




IColor 560 Digital Color + White Transfer Media Printer User Manual



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 **Important note about USB Drives shipped with your system:** Do not lose or break your RIP dongle! This is your license key and if lost, a cost for replacement will be incurred. Associated USB dongles for software such as drivers, RIP programs, SmartCUT and more have a 3 month warranty on the physical drive. UNINET suggests that you limit the physical handling of RIP dongles and use external USB hubs (as an example). If damaged (past the 3 month warranty period), a cost for replacement will be incurred.

January 2021 Edition – A newer version of this manual may be available at www.icolorprint.com/support

IColor 560 Digital Color + White Transfer Media Printer

The IColor 560 printer has been developed to produce high-quality, conventional color prints with the out-of-the-box functionality of printing in white.

Please follow the enclosed quick setup guide, as well as this manual, to get started. The IColor 560 comes complete with a total of 5 toner cartridges for full color and black printing (CMYK), as well as our exclusive fluorescent white cartridge. Quickly swap the black for white when you want to add white as a spot color, or to print a white underprint or overprint in concert with the IColor ProRIP software. Black can then be produced using composite black (made from 100% CMY).

You will also have the option to add fluorescent toner or dye sublimation toner upgrade kits, as well as the exclusive IColor security, clear, gold and silver toner options, at any time.

Please note that vector and line art images, including text, are likely to produce the best results. For exciting design ideas and suggestions for using the IColor 560 for maximum effect, please visit our website at www.icolorprint.com.

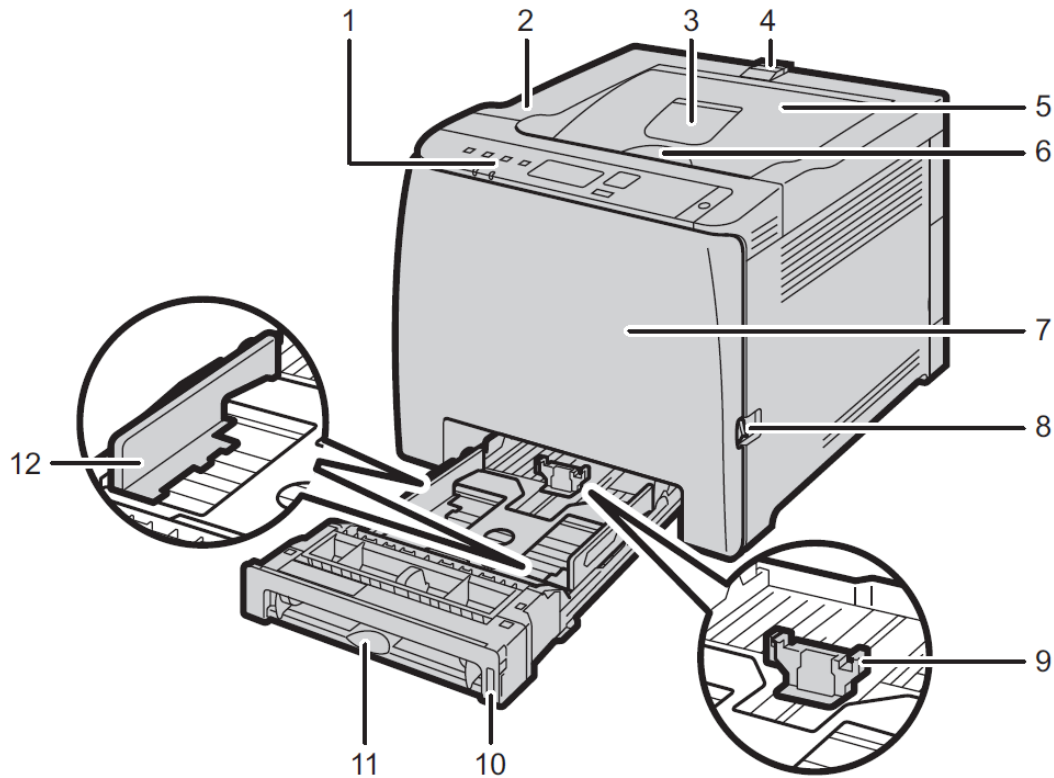
IColor Transfer media has been optimized to provide quality results when used with the printer, enabling the user to produce eye-catching designs which may be applied to a variety of textiles and surfaces.

What's so unique about the IColor 560 Digital Color + White Transfer Media Printer?

- The ability to print white as an underprint AND an overprint in the same machine, in one pass, using the IColor ProRIP software.
- The white opacity of UNINET's unique blend of toner is double that of any other brand, giving you the brightest whites and solid backgrounds to bring out the vibrancy of your colors.
- The true black cartridge is included with the printer, allowing you to switch to CMYK mode to print items such as brochures and menus when white is not needed.
- Optional dye sublimation, fluorescent, security, gold, silver and clear toner cartridge options.
- Lowest cost and most flexible machine available.
- No maintenance typical with ink based machine is necessary. The IColor 560 is a toner based system.
- Large array of media available for virtually any project.
- Global sales, support and service direct from UNINET or its dealer network.

Machine Guide

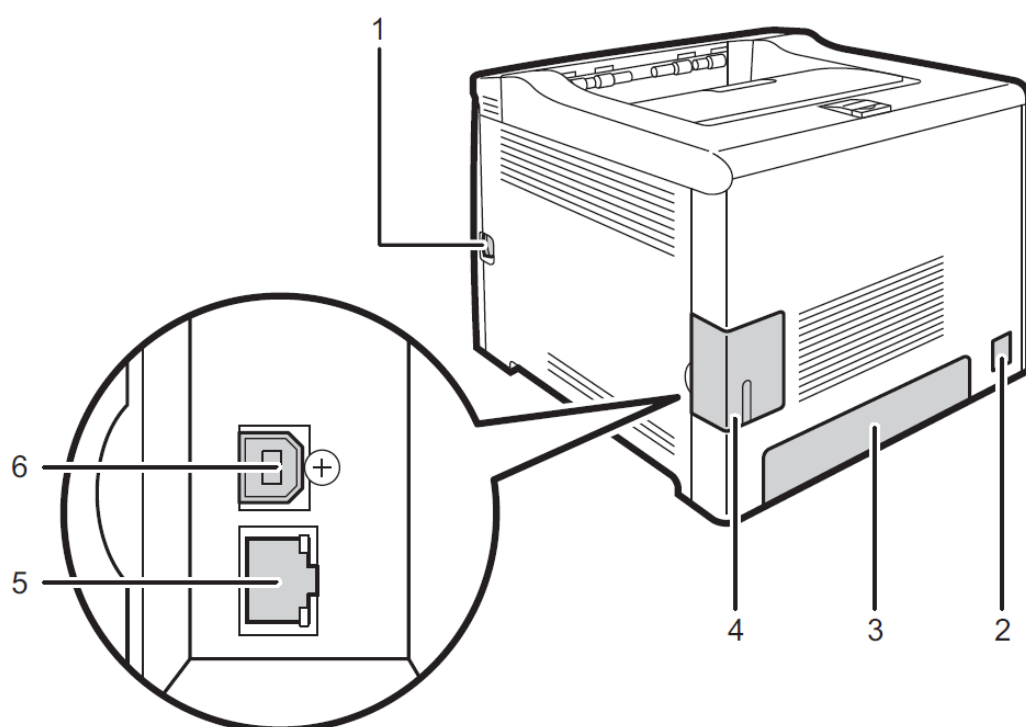
Exterior: Front View



No.	Name	Description
1	Control Panel	Contains keys for machine control and indicators that show the machine status.
2	Top Cover	Open this cover to replace the print cartridge.
3	Standard Tray Extension	Use this to support sheets that come out curled after they are printed. Flip open the extension by pushing down on the end that is toward the rear of the machine.

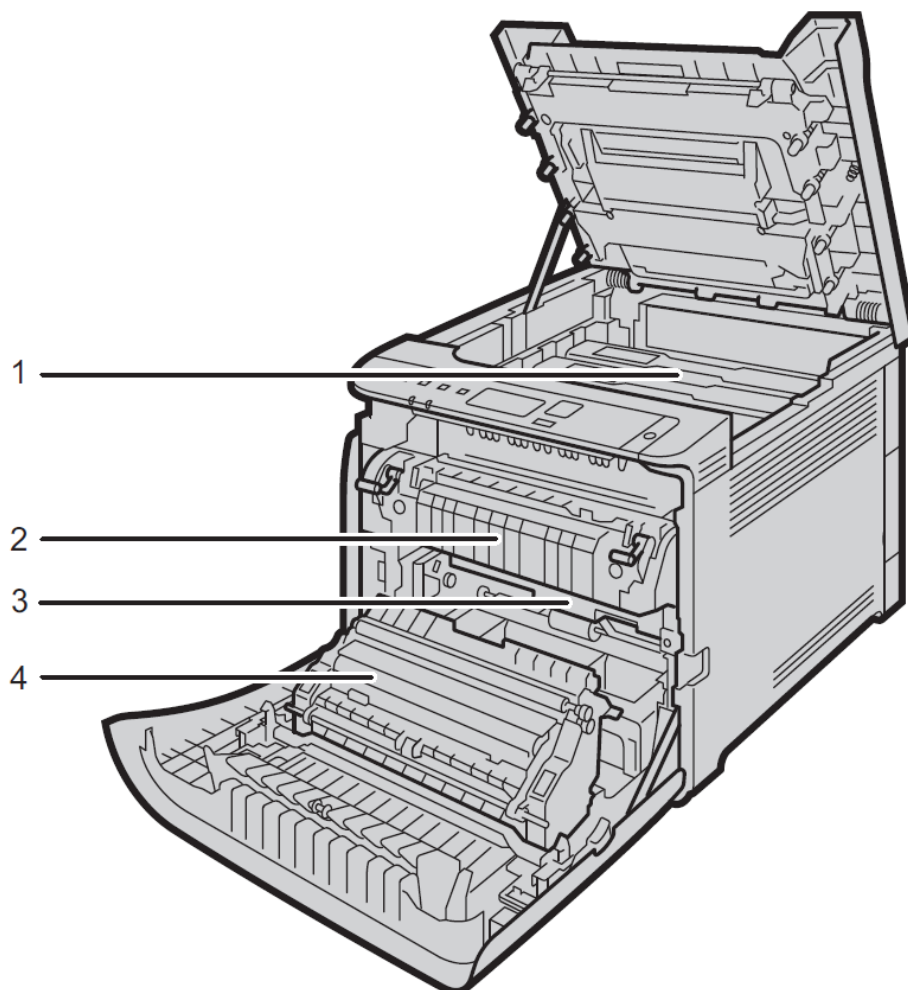
No.	Name	Description
4	Stop Fences	Pull up this fence to prevent paper falling off when printing a large amount of paper at a time. The fence can be adjusted at the A4/Letter or Legal size position.
5	Standard Tray	Delivered sheets are stacked here with the print side down.
6	Top Cover Open Lever	Open here to replace the print cartridges.
7	Front Cover	Open this cover to replace the waste toner bottle or remove jammed paper.
8	Front Cover Open Lever	To open the front cover, pull this lever on the right side of the machine.
9	End Fence	Adjust this fence to the paper size.
10	Tray 1	This tray can hold up to 250 sheets of plain paper.
11	Bypass Tray	Load paper here sheet by sheet.
12	Side Fence	Adjust this fence to the paper size.

Exterior: Rear View



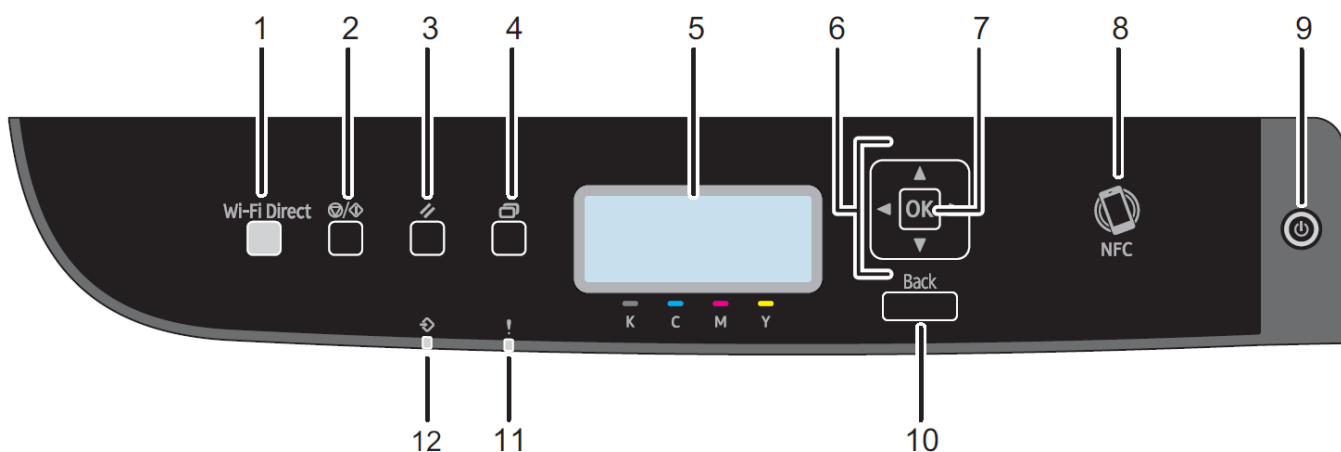
No.	Name	Description
1	Front Cover Open Lever	To open the front cover, pull this lever on the right side of the machine.
2	Power Socket	For connecting the power cord to the machine.
3	Rear Cover	Remove this cover when loading paper longer than A4 in Tray 1.
4	Cable Cover	Remove this cover when connecting cables to the machine.
5	Ethernet Port	For connecting the machine to the network using a network interface cable.
6	USB Port	For connecting the machine to a computer using a USB cable.

Interior



No.	Name	Description
1	Print Cartridge	Install the print cartridges from the machine rear, in the order of cyan (C), magenta (M), yellow (Y), and black (K). Messages appear on the screen when print cartridges need to be replaced, or new ones need to be prepared.
2	Fusing Unit	Fuses toner to the paper. You might have to move this unit to check for or remove jammed paper.
3	Waste Toner Bottle	Collects toner that is wasted during printing.
4	Transfer unit	You need to remove this when you replace the waste toner bottle.

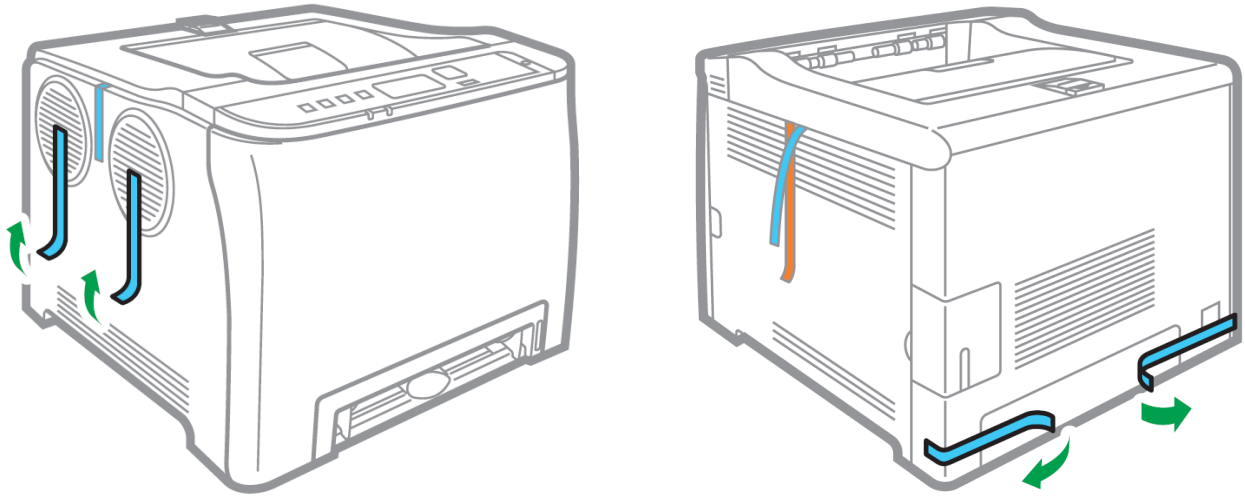
Control Panel



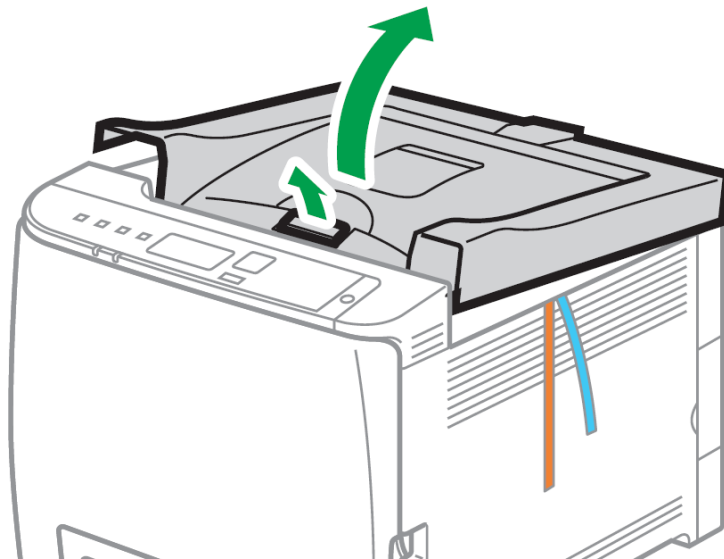
No.	Name	Description
1	[Wi-Fi Direct] key	Pressing this key while Wi-Fi is disabled activates Wi-Fi and reboots the machine automatically. Press this key while Wi-Fi is enabled to activate or deactivate the Wi-Fi Direct function. This indicator lights blue when the Wi-Fi Direct function is active. After a long press of this key, configure the WPS using the PIN code or in PBC mode. For details, see Setup Guide.
2	[Stop/Start] key	Press this key to stop receiving incoming data from the computer.

3	[Job Reset] key	Press this key to cancel a job that is currently being printed or received.
4	[Menu] key	Press this key to configure or check the machine settings. Press the [Menu] key again to return to the initial screen.
5	Display	Displays the current status and messages.
6	Scroll Keys	Press to move the cursor in the direction indicated by the key.
7	[OK] key	Press this key to confirm settings and setting values, or move to the next menu level.
8	NFC	Allows you to connect a smart device to the machine when you touch NFC on a smart device using the application corresponding to the machine.
9	[Power] key	<p>Press to turn on and turn off the main power. To turn off the machine, press and hold down this key for at least three seconds. This indicator lights up blue when the machine is turned on.</p> <p>If the machine's system is busy, the power may not be turned off even though you press and hold down this key for three seconds. If this is the case, press and hold down the [Back] key and [Power] key simultaneously for at least three seconds to force the machine to turn off.</p> <p>Do not accidentally press the [Power] key within 3 minutes of disconnecting the power cord.</p>
10	[Back] key	Press to cancel the last operation or to return to the previous level of the menu tree.
11	Alert Indicator	Lights up in red whenever an error occurs. Check the displayed error message. Flashes in yellow when the toner has nearly run out.
12	Data In Indicator	Flashes when the machine is receiving data from a computer. This indicator lights up when there is a Locked Print file stored in the machine.

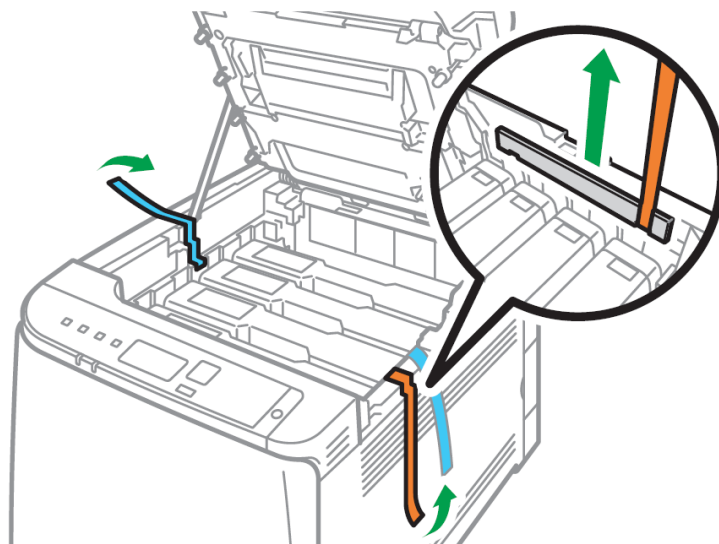
Unpacking and installing consumables



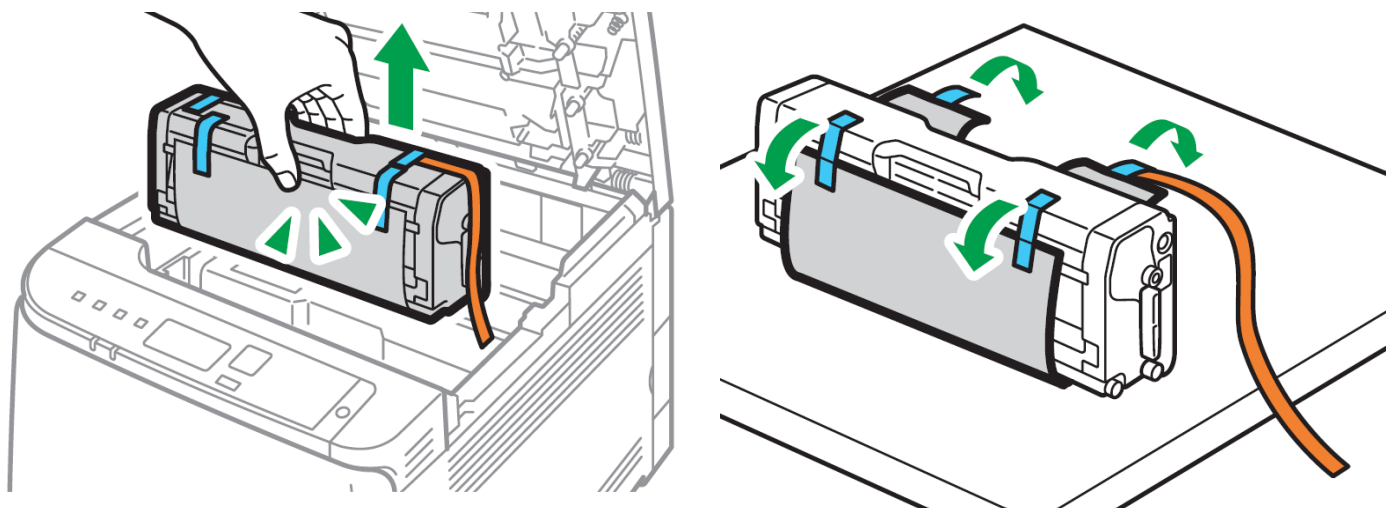
1. Remove security tape and packing material from around the printer.



2. Open top lid.

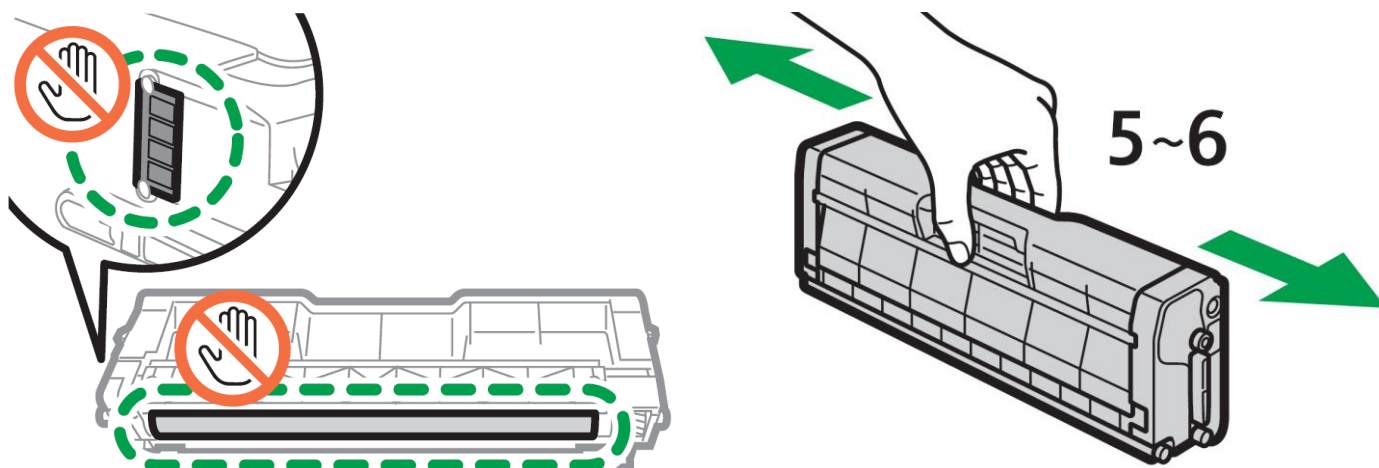


3. Remove security tape and packing material from inside the printer.



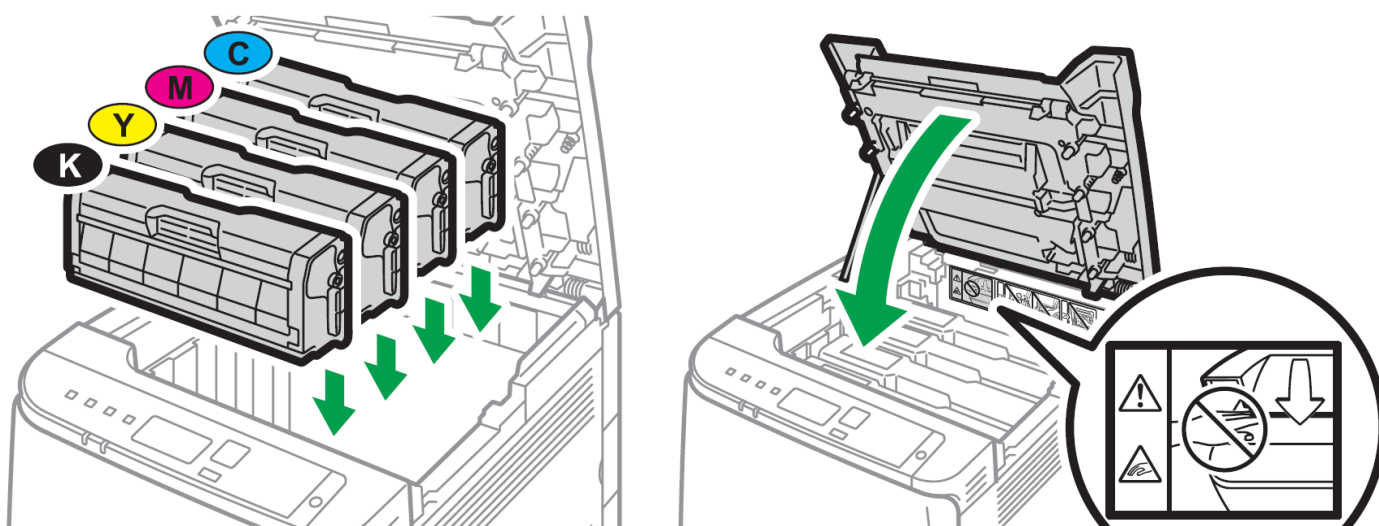
4. Remove the white toner cartridge from the front of the machine.

- Place it on a flat, solid surface and carefully remove the black security paper.



5. Be careful not to touch the drum or the contacts on the side of the cartridge.

- Remove each cartridge and gently shake back and forth 5 or 6 times to loosen the toner that may be settled in the cartridge due to shipping.

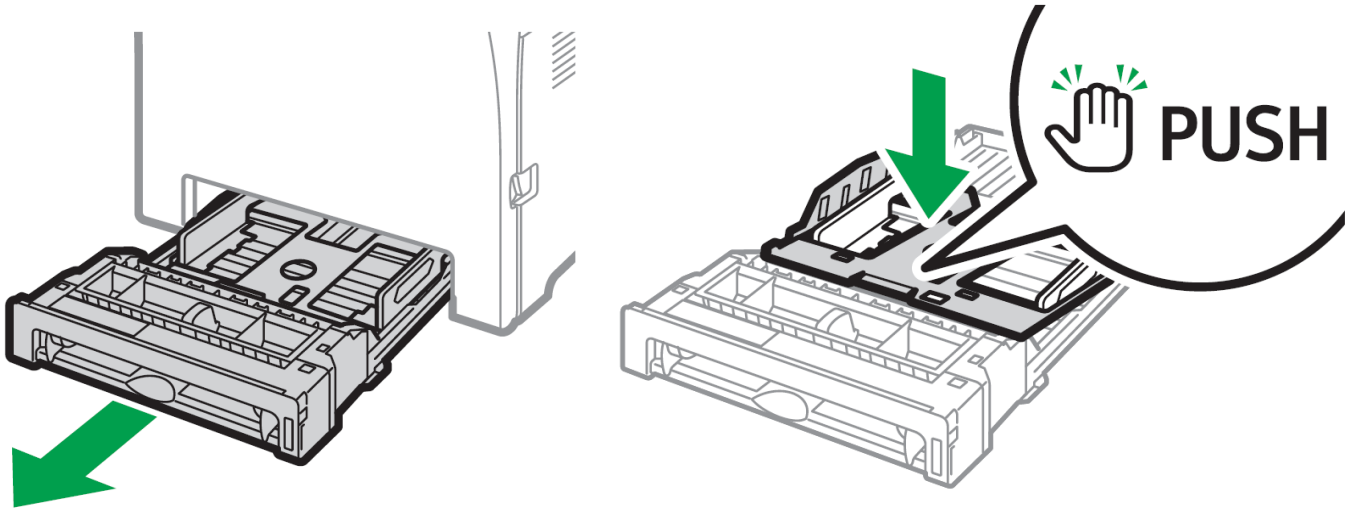


6. Reinstall the cartridges in the desired configuration (in the above representation, white or black can go into the first slot) and close the lid.

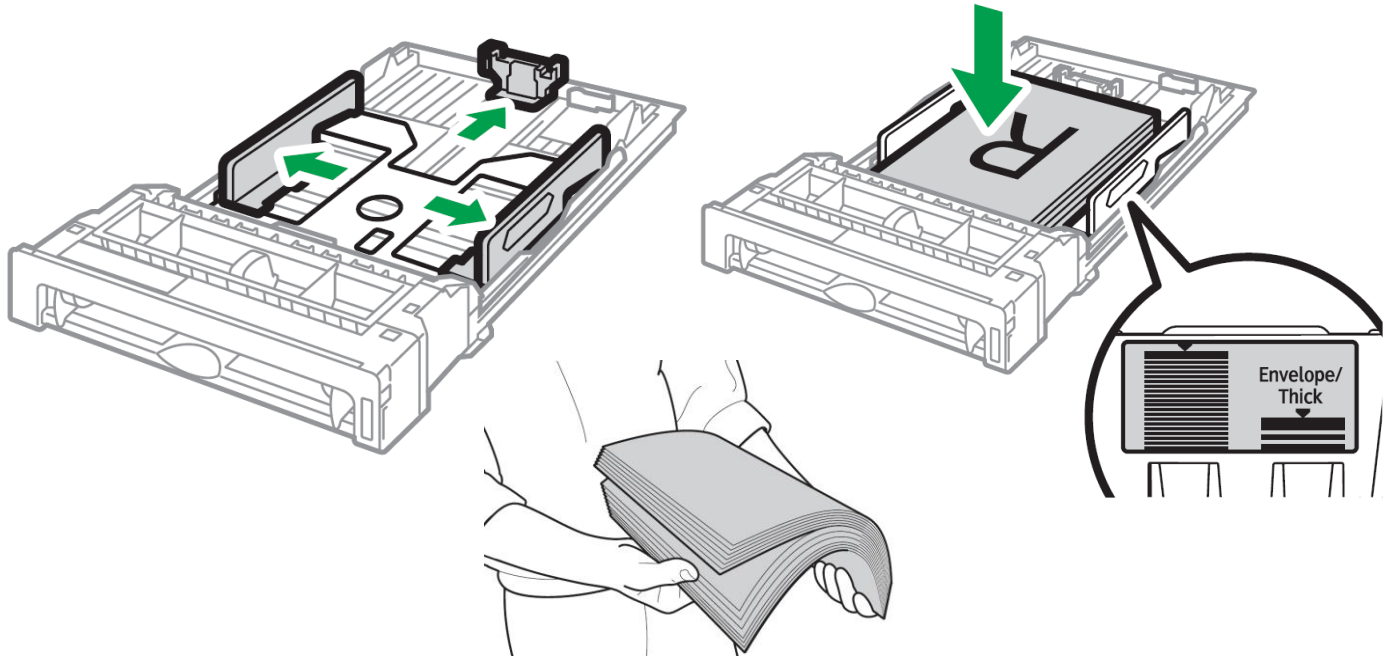
- Use white for transfer printing and black for normal CMYK printing.
- The black cartridge is packed separately in the box for your convenience.

Loading Paper

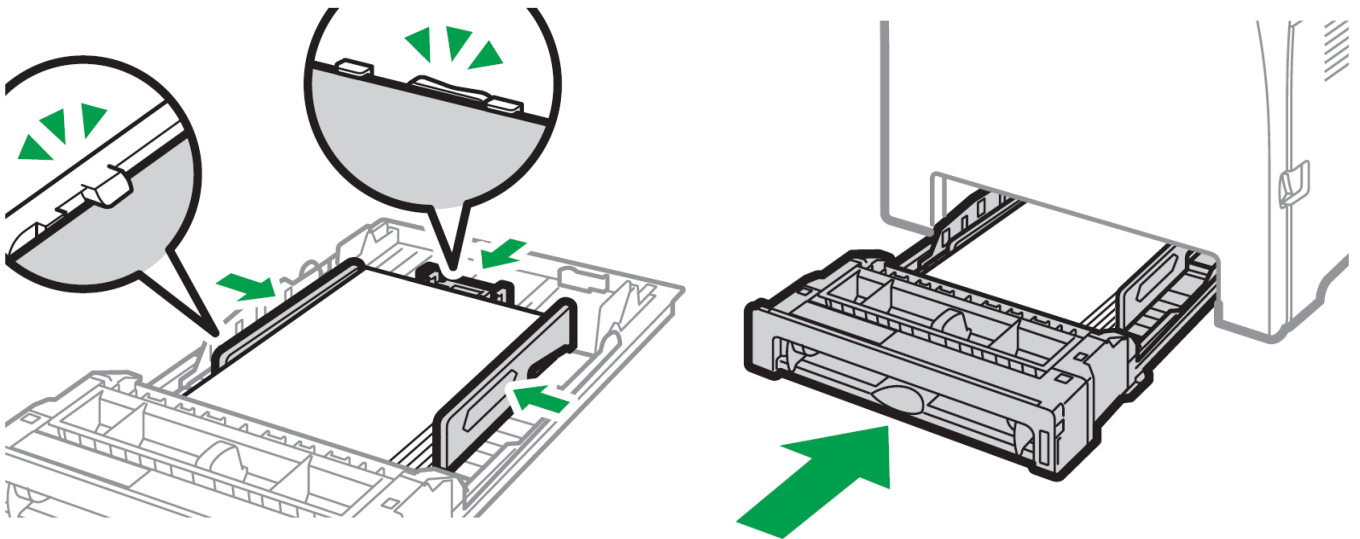
- ⚠ Incompatible transfer media should not be used. The iColor ProRIP print mode dropdown contains a list of all certified media. Follow specific transfer media instructions for best results.



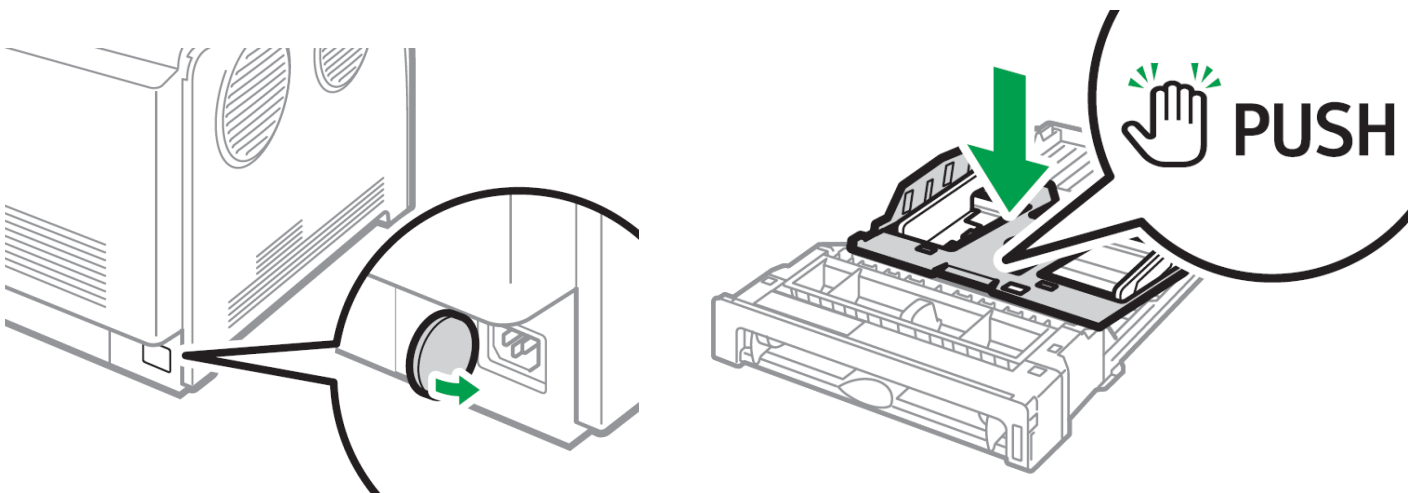
- Pull out the paper cassette and push down the metal base.



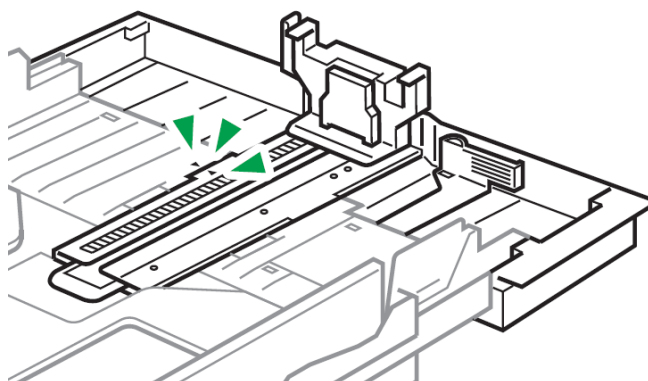
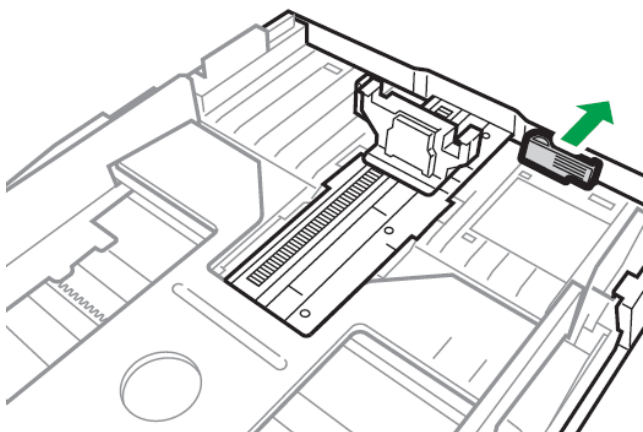
- Squeeze the clips on the paper guides and slide them to match paper size. Do not move the paper guides forcefully. Doing so may damage the tray.
- Media is loaded with the print side facing up. Ensure the paper stack does not exceed the upper limit mark inside the paper tray. Excess stacking can cause paper jams.
- Fan paper or media before loading.



- Ensure the side and back guides are snugly set against and over the media, or a jam can occur.
- Close the paper tray.

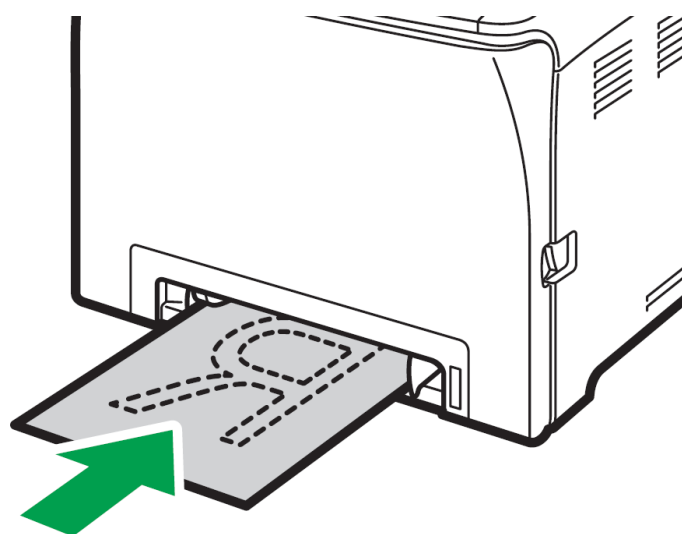
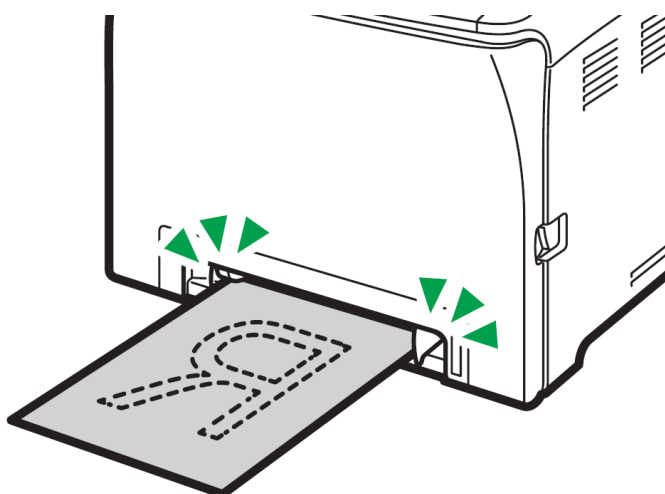


- When loading paper longer than 11" into tray 1, remove the lower rear cover using a coin.
- Remove tray 1 with both hands and place on a flat surface.
- Push the metal plate down until it clicks.



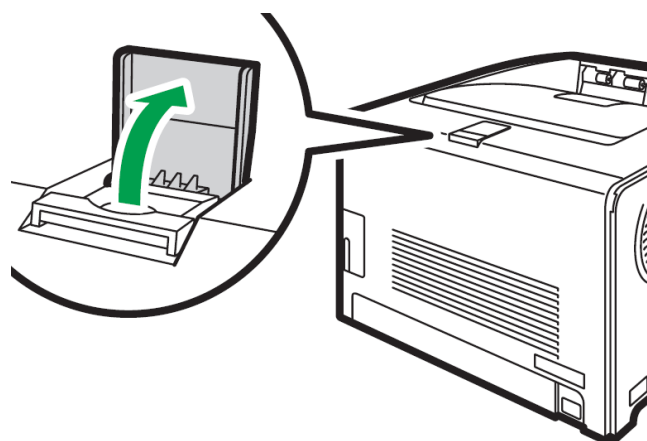
- Pinch the extender, and then pull out the extender until it clicks into place to accommodate lengths up to 14" long.
- After extension, check that the arrows on the extender and tray are aligned.
- The tray will protrude out of the back of the printer. This is normal.
- To reinsert the extender, you might have to push it with moderate force.
- ⚠ Remember to also set the side guides in accordance with the width of the paper used.
- ⚠ NOTE: Do not extend this tray when loading A4 or letter size paper. Otherwise, a paper jam may occur.

Bypass Tray Operation

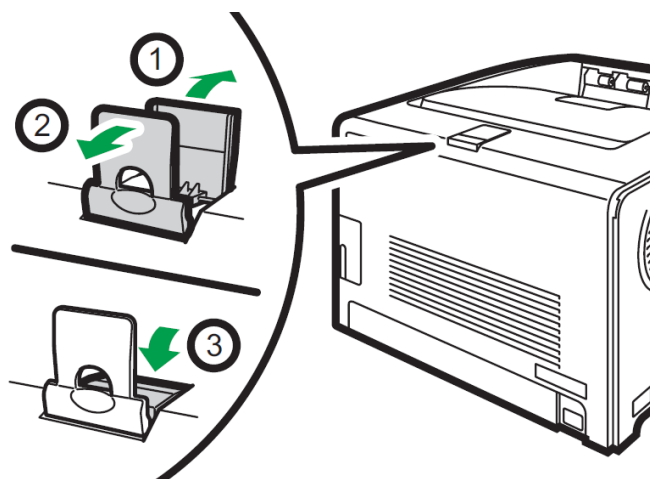


- To use the bypass tray, load paper with the print side down and in the short-edge feed direction.
 - Insert the top edge of the paper into the machine.
 - Adjust the paper guides to the paper size. Support the paper with both hands, and insert it carefully until it stops.
 - Curled paper may jam. Straighten curled paper before loading.
 - Duplex printing is not possible.
 - Tray 1 is unavailable if paper is loaded in the bypass tray.
 - You cannot load paper into the bypass tray while the machine is in Energy Saver mode.

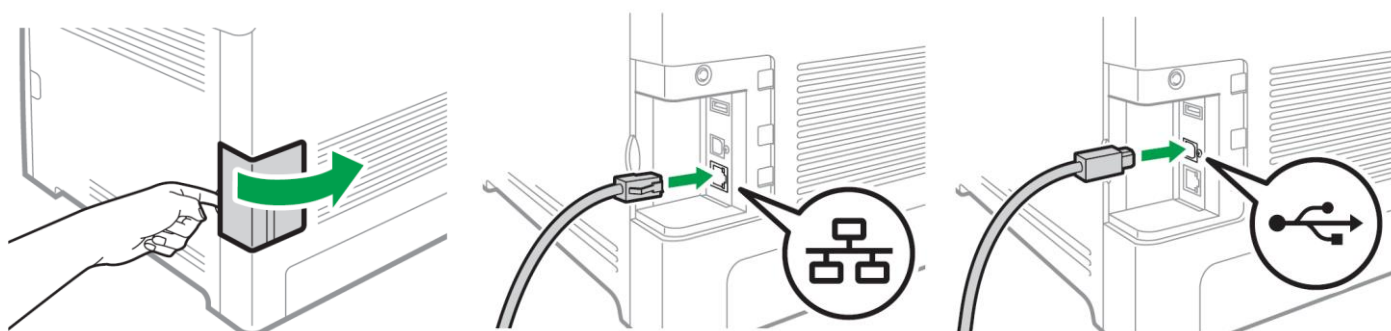
- Pull up the retainer as shown below to prevent A4- or Letter-size prints from falling off.



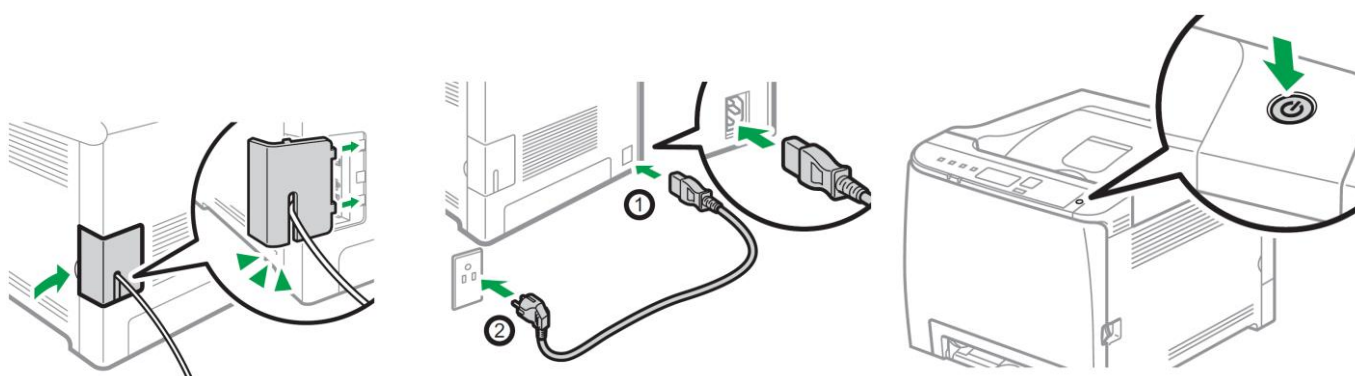
- Pull up the retainer as shown below to prevent Legal-size prints from falling off.



Cable Connections



- Open the side panel to reveal the communication ports.
- Insert either the USB or Network cable, depending on how you wish the RIP to communicate with the printer.
- NEVER use both ports at the same time.



- Feed the cable through the cover and reinstall
- Insert power cord and power on the unit

Wireless Setup

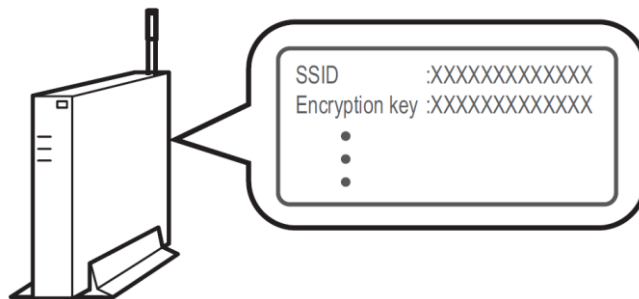
Easy Setup Using the Wi-Fi Setup Wizard

- From the control panel of this printer, you can also configure the wireless LAN settings for the machine.
- A router (access point) is necessary to set up a wireless connection.
- The SSID and Encryption key for the router (access point) may be printed on a label affixed to the router (access point). For details about the SSID and Encryption key, refer to the router (access point) manual.

Confirm the SSID and Encryption key, and write them down on the blank space as shown below.

SSID: _____

Encryption key: _____



Configuring Settings Using the Printer Control Panel

NOTE: Make sure the Ethernet cable is not connected to the machine.

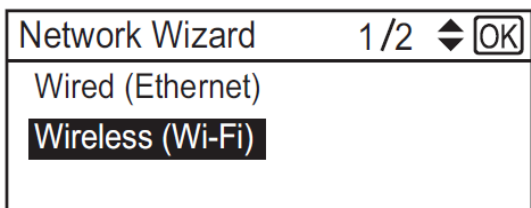
1. Check that the router (access point) is working correctly.
2. Press the [Menu] key.



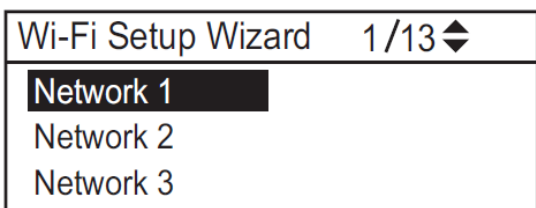
3. Using the up/down keys, select [Network Settings] > [Wireless (Wi-Fi)], and then press the [OK] key.

NOTE: If an admin password is required, use 'admin'.

4. Press the up/down keys to select [Enable], and then press the [OK] key.
5. Press the [Menu] key to return to the Initial screen.
6. Reboot the printer.
7. Press the [Menu] key, then use the up/down keys to select [Wi-Fi Setup Wizard] > [Wireless (Wi-Fi)], and then press the [OK] key.



8. Press the up/down keys to select SSID of the router (access point) from the searched SSID list, and then press the [OK] key.

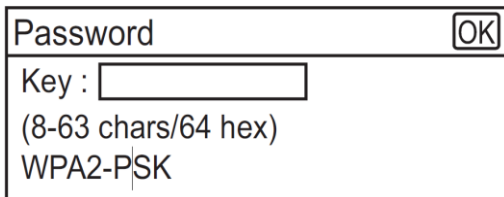


9. Using the up/down keys, select the authentication method, and then press the [OK] key.

NOTE: The next steps differ depending on the authentication method that you have selected. Proceed to Step 17 of either section A or B.

Section A - Connecting to devices using the WPA2-PSK or Mix Mode WPA2/WPA authentication

10. Enter the encryption key (Passphrase) using the up/down keys, and then press the [OK] key.



As the passphrase, you can enter either 8 to 63 ASCII characters (0x20-0x7e) or 64 hexadecimal digits (0-9, A-F, a-f).

- To go to the next characters, press the [OK] key.
- Press the [Escape] key to clear all characters.


11. After connecting to the network, the Wi-Fi screen is displayed.

12. Using the up/down keys, select [Wi-Fi Status], and then press the [OK] key.

- When "Connected" is displayed, the connection has been established.
- If "Disconnected" is displayed, the connection has not been established. Start again from the beginning.

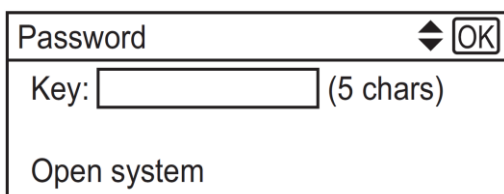
Section B - Connecting to the devices using the Open System or Shared Key authentication

13. Using the up/down keys, select the encryption method, and then press the [OK] key.



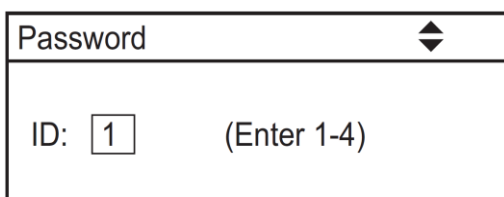
- The max number of characters that can be entered in the encryption key field depends on the encryption method settings.
- Do not select [None] except in special circumstances. If selected, the security system will not work.

14. Enter the encryption key using the up/down keys, and then press the [OK] key.



- To go to the next characters, press the [OK] key.
- Press the [Back] key to clear all character.

15. Enter the ID using the up/down keys, and then press the [OK] key.



- The ID is used for identifying the encryption key. You can register four encryption keys (ID 1 to 4).

20. Enter password, then press the [OK] key.

- After connecting to the network, the Wi-Fi screen is displayed.

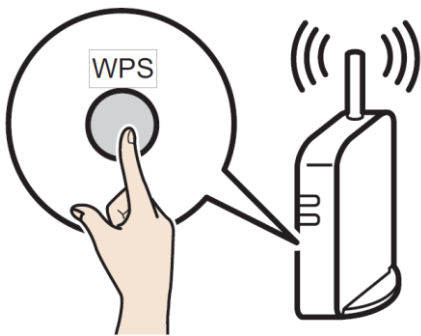
21. Using the up/down keys, select [Wi-Fi Status], and then press the [OK] key.

- When "Connected" is displayed, the connection has been established.
- If "Disconnected" is displayed, the connection has not been established. Start again from the beginning.

Easy Setup Using the WPS Button

⚠ NOTE: Make sure the Ethernet cable is not connected to the machine.

1. Follow Steps 1 – 6 to enable wireless functionality.
2. Press the [Menu] key.
4. Using the up/down keys, select [Network Setting], and then press the [OK] key.
5. Using the up/down keys, select [Wireless (Wi-Fi)], and then press the [OK] key.
6. Using the up/down keys, select [WPS], and then press the [OK] key.
7. Using the up/down keys, select [PBC], and then press the [OK] key.
8. Using the left/right keys, select [Yes], and then press the [OK] key. "Connecting..." appears, and the machine starts to connect in PBC method.
9. Press the WPS button on the router (access point) within two minutes.



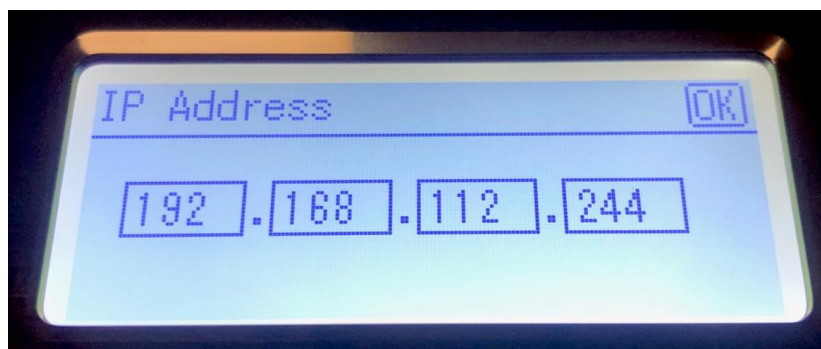
10. Check the result. If connection has succeeded, press the [OK] key and then the [Menu] key to return to the initial screen. If connection has failed, Press the [OK] key to return to the screen displayed in Step 5. Check the configuration for the router (access point), then try the connection again.

11. Configuring the Wi-Fi settings is complete.

12. Once complete, follow the steps for 'Network Setup' beginning on page 12, but choose 'Wireless Connection' as the connection type.

Setting a static IP on the IColor 560

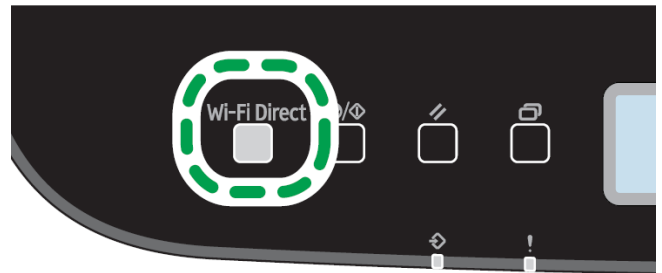
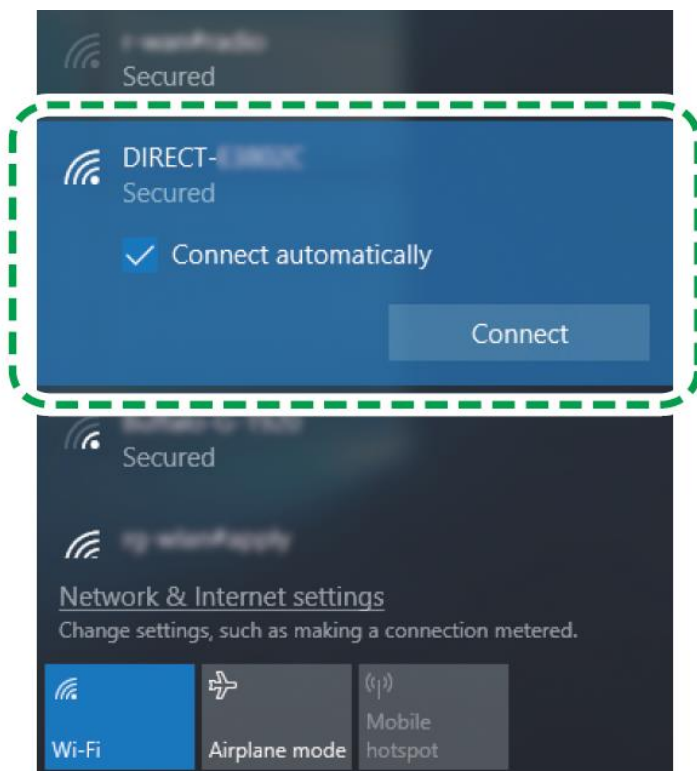
- Press the **Menu** button to the left of the LED screen.
- Using the arrow keys to the right of the LED screen, select **Network Settings > IPv4 Configuration > IP Address**.
- Use the arrow keys to set the IP address. You can set the subnet mask and default gateway under the same menu. Your IP address will differ than the example below.



Wi-Fi Direct Setup

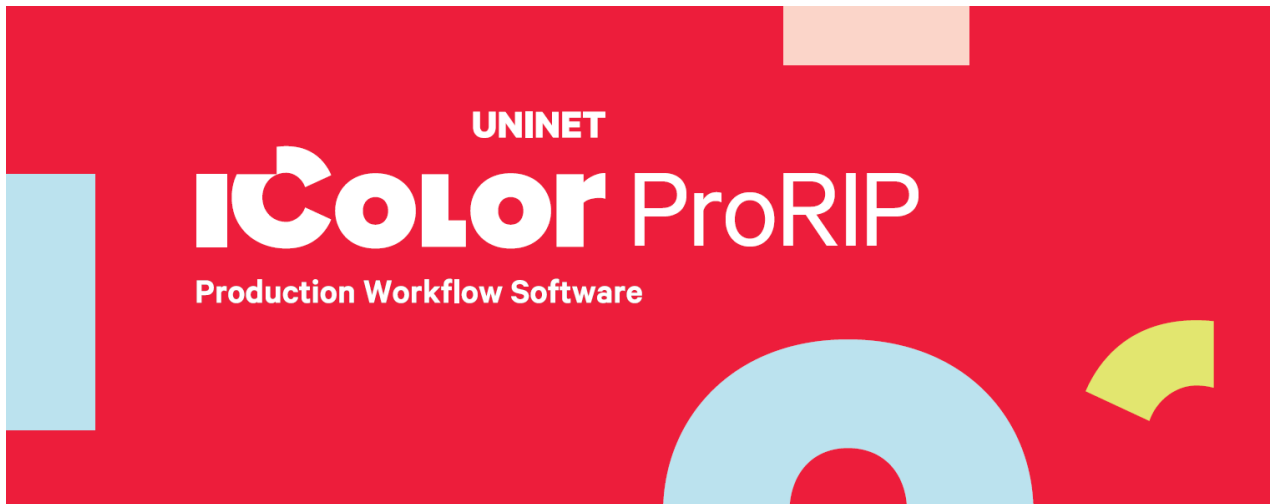
⚠ Use this method to connect your PC directly to the printer wirelessly, without the use of an existing network. The printer will establish its own internal IP address independent of any network that may already exist.

1. Disconnect the printer from any existing networks and/or remove the network cable from the back of the machine
2. Disconnect your PC from any existing networks and/or remove the network cable from the network.
3. Press the [Wi-Fi Direct] key.



4. On your PC, browse for available networks and select the SSID of the printer identifying itself as (DIRECT-XXXXXX), and then click [Connect].
5. Enter the encryption key 'admin123' to connect.
6. Confirm the status of the selected SSID is 'Connected'.

IColor ProRIP Software Introduction



Use the IColor ProRIP software to print white as an overprint in one pass. This professional version is designed for higher volume printing with an all new interface. Design files can be printed directly from your favorite graphics program, as well as imported directly into IColor ProRIP.

The IColor ProRIP software allows the user to control the spot white channel feature, as well as spot color overprinting, where white is needed as a top color for textiles. No need to create additional graphics with different color configurations – the software does it all – and in one pass. Enhance the brilliance of any graphic with white behind color.

Print and Transfer onto:

Natural and synthetic fabric (Light and Dark)
Mugs and ceramics
Light, dark and clear labels
Leather
Light and dark paper stock
Glass
Acrylic
Wood
Metal
Window Cling
Banners
And much more!

Create unique items – The possibilities are endless!

T-shirts and sweatshirts
Aprons
Corporate logo shirts
Mouse pads
Sports apparel
Jackets
Tote bags
Tattoos
And much more!

The most important point of the IColor ProRIP software is that it allows colors to be put down in layers. Regular printer drivers only concern themselves with what the eye sees on the top layer, the RIP allows you to separately control each layer, thus giving you the ability to control not only what you see, but what is behind that top layer (typically the white layer). The IColor ProRIP gives you the unique ability to use one machine to print images with white as an underprint or an overprint. You can now print vibrant colors on clear or dark media regardless of the background to which it is applied, where the white is put down first and the colors afterwards.

The IColor ProRIP 'Color Mapping' feature also allows for reverse printing when printing and transferring to garments where white is put down last. This is the only way to achieve white underprint and overprint in one pass, and you will not find another software/printer package on the market today that can do all of this. The software also allows for color manipulation and removal, rasterization, cost calculation, professional layout tools and direct printing from your favorite graphics program. It ships standard with all IColor Printers

To accomplish these two features, UNINET has created three configurations referred to as 'Print Queues' to suit any printing project:



The **CMYK Queue** is for standard print jobs that do not require a spot color. This queue assumes that the media being printed on is white. Use this Queue for printing on banner media, window cling, Presto! Media and for Dye Sublimation prints. Note that for Dye Sublimation, there is an ICC Profile that is automatically loaded when this is selected.

The **Overprint Queue** is for printing white as an overprint in one pass for reverse printing (typically used for transfer printing). For this configuration, the white cartridge is placed in the first slot of the IColor 560 printer and the cyan cartridge is placed in the last slot of the printer. This configuration is for textile and hard surface transfer printing, where white is needed as an overprint, applied on top of all the other colors. When the image is pressed to the garment, the transfer sheet is flipped over and the white becomes the underprint. This is especially important where images have half tones and 100% transfer of the image can be problematic, or when there is white in the image that needs to show through on dark colored garments.

The **Underprint Queue** is for right side printing and allows for printing white as an underprint in one pass (typically used for transparencies, clear labels, dark media or UNINET Aqua Clear paper). When the white is installed in the last slot of the IColor 560 printer, this is configured for 'Right Side Printing' where the white is printed first, as an underprint, all in one pass. In this situation, the RIP converts pure K colors to CMY composite black, and puts in white, not only as a background color, but also in the image where white or page white is specified.

White toner performs the following functions:

- 1) To produce the color white on a dark garment.
- 2) To fill in the halftones on lighter images so that there is enough toner on the page to fully transfer to your garment or to pull all the B adhesive.

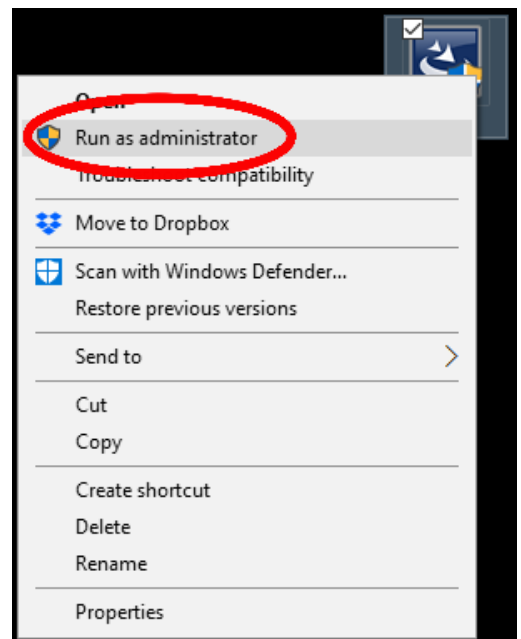
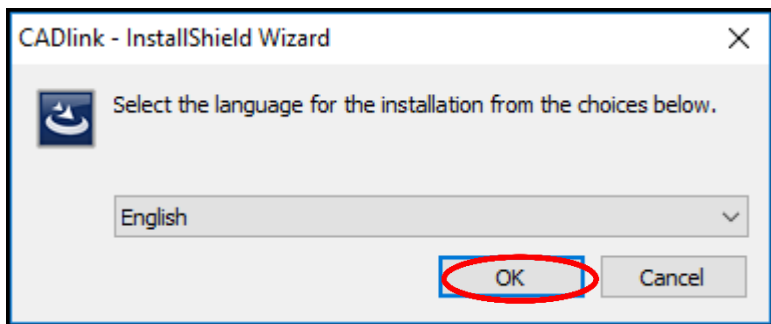
⚠ This second point is the most important one and the reason why you cannot simply use a CMYK printer for transfer printing. Also, this is why you MUST use the color white all the time (assuming your image has some halftones in it). Even when printing on a white garment and there is no white at all in your artwork. This is the biggest misconception with new users.

⚠ Don't make that mistake, always use the white toner cartridge for any type of transfer printing!

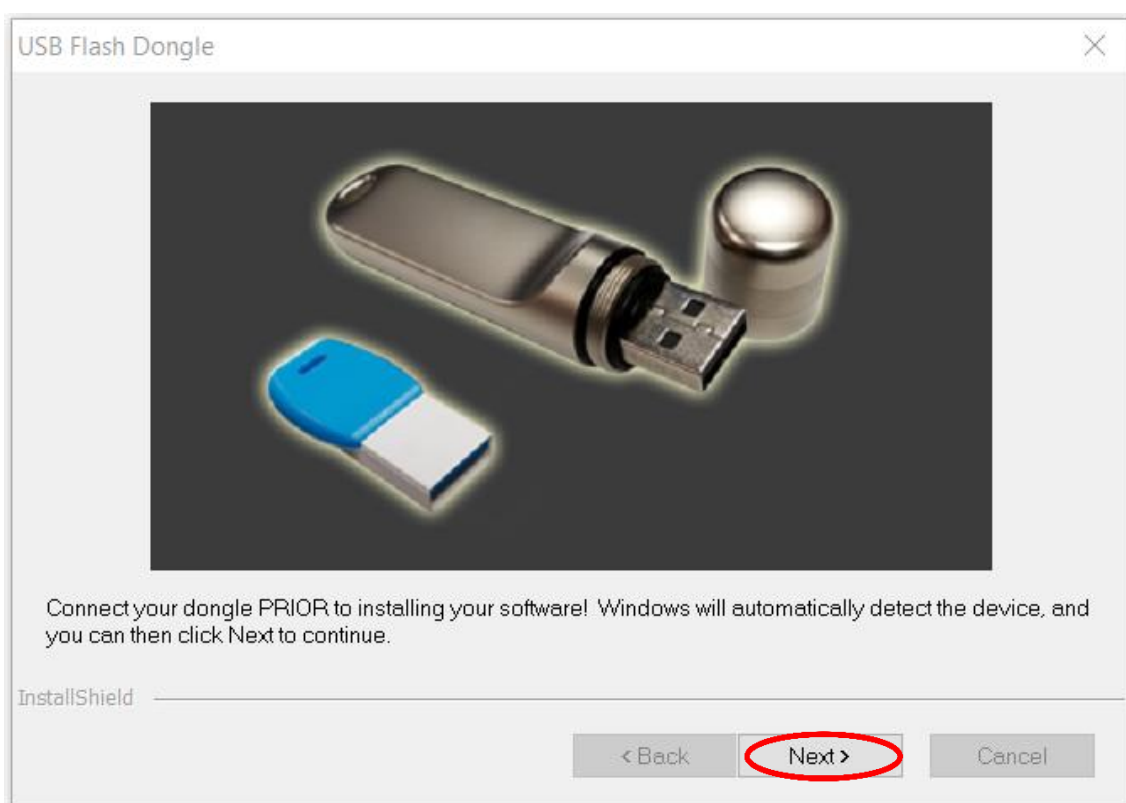
IColor ProRIP Software Installation

- Make sure all other programs are closed and virus software is disabled or uninstalled.
 - ⚠ Failure to disable or uninstall virus software can lead to problems with installation and/or use of software.
 - ⚠ If you keep the virus scan software active after installation, you must add the ProRIP to the 'safe programs' list or issues with ProRIP software can result. Windows Defender is the only program which, to date, has not affected the functionality of the ProRIP.
- Plug in the included dongle into a free USB port on your PC. This dongle contains all of the software, manuals and documents for your printer and software and also serves as your license key.
- Navigate to the RIP setup folder on the dongle and right click the setup file and select 'Run as Administrator'.
- Run the Installation and follow the steps pictured below.
- NOTE: It is suggested to copy all of the installation files located on the USB drive to a folder on your computer for safe keeping and ease of installation.
- The IColor ProRIP dongle must be inserted at all times when installing or running the program.

- 1) Navigate to the RIP setup folder on the ProRIP dongle or on your PC if you've copied these files. Right click on the setup application file and 'Run as administrator'.
- 2) Select the language for installation and click 'OK'.



- 3) You will be prompted to insert the USB dongle before proceeding with the installation. If already inserted, click 'Next'. (There is only one dongle shipped with your system, and can look like either of the types represented below).

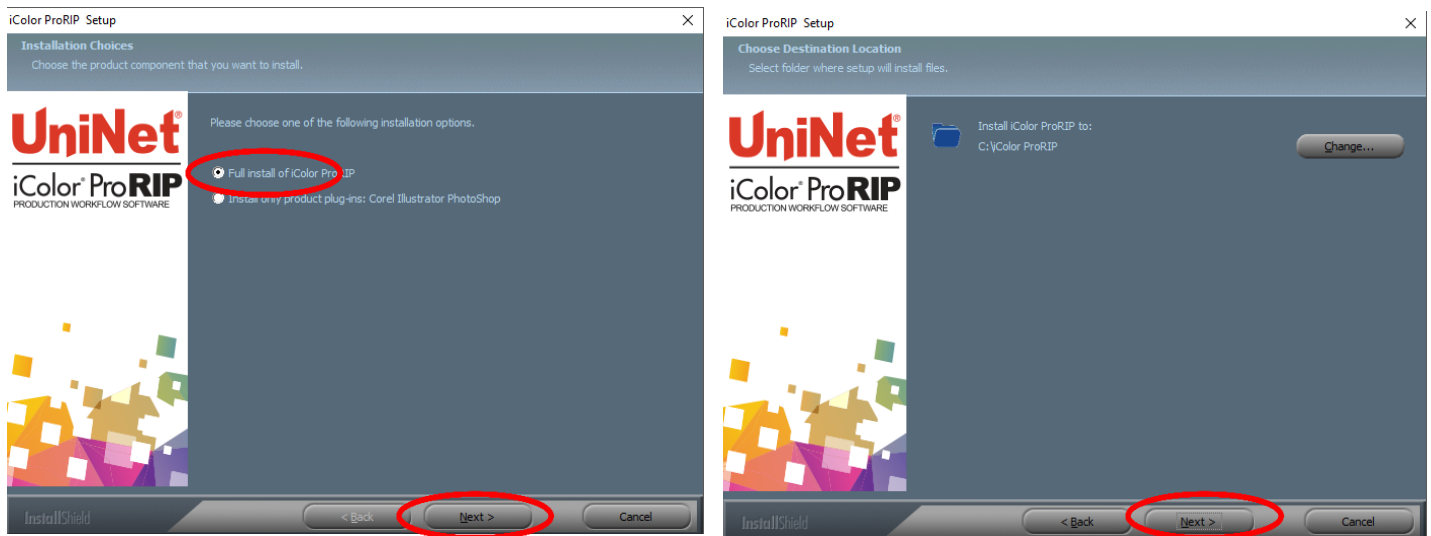


IMPORTANT: This USB dongle is your license key. Ensure that it is not lost or broken, as UNINET cannot replace it without a charge. You cannot use the software without it installed in your PC.

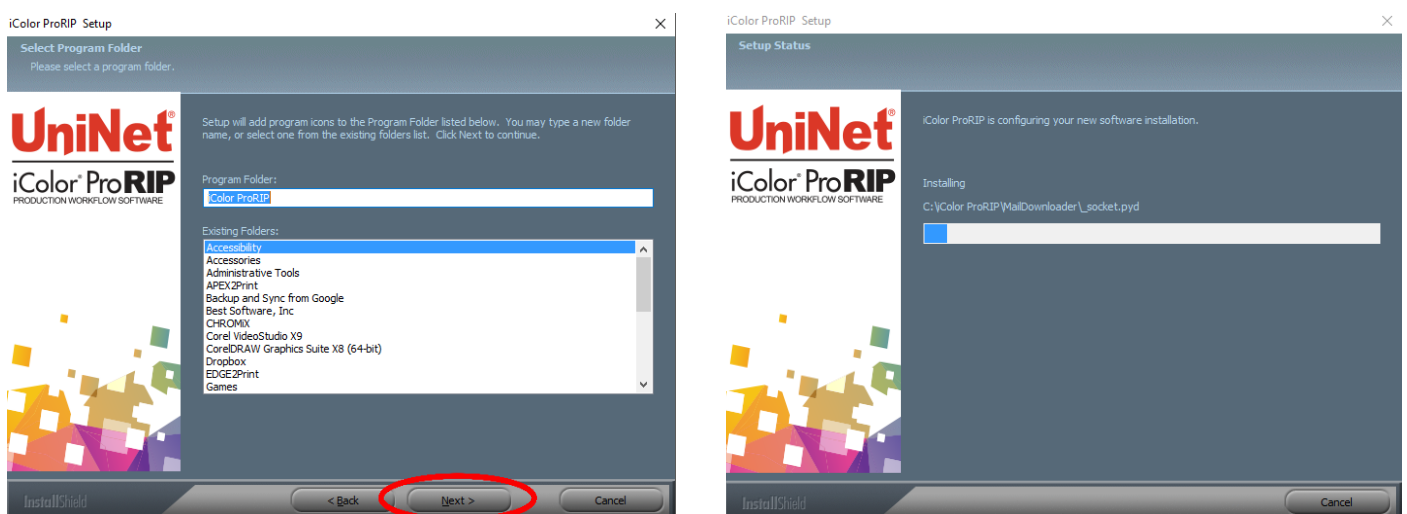
- 4) Select either the 32 or 64 bit application (dependent upon your version of windows). Accept the terms of the license agreement and click 'Next'.



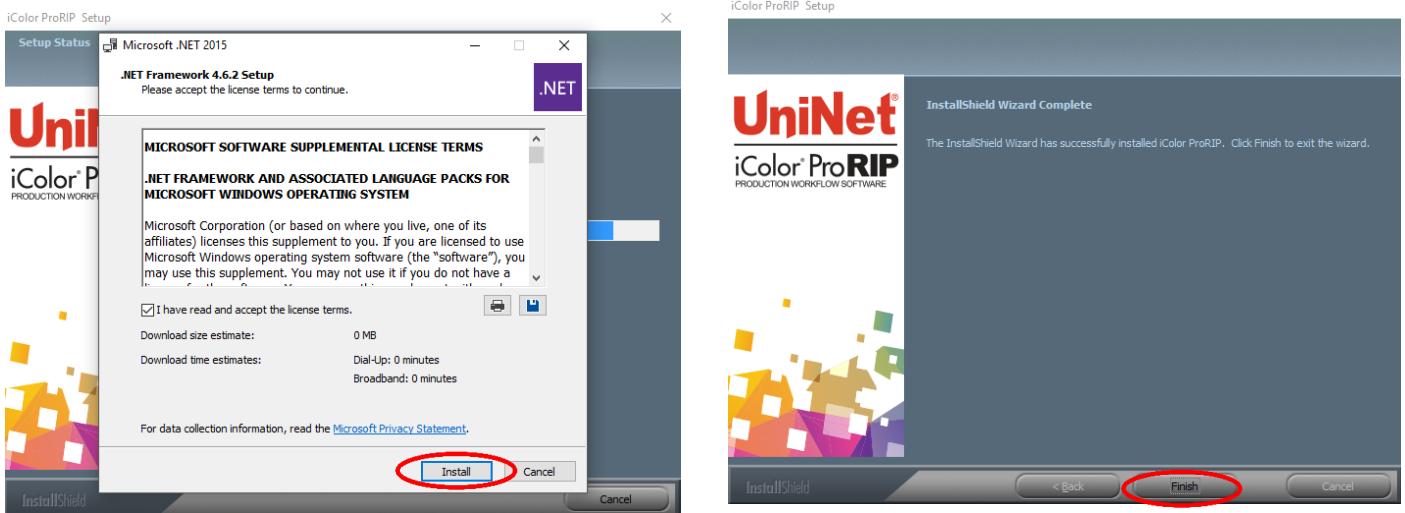
5) Choose 'Full install of IColor ProRIP' and click 'Next'. Click 'Next' again to accept the installation folder.



6) Click 'Next' to allow the creating of the IColor ProRIP Program Folder and the installation will begin.

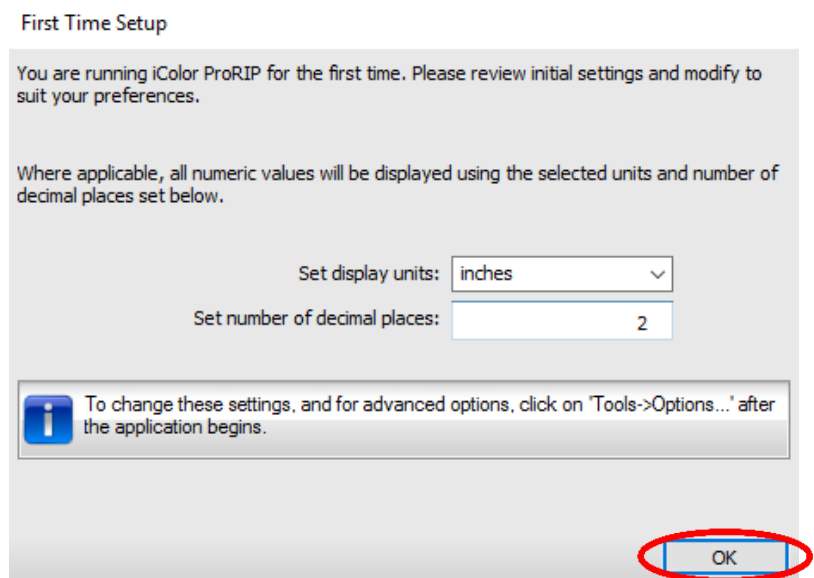
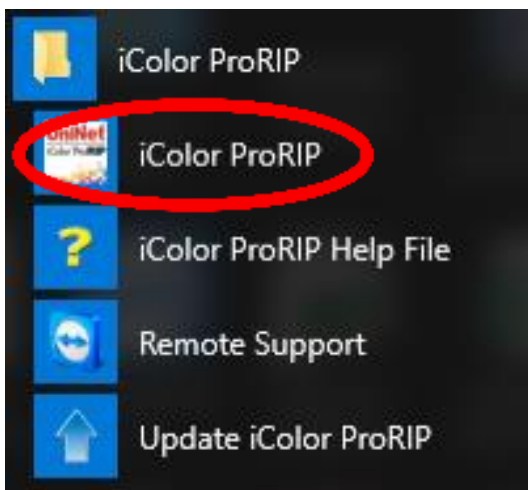


- 7) If not already installed, you will be prompted to install .NET Framework, which is a necessary component to the ProRIP software. Accept the license terms and click 'Install'. Once the InstallShield Wizard is complete, click 'Finish'. This installation normally takes several minutes to complete.

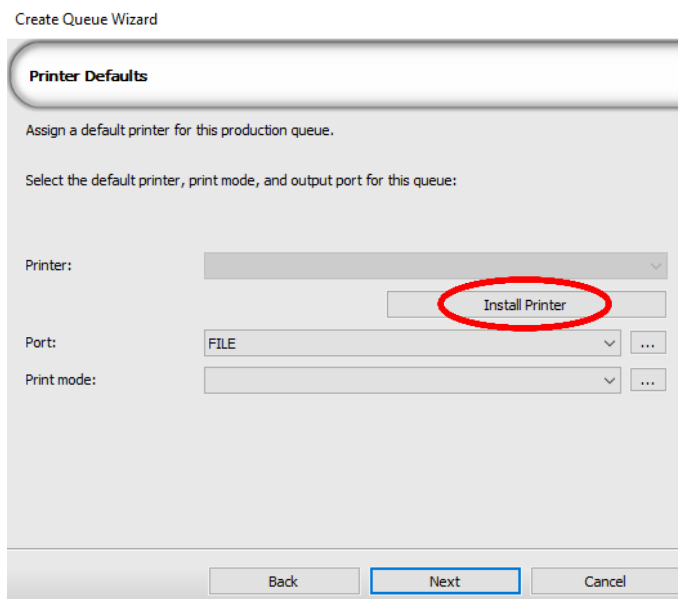
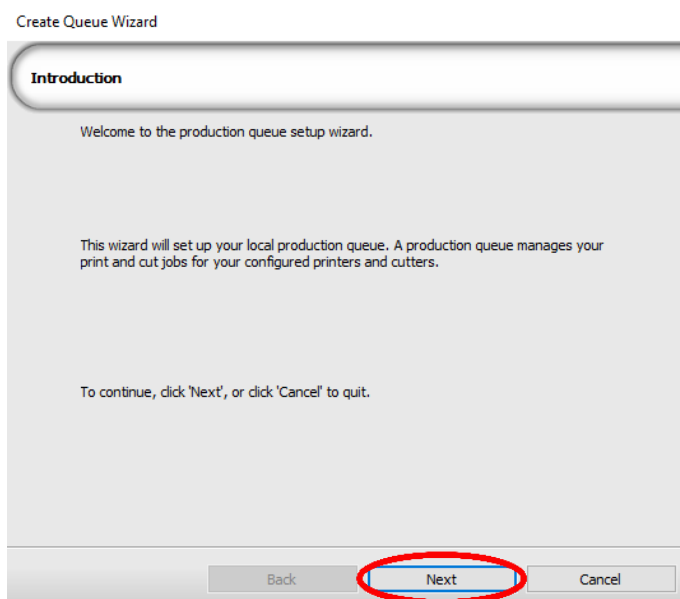


ProRIP First Time Setup

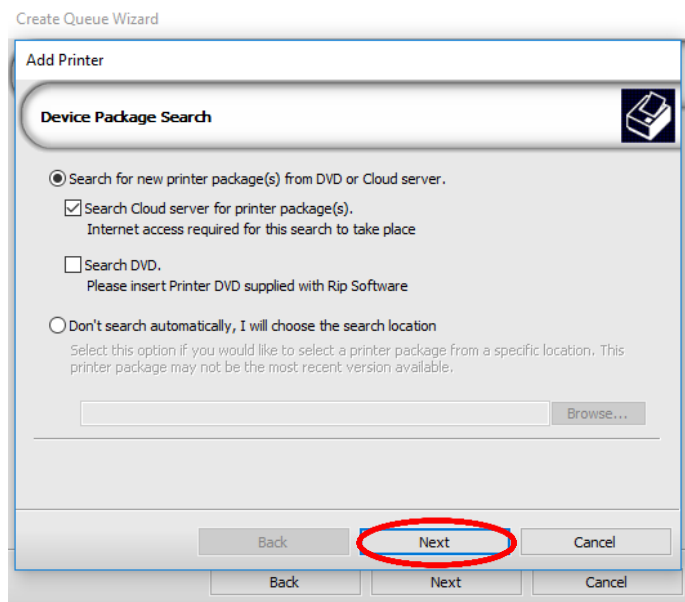
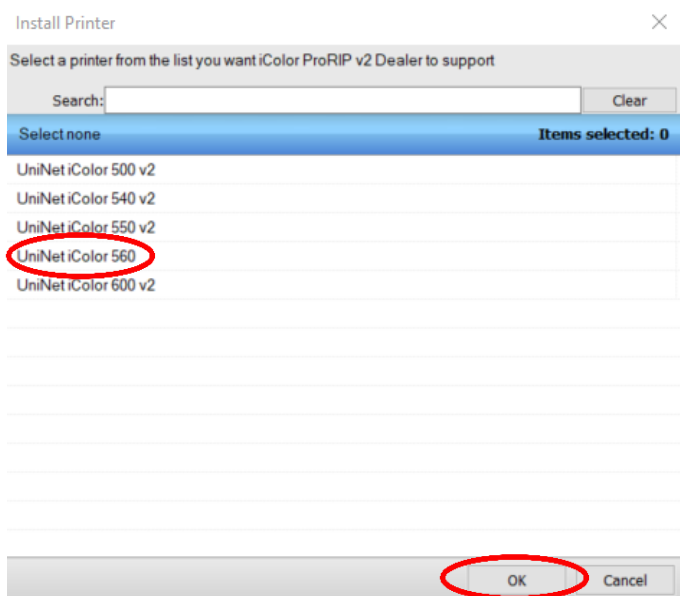
- 1) Be sure the IColor ProRIP dongle is installed and you are connected to the internet. From the Windows Start menu, choose **All Programs >> IColor ProRIP** or double click on the desktop icon that was created upon installation. Launch the program. Create a shortcut if desired for quicker access later. Confirm first time setup by setting your preferred unit of measure and decimal places. This can be changed later under **Tools >> Options**.



- 2) Once the ProRIP opens, the Queue Wizard will begin the installation of the support files for your IColor printer. Click 'Next' and then 'Install Printer'.



- 3) Select the appropriate printer from the support menu (in this case, we will choose the IColor 560). Click 'OK'. Then click 'Next' to continue the installation. Note that you may have already installed the printer driver in windows. This installation is for RIP functionality only.



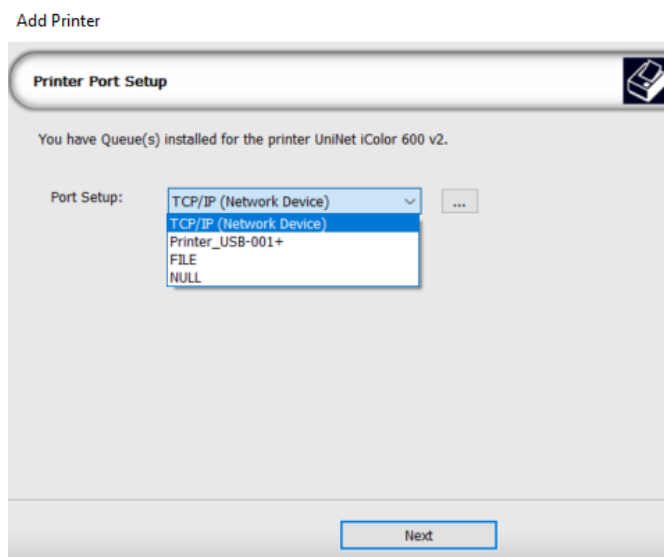
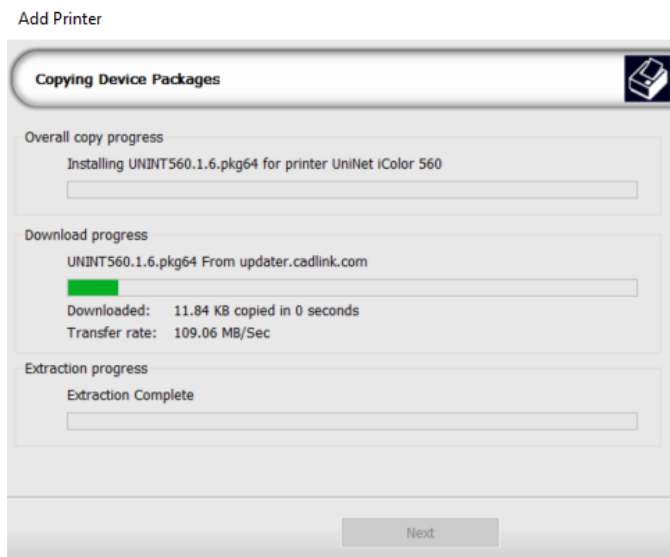
4) Click the 'Port Setup' dropdown and select how your printer is connect (Network or USB).

⚠ You must complete this step or you will not be able to print.

5) If connected via network (recommended), choose TCP/IP. If connected by USB, choose the printer as identified in the drop down.

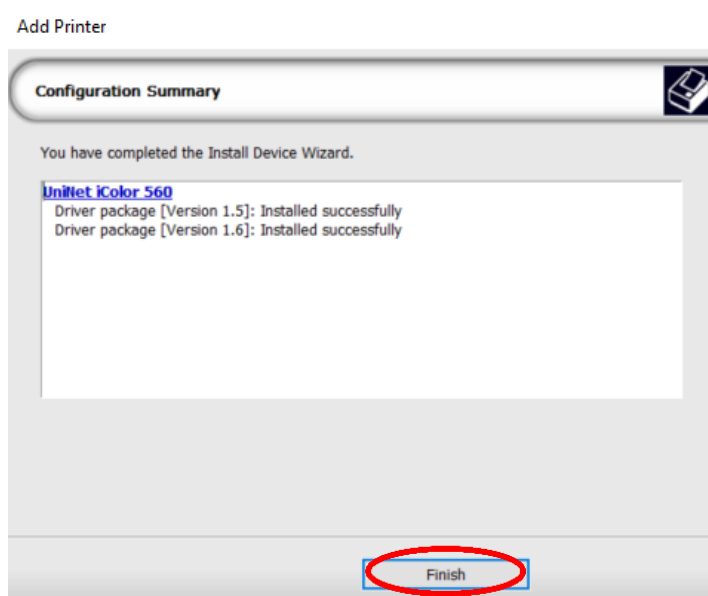
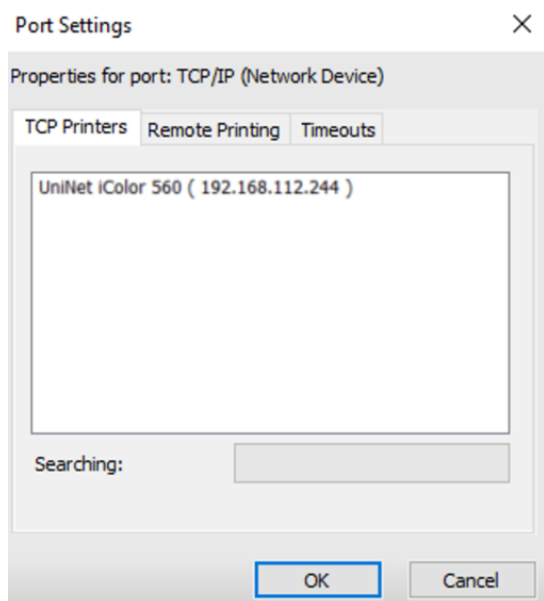
⚠ For USB connections, do not choose the port 'Printer_USB-001+'. The proper port will also have the printer name in the description.

⚠ All other ports will update automatically, it is only necessary to do this for one queue.



6) If connected via network, once TCP/IP is selected, the software will poll your network for available printers. Select the proper IColor printer. Note that the IP address of the printer is displayed.

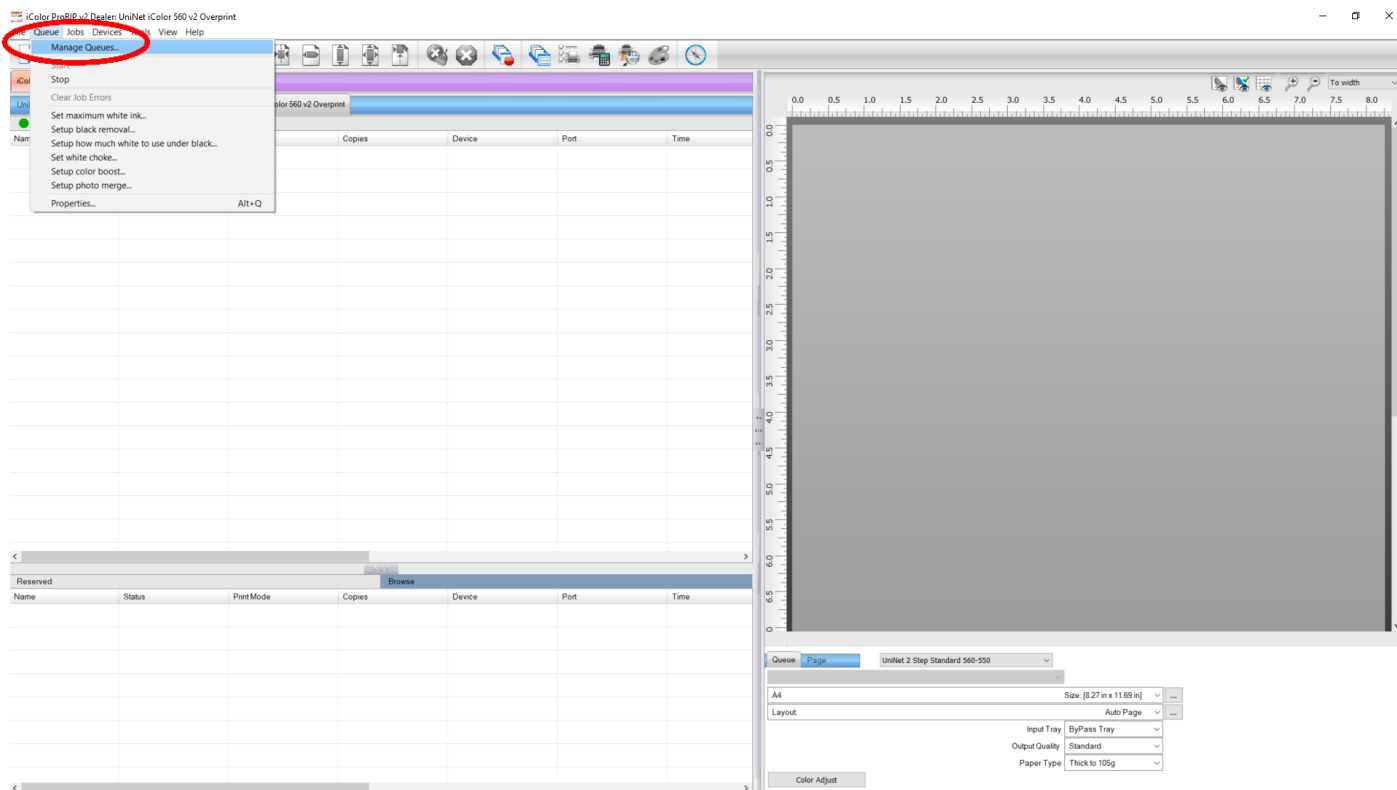
⚠ Be sure to set a static IP address for your printer so that the IP address does not change later. If this happens, you will have to repeat this step.



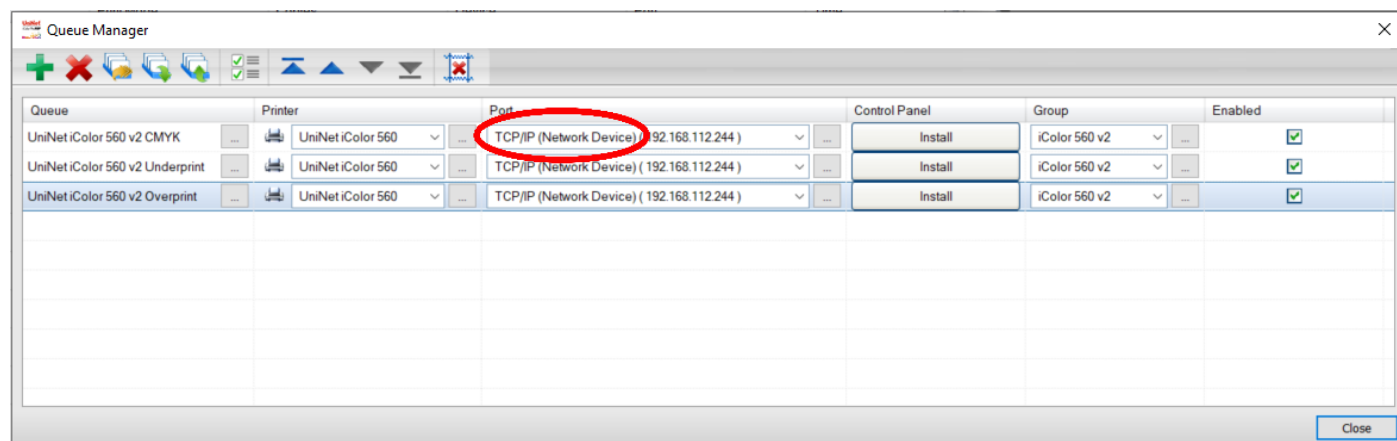
7) If you need to change or reset the ports in the future:

Click **Queue >> Manage Queues** to view, update or change the port settings.

 Port settings will reset when the queues are updated so you will have to do this from time to time.

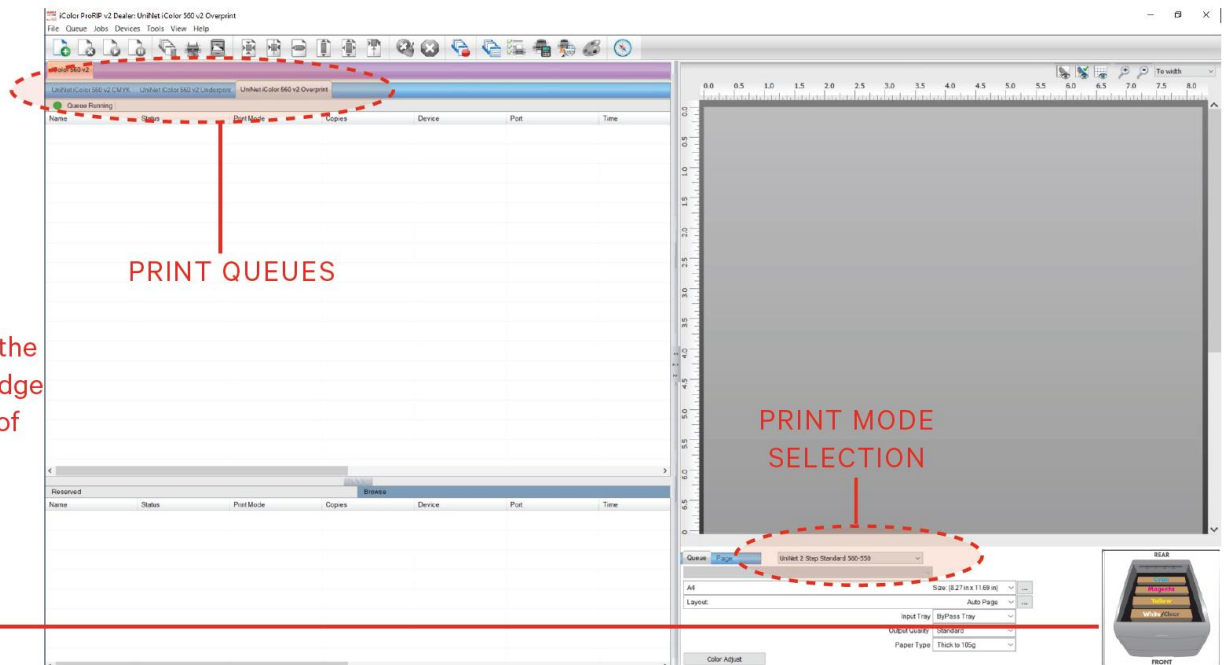


8) In the 'Port' drop down menu, chose the proper port. If connected via network (recommended), choose TCP/IP. If connected by USB, choose the printer as identified in the drop down. All other ports will update automatically, it is only necessary to do this for one queue.

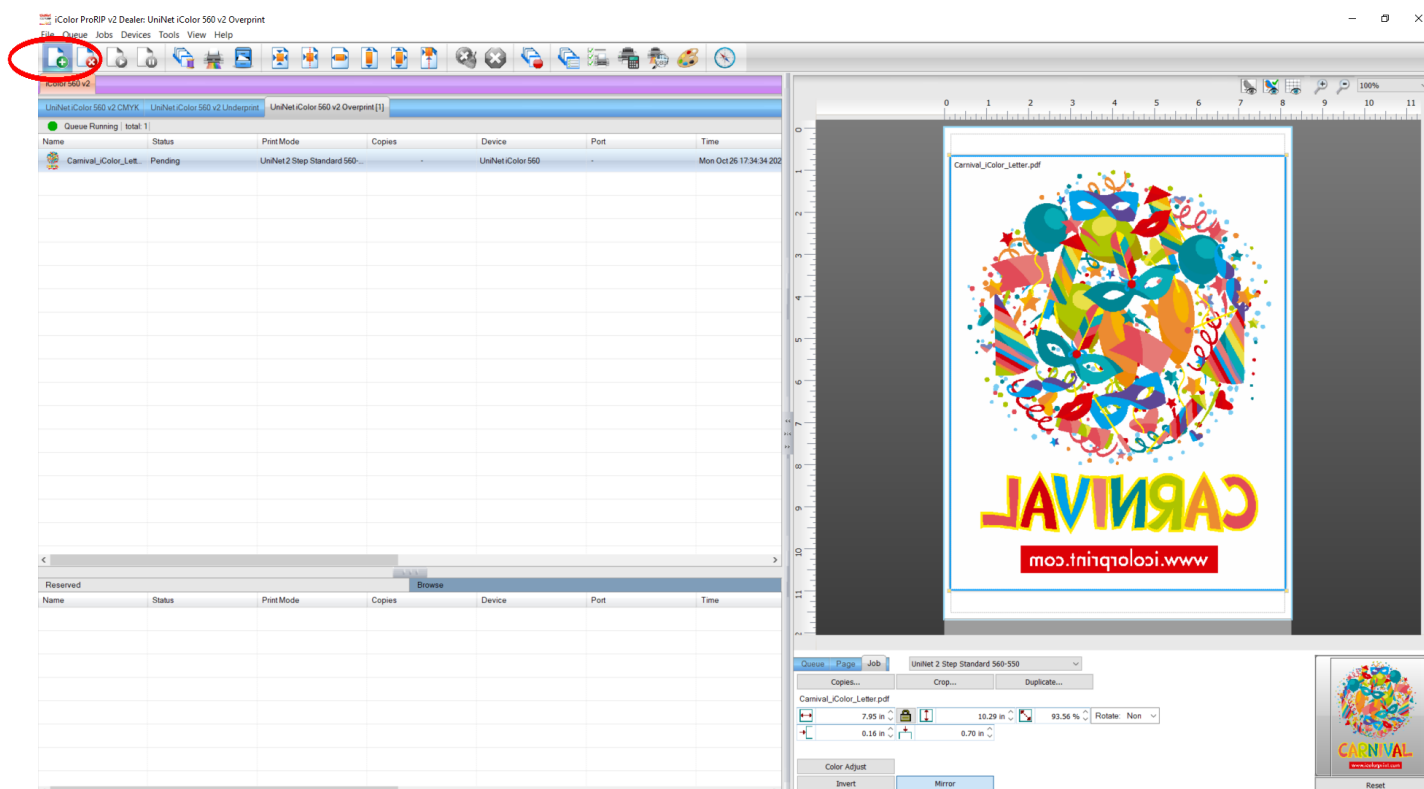


- 9) If connected via network, once TCP/IP is selected, the software will poll your network for available printers. Select the proper IColor printer. Note that the IP address of the printer is displayed. Be sure to set a static IP address for your printer so that the IP address does not change later. If this happens, you will have to repeat this step.
- 10) Select the proper Print Queue for your project. Then, select the Print Mode (otherwise known as media type) and verify the size of that media before importing your graphic.

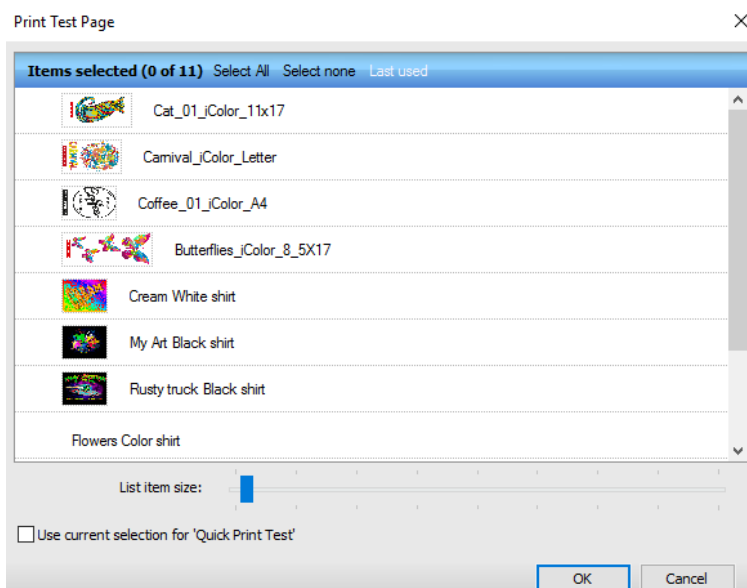
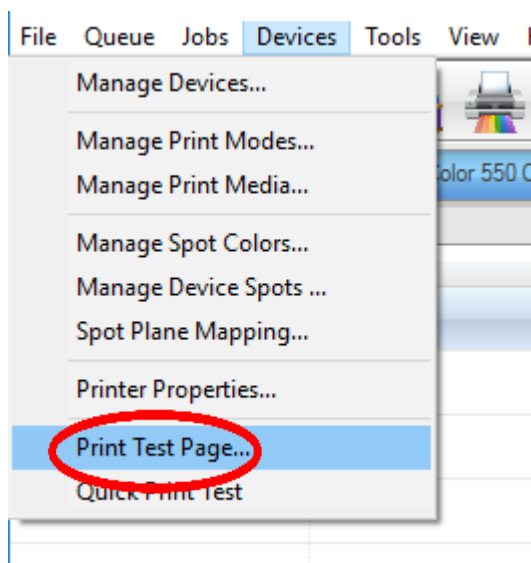
Note:
Preview icon
should match the
physical cartridge
configuration of
the printer.



- 11) Import the desired graphic by clicking the 'green plus' icon and navigating to the proper folder. You can also import by clicking **File > Import File**, or simply dragging and dropping your file into the queue.



- 12) There are preloaded images that can be used to print a test page. Click **Devices >> Print Test Page** to see the choices. It is suggested that you print a test page upon completion of the setup to confirm the printer has been properly installed. Use [Shift] and [Ctrl] to click multiple pages), and then click OK. More about the uses of each page can be found in the Help Topics file within the ProRIP program as well as the ProRIP User Manual.



Using the ProRIP Software (Summary)

Once your image is loaded, take note of the preconfigured settings based relating to the media being used in the printer.

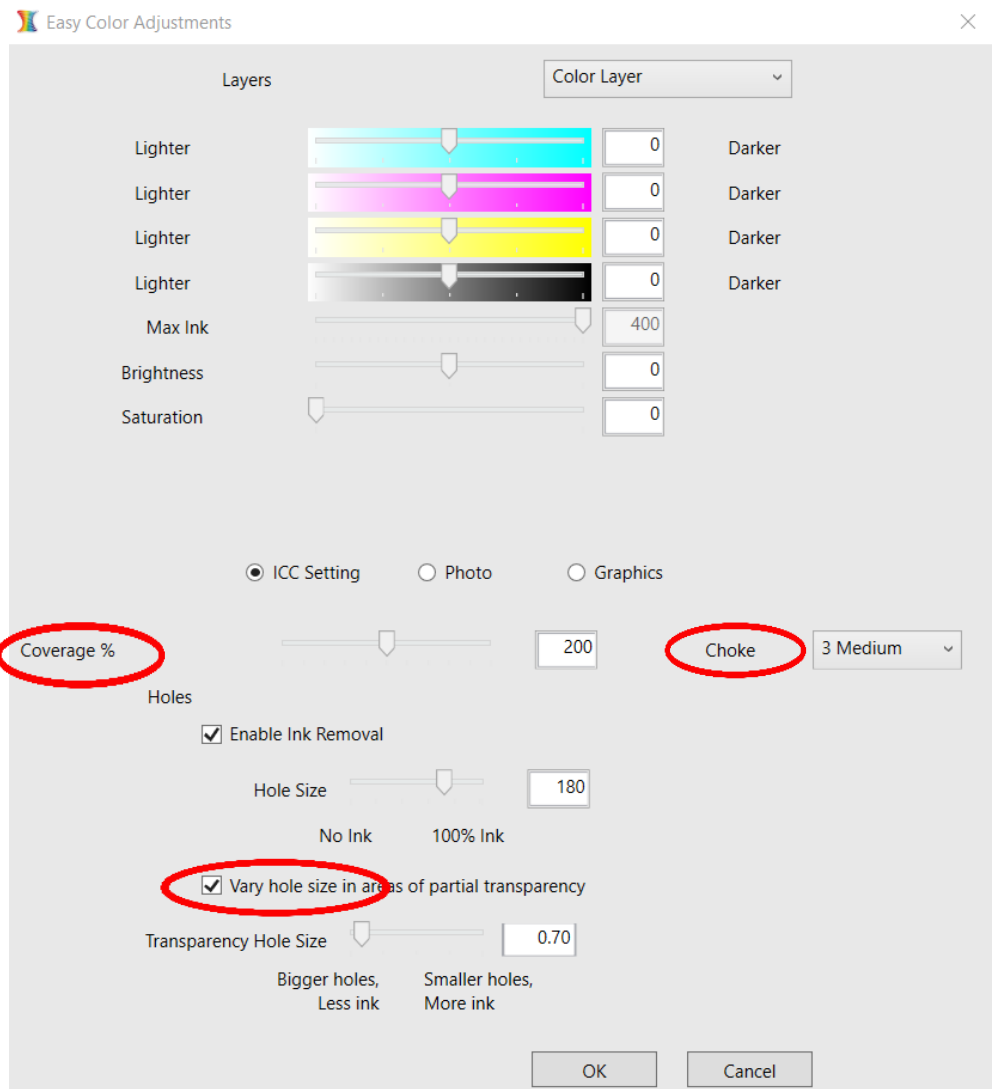
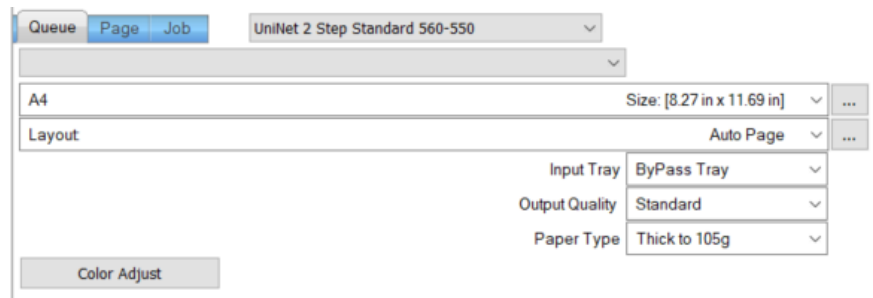
The 'Queue' tab shows the size of the media that will be used, where to load the media into the printer and the paper type setting recommended.

Each media type will contain this preconfigured data to make your printing experience as easy as possible. Overriding these settings could yield undesirable results.

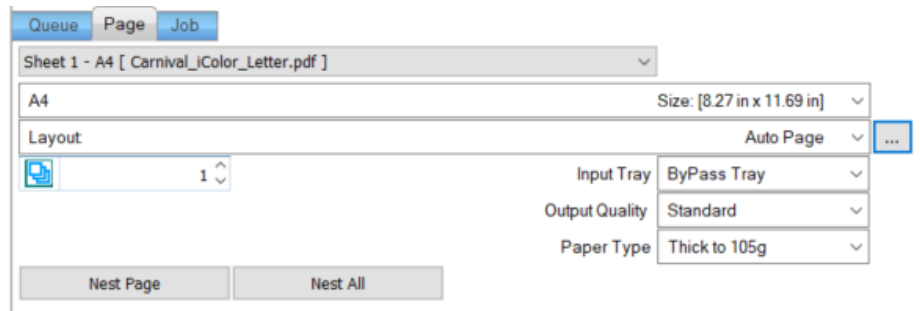
To alter the color settings, click on 'Color Adjust' and adjust as needed. 'Coverage %' represents the amount of white/clear toner overprint or underprint (depending on which queue is being used).

The 'Vary hole size in areas of transparency' option allows for rasterization of colors that fade into nothing and to retain partial transparency. It is suggested that this option is left on, as it will only apply itself where it's needed.

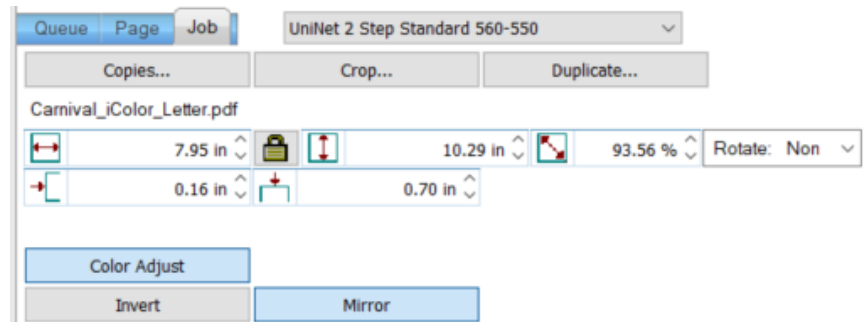
Choke dictates how much the overprint white layer is pulled in under the colors. The higher the number, to more it's pulled in (to avoid a white outline around your graphic).



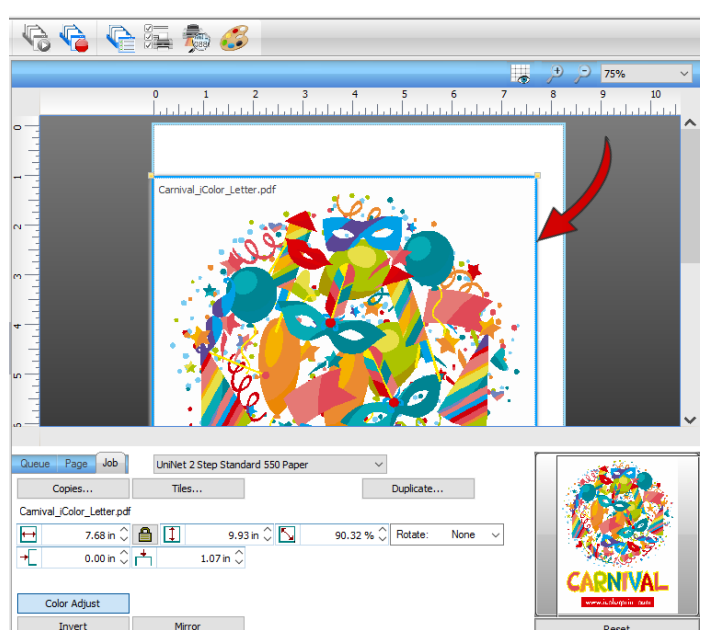
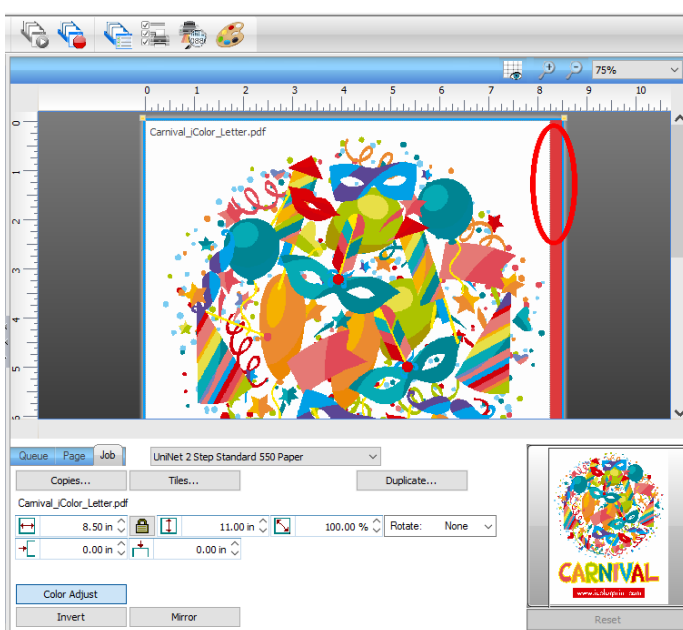
The 'Page' tab offers the ability to print multiple copies and nest images. You can also adjust the size of the image to fit your media here (and in the Queue tab).



The 'Job' tab allows you to lock the proportions of your image to maintain the aspect ratio. Here you can also mirror, rotate and invert the image. You can also adjust the margins of the print if necessary. Note that the mirror function is automatically on for any image loaded into the overprint queue.



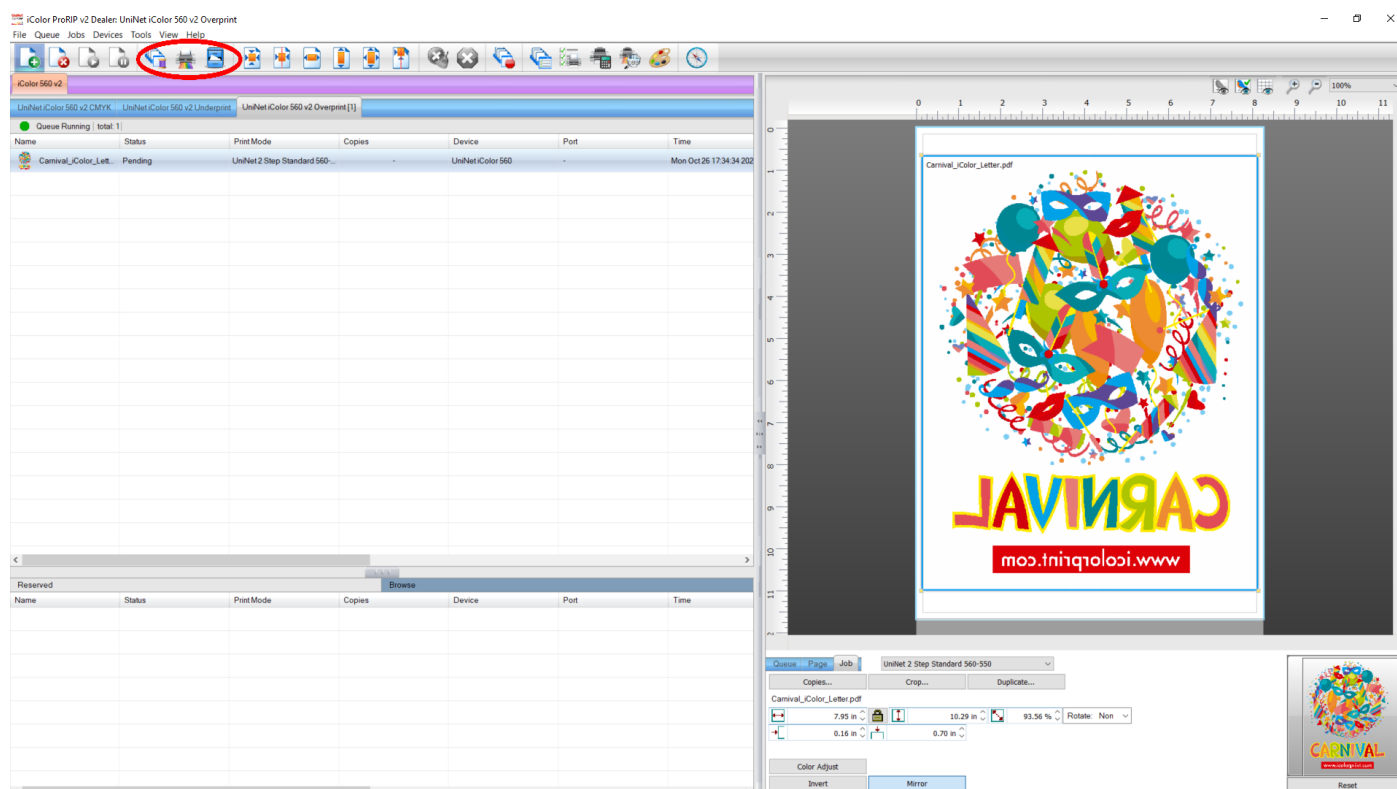
You can also adjust the size of any image by dragging and dropping the corner of the image in the preview pane. In this example, where we have a letter sized image placed on an A4 artboard, the red bar to the right of the image represents the portion of image that is outside the print margins. Be sure to resize to eliminate this bar before printing.



Adjustments can also be made by using these icons at the top of the screen.

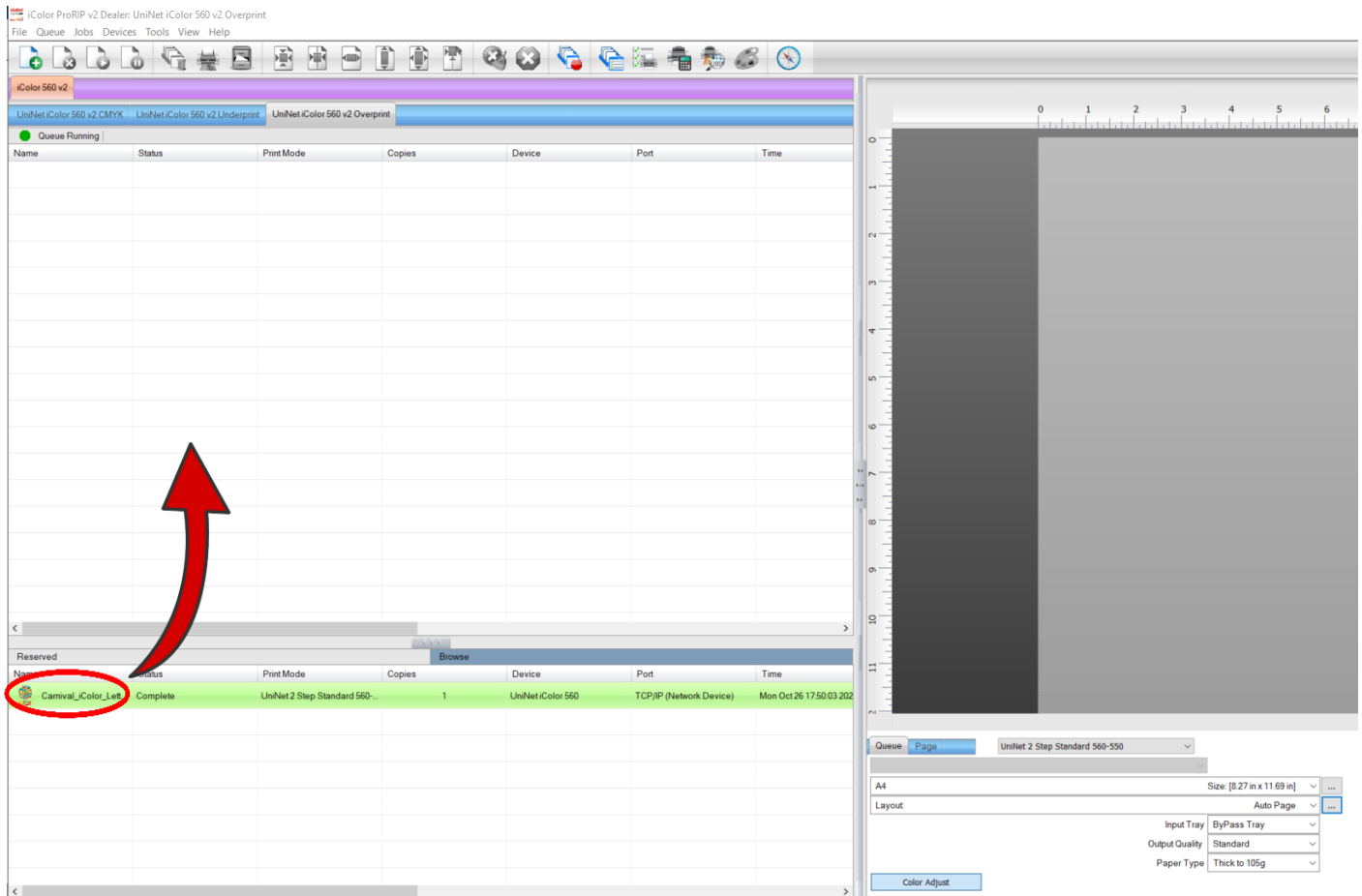


When ready, click the 'Print' icon to print your graphic.

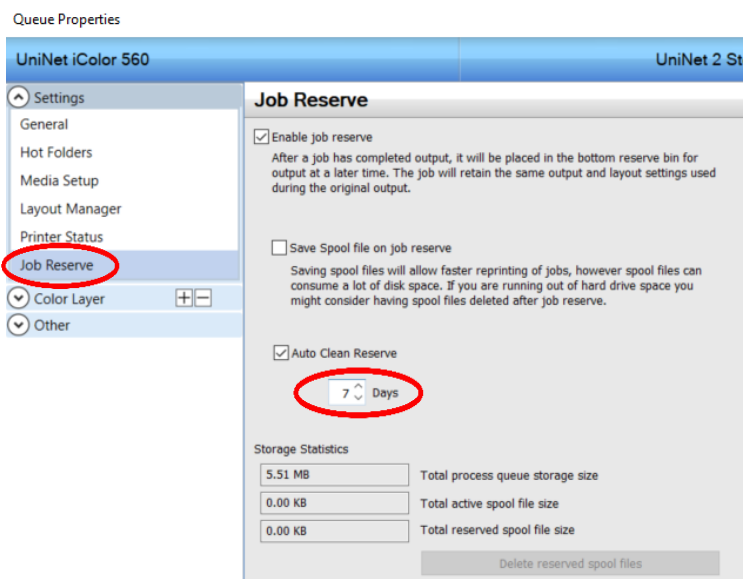
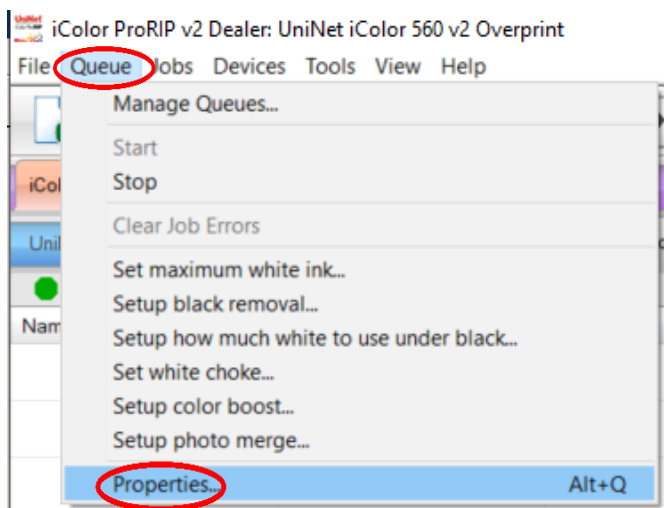


⚠ If you encounter a 'Port Failed to Open' error, please refer page 29, step 7 to set the proper port in Queue Manager

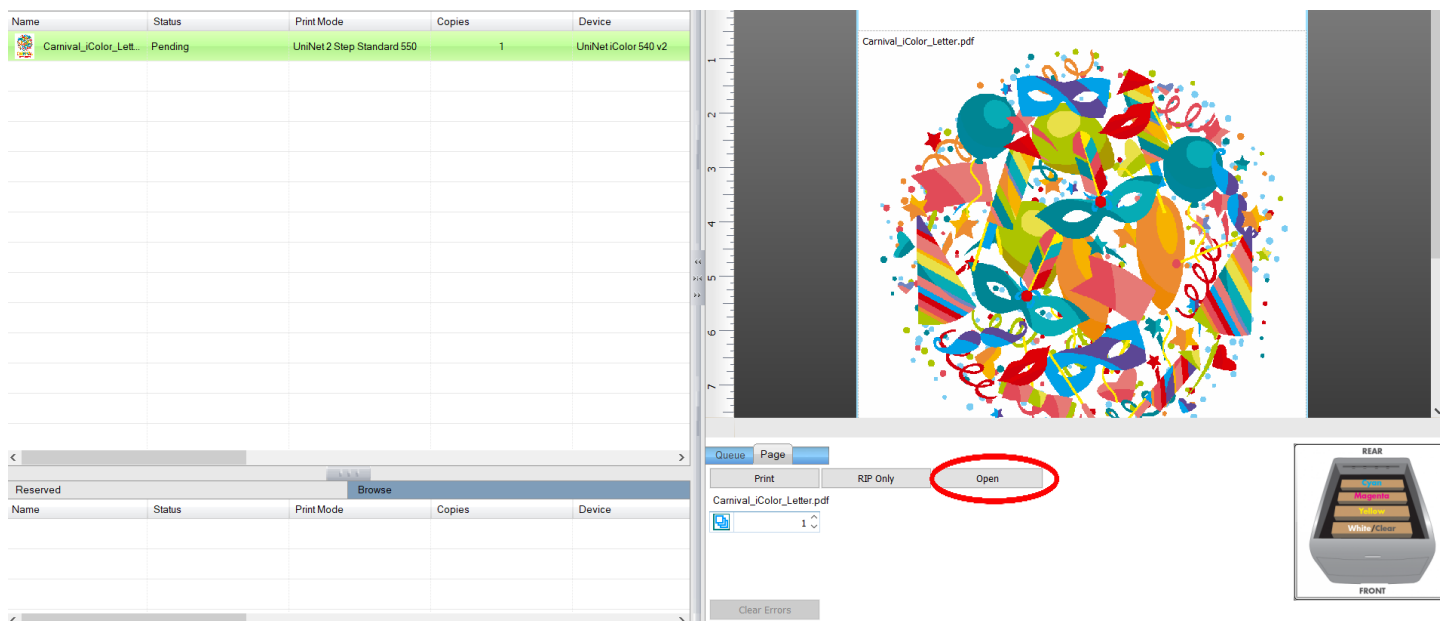
Once the print has completed, the job will be archived in the reserved area for 7 days. If you wish to reprint that job, drag and drop the job from the reserved section into the proper queue.



To lengthen the amount of time a job stays in reserve, click **Queue>>Properties**. Then click 'Job Reserve' and set the 'Auto Clean Reserve' time frame. Unclick to keep jobs in reserve forever.



After a particular job has printed, it will be 'closed'. This means that it was rendered by the software so that the next time you print, the processing time will be minimal. If you need to make any changes to the print job before printing, you must 'open' the job. Otherwise, just reprint as needed (processing time is faster when already rendered).



For more detailed instructions for the IColor ProRIP software, please consult the IColor ProRIP User Manual.

Visit www.icolorprint.com/support for the most updated written and video instructions on the IColor ProRIP software.

Toner Cartridge Replacement Guide

Because the IColor 560 features cartridge remapping to achieve a white underprint or overprint, it is important that you follow these rules when determining the cartridge order inside the machine:

OVERPRINT & CMYK Queue Configuration Supplies Replacement Guide

Typically used for reverse print applications such as garment decoration

Printer Display Reads:	Replace with:
Cyan low/out/empty	Cyan (Back of Printer)
Magenta low/out/empty	Magenta
Yellow low/out/empty	Yellow
Black low/out/empty	White/Clear/Black (check which cartridge is installed) (Front of Printer)

UNDERPRINT & CMYK Queue Configuration Supplies Replacement Guide

Typically used for right side reading application such as printing on dark or clear media

Printer Display Reads:	Replace with:
Cyan low/out/empty	White/Clear (check which cartridge is installed) (Back of Printer)
Magenta low/out/empty	Magenta
Yellow low/out/empty	Yellow
Black low/out/empty	Cyan (Front of Printer)

It is recommended that you power down your printer before moving cartridges to prevent electrostatic damage.

The black, white or clear cartridges can never be installed at the same time. Only one of these 3 cartridges can be installed at any one time.

Use Genuine UNINET IColor Consumables

Only use genuine UNINET IColor consumables. The use of incompatible supplies (toner, drums, transfer belts, fusers) will cause damage to your printer not covered by your warranty.

Printing with Fluorescent Colors

Instantly transform your IColor printer into a fluorescent printer where the printed images produced will glow brightly under UV light. The upgrade kit consists of 3 toner cartridges (CMY) and are shipped in 3 separate boxes. Simply remove and store the standard CMY toner cartridges and swap with the fluorescent kit to instantly print with UV sensitive toner while using the standard black cartridge in place. The white cartridge that shipped with your IColor 560 printer can also be used if a white overprint is required.

Operating on the same application principles as standard toner that ships with your machine, you can print and/or press onto virtually any surface using the appropriate transfer media – or print directly onto paper, transparencies and label stock. Be sure to design your graphics with bright colors – avoid dark or black colors (unless specifically wanted), as those will not fluoresce well and may not look desirable as a final product. Most fluorescent images will be placed on a black or dark colored garment, so black would not be suggested in these cases anyway.

Specific installation instructions can be found at www.icolorprint.com/support

Printing with Dye Sublimation Toner

Instantly transform your IColor printer into a dye sublimation printer. The upgrade kit consists of 4 toner cartridges (CMYK) and are shipped in 4 separate boxes. Simply remove and store the standard cartridges and swap with the dye sublimation kit to instantly print and sublimate on coated materials.

Operating on the same application principles as standard ink sublimation systems, you must press onto white 100% polyester or sublimation coated materials for best results. 50/50 cotton poly blends may also be used for a lighter, vintage look. There is no white overprint option with dye sublimation, only CMYK prints are possible.

The IColor Dye Sublimation Upgrade Kit has several unique advantages suited for a production environment:

- Vastly faster print speeds: 25 pages per *minute* vs 34 pages per *hour* for ink (photo mode).
- No clogged heads resulting from non-use. Toner based systems do not have this maintenance issue.
- Longer expiration period.
- Much higher page yield: 7,000 pages standard toner vs 350 pages for starter ink.
- Use of regular copy paper instead of special dye sublimation paper.

Specific installation instructions can be found at www.icolorprint.com/support

Ask your dealer about upgrading to security and clear toner options as well!



Why use IColor SmartCUT?

SmartCUT allows owners of smaller width printers to gain the benefits of tabloid or larger sized printers.

SmartCUT is a user centric tool that is a key component to expanding the size constraints of popular print methods, especially as it relates to transfer printing commonly associated with garment decoration. This ground breaking application turns your letter / A4 sized printer into a tabloid 'plus' capable machine, allowing for the splitting and splicing of one graphic across two or more printed transfer sheets without seeing the seam!

Use any oversized graphic along with a transparent transfer sheet, and the software will split it in half along the most logical path. You can choose to have it split along dark or light areas, depending on the color garment you will be pressing onto. With this software, you can make large designs that are not possible with even the most expensive of printing systems because you can split up your graphic onto as many transfer sheets as you want.

SmartCUT can be used in tandem with any RIP software package and printer. It was designed from the ground up with ease of use as a paramount consideration. Most functions are automated to allow you to focus on finding the best starting point to split each job. Final results can be used on virtually any printer. White toner printers highly recommended.

SmartCUT supports many file types such as PNG, JPG, BMP, GIF and TIFF files.

The program works as an integral part of a decorating system, where the split pages are printed onto IColor Standard or Select transparent transfer media. The sheets are then lined up visually on the substrate through the transparent sheet.

Print and press onto plus size garments such as 2X, 3X, 4X. The ability to print designs that properly fill out these large sizes creates the opportunity for high value garments that can fetch a premium price. A very high percentage of designs used are virtually imperceptible by even those who know that a seam exists.

SmartCUT is more than just 'splitting software' – it's a RIP enhancement tool!

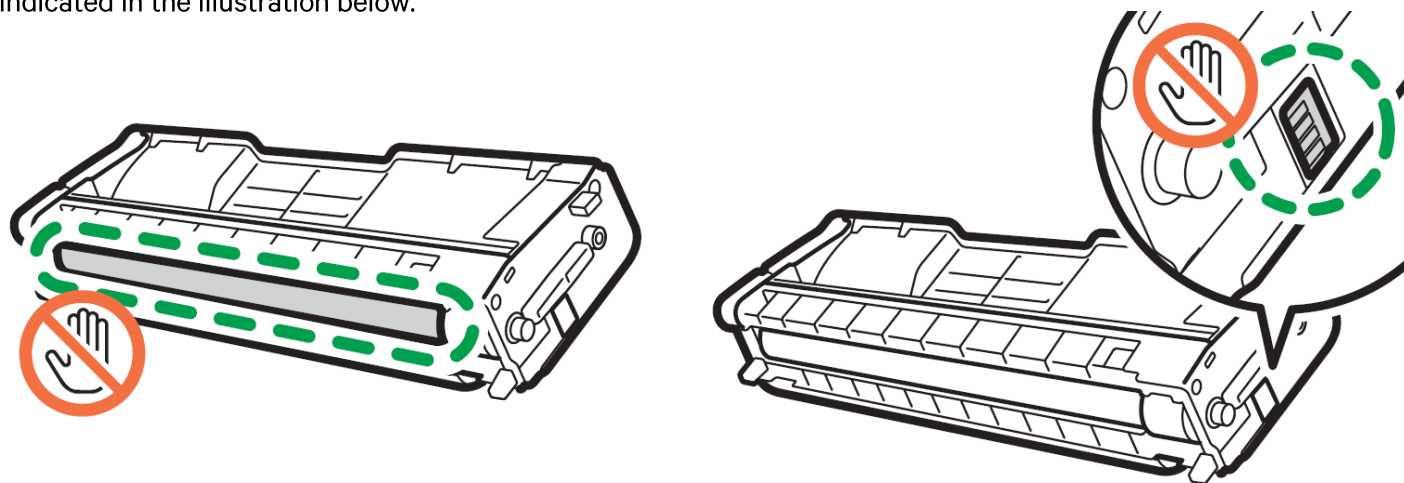
New features include:

- The 'Selective Masking Tool' allows you to point and click to rasterize or distress elements of your design based on color or shape.
- IColor ProRIP software integration for ease of use.
- The 'Real Preview' tool which applies the white adhesive behind the image (digitally) and then applies the image it to the color and texture of a shirt. The result is a much more realistic preview of how your image will look once pressed.

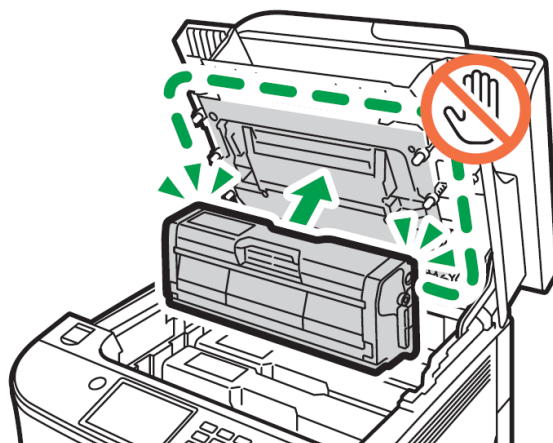
Maintaining your Printer

Replacing the Print Cartridges

- Store print cartridge in a cool dark place.
- Actual yield varies depending on image volume and density, number of pages printed, paper type and size, and environmental conditions such as temperature and humidity.
- The manufacturer shall not be responsible for any damage or expense that might result from the use of parts other than genuine parts from the manufacturer with your office products.
- When the toner runs out, pressing the [Stop/Start] key allows you to print a few more pages, but the print quality of those pages may be lower.
- Do not allow paper clips, staples, or other small objects to fall inside the machine.
- Do not expose the print cartridge without its cover to direct sunlight for a long time.
- Do not touch the print cartridge's photo conductor unit or the ID chip on the side of the print cartridge as indicated in the illustration below.



- When removing print cartridges, be careful not to touch the laser scanning unit under the upper cover (the position shown by the arrow in the illustration to the right).
- If cyan, magenta, or yellow toner runs out, you can print in monochrome using just the black toner. Change the color mode setting to Black and White using the machine's driver.
- If black toner runs out, you cannot print at all until the black print cartridge is replaced.



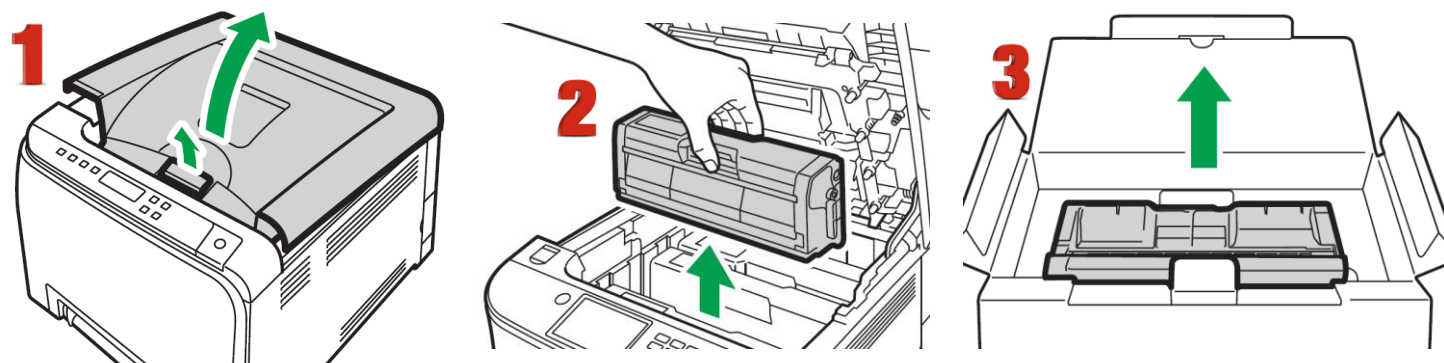
Messages on the screen:

Replace the indicated print cartridge when any of the following messages appear on the screen:

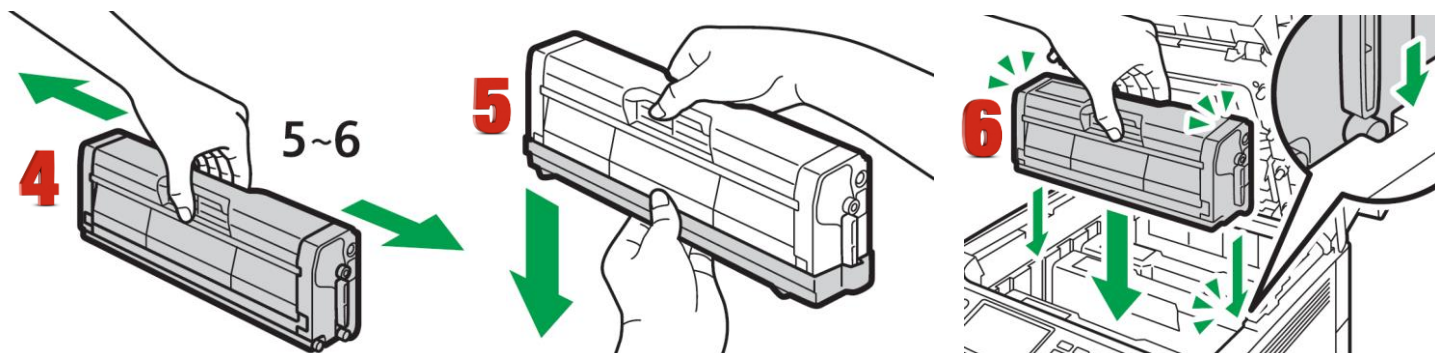
'Replace Toner: (X)' (X indicates the toner color)

Prepare the indicated print cartridge when any of the following messages appear on the screen:

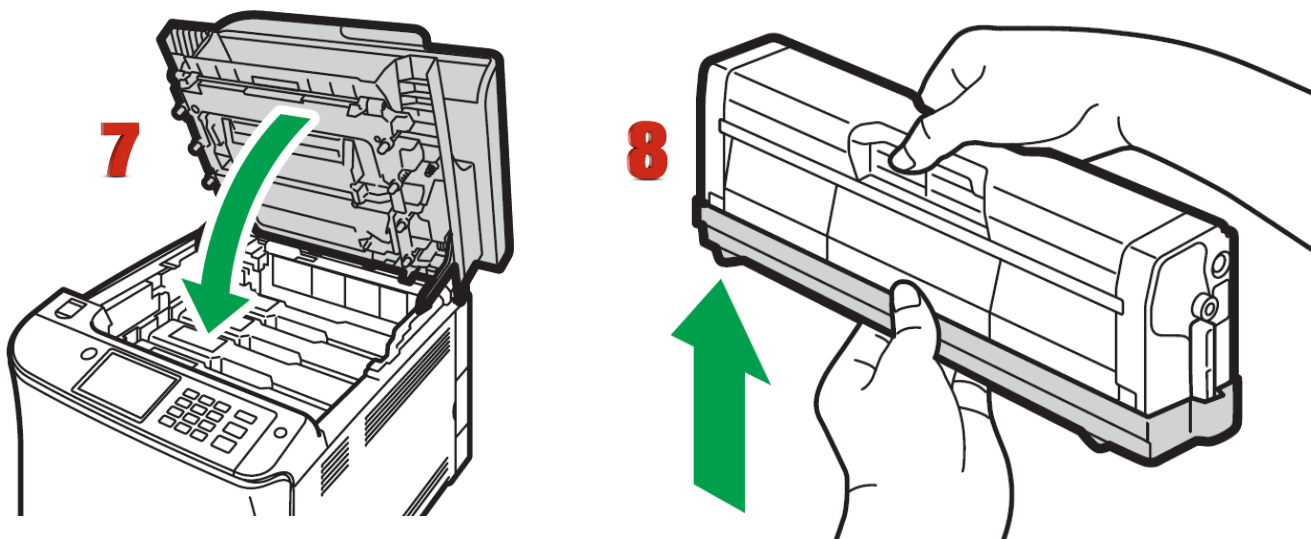
'Replace Required Soon: (X)' (X indicates the toner color)



1. Pull up the lever on the top cover, and then carefully raise the top cover.
2. Carefully lift out the print cartridge vertically, holding its center. From the rear, the print cartridges are installed in the order of cyan (C), magenta (M), yellow (Y), and white (W) or black (K).
3. Take the new print cartridge out of the box, and then take it out of the plastic bag.



4. Hold the print cartridge and shake it from side to side five or six times. Even distribution of toner within the bottle improves print quality.
5. Remove the protective cover from the print cartridge.
6. Check the toner color and corresponding location, and then carefully insert the print cartridge vertically.



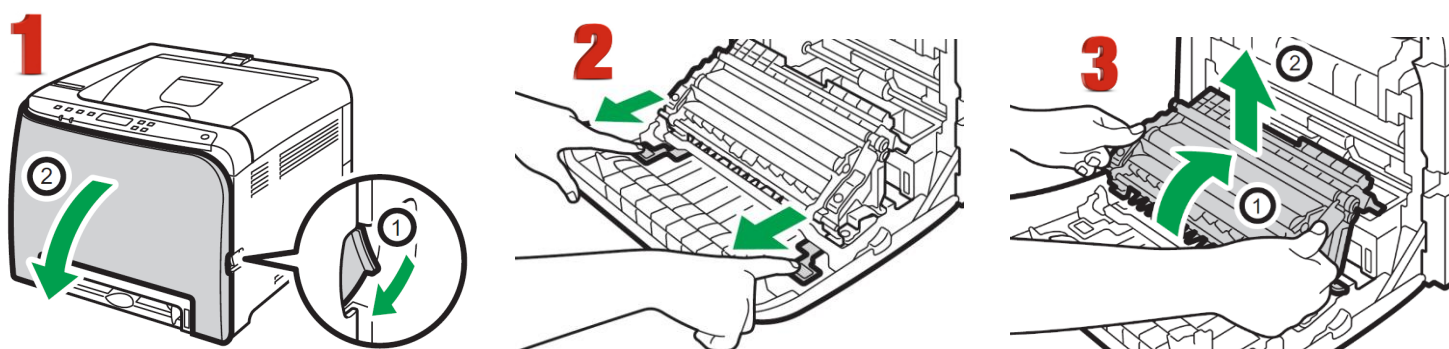
7. Using both hands, hold the center of the top cover and close the cover carefully.

8. Attach the protective cover you removed in Step 5 on the old print cartridge. Then, put the old print cartridge into the bag, and then put it into the box.

Replacing the Waste Toner Bottle

Messages on the screen

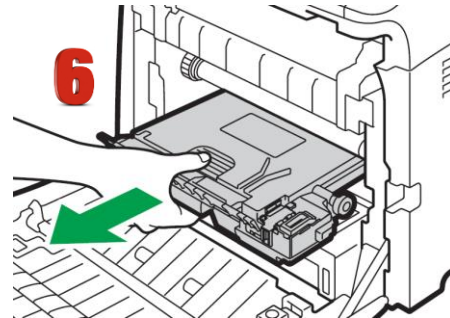
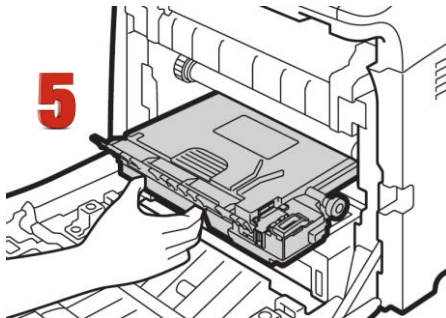
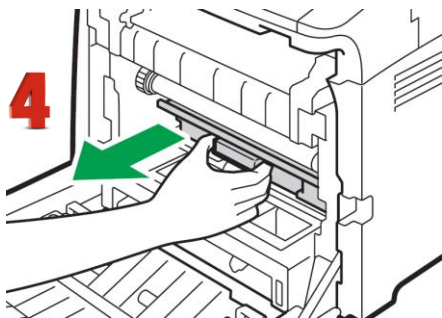
- Replace the waste toner bottle when the following message appears on the screen:
"Replacement Required: Waste Toner Bottle"
- Prepare a waste toner bottle when the following message appears on the screen:
"Replace Required Soon: Waste Toner Bottle"
- Waste toner bottles cannot be reused.
- When removing the waste toner bottle, make sure not to tilt it.
- Make sure the transfer unit is installed. If the transfer unit is not installed, install it before turning on the power.
- Before removing the waste toner bottle from the machine, spread paper or similar material around the area to keep toner from dirtying your workspace.



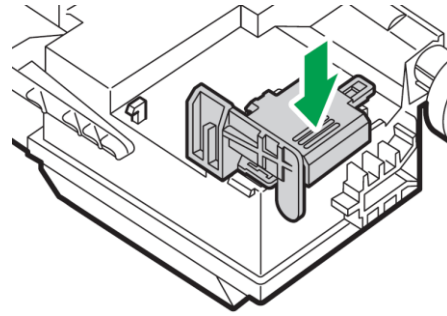
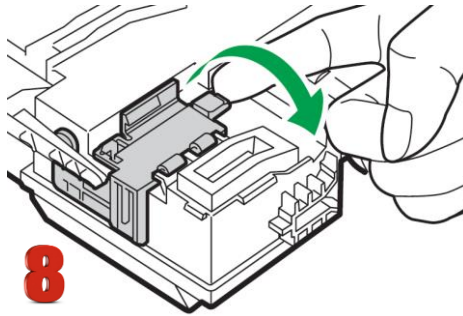
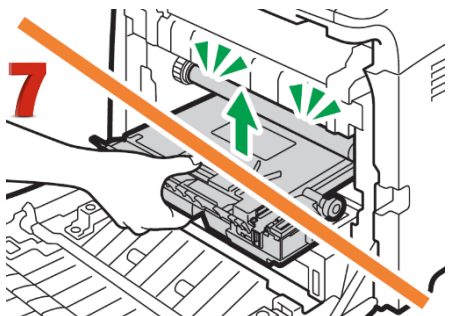
1. Pull the front cover open lever and then carefully lower the front cover.

2. Slide both levers on the front cover forward.

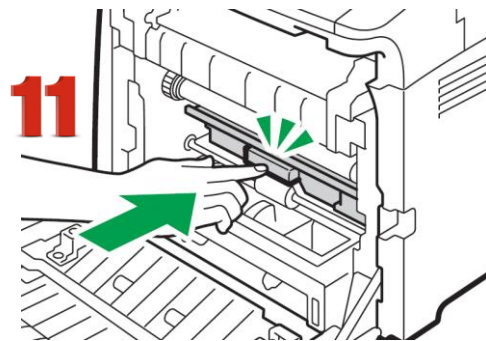
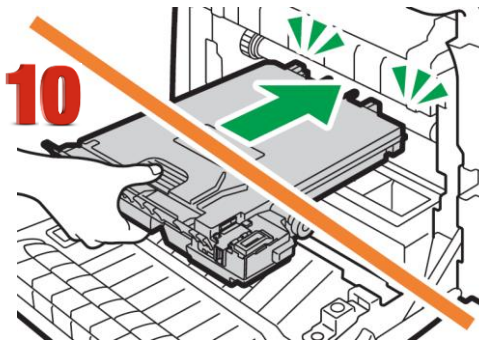
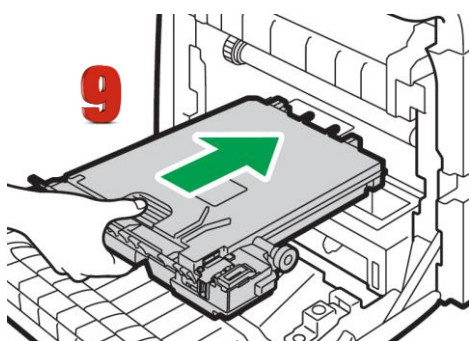
3. Holding the tabs on both ends of the transfer unit, tilt it backwards and lift it up.



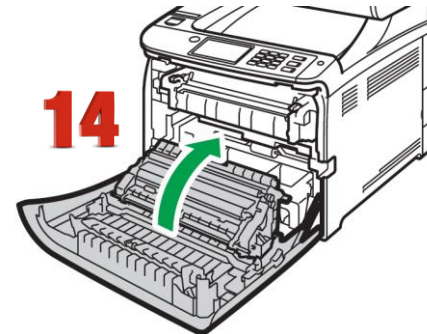
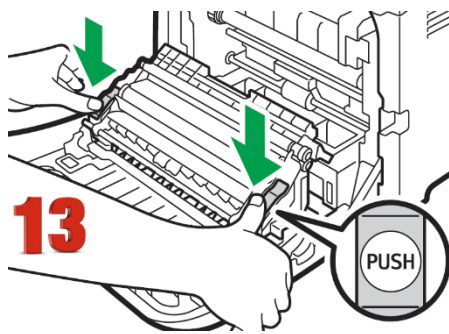
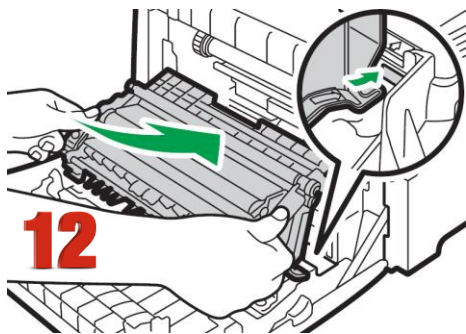
4. Holding the handle at the center of the waste toner bottle, carefully pull it partially out without tilting it.
5. Pull the waste toner bottle halfway out.
6. Holding the bottle firmly, pull it straight out.



7. To prevent the waste toner bottle from coming into contact with the intermediate transfer unit (the position shown by the arrow in the illustration below), **do not lift the bottle while pulling it out.**
8. Close the bottle cap.



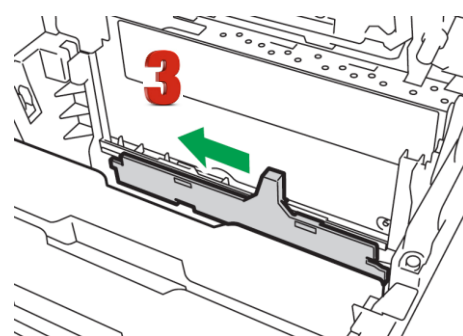
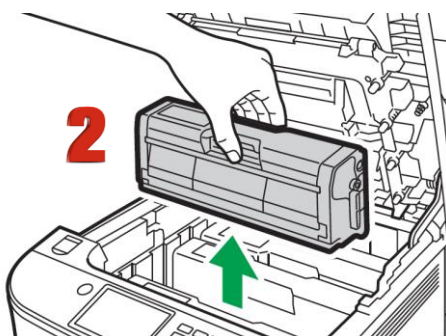
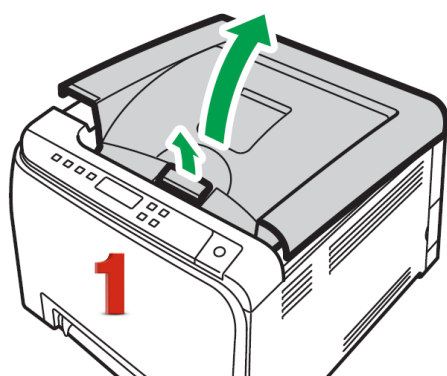
9. Holding the center of the new waste toner bottle, carefully insert it halfway into the machine body. Leave the bottle cap open.
10. To prevent the waste toner bottle from coming into contact with the intermediate transfer unit (the position shown by the arrow in the illustration below), do not lift the bottle while inserting it.
11. Push in the waste toner bottle until it clicks. Pressing the handle at the center, push the bottle all the way in.



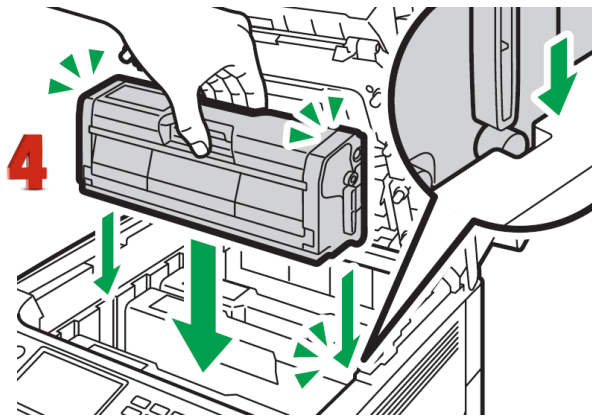
12. Place the transfer unit on the front cover. Slide the transfer unit along the guide rails into the machine.
13. When it stops, push on the PUSH mark until it clicks.
14. Using both hands, carefully push up the front cover until it closes.
15. When closing the front cover, push the upper area of the cover firmly.

Cleaning the Toner Density Sensor and LD Unit Dust Shield

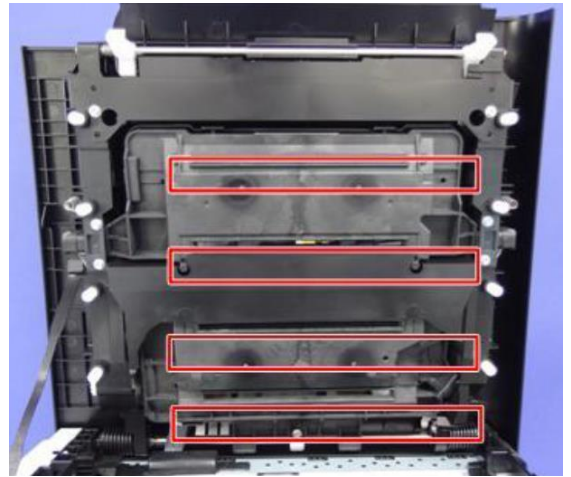
Clean the toner density sensor when the following message appears on the control panel.
"Density Sensor Require Cleaning"



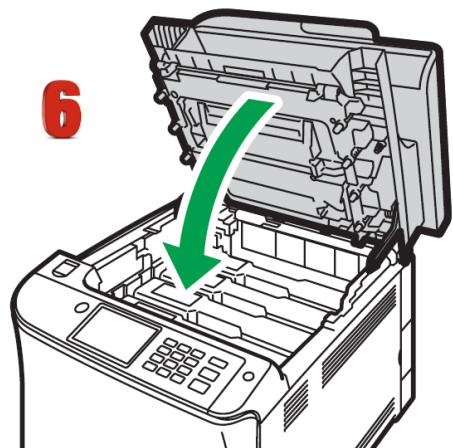
1. Pull up the lever on the top cover, and then carefully raise the top cover.
2. Remove the rearmost print cartridge.
3. Slide the toner density sensor lever once to the left.



5



4. Carefully insert the print cartridge removed in Step 2 vertically.
5. Clean each dust shield glass with a soft damp cloth, and then wipe the same area with a dry cloth to remove any remaining moisture.
6. Using both hands, hold the center of the top cover and close the cover carefully. Be careful not to trap your fingers.

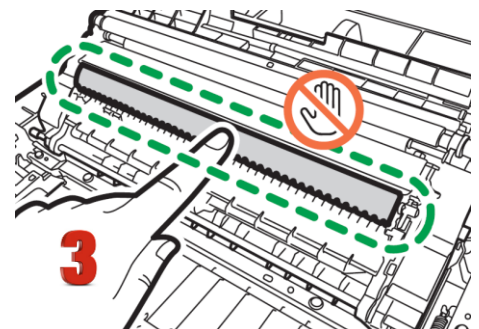
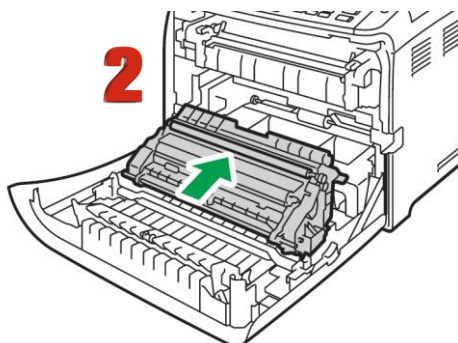
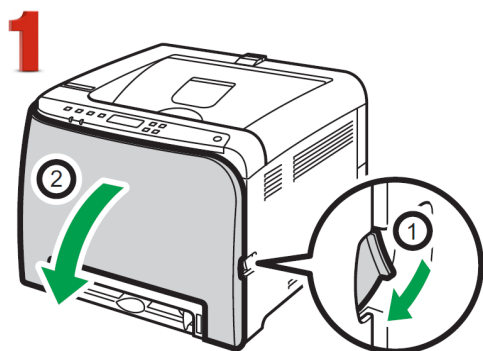


Cleaning the Registration Roller

The registration roller can become dirty with paper dust if you print to non-standard paper.

Clean the registration roller if white dots appear on prints or if prints are smeared after a paper jam is cleared.

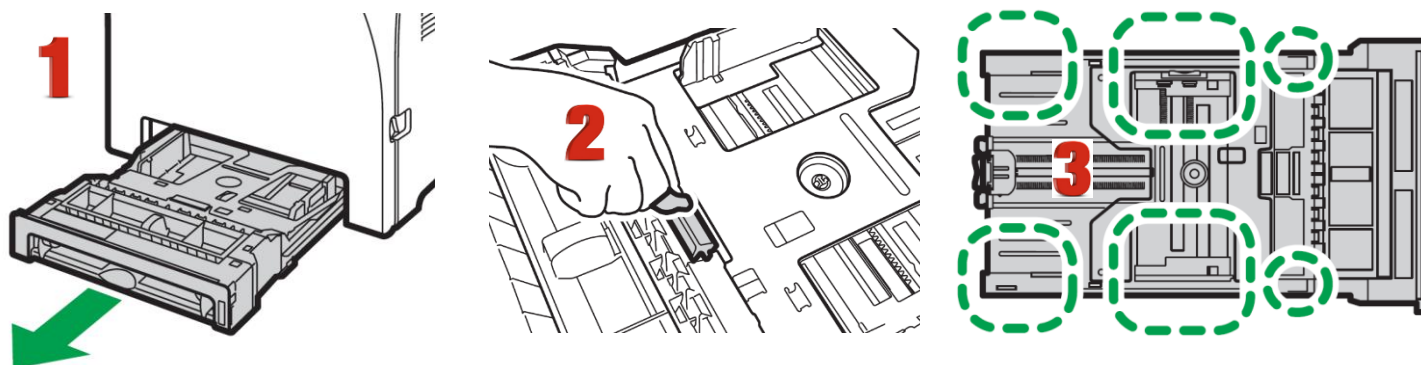
- Do not use chemical cleaning fluids or organic solvents such as thinner or benzene.



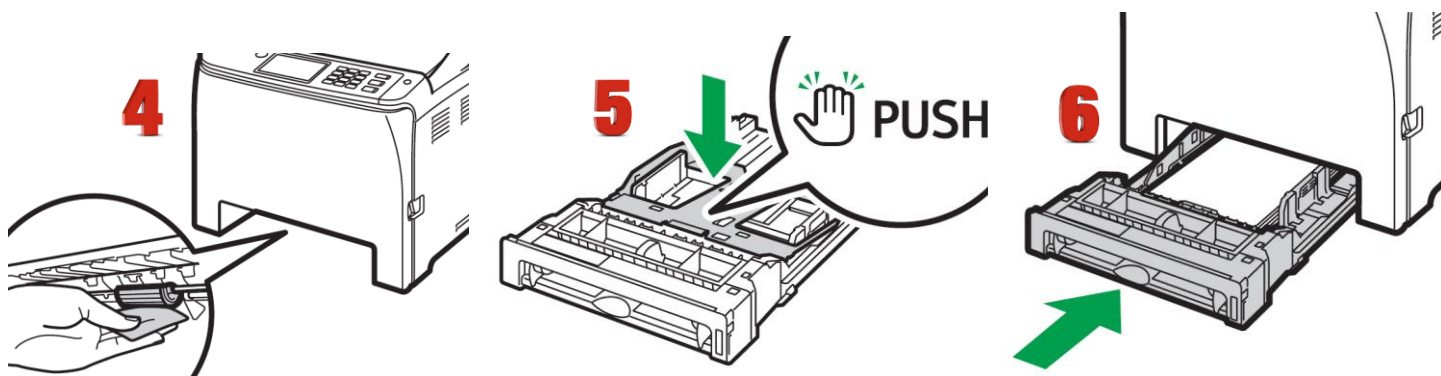
1. **Turn off the power and unplug the power cord.** Pull the front cover open lever and then carefully lower the front cover. Be sure to set the registration roller in the position shown by the arrow in the illustration below. Do not touch the transfer roller.
2. Clean the registration roller by applying a soft damp cloth while turning it using both hands, carefully push up the front cover until it closes.
3. When closing the front cover, push the upper area of the cover firmly.

Cleaning the Paper Tray, Friction Pad and Paper Feed Roller

If the friction pad or paper feed roller is dirty, a multi-feed or misfeed might occur. The paper tray can become dirty with paper dust if you print to non-standard paper.




1. **Turn off the power and unplug the power cord.** Pull out Tray 1 carefully with both hands.
2. Place the tray on a flat surface. If there is paper in the tray, remove it.
3. Wipe the friction pads and the inside of the paper tray with a cloth.



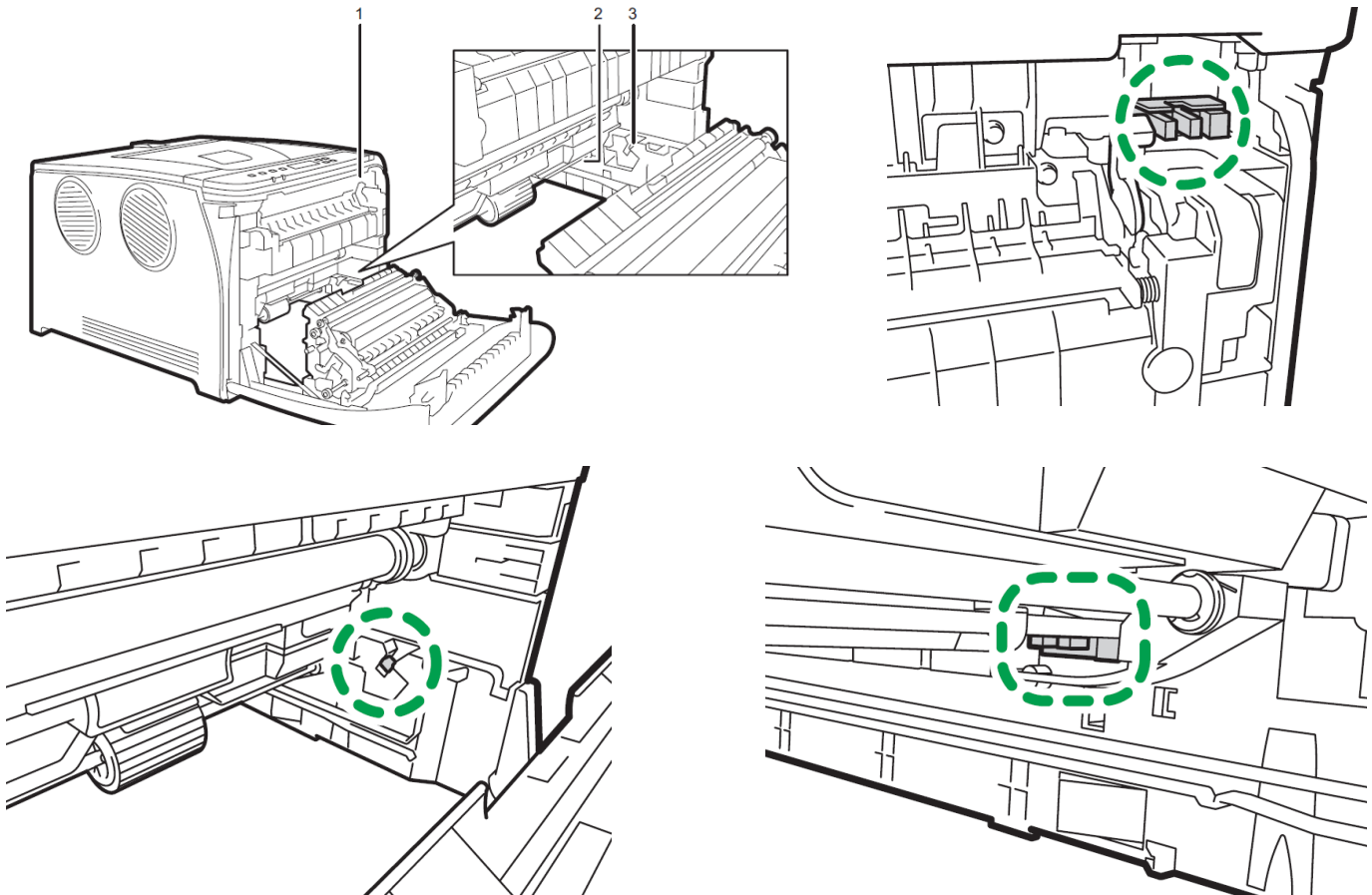
4. Underneath the printer, wipe the rubber part of the roller with a soft damp cloth. After that, wipe it with a dry cloth to remove the moisture.
5. Push the metal plate down until it clicks.
6. Reload the removed paper into the tray, and then push the tray carefully into the machine until it clicks into place.

Removing Paper Jams

Caution

- The inside of this machine becomes very hot. Do not touch the parts labeled "  " (indicating a hot surface).
- Some of this machine's internal components get very hot. For this reason, take care when removing misfed paper. Not doing so could result in burns.
- Some of the internal components of this machine might be fragile. When you remove jammed paper, do not touch the sensors, connectors, LEDs, or other fragile parts that are shown in this manual. Doing so may cause malfunctions.

For the location of the sensors in the machine and extended options, see the following illustrations:

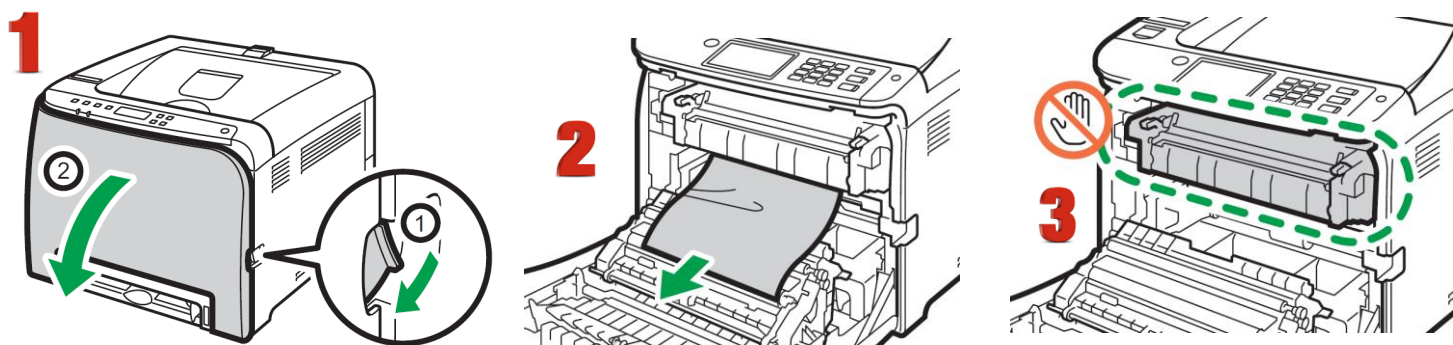


Important

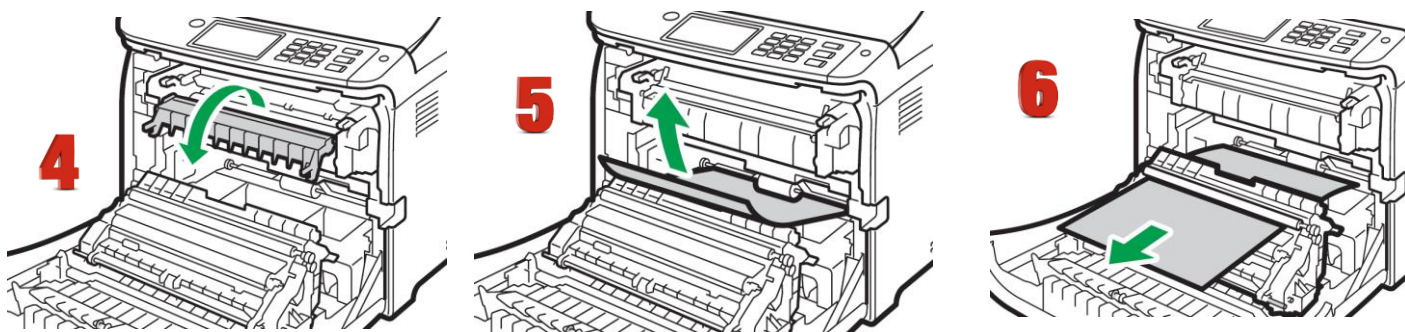
- Jammed paper may be covered in toner. Be careful not to get toner on your hands or clothes.
- Toner on prints made immediately after clearing a paper jam may be insufficiently fused and may smudge. Make test prints until smudges no longer appear.
- Do not forcefully remove jammed paper, as it may tear. Torn pieces remaining inside the machine will cause further jams and possibly damage the machine.
- Paper jam can cause pages to be lost. Check your print job for missing pages and reprint any pages that did not print out.

If paper jams inside the fusing unit, follow the procedure below to remove it.

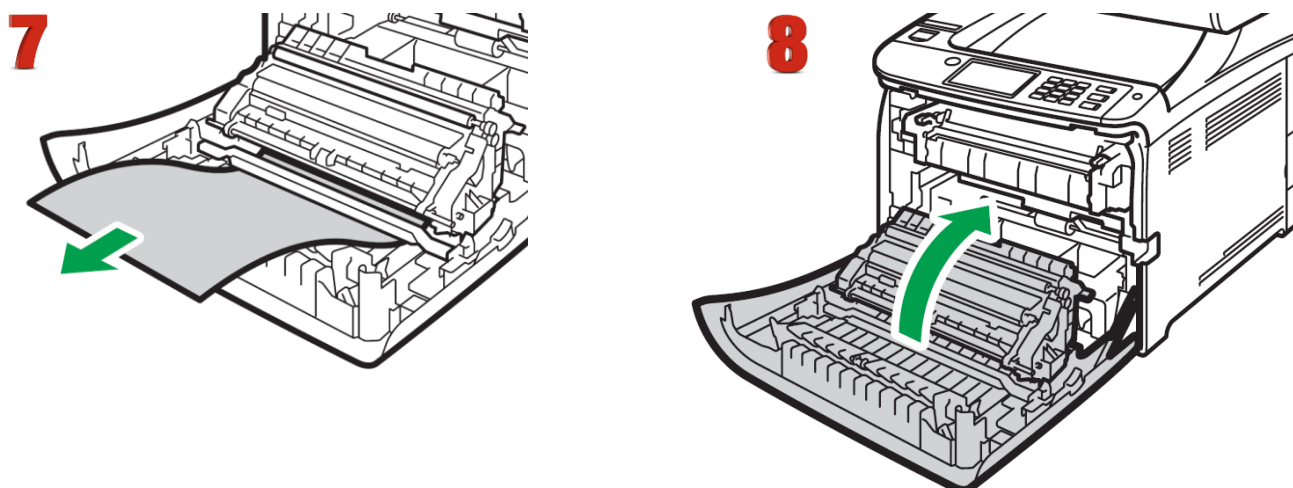
- Since the temperature around the guide is high, wait for it to cool down before checking for jammed paper.



1. Pull the front cover open lever and then carefully lower the front cover.
2. Pull the paper downward to remove it. Do not pull it upward.
3. Do not touch the fusing unit.



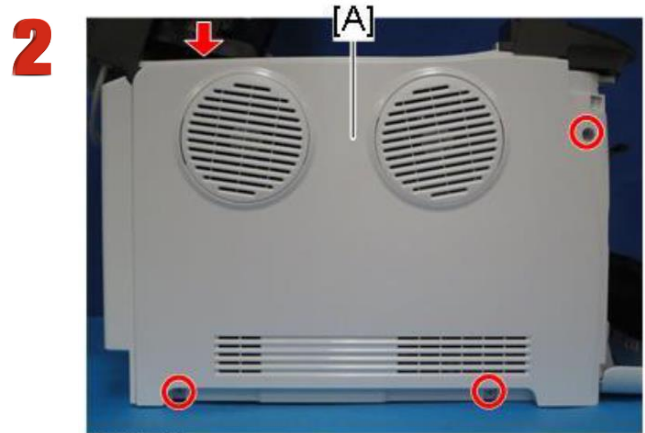
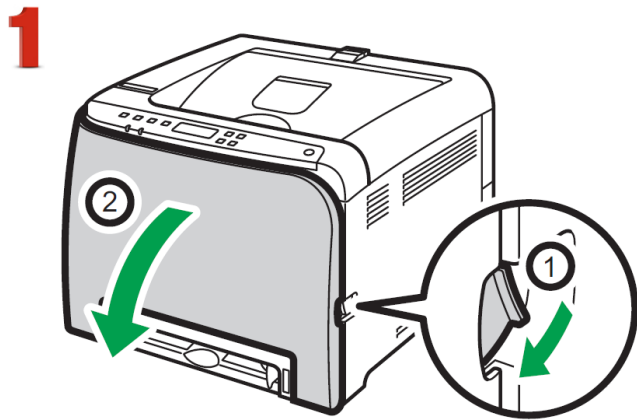
4. If you cannot find the jammed paper, check for it by pulling down the guide.
5. **If paper jams inside a tray** - Pull out the jammed paper carefully. Do not pull out the paper tray or touch the fusing unit.
6. **If paper has jammed inside the transfer unit** - Hold both sides of the paper, pull the paper carefully forward.



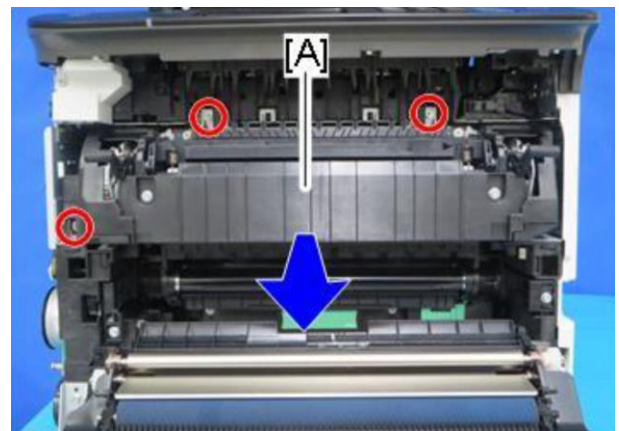
7. Then pull out
8. Once the jam is cleared, using both hands, carefully push up the front cover until it closes. When closing the front cover, push the upper area of the cover firmly. After closing the cover, check that the error is cleared.

Replacing the Fusing Unit

⚠ Make sure that the fusing unit is cool before you touch it. The fusing unit can be very hot.



1. Open the front cover.
2. Release the top hook, remove 3 screws and remove the left cover [A].



3. Carefully disconnect the two connectors.
4. Remove 3 screws from around the fusing unit and carefully pull forward with both hands.
5. To install a new fusing unit, follow the above steps in reverse order.

Printing Tips

When transferring images with halftones, it's possible that some of the adhesive from your 2 step paper will not transfer over to the toner during the first step. If you see this happen with your image, just reprint the image with a white overprint using the ProRIP to thicken up the density and give the adhesive something to stick to. Halftone colors use much less toner. Printing the white over the image will fill in the halftones of color, with density below 70%. Using white overprint is necessary, even when transferring to white colored textiles.

There are many variables that could produce different results. Specific steps may need to be altered based on:

- Type and brand of Heat Press: The temperature and duration varies slightly based on the heat press being used. All instructions are based on using a Hotronix Fusion press. Clam shell and other types of swing away presses may also yield different results.
- Type of image: Photos or full color graphics may require a longer press time than vector images or text.
- Type of garment or substrate: Cotton, Polyester, and Spandex material all respond differently to heat, as do hard surfaces like acrylic or wood. All textile instructions are based on cotton garments.
- Toner Coverage: Halftones in image may cause undesired results. Toner coverage should not be less than 70%, otherwise there will be issues with transferring the adhesive to the transfer sheet. Halftones can be corrected by printing white on top of color using the IColor ProRIP Software to apply a white layer in one pass. This will help with toner coverage and proper adherence to the garment.

Consult the IColor knowledge base for specific instructions on a variety of transfer paper offered at:

<http://www.icolorprint.com/support>

Technical Support Email: Log a ticket at <https://www.icolorprint.com/get-support>

Technical Support Phone: 631-590-1040, Option 2

SAVE THE BOX AND PACKAGING! Needed if the machine needs to be sent back for service.

ALSO AVAILABLE:

- IColor Premium and Premium Stretch 2-Step Transfer Paper for light and dark colored garments
- IColor Select and Select Ultra Bright 2-Step Transfer Paper for light and dark colored garments
- IColor Standard 2-Step Transfer Paper for light and dark colored garments
- IColor Glitter Adhesive 2-Step Transfer Paper (for use with IColor Standard 2-Step Transfer Paper)
- IColor Light and Speed Trans Light 1-Step Transfer Paper for light colored garments
- IColor Presto 2-Step Transfer Paper for textiles and hard surfaces
- IColor Temporary Tattoo 2-Step Transfer Paper
- IColor Classic, Premium, Wood and Leather and Ceramic Hard Surface 1-Step Transfer Paper
- IColor AquaClear 1-Step Transfer Paper for candles and other substrates not resistant to heat
- IColor Label / Sticker Paper (Clear and White) in Letter and Tabloid size
- IColor Window Cling Media (Clear and White) in Banner and cut sheet options
- IColor Banner Paper
- IColor Magnetic Media in Letter and Tabloid size

...and more! Contact your dealer for more information.

IColor Transfer Paper Comparison Charts

ICOLOR TEXTILE TRANSFER PAPER

ATTRIBUTE	PREMIUM	PREMIUM STRETCH	STANDARD	SELECT UB	SELECT	PRESTO	LIGHT	SPEEDTRANS LIGHT
PROCESS	2 Step	2 Step	2 Step	2 Step	2 Step	2 Step	1 Step	1 Step
DURABILITY (# of Washes @ 104 °F/40 °C)	Up to 100	Up to 100	50+	50+	50+	50+	15+	15+
DARK TEXTILES (BRILLANCE)	BEST	BEST	BETTER	BEST	GOOD	BETTER	FAIR	FAIR
DELICATE TEXTILES	BEST	BEST	GOOD	GOOD	GOOD	GOOD	NOT RECOMMENDED	NOT RECOMMENDED
STRETCHABILITY	BETTER	BEST	GOOD	BEST	BEST	GOOD	GOOD	GOOD
FINISH	MATTE	MATTE	SEMI GLOSS	MATTE	MATTE	SEMI GLOSS	SATIN	SATIN
TRANSFER 'A' SHEET CHARACTERISTIC	OPAQUE	OPAQUE	TRANSPARENT	TRANSPARENT **	TRANSPARENT	OPAQUE	OPAQUE	OPAQUE
PRESS TEMPERATURE (°F/°C)	250°F / 120°C	285°F / 140°C	310°F / 154°C	310°F / 154°C	310°F / 154°C	285°F / 140°C	390°F / 200°C	375°F / 190°C
PRESS TIME	30 + 30 secs	45 + 10 secs	120 + 30 secs	120 + 25 secs	120 + 25 secs	120 + 30 secs	15 secs	10 secs
SOFT HAND	BEST	BEST	GOOD	GOOD	GOOD	GOOD	BETTER	BETTER
COST	\$\$\$	\$\$\$	\$\$	\$\$	\$\$	\$\$	\$	\$

* Select 800 Ultra Bright has an opaque 'A' sheet

ICOLOR TEXTILE TRANSFER PAPER

ATTRIBUTE	PREMIUM	PREMIUM STRETCH	STANDARD	SELECT UB	SELECT	PRESTO	LIGHT	SPEEDTRANS LIGHT
PROCESS	2 Step	2 Step	2 Step	2 Step	2 Step	2 Step	1 Step	1 Step
DURABILITY (# of Washes @ 104 °F/40 °C)	Up to 100	Up to 100	50+	50+	50+	50+	15+	15+
DARK TEXTILES (BRILLANCE)	BEST	BEST	BETTER	BEST	GOOD	BETTER	FAIR	FAIR
DELICATE TEXTILES	BEST	BEST	GOOD	GOOD	GOOD	GOOD	NOT RECOMMENDED	NOT RECOMMENDED
STRETCHABILITY	BETTER	BEST	GOOD	BEST	BEST	GOOD	GOOD	GOOD
FINISH	MATTE	MATTE	SEMI GLOSS	MATTE	MATTE	SEMI GLOSS	SATIN	SATIN
PRESS TEMPERATURE (°F/°C)	250°F / 120°C	285°F / 140°C	310°F / 154°C	310°F / 154°C	310°F / 154°C	285°F / 140°C	390°F / 200°C	375°F / 190°C
PRESS TIME	30 + 30 secs	45 + 10 secs	120 + 30 secs	120 + 25 secs	120 + 25 secs	120 + 30 secs	15 secs	10 secs
SOFT HAND	BEST	BEST	GOOD	GOOD	GOOD	GOOD	BETTER	BETTER
COST	\$\$\$	\$\$\$	\$\$	\$\$	\$\$	\$\$	\$	\$

IColor 560 System Specifications

Print Speed: Print Speed: Up to 25 ppm Color and Monochrome
(Transparency setting speeds may vary)

Processor: 350 MHz

Duty Cycle: Up to 65,000 pg/mo.

Duplex: Standard

Memory: 256 MB RAM

Resolution (Maximum): 2400 x 600 dpi

Emulation: PCL® 6, PCL 5c; PostScript® 3™ Emulated

Operating Systems: Windows 7, 8.1 & 10

Interfaces: 10/100-TX Ethernet, High Speed USB v2.0, Wireless LAN (IEEE 802.11 a/b/g/n/ac),

Bypass Tray: 'One at a time Feed' - A4, A5, A6, B5, B6, Legal, Letter, HLT

Paper Cassette: 250-sheet A4, A5, A6, B4, B5, Legal, Letter, HLT

Paper Sizes (Min./Max.): 3" x 5" to 8.5" x 14"

Paper Weight: Bypass Tray - 60 – 163 g/m²; Standard Tray - 60 – 163 g/m²

Power Consumption: Maximum – 1,300 watts

Size: (WxDxH): 15.7" x 17.7" x 13.1" (400 x 450 x 334 mm)

Consumables: Starter CMYK – 1,000 prints; W – 7,000 prints

Replacement CMYKW – 7,000 prints (all based on 5% coverage)

Weight: 55 lb. (25 kg)

Power: 120v or 230v