the Rear Cover \(E\) of the Optional Paper Cassette Unit](#)

Paper Jam Problems in the Rear Cover 1 (D1)

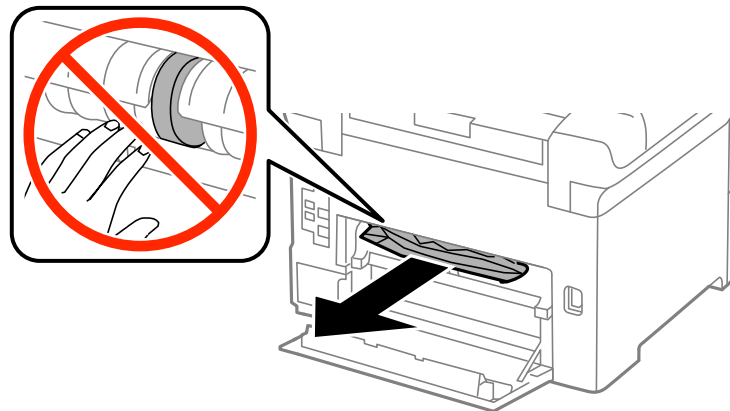
If paper has jammed in the rear cover 1, follow the steps here to clear the jam.

1. Cancel the print job, if necessary.

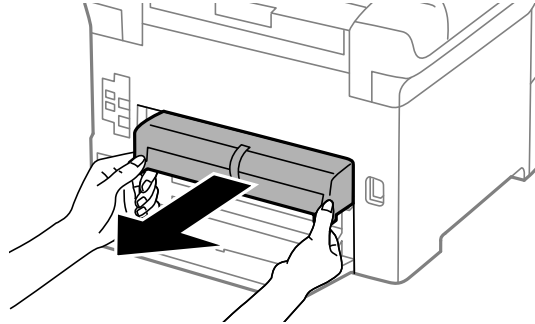
2. Open rear cover 1 (D1).



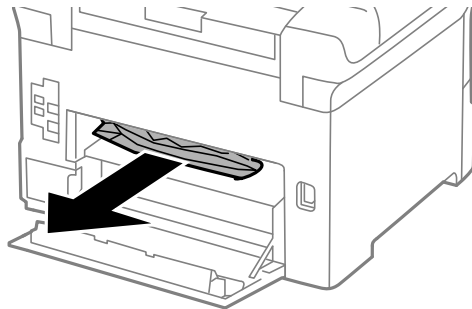
3. Carefully remove any jammed paper.



4. Pull out rear cover 2 (D2).



5. Remove any jammed paper from the duplexer.



6. Insert rear cover 2 (D2).

7. Close rear cover 1 (D1).

8. Follow the prompts on the LCD screen to clear any error messages. If you still see a paper jam message, check the other paper jam solutions.

Parent topic: [Solving Paper Problems](#)

Related references

[Paper Jam Problems in the Front Cover \(A\)](#)

[Paper Jam Problems in the Rear Paper Feed Slot \(B1\)](#)

[Paper Jam Problems in the Front Paper Feed Slot \(B2\)](#)

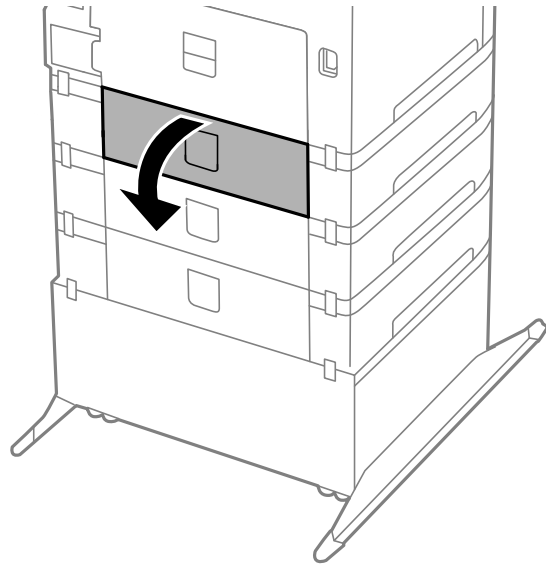
Paper Jam Problems in the Cassette (C1/C2/C3/C4)

Paper Jam Problems in the Rear Cover (E) of the Optional Paper Cassette Unit

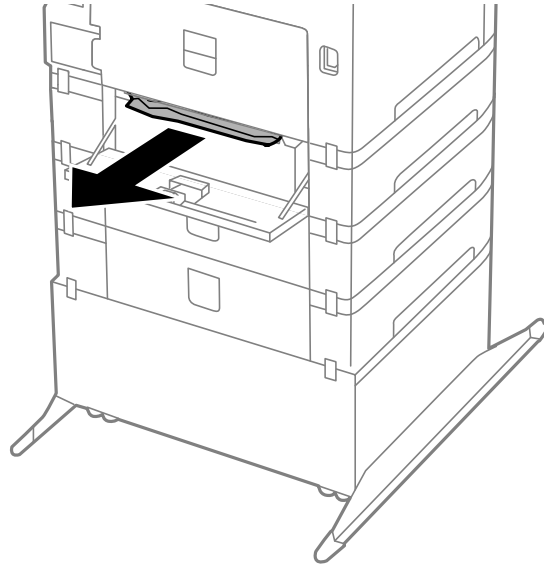
Paper Jam Problems in the Rear Cover (E) of the Optional Paper Cassette Unit

If paper has jammed in any of the optional paper cassettes, follow the steps here to clear the jam.

1. Cancel the print job, if necessary.
2. Open rear cover (E) on the optional paper cassette unit with the jammed paper.



3. Carefully remove any paper jammed inside.



4. Close rear cover (E).
5. Follow the prompts on the LCD screen to clear any error messages. If you still see a paper jam message, check the other paper jam solutions.

Parent topic: [Solving Paper Problems](#)

Related references

[Paper Jam Problems in the Front Cover \(A\)](#)

[Paper Jam Problems in the Rear Paper Feed Slot \(B1\)](#)

[Paper Jam Problems in the Front Paper Feed Slot \(B2\)](#)

[Paper Jam Problems in the Cassette \(C1/C2/C3/C4\)](#)

[Paper Jam Problems in the Rear Cover 1 \(D1\)](#)

Paper Ejection Problems

If you have problems with paper ejecting properly, try these solutions:

- If paper does not eject fully, you may have set the wrong paper size. Cancel printing to eject the paper. Select the correct paper size when you reprint.

- If paper is wrinkled when it ejects, it may be damp or too thin. Load new paper and be sure to select the correct paper type setting when you reprint.

Parent topic: [Solving Paper Problems](#)

Related references

[Paper or Media Type Settings - Printing Software](#)

Related tasks

[Cancelling Printing Using a Product Button](#)

Related topics

[Loading Paper](#)

Solving PostScript Printing Problems

Check these solutions if you have problems using the PostScript printing software.

[Nothing Prints Using the Postscript Printing Software](#)

[Documents Print Incorrectly Using the Postscript Printing Software](#)

[Accessing Printer Properties - Postscript - Windows](#)

Parent topic: [Solving Problems](#)

Nothing Prints Using the Postscript Printing Software

If your document doesn't print, try these solutions:

- Make sure your product is turned on and properly connected.
- Make sure the printing language setting on the control panel is correct.
- If **Text Detection** is enabled on the control panel and you cannot print text, set the printing language to **PS3**.
- Make sure your product is selected as the printer in your printing program.
- In Windows, the product may not print if a large number of print jobs are sent. Try selecting **Print directly to the printer** on the Advanced tab in the printer properties.

Parent topic: [Solving PostScript Printing Problems](#)

Related topics

[Printing with the Epson Universal Print Driver - Windows](#)

Documents Print Incorrectly Using the Postscript Printing Software

If your document does not print correctly, try these solutions:

- If the file you are printing was created in an application that allows you to change the data format, such as Adobe Photoshop, make sure the settings in the application match the printer driver settings.
- EPS files created in binary format may not print correctly. Try creating the file in ASCII format instead.
- In Windows, the product cannot print binary data if it is connected to the computer using a USB cable. Try selecting **ASCII** or **TBCP** as the **Output Protocol** setting on the Device Settings tab in the printer properties.
- In Windows, select the appropriate substitution fonts on the Device Settings tab in the printer properties.
- If the printed colors are incorrect, try adjusting the **Color Mode** setting on the Advanced tab of the printing software.
- If printing is slow, try selecting **Fast** as the **Print Quality** setting on the Advanced tab of the printing software.

Parent topic: [Solving PostScript Printing Problems](#)

Related tasks

[Accessing Printer Properties - Postscript - Windows](#)

Accessing Printer Properties - Postscript - Windows

You can access the printer properties to view and change product settings.

1. Do one of the following:
 - **Windows 8.x:** Navigate to the **Apps** screen and select **Control Panel > Hardware and Sound > Devices and Printers**. Right-click the postscript driver for your product, and select **Printer properties**.
 - **Windows 7:** Click  and select **Devices and Printers**. Right-click the postscript driver for your product and select **Printer properties**.
 - **Windows Vista:** Click  and select **Control Panel**. Click **Printer** under **Hardware and Sound**, then right-click the postscript driver for your product and select **Properties**.
 - **Windows XP:** Click **Start** and select **Printers and Faxes**. Right-click the postscript driver for your product and select **Properties**.
2. Click any tab to view and change the printer property settings.

Parent topic: [Solving PostScript Printing Problems](#)

Solving Problems Printing from a Computer

Check these sections if you have problems while printing from your computer.

Note: When printing using AirPrint, the available print settings are different from those covered in this manual. See the Apple website for details.

Note: For problems while printing with the Epson Universal Print Driver or PostScript (PS3) printer software, see the sections covering that software in this manual.

[Nothing Prints](#)

[Product Icon Does Not Appear in Windows Taskbar](#)

[Printing is Slow](#)

Parent topic: [Solving Problems](#)

Nothing Prints

If you have sent a print job and nothing prints, try these solutions:

- Make sure your product is turned on.
- Make sure any interface cables are connected securely at both ends.
- If you connected your product to a USB hub, make sure it is a first-tier hub. If it still does not print, connect your product directly to your computer instead of the hub.
- Run a product check to see if a test page prints. If the test page prints, check to see if your product software is installed correctly.
- If you are printing a large image, the computer may not have enough memory. Print the image at a lower resolution or a smaller file size.
- In Windows, click **Print Queue** on the Maintenance tab in the printer settings window and check for the following:
 - Check for any stalled or paused print jobs. Cancel or unpause any jobs as necessary.
 - Open the Printer menu and make sure the product is not offline.
 - Open the Printer menu and set the product as the default printer, if necessary.

- In OS X, select **System Preferences** from the Apple menu or Dock, select **Print & Scan** or **Printers & Scanners**, then double-click your printer icon. Check to see if any jobs are paused. Cancel or unpause any jobs as necessary.
- If you are using AirPrint, make sure AirPrint is enabled with the correct settings using Web Config.

Parent topic: [Solving Problems Printing from a Computer](#)

Related tasks

[Running a Product Check](#)

[Using AirPrint](#)

Product Icon Does Not Appear in Windows Taskbar

If you do not see your product icon in the Windows taskbar, first try restarting your computer. If that does not work, try this solution:

1. Do one of the following:
 - **Windows 8.x:** Navigate to the **Apps** screen and select **Control Panel > Hardware and Sound > Devices and Printers**.
 - **Windows 7:** Click  and select **Devices and Printers**.
 - **Windows Vista:** Click , select **Control Panel**, and click **Printer** under **Hardware and Sound**.
 - **Windows XP:** Click **Start** and select **Printers and Faxes**. (Or open the **Control Panel**, select **Printers and Other Hardware**, if necessary, and **Printers and Faxes**.)
2. Right-click your product name, select **Printing Preferences**, and select your product name again if necessary.
3. Click the **Maintenance** tab.
4. Click the **Extended Settings** button.
5. Select **Enable EPSON Status Monitor 3**, then click **OK**.
6. Click the **Monitoring Preferences** button.
7. Click the checkbox for the option that adds the shortcut icon to the taskbar.
8. Click **OK** to close the open program windows.

Parent topic: [Solving Problems Printing from a Computer](#)

Printing is Slow

If printing becomes slow, try these solutions:

- Make sure your system meets the requirements for your operating system. If you are printing a high-resolution image, you may need more than the minimum requirements. If necessary, increase your system's memory.
- If you are using Windows 7, close the **Devices and Printers** window before you print.
- Make sure **Quiet Mode** is turned off.
- Clear space on your hard drive or run a defragmentation utility to free up existing space.
- Close any programs you are not using when you print.
- If your product is connected to a USB hub, connect it directly to your computer instead.
- If printing becomes slower after printing continuously for a long time, the product may have automatically slowed down to protect the print mechanism from overheating or becoming damaged. Let the product rest with the power on for 30 minutes, then try printing again.

For the fastest printing, select the following settings in your product software:

- Make sure the paper type setting matches the type of paper you loaded.
- Turn on any high speed settings in your product software.
- Select a lower print quality setting.
- Make sure the ink drying time has not been increased for double-sided printing.
- **Windows:** Click the **Maintenance** tab, select **Extended Settings**, and select the following settings:
 - **High Speed Copies**
 - **Always Spool RAW Datatype**
 - **Page Rendering Mode**
 - **Print as Bitmap**

Parent topic: [Solving Problems Printing from a Computer](#)

Related references

[Windows System Requirements](#)

[OS X System Requirements](#)

[Paper or Media Type Settings - Printing Software](#)

Related tasks

[Selecting Basic Print Settings - Windows](#)

[Selecting Extended Settings - Windows](#)

[Selecting Basic Print Settings - OS X](#)

Solving Page Layout and Content Problems

Check these sections if you have problems with the layout or content of your printed pages.

Note: When printing using AirPrint, the available print settings are different from those covered in this manual. See the Apple website for details.

[Inverted Image](#)

[Too Many Copies Print](#)

[Blank Pages Print](#)

[Incorrect Margins on Printout](#)

[Incorrect Characters Print](#)

[Incorrect Image Size or Position](#)

[Slanted Printout](#)

Parent topic: [Solving Problems](#)

Inverted Image

If your printed image is inverted unexpectedly, try these solutions:

- Turn off any mirror or inversion settings in your printing application.
- Turn off the **Mirror Image**, **Flip horizontally**, or **Reverse page orientation** settings in your printer software. (This option has different names, depending on your operating system version.)

Note: Leave these options turned on when you print on Epson Iron-on Cool Peel Transfer paper, if available for your product.

Parent topic: [Solving Page Layout and Content Problems](#)

Related tasks

[Selecting Additional Layout and Print Options - Windows](#)

[Selecting Basic Print Settings - OS X](#)

Too Many Copies Print

Make sure that the **Copies** setting in your printing program or printer software is not set for multiple copies.

Parent topic: [Solving Page Layout and Content Problems](#)

Related tasks

[Selecting Basic Print Settings - Windows](#)

[Selecting Basic Print Settings - OS X](#)

Blank Pages Print

If blank pages print unexpectedly, try these solutions:

- Make sure you selected the correct paper size settings in your printing program and printer software.
- If a blank page exists in a document you are printing and you want to skip printing it, select the **Skip Blank Page** setting in your printer software.
- Run a print head nozzle check to see if any of the nozzles are clogged. Then clean the print head, if necessary.
- Make sure your product is selected as the printer in your printing program.

Parent topic: [Solving Page Layout and Content Problems](#)

Related concepts

[Print Head Nozzle Check](#)

[Print Head Cleaning](#)

Related tasks

[Selecting Basic Print Settings - Windows](#)

[Selecting Extended Settings - Windows](#)

[Selecting Basic Print Settings - OS X](#)

[Selecting Printing Preferences - OS X](#)

Incorrect Margins on Printout

If your printed page has incorrect margins, try these solutions:

- Make sure you selected the correct paper size settings in your printing program and printer software.
- Make sure you selected the correct margins for your paper size in your printing program.
- Make sure your paper is positioned correctly for feeding into the printer.

You can use the preview option in your printer software to check your margins before you print.

Parent topic: [Solving Page Layout and Content Problems](#)

Related tasks

[Selecting Basic Print Settings - Windows](#)

[Selecting Basic Print Settings - OS X](#)

Related topics

[Loading Paper](#)

Incorrect Characters Print

If incorrect characters appear in your prints, try these solutions before reprinting:

- Make sure any cables are securely connected at both ends.
- In Windows, delete all jobs from the Windows Spooler. Click **Print Queue** on the Maintenance tab in the printer settings window, and cancel any stalled print jobs.
- If your product is connected to a USB hub, connect it directly to your computer instead.
- If your computer entered sleep mode the last time you printed, the next print job after your computer exits sleep mode may contain garbled characters. Print your document again.
- If incorrect characters still appear in your prints, try connecting your product using a different cable.

Parent topic: [Solving Page Layout and Content Problems](#)

Incorrect Image Size or Position

If your printed image is the wrong size or in the wrong position, try these solutions:

- Make sure you selected the correct paper size and layout settings in your printing program and printer software.
- Make sure you selected the correct paper size on the control panel.
- Make sure your paper is positioned correctly for feeding into the printer.

You can use the preview option in your printer software to check your margins before you print.

Parent topic: [Solving Page Layout and Content Problems](#)

Related tasks

[Selecting Basic Print Settings - Windows](#)

[Selecting Additional Layout and Print Options - Windows](#)

[Selecting Basic Print Settings - OS X](#)

Slanted Printout

If your printouts are slanted, try these solutions:

- Slide the edge guides against the edges of the paper.
- Select a higher print quality setting in your printer software.
- Turn off any high speed settings in your product software.
- Align the print head.
- Make sure the product is not printing while tilted or at an angle.

Parent topic: [Solving Page Layout and Content Problems](#)

Related tasks

[Selecting Basic Print Settings - Windows](#)

[Selecting Basic Print Settings - OS X](#)

Related topics

[Loading Paper](#)

Solving Print Quality Problems

Check these sections if your printouts have problems with print quality, but your image looks fine on your computer screen.

Note: When printing using AirPrint, the available print settings are different from those covered in this manual. See the Apple website for details.

[White or Dark Lines in Printout](#)

[Blurry or Smeared Printout](#)

[Faint Printout or Printout Has Gaps](#)

[Grainy Printout](#)

[Incorrect Colors](#)

Parent topic: [Solving Problems](#)

White or Dark Lines in Printout

If you notice white or dark lines in your prints (also called banding), try these solutions before you reprint:

- Run a nozzle check to see if any of the print head nozzles are clogged. Then clean the print head, if necessary.
- Make sure the paper type setting matches the type of paper you loaded.
- Make sure you loaded the printable side of the paper correctly for your product.
- Turn off any high speed settings in your product software.
- Align the print head.
- You may need to replace the ink cartridges.

Parent topic: [Solving Print Quality Problems](#)

Related concepts

[Print Head Nozzle Check](#)

[Print Head Cleaning](#)

[Print Head Alignment](#)

Related references

[Paper or Media Type Settings - Printing Software](#)

Related tasks

[Selecting Additional Layout and Print Options - Windows](#)

[Selecting Printing Preferences - OS X](#)

Related topics

[Loading Paper](#)

[Replacing Ink Cartridges and Maintenance Boxes](#)

Blurry or Smeared Printout

If your printouts are blurry or smeared, try these solutions:

- Make sure your paper is not damp, curled, old, or loaded incorrectly in your product.
- Use a support sheet with special paper, or load special paper one sheet at a time.
- Make sure your paper meets the specifications for your product.
- Use Epson papers to ensure proper saturation and absorption of genuine Epson inks.
- Make sure the paper type setting in your product software matches the type of paper you loaded.

- Make sure you loaded the printable side of the paper correctly for your product.
- If you are printing on thick paper or envelopes, turn on the **Thick Paper** setting from the control panel or select **Thick Paper and Envelopes** in the Extended Settings of the printer software. (Turning this setting on will decrease print speed.)
- In Windows, if the paper is still smeared after selecting the **Thick Paper and Envelopes** setting, select the **Short Grain Paper** setting in the Extended Settings of the printer software.
- Remove each sheet from the output tray as it is printed.
- Avoid handling printouts on glossy paper right after printing to allow the ink to set.
- Turn off any high speed settings in your product software.
- If you print on both sides of a sheet of paper, smudges may appear on the reverse side of heavily saturated or dark images. If one side of a sheet will contain a lighter image or text, print that side first. Adjust the **Print Density** and/or **Increase Ink Drying Time** settings.
- Run a nozzle check to see if any of the print head nozzles are clogged. Then clean the print head, if necessary.
- Align the print head.
- Clean the paper path.

Note: Your product will not operate properly while tilted at an angle. Place it on a flat, stable surface that extends beyond the base of the product in all directions.

Parent topic: [Solving Print Quality Problems](#)

Related concepts

[Print Head Cleaning](#)

[Print Head Alignment](#)

Related references

[Available Epson Papers](#)

[Paper Specifications](#)

[Double-sided Printing Options - Windows](#)

Related tasks

[Selecting Basic Print Settings - Windows](#)

[Selecting Additional Layout and Print Options - Windows](#)

[Selecting Basic Print Settings - OS X](#)

[Selecting Double-sided Printing Settings - OS X](#)

[Selecting Printing Preferences - OS X](#)

[Cleaning the Paper Guide](#)

Related topics

[Loading Paper](#)

Faint Printout or Printout Has Gaps

If your printouts are faint or have gaps, try these solutions:

- Run a nozzle check to see if any of the print head nozzles are clogged. Then clean the print head, if necessary.
- The ink cartridges may be old or low on ink, and you may need to replace them.
- Make sure the paper type setting matches the type of paper you loaded.
- Make sure your paper is not damp, curled, old, or loaded incorrectly in your product.
- Align the print head.
- Clean the paper path.

Parent topic: [Solving Print Quality Problems](#)

Related concepts

[Print Head Nozzle Check](#)

[Print Head Cleaning](#)

[Print Head Alignment](#)

Related references

[Paper or Media Type Settings - Printing Software](#)

Related tasks

[Selecting Basic Print Settings - Windows](#)

[Selecting Basic Print Settings - OS X](#)

[Cleaning the Paper Guide](#)

Related topics

[Replacing Ink Cartridges and Maintenance Boxes](#)

[Loading Paper](#)

Grainy Printout

If your printouts are grainy, try these solutions:

- Make sure you loaded the printable side of the paper correctly for your product.
- Select a higher print quality setting and turn off any high speed settings in your product software.
- Run a nozzle check to see if any of the print head nozzles are clogged. Then clean the print head, if necessary.
- Align the print head.
- You may need to increase the image resolution or print a smaller size; see your software documentation.

Note: Images from the Internet may be low resolution and not result in a high quality printout.

- If you enlarged the image in an image-editing program, you need to increase the resolution setting to retain a high image quality. Increase the resolution by the same amount you increased the image size. For example, if the resolution is 300 dpi (dots per inch) and you will double the image size later, change the resolution setting to 600 dpi.

Note: Higher resolution settings result in larger file sizes, which take longer to process and print. Consider the limitations of your computer system when selecting a resolution, and select the lowest possible resolution that produces acceptable quality to keep file sizes manageable.

Parent topic: [Solving Print Quality Problems](#)

Related concepts

[Print Head Nozzle Check](#)

[Print Head Cleaning](#)

[Print Head Alignment](#)

Related tasks

[Selecting Basic Print Settings - Windows](#)

[Selecting Additional Layout and Print Options - Windows](#)

[Selecting Basic Print Settings - Windows](#)

[Selecting Basic Print Settings - OS X](#)

Related topics

[Loading Paper](#)

Incorrect Colors

If your printouts have incorrect colors, try these solutions:

- Make sure the **Black/Grayscale** or **Grayscale** setting is not selected in your printer software.
- If you selected **Standard-Vivid** (Windows) or **Normal-Vivid** (OS X) as the quality setting in the printer software, try selecting **Standard** (Windows) or **Normal** (OS X) instead.
- Run a nozzle check to see if any of the print head nozzles are clogged. Then clean the print head, if necessary.
- The ink cartridges may be old or low on ink, and you may need to replace them.
- Your printed colors can never exactly match your on-screen colors. However, you can use a color management system to get as close as possible. Try using the color management options in your printer software.
- For best results, use genuine Epson ink and paper.

Parent topic: [Solving Print Quality Problems](#)

Related concepts

[Print Head Nozzle Check](#)

[Print Head Cleaning](#)

Related references

[Available Epson Papers](#)

Related tasks

[Selecting Basic Print Settings - Windows](#)

[Selecting Additional Layout and Print Options - Windows](#)

[Selecting Basic Print Settings - OS X](#)

Related topics

[Replacing Ink Cartridges and Maintenance Boxes](#)

When to Uninstall Your Product Software

If you have a problem that requires you to uninstall and re-install your software, follow the instructions for your operating system.

[Uninstalling Printing Software - Standard Epson Printer Software - Windows](#)

[Uninstalling Product Software - OS X](#)

Parent topic: [Solving Problems](#)

Uninstalling Printing Software - Standard Epson Printer Software - Windows

You can uninstall and then re-install your printer software to solve certain problems.

Note: You cannot uninstall the PostScript printer software.

1. Turn off the product.
2. Disconnect any interface cables.
3. Do one of the following:
 - **Windows 8.x:** Navigate to the **Apps** screen and select **Control Panel > Programs > Programs and Features**. Select the uninstall option for your Epson product, then select **Uninstall/Change**.

Note: If you see a **User Account Control** window, click **Yes** or **Continue**.

In the next window, select your product, if necessary, and click **OK**. Then follow any on-screen instructions.

- **Windows (other versions):** Click  or **Start**, and select **All Programs** or **Programs**. Select **Epson**, select your product, then click **EPSON Printer Software Uninstall**.

Note: If you see a **User Account Control** window, click **Yes** or **Continue**.

In the next window, select your product, if necessary, and click **OK**. Then follow any on-screen instructions.

4. Restart your computer, then re-install your software.

Note: If you find that re-installing your product software does not solve a problem, contact Epson.

Parent topic: [When to Uninstall Your Product Software](#)

Uninstalling Product Software - OS X

In most cases, you do not need to uninstall your product software before re-installing it. However, you can download the Uninstaller utility from the Epson support website to uninstall your product software as described here.

Note: If you find that re-installing your product software does not solve a problem, contact Epson.

1. To download the Uninstaller utility, visit the Epson download site ([U.S. downloads](#) or [Canadian downloads](#)).
2. Follow the instructions on the screen to install the Uninstaller utility.
3. Quit all applications currently running on your Mac.
4. Double-click the **Uninstaller** icon.
5. Select the checkbox for each software program you want to uninstall.
6. Click **Uninstall**.
7. Follow the on-screen instructions to uninstall the software.
8. To reinstall your product software, see the *Start Here* sheet for instructions.

Note: If you uninstall the printer driver and your product name remains in the **Print & Fax**, **Print & Scan**, or **Printers & Scanners** window, select your product name and click the – (remove) icon to remove it.

Parent topic: [When to Uninstall Your Product Software](#)

Where to Get Help

If you need to contact Epson for technical support services, use the following support options.

Internet Support

Visit Epson's support website at [epson.com/support](#) (U.S.) or [epson.ca/support](#) (Canada) for solutions to common problems. You can download drivers and documentation, get FAQs and troubleshooting advice, or e-mail Epson with your questions.

Speak to a Support Representative

Before you call Epson for support, please have the following information ready:

- Product name
- Product serial number (located on a label on the product)
- Proof of purchase (such as a store receipt) and date of purchase
- Computer configuration
- Description of the problem

Then call:

- U.S.: (562) 276-7202, 6 AM to 8 PM, Pacific Time, Monday through Friday, and 7 AM to 4 PM, Pacific Time, Saturday
- Canada: (905) 709-2567, 6 AM to 8 PM, Pacific Time, Monday through Friday, and 7 AM to 4 PM, Pacific Time, Saturday

Days and hours of support are subject to change without notice. Toll or long distance charges may apply.

Purchase Supplies and Accessories

You can purchase genuine Epson ink and paper at Epson Supplies Central at epson.com/ink3 (U.S. sales) or epson.ca (Canadian sales). You can also purchase supplies from an Epson authorized reseller. To find the nearest one, call 800-GO-EPSON (800-463-7766).

Parent topic: [Solving Problems](#)

Technical Specifications

These sections list the technical specifications for your product.

Note: Epson offers a recycling program for end of life products. Please go to [this site](#) for information on how to return your products for proper disposal.

[Windows System Requirements](#)

[OS X System Requirements](#)

[Paper Specifications](#)

[Printable Area Specifications](#)

[Ink Cartridge Specifications](#)

[Dimension Specifications](#)

[Electrical Specifications](#)

[Environmental Specifications](#)

[Interface Specifications](#)

[Network Interface Specifications](#)

[Safety and Approvals Specifications](#)

[PS3 Mode Fonts](#)

[PCL5 Mode Fonts](#)

[PCL6 Mode Fonts](#)

[Symbol Sets](#)

Windows System Requirements

To use your product and its software, your computer should use one of these Microsoft operating systems:

- Windows 8.x
- Windows 7
- Windows Vista
- Windows XP Professional x64 Edition
- Windows XP SP3
- Windows Server 2012*

- Windows Server 2008R2*
- Windows Server 2008*
- Windows Server 2003R2*
- Windows Server 2003*

* Windows Server supports only the printer driver; any additional included software is not supported.

Note: Visit Epson's support website at epson.com/support (U.S.) or epson.ca/support (Canada) for the latest in compatibility and drivers for your product.

Parent topic: [Technical Specifications](#)

OS X System Requirements

To use your product and its software, your Mac should use one of these operating systems:

- OS X 10.9.x
- OS X 10.8.x
- OS X 10.7.x
- OS X 10.6.x
- OS X 10.5.8

Note: Visit Epson's support website at epson.com/support (U.S.) or epson.ca/support (Canada) for the latest in compatibility and drivers for your product.

Parent topic: [Technical Specifications](#)

Paper Specifications

Note: Since the quality of any particular brand or type of paper may be changed by the manufacturer at any time, Epson cannot guarantee the quality of any non-Epson brand or type of paper. Always test a sample of paper stock before purchasing large quantities or printing large jobs.

Single-sheets

Size	A3 (11.7 × 16.5 inches [297 × 420 mm]) A4 (8.3 × 11.7 inches [210 × 297 mm]) A5 (5.8 × 8.2 inches [148 × 210 mm]) A6 (4.1 × 5.8 inches [105 × 148 mm]) Letter (8.5 × 11 inches [216 × 279 mm]) Legal (8.5 × 14 inches [216 × 356 mm]) 4 × 6 inches (102 × 152 mm) 5 × 7 inches (127 × 178 mm) 8 × 10 inches (203 × 254 mm) 3.5 × 5 inches (89 × 127 mm) 11 × 17 inches (279 × 432 mm) 13 × 19 inches (330 × 483 mm) 16:9 wide (4 × 7.1 inches [102 × 181 mm]) Half Letter (5.5 × 8.5 inches [140 × 279 mm]) Executive (7.25 × 10.5 inches [184 × 267 mm])
Paper types	Plain paper and paper distributed by Epson
Weight	17 lb (64 g/m ²) to 68 lb (256 g/m ²)

Envelopes

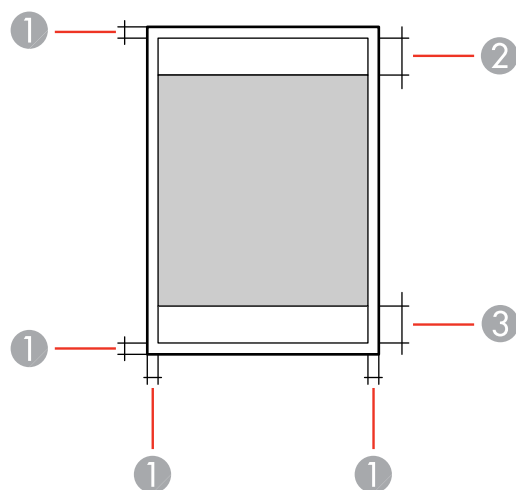
Size	No. 10 (4.1 × 9.5 inches [105 × 241 mm])
Paper types	Plain bond paper
Weight	20 lb (75 g/m ²) to 24 lb (90 g/m ²)

Parent topic: [Technical Specifications](#)

Printable Area Specifications

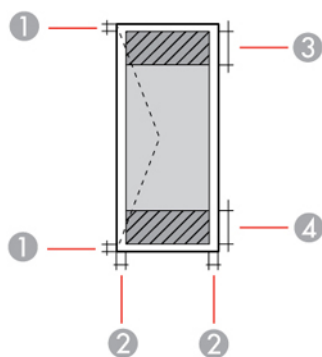
Note: Print quality may decline in the shaded areas shown here due to the printer mechanism.

Single sheets



- 1 0.12 inch (3 mm) minimum
- 2 1.81 inch (46 mm) minimum
- 3 2.01 inch (51 mm) minimum

Envelopes



- 1 0.12 inch (3 mm) minimum
- 2 0.20 inch (5 mm) minimum
- 3 0.71 inch (18 mm) minimum
- 4 1.81 inch (46 mm) minimum

Parent topic: [Technical Specifications](#)

Ink Cartridge Specifications

Note: This product uses only genuine Epson-brand cartridges. Other brands of ink cartridges and ink supplies are not compatible and, even if described as compatible, may not function properly.

The cartridges included with the printer are designed for printer setup and not for resale. After some ink is used for priming, the rest is available for printing. Yields vary considerably based on images printed, print settings, paper type, frequency of use, and temperature. For print quality, a variable amount of ink remains in the cartridge after the "replace cartridge" indicator comes on.

Color	Cyan, Magenta, Yellow, Black
Cartridge life	Opened package: 6 months Unopened package: do not use if the date on the package has expired
Temperature	Storage: –4 to 104 °F (–20 to 40 °C) 1 month at 104 °F (40 °C) Ink freezes at –9.4 °F (–23 °C) Ink thaws and is usable after 3 hours at 77 °F (25 °C)

Note: For best printing results, use up a cartridge within 6 months after installing it.

Parent topic: [Technical Specifications](#)

Dimension Specifications

Height	Stored: 14.9 inches (378 mm)
(printer only)	Printing: 22.1 inches (562 mm)

Height (printer with three optional cassette units and cabinet)	Stored: 41.1 inches (1045 mm) Printing: 48.4 inches (1230 mm)
Width (printer only)	Stored: 22.3 inches (567 mm) Printing: 22.3 inches (567 mm)
Width (printer with three optional cassette units and cabinet)	Stored: 27.2 inches (690 mm) Printing: 27.2 inches (690 mm)
Depth (printer only)	Stored: 22.4 inches (570 mm) Printing: 35.5 inches (902 mm)
Depth (printer with three optional cassette units and cabinet)	Stored: 31.5 inches (800 mm) Printing: 35.8 inches (910 mm)
Weight* (printer only)	57.1 lb (25.9 kg)
Weight* (printer with three optional cassette units and cabinet)	172.8 lb (78.4 kg)

* Without ink cartridges or power cord

Parent topic: [Technical Specifications](#)

Electrical Specifications

Power supply rating	100 to 240 V 220 to 240 V
Rated frequency range	50/60 Hz
Rated current	100 to 240 V model: 1.0 to 0.5 A 220 to 240 V model: 0.8 A

Power consumption
(100 to 240 V model)

Printing: Approx. 37 W (ISO/IEC24712)
Ready mode: 8.1 W
Sleep mode: 2.1 W
Power off mode: 0.4 W

Power consumption
(220 to 240 V model)

Printing: Approx. 37 W (ISO/IEC24712)
Ready mode: 8.1 W
Sleep mode: 2.7 W
Power off mode: 0.5 W

Parent topic: [Technical Specifications](#)

Environmental Specifications

Temperature

Operating: 50 to 95 °F (10 to 35 °C)
Storage: –4 to 104 °F (–20 to 40 °C)
1 month at 104 °F (40 °C)

Humidity

(without condensation)

Operating: 20 to 80% RH
Storage: 5 to 85% RH

Parent topic: [Technical Specifications](#)

Interface Specifications

Interface type

Hi-Speed USB (for computer)

Parent topic: [Technical Specifications](#)

Network Interface Specifications

Wi-Fi

Standards

IEEE 802.11 b/g/n; complies with either IEEE 802.11 b/g or IEEE 802.11 b/g/n, depending on purchase location

Wireless security	WEP (64/128 bit) WPA-PSK (AES); complies with WPA2 with support for WPA/WPA2 Personal WPA-2 Enterprise
Frequency range	2.4 GHz
Coordination modes	Infrastructure mode Ad hoc mode (not supported for IEEE 802.11n) Wi-Fi Direct mode (not supported for IEEE 802.11b or IEEE 802.11n) Note: Wi-Fi Direct Simple AP mode available even if you connect the product to an Ethernet network.
Ethernet	
Standards	IEEE802.3i (10BASE-T) IEEE802.3u (100BASE-TX) IEEE802.3ab (1000BASE-T); to prevent risk of radio interference, use a Category-5e or higher shielded twisted pair cable IEEE802.3az (Energy Efficient Ethernet); connected device should be IEEE802.3az compliant
Communication mode	Auto, 10Mbps Full duplex, 10Mbps Half duplex, 100Mbps Full duplex, 100Mbps Half duplex
Connector	RJ-45
Security Protocol	• IEEE802.1X (requires a connected device compliant with IEEE802.1X) • IPsec/IP Filtering • SSL/TLS; HTTPS Server/Client and IPPS • SNMPv3
Parent topic: Technical Specifications	

Safety and Approvals Specifications

United States

Safety: UL60950-1

EMC: FCC part 15 Subpart B class B

Canada

Safety: CAN/CSA C22.2 No. 60950-1

EMC: CAN/CSA-CEI/IEC CISPR 22 Class B

This equipment contains the following wireless module:

- Manufacturer: Askey Computer Corporation.
- Type: WLU6117-D69 (RoHS)

This product conforms to Part 15 of FCC Rules and RSS-210 of the IC Rules. Epson cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

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

Parent topic: [Technical Specifications](#)

PS3 Mode Fonts

Albertus, Albertus Italic, Albertus Light
AntiqueOlive Roman, AntiqueOlive Italic, AntiqueOlive Bold, AntiqueOlive Compact
Apple Chancery
ITC AvantGarde Gothic Book, ITC AvantGarde Gothic Book Oblique, ITC AvantGarde Gothic Demi, ITC AvantGarde Gothic Demi Oblique
Bodoni, Bodoni Italic, Bodoni Bold, Bodoni Bold Italic, Bodoni Poster, Bodoni Poster Compressed
ITC Bookman Light, ITC Bookman Light Italic, ITC Bookman Demi, ITC Bookman Demi Italic
Carta
Chicago
Clarendon, Clarendon Light, Clarendon Bold

CooperBlack, CooperBlack Italic
Copperplate Gothic 32BC , Copperplate Gothic 33BC
Coronet
Courier, Courier Oblique, Courier Bold, Courier Bold Oblique
GillSans, GillSans Italic, GillSans Bold, GillSans Bold Italic, GillSansCondensed, GillSans Condensed Bold, GillSans Light, GillSans Light Italic, GillSans Extra Bold
Eurostile, Eurostile Bold, Eurostile Extended Two, Eurostile Bold Extended Two
Geneva
Goudy Oldstyle, Goudy Oldstyle Italic, Goudy Bold, Goudy BoldItalic, Goudy ExtraBold
Helvetica, Helvetica Oblique, Helvetica Bold, Helvetica Bold Oblique, Helvetica Condensed, Helvetica Condensed Oblique, Helvetica Condensed Bold, Helvetica Condensed Bold Oblique, Helvetica Narrow, Helvetica Narrow Oblique, Helvetica Narrow Bold, Helvetica Narrow Bold Oblique
Hoefler Text, Hoefler Text Italic, Hoefler Text Black, Hoefler Text Black Italic, Hoefler Text Ornaments
Joanna, Joanna Italic, Joanna Bold, Joanna Bold Italic
LetterGothic, LetterGothic Slanted, LetterGothic Bold, LetterGothic Bold Slanted
ITC Lubalin Graph Book, ITC Lubalin Graph Book Oblique, ITC Lubalin Graph Demi, ITC Lubalin Graph Demi Oblique
Marigold
Monaco
ITC Mona Lisa Recut
New Century Schoolbook Roman, New Century Schoolbook Italic, New Century Schoolbook Bold, New Century Schoolbook Bold Italic
New York
Optima, Optima Italic, Optima Bold, Optima Bold Italic
Oxford
Palatino Roman, Palatino Italic, Palatino Bold, Palatino Bold Italic
Stempel Garamond Roman, Stempel Garamond Italic, Stempel Garamond Bold, Stempel Garamond Bold Italic
Symbol

Tekton
Times Roman, Times Italic, Times Bold, Times Bold Italic
Univers, Univers Oblique, Univers Bold, Univers Bold Oblique, Univers Light, Univers Light Oblique
UniversCondensed, UniversCondensed Oblique, UniversCondensed Bold, UniversCondensed Bold Oblique
UniversExtended , UniversExtended Oblique, UniversExtended Bold, UniversExtended Bold Oblique
Wingdings
ITC ZapfChancery Medium Italic
ITC ZapfDingbats
Arial, Arial Italic, Arial Bold, Arial Bold Italic
Times New Roman, Times New Roman Italic, Times New Roman Bold, Times New Roman Bold Italic

Parent topic: [Technical Specifications](#)

PCL5 Mode Fonts

Scalable Fonts

Font name	Family	HP equivalent	Symbol set
FixedPitch 810	Medium, Bold, Italic, Bold Italic	Courier	1
FixedPitch 850	Regular, Bold, Italic,	Letter Gothic	1
FixedPitch 810 Dark	Medium, Bold, Italic, Bold Italic	Courier PS	3
Dutch 801	Medium, Bold, Italic, Bold Italic	CG Times	2
Zapf Humanist 601	Medium, Bold, Italic, Bold Italic	CG Omega	3
Ribbon 131	—	Coronet	3
Clarendon 701	—	Clarendon Condensed	3

Font name	Family	HP equivalent	Symbol set
Swiss 742	Medium, Bold, Italic, Bold Italic	Univers	2
Swiss 742 Condensed	Medium, Bold, Italic, Bold Italic	Univers Condensed	3
Incised 901	Medium, Bold, Italic	Antique Olive	3
Aldine 430	Medium, Bold, Italic, Bold Italic	Garamond	3
Calligraphic 401	—	Marigold	3
Flareserif 821	Medium, Extra Bold	Albertus	3
Swiss 721 SWM	Medium, Bold, Italic, Bold Italic	Arial	3
Dutch 801 SWM	Medium, Bold, Italic, Bold Italic	Times New	3
Swiss 721 SWA	Medium, Bold, Oblique, Bold Oblique	Helvetica	3
Swiss 721 Narrow SWA	Medium, Bold, Oblique, Bold Oblique	Helvetica Narrow	3
Zapf Calligraphic 801 SWA	Medium, Bold, Italic, Bold Italic	Palatino	3
Geometric 711 SWA	Medium, Bold, Oblique, Bold Italic	ITC Avant Garde Gothic	3
Revival 711 SWA	Light, Demi Bold, Light Italic, Demi Bold Italic	ITC Bookman	3
Century 702 SWA	Medium, Bold, Italic, Bold Italic	New Century Schoolbook	3
Dutch 801 SWA	Medium, Bold, Italic, Bold Italic	Times	3
Chancery 801 Medium SWA Italic	—	ITC Zapf Chancery Medium Italic	3
Symbol SWM	—	Symbol	4

Font name	Family	HP equivalent	Symbol set
More WingBats SWM	—	Wingdings	5
Ding Dings SWA	—	ITC Zapf Dingbats	6
Symbol SWA	—	SymbolPS	4
David BT	Medium, Bold	David	7
Narkis Tam BT	Medium, Bold	Narkis	7
Miryam BT	Medium, Bold, Italic	Miryam	7
Koufi BT	Medium, Bold	Koufi	8
Naskh BT	Medium, Bold	Naskh	8
Ryadh BT	Medium, Bold	Ryadh	8

Bitmap Font

Line Printer, Symbol set 9

OCR/Barcode Bitmap Font

Font name	Family	Symbol set
OCR A	—	10
OCR B	—	11
Code 39	9.37cpi, 4.68cpi	12
EAN/UPC	Medium, Bold	13

Note: Depending on the print density, or quality and color of the paper, the OCR/Barcode Bitmap fonts may not be readable. Print a sample and check for readability before printing large quantities.

Parent topic: [Technical Specifications](#)

PCL6 Mode Fonts

Scalable Fonts

Font name	Family	HP equivalent	Symbol set
FixedPitch 810	Medium, Bold, Italic, Bold Italic	Courier	1
FixedPitch 850	Regular, Bold, Italic,	Letter Gothic	1
FixedPitch 810 Dark	Medium, Bold, Italic, Bold Italic	Courier PS	3
Dutch 801	Medium, Bold, Italic, Bold Italic	CG Times	2
Zapf Humanist 601	Medium, Bold, Italic, Bold Italic	CG Omega	3
Ribbon 131	—	Coronet	3
Clarendon 701	—	Clarendon Condensed	3
Swiss 742	Medium, Bold, Italic, Bold Italic	Univers	2
Swiss 742 Condensed	Medium, Bold, Italic, Bold Italic	Univers Condensed	3
Incised 901	Medium, Bold, Italic	Antique Olive	3
Aldine 430	Medium, Bold, Italic, Bold Italic	Garamond	3
Calligraphic 401	—	Marigold	3
Flareserif 821	Medium, Extra Bold	Albertus	3
Swiss 721 SWM	Medium, Bold, Italic, Bold Italic	Arial	3
Dutch 801 SWM	Medium, Bold, Italic, Bold Italic	Times New	3
Swiss 721 SWA	Medium, Bold, Oblique, Bold Oblique	Helvetica	3

Font name	Family	HP equivalent	Symbol set
Swiss 721 Narrow SWA	Medium, Bold, Oblique, Bold Oblique	Helvetica Narrow	3
Zapf Calligraphic 801 SWA	Medium, Bold, Italic, Bold Italic	Palatino	3
Geometric 711 SWA	Medium, Bold, Oblique, Bold Italic	ITC Avant Garde Gothic	3
Revival 711 SWA	Light, Demi Bold, Light Italic, Demi Bold Italic	ITC Bookman	3
Century 702 SWA	Medium, Bold, Italic, Bold Italic	New Century Schoolbook	3
Dutch 801 SWA	Medium, Bold, Italic, Bold Italic	Times	3
Chancery 801 Medium SWA Italic	—	ITC Zapf Chancery Medium Italic	3
Symbol SWM	—	Symbol	4
More WingBats SWM	—	Wingdings	5
Ding Dings SWA	—	ITC Zapf Dingbats	6
Symbol SWA	—	SymbolPS	4
David BT	Medium, Bold	David	7
Narkis Tam BT	Medium, Bold	Narkis	7
Miryam BT	Medium, Bold, Italic	Miryam	7
Koufi BT	Medium, Bold	Koufi	8
Naskh BT	Medium, Bold	Naskh	8
Ryadh BT	Medium, Bold	Ryadh	8

Bitmap Font

Line Printer, Symbol set 9

Parent topic: [Technical Specifications](#)

Symbol Sets

Your product can access a variety of symbol sets. Many of these symbol sets differ only in the international characters specific to each language.

Note: Since most software handles fonts and symbols automatically, you may never need to adjust your product settings. However, if you write your own product control programs, or if you use older software that cannot control fonts, refer to these tables for details on the symbol sets.

When you consider which font to use, also consider which symbol set to combine with the font. Available symbol sets vary depending on the mode and font you choose.

PCL5 Mode Symbol Sets

Symbol set name	Attribute	Font classification												
		1	2	3	4	5	6	7	8	9	10	11	12	13
ISO 60: Danish/Norwegian	0D	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
Roman Extension	0E	—	—	—	—	—	—	—	—	✓	—	—	—	—
ISO 15: Italian	0I	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
ISO 8859/1 Latin 1	0N	✓	✓	✓	—	—	—	—	—	✓	—	—	—	—
ISO 11: Swedish	0S	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
ISO 6: ASCII	0U	✓	✓	✓	—	—	—	✓	✓	—	—	—	—	—
ISO 4: United Kingdom	1E	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
ISO 69: French	1F	✓	✓	✓	—	—	—	—	—	—	—	—	—	—

Symbol set name	Attribute	Font classification												
		1	2	3	4	5	6	7	8	9	10	11	12	13
ISO 29: German	1G	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
Legal	1U	✓	✓	✓	—	—	—	—	—	✓	—	—	—	—
ISO 8859/2 Latin 2	2N	✓	✓	✓	—	—	—	—	—	✓	—	—	—	—
ISO 8859/4 Latin 4	4N	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
ISO 17: Spanish	2S	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
Roman-9	4U	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
PS Math	5M	✓	✓	✓	—	—	—	✓	✓	—	—	—	—	—
ISO 8859/9 Latin 5	5N	✓	✓	✓	—	—	—	—	—	✓	—	—	—	—
Windows 3.1 Latin 5	5T	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
Microsoft Publishing	6J	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
Ventura Math	6M	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
ISO 8859/10 Latin 6	6N	✓	✓	✓	—	—	—	—	—	✓	—	—	—	—
DeskTop	7J	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
Math-8	8M	✓	✓	✓	—	—	—	✓	✓	—	—	—	—	—
Roman-8	8U	✓	✓	✓	—	—	—	—	—	✓	—	—	—	—
Windows 3.1 Latin 2	9E	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
Pc1004	9J	✓	✓	✓	—	—	—	—	—	—	—	—	—	—

Symbol set name	Attribute	Font classification												
		1	2	3	4	5	6	7	8	9	10	11	12	13
ISO 8859/15 Latin 9	9N	✓	✓	✓	—	—	—	—	—	✓	—	—	—	—
PC-Turkish	9T	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
Windows 3.0 Latin 1	9U	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
PS Text	10J	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
PC-8, Code Page 437	10U	✓	✓	✓	—	—	—	—	—	✓	—	—	—	—
PC-8 D/N Danish/Norwegian	11U	✓	✓	✓	—	—	—	—	—	✓	—	—	—	—
MC Text	12J	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
PC-850 Multilingual	12U	✓	✓	✓	—	—	—	—	—	✓	—	—	—	—
Ventura International	13J	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
PcEur858	13U	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
Ventura US	14J	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
Pi Font	15U	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
PC852, Latin 2	17U	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
Unicode 3.0	18N	✓	✓	✓	—	—	—	✓	✓	—	—	—	—	—
Windows Baltic	19L	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
Windows 3.1 Latin/Arabic	19U	✓	✓	✓	—	—	—	—	—	—	—	—	—	—

Symbol set name	Attribute	Font classification												
		1	2	3	4	5	6	7	8	9	10	11	12	13
PC-755	26U	✓	✓	✓	—	—	—	—	—	—	—	—	—	—
PC-866, Cyrillic	3R	✓	✓	—	—	—	—	—	—	—	—	—	—	—
Greek8	8G	✓	✓	—	—	—	—	—	—	—	—	—	—	—
Windows Greek	9G	✓	✓	—	—	—	—	—	—	—	—	—	—	—
Windows Cyrillic	9R	✓	✓	—	—	—	—	—	—	—	—	—	—	—
PC-851, Greek	10G	✓	✓	—	—	—	—	—	—	—	—	—	—	—
ISO 8859/5 Cyrillic	10N	✓	✓	—	—	—	—	—	—	✓	—	—	—	—
PC-8, Greek	12G	✓	✓	—	—	—	—	—	—	—	—	—	—	—
ISO 8859/7 Greek	12N	✓	✓	—	—	—	—	—	—	—	—	—	—	—
PC-866 UKR	14R	✓	✓	—	—	—	—	—	—	—	—	—	—	—
Hebrew7	0H	✓	—	—	—	—	—	✓	—	—	—	—	—	—
ISO 8859/8 Hebrew	7H	✓	—	—	—	—	—	✓	—	—	—	—	—	—
Hebrew8	8H	✓	—	—	—	—	—	✓	—	—	—	—	—	—
PC-862, Hebrew	15H	—	—	—	—	—	—	✓	—	—	—	—	—	—
PC-862, Hebrew	15Q	—	—	—	—	—	—	✓	—	—	—	—	—	—
Arabic8	8V	—	—	—	—	—	—	—	✓	—	—	—	—	—
HPWARA	9V	—	—	—	—	—	—	—	✓	—	—	—	—	—

Symbol set name	Attribute	Font classification												
		1	2	3	4	5	6	7	8	9	10	11	12	13
PC-864, Arabic	10V	—	—	—	—	—	—	—	✓	—	—	—	—	—
Wingdings	579L	—	—	—	—	✓	—	—	—	—	—	—	—	—
Symbol	19M	—	—	—	✓	—	—	—	—	—	—	—	—	—
ZapfDingbats	14L	—	—	—	—	—	✓	—	—	—	—	—	—	—
OCR A	0O	—	—	—	—	—	—	—	—	—	✓	—	—	—
OCR B	1O	—	—	—	—	—	—	—	—	—	—	✓	—	—
OCR B Extension	3Q	—	—	—	—	—	—	—	—	—	—	✓	—	—
Code3-9	0Y	—	—	—	—	—	—	—	—	—	—	—	✓	—
EAN/UPC	8Y	—	—	—	—	—	—	—	—	—	—	—	—	✓

PCL6 Mode Symbol Sets

Symbol set name	Attribute	Font classification								
		1	2	3	4	5	6	7	8	9
ISO Norwegian	4	✓	✓	✓	—	—	—	—	—	—
ISO Italian	9	✓	✓	✓	—	—	—	—	—	—
ISO 8859-1 Latin 1	14	✓	✓	✓	—	—	—	—	—	✓
ISO Swedish	19	✓	✓	✓	—	—	—	—	—	—
ASCII	21	✓	✓	✓	—	—	—	✓	✓	—
ISO United Kingdom	37	✓	✓	✓	—	—	—	—	—	—
ISO French	38	✓	✓	✓	—	—	—	—	—	—
ISO German	39	✓	✓	✓	—	—	—	—	—	—
Legal	53	✓	✓	✓	—	—	—	—	—	✓

Symbol set name	Attribute	Font classification								
		1	2	3	4	5	6	7	8	9
ISO 8859-2 Latin 2	78	✓	✓	✓	—	—	—	—	—	✓
ISO Spanish	83	✓	✓	✓	—	—	—	—	—	—
Roman-9	149	✓	✓	✓	—	—	—	—	—	—
PS Math	173	✓	✓	✓	—	—	—	✓	✓	
ISO 8859-9 Latin 5	174	✓	✓	✓	—	—	—	—	—	✓
Windows 3.1 Latin 5	180	✓	✓	✓	—	—	—	—	—	—
Microsoft Publishing	202	✓	✓	✓	—	—	—	—	—	—
ISO 8859/10 Latin 6	206	✓	✓	✓	—	—	—	—	—	✓
DeskTop	234	✓	✓	✓	—	—	—	—	—	—
Math-8	269	✓	✓	✓	—	—	—	✓	✓	
Roman-8	277	✓	✓	✓	—	—	—	—	—	✓
Windows 3.1 Latin 2	293	✓	✓	✓	—	—	—	—	—	—
Pc1004	298	✓	✓	✓	—	—	—	—	—	—
ISO 8859-15 Latin 9	302	✓	✓	✓	—	—	—	—	—	—
PC-Turkish	308	✓	✓	✓	—	—	—	—	—	—
Windows 3.0	309	✓	✓	✓	—	—	—	—	—	—
PS Text	330	✓	✓	✓	—	—	—	—	—	—
PC-8	341	✓	✓	✓	—	—	—	—	—	✓
PC-8 D/N	373	✓	✓	✓	—	—	—	—	—	✓
MC Text	394	✓	✓	✓	—	—	—	—	—	

Symbol set name	Attribute	Font classification								
		1	2	3	4	5	6	7	8	9
PC-850	405	✓	✓	✓	—	—	—	—	—	✓
PcEur858	437	✓	✓	✓	—	—	—	—	—	—
Pi Font	501	✓	✓	✓	—	—	—	—	—	—
PC852	565	✓	✓	✓	—	—	—	—	—	—
Unicode 3.0	590	✓	✓	✓	—	—	—	✓	✓	—
WBALT	620	✓	✓	✓	—	—	—	—	—	—
Windows 3.1 Latin 1	629	✓	✓	✓	—	—	—	—	—	—
PC-755	853	✓	✓	✓	—	—	—	—	—	—
Wingdings	18540	—	—	—	—	✓	—	—	—	—
Symbol	621	—	—	—	✓	—	—	—	—	—
ZapfDingbats	460	—	—	—	—	—	✓	—	—	—
PC-866, Cyrillic	114	✓	✓	—	—	—	—	—	—	—
Greek8	263	✓	✓	—	—	—	—	—	—	—
Windows Greek	295	✓	✓	—	—	—	—	—	—	—
Windows Cyrillic	306	✓	✓	—	—	—	—	—	—	—
PC-851, Greek	327	✓	✓	—	—	—	—	—	—	—
ISO 8859/5 Cyrillic	334	✓	✓	—	—	—	—	—	—	—
PC-8, Greek	391	✓	✓	—	—	—	—	—	—	—
ISO 8859/7 Greek	398	✓	✓	—	—	—	—	—	—	—
PC-866 UKR	466	✓	✓	—	—	—	—	—	—	—

Symbol set name	Attribute	Font classification								
		1	2	3	4	5	6	7	8	9
Hebrew7	8	✓	—	—	—	—	—	—	—	—
ISO 8859/8 Hebrew	232	✓	—	—	—	—	—	✓	—	—
Hebrew8	264	✓	—	—	—	—	—	✓	—	—
PC-862, Hebrew	488	—	—	—	—	—	—	✓	—	—
Arabic8	278	—	—	—	—	—	—	—	✓	—
HPWARA	310	—	—	—	—	—	—	—	✓	—
PC-864, Arabic	342	—	—	—	—	—	—	—	✓	—

Parent topic: [Technical Specifications](#)

Notices

Check these sections for important notices about your product.

Note: Epson offers a recycling program for end of life products. Please go to [this site](#) for information on how to return your products for proper disposal.

[General Printer Safety Instructions](#)

[FCC Compliance Statement](#)

[Software Notice](#)

[Trademarks](#)

[Copyright Notice](#)

General Printer Safety Instructions

- Be sure to follow all warnings and instructions marked on the printer.
- Use only the type of power source indicated on the printer's label.
- Use only the power cord that comes with the printer. Use of another cord may cause fires or shock. Do not use the cord with any other equipment.
- Place the printer near a wall outlet where the plug can be easily unplugged.
- Avoid plugging the printer into an outlet on the same circuit as a photo copier or air control system that regularly switches on and off, or on an outlet controlled by a wall switch or timer.
- Do not let the power cord become damaged or frayed.
- If you use an extension cord with the printer, make sure the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating. Also, make sure the total ampere rating of all devices plugged into the wall outlet does not exceed the wall outlet's ampere rating.
- Always turn off the printer using the power button, and wait until the power light stops flashing before unplugging the printer or cutting off power to the electrical outlet.
- Place the printer on a flat, stable surface that extends beyond its base in all directions. It will not operate properly if it is tilted or at an angle.
- Make sure the back of the printer is at least 4 inches (10 cm) away from the wall.
- Leave enough space in front of the printer for the paper to be fully ejected.
- Avoid locations that are subject to rapid changes in heat or humidity, shocks or vibrations, or dust.

- Do not place the printer near a radiator or heating vent or in direct sunlight.
- Leave enough room around the printer for sufficient ventilation. Do not block or cover openings in the case or insert objects through the slots.
- Keep the printer away from potential sources of electromagnetic interference, such as loudspeakers or the base units of cordless telephones.
- When connecting the printer to a computer or other device with a cable, ensure the correct orientation of the connectors. Each connector has only one correct orientation. Inserting a connector in the wrong orientation may damage both devices connected by the cable.
- Do not touch the flat white cable inside the printer.
- Do not move the print head by hand; this may damage the printer.
- Do not spill liquid on the printer.
- Do not insert objects into the slots in the printer.
- Do not use aerosol products that contain flammable gases inside or around the printer. Doing so may cause fire.
- Except as specifically explained in your documentation, do not attempt to service the printer yourself.
- Unplug the printer and refer servicing to qualified service personnel under the following conditions: if the power cord or plug is damaged; if liquid has entered the product; if the product has been dropped or the case damaged; if the product does not operate normally or exhibits a distinct change in performance. Adjust only those controls that are covered by the operating instructions.
- If damage occurs to the plug, replace the cord set or consult a qualified electrician. If there are fuses in the plug, make sure you replace them with fuses of the correct size and rating.
- Leave the ink cartridges installed. Removing the cartridges can dehydrate the print head and may prevent the printer from printing.
- Before transporting the printer, make sure that the print head is in the home (far right) position and the ink cartridges are in place.
- When storing or transporting the printer, do not tilt it, stand it on its side, or turn it upside down; otherwise ink may leak from the cartridges.

[Ink Cartridge Safety Instructions](#)

[LCD Screen Safety Instructions](#)

[Wireless Connection Safety Instructions](#)

[Cabinet Safety Instructions](#)

Parent topic: [Notices](#)

Ink Cartridge Safety Instructions

- Keep ink cartridges out of the reach of children and do not drink the ink.
- Be careful when you handle used ink cartridges; there may be ink remaining around the ink supply port. If ink gets on your skin, wash it off with soap and water. If it gets in your eyes, flush them immediately with water.
- Do not put your hand inside the product or touch any cartridges during printing.
- Install a new ink cartridge immediately after removing an expended one. Leaving cartridges uninstalled can dry out the print head and may prevent the product from printing.
- Do not remove or tear the label on the cartridge; this can cause leakage.
- Do not remove the transparent seal from the bottom of the cartridge. This may cause the cartridge to become unusable.
- Do not break the hooks on the side of the cartridge when removing it from the packaging.
- Do not touch the green IC chip on the side of the cartridge. This may prevent normal operation.
- Do not shake cartridges after opening their packages; this can cause them to leak.
- If you remove an ink cartridge for later use, protect the ink supply area from dirt and dust and store it in the same environment as the product. Note that there is a valve in the ink supply port, making covers or plugs unnecessary, but care is needed to prevent the ink from staining items that the cartridge touches. Do not touch the ink cartridge ink supply port or surrounding area.
- Use an ink cartridge before the date printed on its package.
- Do not dismantle an ink cartridge. This could damage the print head.
- Store ink cartridges in a cool, dark place.
- After bringing an ink cartridge inside from a cold storage site, allow it to warm up at room temperature for at least three hours before using it.
- Store ink cartridges with their labels facing upward. Do not store cartridges upside down.

Parent topic: [General Printer Safety Instructions](#)

LCD Screen Safety Instructions

- Use only a dry, soft cloth to clean the LCD screen. Do not use liquid or chemical cleansers.
- If the LCD screen is damaged, contact Epson. If the liquid crystal solution gets on your hands, wash them thoroughly with soap and water. If the liquid crystal solution gets into your eyes, flush them immediately with water. If discomfort or vision problems remain after a thorough flushing, see a doctor immediately.

- Do not press too hard on the LCD screen.
- Do not use a pointy or sharp object, such as a pen or your fingernail, to operate the LCD screen.

Parent topic: [General Printer Safety Instructions](#)

Wireless Connection Safety Instructions

Radio waves from this product may adversely affect the operation of medical equipment or automatically controlled devices, such as pacemakers, automatic doors or fire alarms. When using this product near such devices or inside a medical facility, follow the directions from authorized staff members at the facility, and follow all posted warnings and directions on the device to avoid causing an accident.

Parent topic: [General Printer Safety Instructions](#)

Cabinet Safety Instructions

- Do not install any other product on the cabinet besides the printer and paper cassettes mentioned in this manual.
- Do not climb on the cabinet or place heavy objects on it.
- Make sure the stands are securely attached to the cabinet or the product may fall over.
- Make sure the casters on the cabinet are locked when using the printer.
- Do not move the cabinet when the casters are locked.
- Avoid rolling the cabinet over uneven or rough surfaces with the printer installed.

Parent topic: [General Printer Safety Instructions](#)

FCC Compliance Statement

For United States Users

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification or Declaration of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

For Canadian Users

CAN ICES-3(B)/NMB-3(B)

Parent topic: [Notices](#)

Software Notice

1. This printer product includes open source software programs according to the license terms of each open source software program.
2. We provide the source code of some of these open softwares until five (5) years after the discontinuation of same model of this printer product. If you desire to receive the source code above, please contact the customer support of your region. You shall comply with the license terms of each open source software program.
3. The open source software programs are WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. See the license agreements of each open source software program for more details, which are described below.

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Version 2, June 1991

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Generic DES driver interface

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Author: Vinodh.Gopal@intel.com

Jim Guilford

Erdinc.Ozturk@intel.com

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